

MS-ASAIRS Test Suite Specification

**Abstract:** This document provides information about how to configure the test suite and how MS-ASAIRS test suite is designed to test MS-ASAIRS 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.

Contents

[1 Configuring the test suite 3](#_Toc387410882)

[1.1 Configuring the test suite client 3](#_Toc387410883)

[1.1.1 Configuring the test suite client manually 3](#_Toc387410884)

[1.1.2 Configuring the test suite client by scripts 3](#_Toc387410885)

[1.2 Configuring the system under test (SUT) 3](#_Toc387410886)

[1.2.1 Configuring the SUT manually 3](#_Toc387410887)

[1.2.2 Configuring the SUT by scripts 3](#_Toc387410888)

[1.3 Configuring the SHOULD/MAY requirements 3](#_Toc387410889)

[2 Test suite design 5](#_Toc387410890)

[2.1 Assumptions, scope and constraints 5](#_Toc387410891)

[2.2 Test suite architecture 5](#_Toc387410892)

[2.3 Technical dependencies and considerations 7](#_Toc387410893)

[2.4 Adapter design 7](#_Toc387410894)

[2.4.1 Adapter overview 7](#_Toc387410895)

[2.4.2 Technical feasibility of adapter approach 7](#_Toc387410896)

[2.4.3 Adapter abstract layer 8](#_Toc387410897)

[2.4.4 Adapter details 8](#_Toc387410898)

[2.5 Test scenarios 9](#_Toc387410899)

[2.5.1 S01\_BodyPartPreference 10](#_Toc387410900)

[2.5.2 S02\_BodyPreference 10](#_Toc387410901)

[2.5.3 S03\_Attachment 11](#_Toc387410902)

[2.5.4 S04\_StatusError 11](#_Toc387410903)

[2.6 Test case design 12](#_Toc387410904)

[2.6.1 Traditional test case design 12](#_Toc387410905)

[2.6.2 Test case description 13](#_Toc387410906)

# 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-ASAIRS\_TestSuite.deployment.ptfconfig file. The MS-ASAIRS\_TestSuite.deployment.ptfconfig file can also be configured by running the client setup script.

1. Open MS-ASAIRS\TestSuite\MS-ASAIRS\_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="User1Name" value="MSASAIRS\_User01"
* Property name="User1Password" value="Password01!"
* Property name="User2Name" value="MSASAIRS\_User02"
* Property name="User2Password" 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-ASAIRS\_ExchangeServer2007\_SHOULDMAY.deployment.ptfconfig
* MS-ASAIRS\_ExchangeServer2010\_SHOULDMAY.deployment.ptfconfig
* MS-ASAIRS\_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-ASAIRS\_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 by using five commands: FolderSync, SendMail, Sync, Search and ItemOperations.
* 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 the 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-ASAIRS test suite architecture

* SUT hosts the ActiveSync 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-ASAIRS 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-ASAIRS Open Specification.
* Test cases use the MS-ASAIRS adapter to call and get the results of the MS-ASAIRS commands.
* MS-ASAIRS adapter is used in the test cases. The test cases call the methods in the interfaces to invoke the MS-ASAIRS protocol adapter’s commands.
* MS-ASAIRS adapter uses ActiveSyncClient to send command request and retrieve command response.
* ActiveSyncClient encodes and decodes FolderSync command, SendMail command, Sync command, Search command and ItemOperations 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 the xsd.exe tool in the .NET Framework SDK to generate structures used in the MS-ASAIRS request and response.
* This test suite depends on the Protocol Test Framework (PTF) to derive managed adapter.
* This test suite depends on MS-ASWBXML to encode XMLrequest bodies into Wireless Application Protocol (WAP) Binary XML (WBXML) for transmission to an ActiveSync server.
* This test suite depends on MS-ASHTTP to synchronize data that is stored on the server.

Encryption consideration

* Transportation of MS-ASAIRS 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-ASAIRS protocol adapter
* The MS-ASAIRS adapter is a managed adapter, which is derived from the ManagedAdapterBase class in PTF.
* The MS-ASAIRS adapter has the following functionalities
* Choose HTTP or HTTPS for transport;
* Construct requests of the five commands used in MS-ASAIRS;
* 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-ASAIRS adapter gets the parameter values and calls the corresponding commands in ActiveSyncClient. The ActiveSyncClient serializes the parameter values to XML elements, and then encodes the request bodies into WBXML for transmission to an ActiveSync server.

Message consumption

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

### Adapter abstract layer

Protocol adapter

MS-ASAIRS adapter interface

There are six methods declared in the MS-ASAIRS adapter interface IMS\_ASAIRSAdapter.

Three methods Sync, Search, ItemOperations and three overload methods for them correspond to the three MS-ASAIRS commands: Sync, Search and ItemOperations. And the other three methods FolderSync, SendMail and SwitchUser are used to synchronize the collection hierarchy, send MIME formatted e-mail items and switch current user to another to call ActiveSync commands.

The methods are described in the following table.

|  |  |  |
| --- | --- | --- |
| **No.** | **Methods** | **Description** |
| 1 | FolderSync | This method is used to synchronize the collection hierarchy. |
| 2 | ItemOperations | This method is used to retrieve an item from the server by sending ItemOperationsRequest object. |
| 3 | ItemOperations | This method is used to retrieve an item from the server by sending the raw string request. |
| 4 | Search | This method is used to find entries in an address book, mailbox or document library by sending SearchRequest object. |
| 5 | Search | This method is used to find entries in an address book, mailbox or document library by sending raw string request. |
| 6 | SendMail | This method is used to send MIME formatted e-mail messages to the server. |
| 7 | SwitchUser | This method is used to switch the current user to another. |
| 8 | Sync | This method is used to synchronize the changes in a collection between the client and the server by sending SyncRequest object. |
| 9 | Sync | This method is used to synchronize the changes in a collection between the client and the server by sending raw string request. |

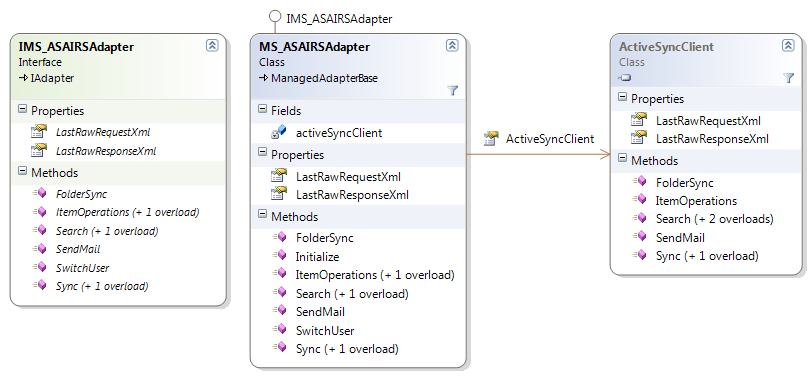
MS-ASAIRS adapter interface methods

### Adapter details

#### Protocol adapter

##### MS-ASAIRS protocol adapter

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



MS-ASAIRS adapter and ActiveSyncClient class diagram

The following outlines details of the class diagram:

Adapter interface

* IMS\_ASAIRSAdapter is the interface of the protocol adapter.
* IMS\_ASAIRSAdapter defines the methods invoked by test cases, including FolderSync, ItemOperations, Search, SendMail, SwitchUser, Sync and three overload methods for Sync, Search and ItemOperations methods.

Adapter implementation

* MS\_ASAIRSAdapter is the protocol adapter class of the test suite. It is used to implement IMS\_ASAIRSAdapter.
* MS\_ASAIRSAdapter invokes the methods defined in ActiveSyncClient to synchronize information, find entries, retrieve items, send e-mail messages and switch user.
* The Initialize method is used to initialize an instance of ActiveSyncClient.
* The two properties LastRawRequestXml and LastRawResponseXml are used to get the raw request and response xml data.

## Test scenarios

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

|  |  |
| --- | --- |
| Scenario | Description |
| S01\_BodyPartPreference | Test the BodyPartPreference element and BodyPart element in the AirSyncBase namespace, which is used by the Sync command, Search command and ItemOperations command to identify the data sent by and returned to client. |
| S02\_BodyPreference | Test the BodyPreference element and Body element in the AirSyncBase namespace, which is used by the Sync command, Search command and ItemOperations command to identify the data sent by and returned to client. |
| S03\_Attachment | Test the Attachments element and its subelements in the AirSyncBase namespace, which is used by the Sync command, Search command and ItemOperations command to identify the data sent by and returned to client. |
| S04\_StatusError | Test the status error which is returned by the Sync command, Search command and ItemOperations command when the XML elements in AirSyncBase namespace don't comply with the requirements regarding data type, number of instance, order and placement in the XML hierarchy. |

MS-ASAIRS scenarios

### S01\_BodyPartPreference

Description

Test the BodyPartPreference element and BodyPart element in the AirSyncBase namespace, which is used by the Sync command, Search command and ItemOperations command to identify the data sent by and returned to client.

Commands

* Sync
* FolderSync
* Search
* ItemOperations
* SendMail

Prerequisites

Call FolderSync command to get ServerId of Inbox and Contacts folders.

Cleanup

Call Sync command to delete the items created in test cases.

### S02\_BodyPreference

Description

Test the BodyPreference element and Body element in the AirSyncBase namespace, which is used by the Sync command, Search command and ItemOperations command to identify the data sent by and returned to client.

Commands

* Sync
* FolderSync
* Search
* ItemOperations
* SendMail

Prerequisites

Call FolderSync command to get ServerId of Inbox and Contacts folders.

Cleanup

Call Sync command to delete the items created in test cases.

### S03\_Attachment

Description

Test the Attachments element and its subelements in the AirSyncBase namespace, which is used by the Sync command, Search command and ItemOperations command to identify the data sent by and returned to client.

Commands

* Sync
* FolderSync
* Search
* ItemOperations
* SendMail

Prerequisites

Call FolderSync command to get ServerId of Inbox and Contacts folders.

Cleanup

Call Sync command to delete the items created in test cases.

### S04\_StatusError

Description

Test the status error which is returned by the Sync command, Search command and ItemOperations command when the XML elements in AirSyncBase namespace don't comply with the requirements regarding data type, number of instance, order and placement in the XML hierarchy.

Commands

* Sync
* FolderSync
* Search
* ItemOperations
* SendMail

Prerequisites

Call FolderSync command to get ServerId of Inbox and Contacts folders.

Cleanup

Call Sync command to delete the items created in test cases.

## 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 32 traditional test cases designed to cover the four 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\_BodyPartPreference | MSASAIRS\_S01\_TC01\_BodyPartPreference\_AllOrNoneTrue\_AllContentReturned |
| MSASAIRS\_S01\_TC02\_BodyPartPreference\_AllOrNoneTrue\_AllContentNotReturned |
| MSASAIRS\_S01\_TC03\_BodyPartPreference\_AllOrNoneFalse\_TruncatedContentReturned |
| MSASAIRS\_S01\_TC04\_BodyPartPreference\_AllOrNoneFalse\_NonTruncatedContentReturned |
| MSASAIRS\_S01\_TC05\_BodyPartPreference\_NoAllOrNone\_TruncatedContentReturned |
| MSASAIRS\_S01\_TC06\_BodyPartPreference\_NoAllOrNone\_NonTruncatedContentReturned |
| MSASAIRS\_S01\_TC07\_BodyPartPreference\_NotIncludedTruncationSize |
| MSASAIRS\_S01\_TC08\_BodyPart\_Preview |
| S02\_BodyPreference | MSASAIRS\_S02\_TC01\_BodyPreference\_AllOrNoneTrue\_AllContentReturned |
| MSASAIRS\_S02\_TC02\_BodyPreference\_AllOrNoneTrue\_AllContentNotReturned |
| MSASAIRS\_S02\_TC03\_BodyPreference\_AllOrNoneFalse\_TruncatedContentReturned |
| MSASAIRS\_S02\_TC04\_BodyPreference\_AllOrNoneFalse\_NonTruncatedContentReturned |
| MSASAIRS\_S02\_TC05\_BodyPreference\_NoAllOrNone\_TruncatedContentReturned |
| MSASAIRS\_S02\_TC06\_BodyPreference\_NoAllOrNone\_NonTruncatedContentReturned |
| MSASAIRS\_S02\_TC07\_BodyPreference\_NotIncludedTruncationSize |
| MSASAIRS\_S02\_TC08\_MultipleBodyPreference |
| MSASAIRS\_S02\_TC09\_Body\_Preview |
| MSASAIRS\_S02\_TC10\_IncludedBodyInResponse |
| MSASAIRS\_S02\_TC11\_TruncatedPresentOrNotInRequest |
| MSASAIRS\_S02\_TC12\_NativeBodyTypeAndType\_RTF |
| MSASAIRS\_S02\_TC13\_NativeBodyTypeAndType\_HTML |
| MSASAIRS\_S02\_TC14\_ItemOperations\_Part |
| S03\_Attachment | MSASAIRS\_S03\_TC01\_FileReference\_ZeroLengthString |
| MSASAIRS\_S03\_TC02\_NormalAttachment |
| MSASAIRS\_S03\_TC03\_EmbeddedMessageAttachment |
| MSASAIRS\_S03\_TC04\_OLEAttachment |
| S04\_StatusError | MSASAIRS\_S04\_TC01\_Sync\_Status4 |
| MSASAIRS\_S04\_TC02\_IncorrectDataType |
| MSASAIRS\_S04\_TC03\_IncorrectNumberOfInstances |
| MSASAIRS\_S04\_TC04\_IncorrectOrder |
| MSASAIRS\_S04\_TC05\_IncorrectPlacement |
| MSASAIRS\_S04\_TC06\_MultipleBodyPreferenceHaveSameTypeValue |

Test case scenario distribution

### Test case description

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

|  |  |
| --- | --- |
| Common prerequisites | 1. Use HTTP or HTTPS as the transport. 2. Call FolderSync command to get ServerId of Inbox and Contacts folders. |
| Common cleanup | Call Sync command to delete the items created in test cases. |

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\_BodyPartPreference | |
| Test case ID | MSASAIRS\_S01\_TC01\_BodyPartPreference\_AllOrNoneTrue\_AllContentReturned |
| Description | This case is designed to test when the value of the AllOrNone (BodyPartPreference) element is set to 1 (TRUE) and the content has not been truncated, all of the content is synchronized, searched or retrieved. |
| Prerequisites | Common prerequisites |
| Test execution steps | 1. The sender calls SendMailcommand to send the email to recipient. 2. The recipient calls Sync command to get the entire content of the e-mail item on the server. 3. The recipient calls Sync command with BodyPartPreference AllOrNone element setting to TRUE and TruncationSize element exceeding the available data to synchronize the e-mail item on the server. 4. The recipient calls ItemOperations command with BodyPartPreference AllOrNone element setting to TRUE and TruncationSize element exceeding the available data to retrieve the e-mail item on the server. 5. The recipient calls Search command with BodyPartPreference AllOrNone element setting to TRUE and TruncationSize element exceeding the available data to search the e-mail item on the server. |
| Cleanup | Common cleanup |

MSASAIRS\_S01\_TC01\_BodyPartPreference\_AllOrNoneTrue\_AllContentReturned

|  |  |
| --- | --- |
| S01\_BodyPartPreference | |
| Test case ID | MSASAIRS\_S01\_TC02\_BodyPartPreference\_AllOrNoneTrue\_AllContentNotReturned |
| Description | This case is designed to test when the value of the AllOrNone (BodyPartPreference) element is set to 1 (TRUE) and the content has been truncated, the content is not synchronized, searched or retrieved. |
| Prerequisites | Common prerequisites |
| Test execution steps | 1. The sender calls SendMailcommand to send the email to recipient. 2. The recipient calls Sync command with BodyPartPreference AllOrNone element setting to TRUE and TruncationSize element smaller than the available data to synchronize the e-mail item on the server. 3. The recipient calls ItemOperations command with BodyPartPreference AllOrNone element setting to TRUE and TruncationSize element smaller than the available data to retrieve the e-mail item on the server. 4. The recipient calls Search command with BodyPartPreference AllOrNone element setting to TRUE and TruncationSize element smaller than the available data to search the e-mail item on the server. |
| Cleanup | Common cleanup |

MSASAIRS\_S01\_TC02\_BodyPartPreference\_AllOrNoneTrue\_AllContentNotReturned

|  |  |
| --- | --- |
| S01\_BodyPartPreference | |
| Test case ID | MSASAIRS\_S01\_TC03\_BodyPartPreference\_AllOrNoneFalse\_TruncatedContentReturned |
| Description | This case is designed to test when the value of the AllOrNone (BodyPartPreference) element is set to 0 (FALSE) and the available data exceeds the value of the TruncationSize element, the truncated content is synchronized, searched or retrieved. |
| Prerequisites | Common prerequisites |
| Test execution steps | 1. The sender calls SendMailcommand to send the email to recipient. 2. The recipient calls Sync command to get the entire content of the e-mail item on the server. 3. The recipient calls Sync command with BodyPartPreference AllOrNone element setting to FALSE and TruncationSize element smaller than the available data to synchronize the e-mail item on the server. 4. The recipient calls ItemOperations command with BodyPartPreference AllOrNone element setting to FALSE and TruncationSize element smaller than the available data to retrieve the e-mail item on the server. 5. The recipient calls Search command with BodyPartPreference AllOrNone element setting to FALSE and TruncationSize element smaller than the available data to search the e-mail item on the server. |
| Cleanup | Common cleanup |

MSASAIRS\_S01\_TC03\_BodyPartPreference\_AllOrNoneFalse\_TruncatedContentReturned

|  |  |
| --- | --- |
| S01\_BodyPartPreference | |
| Test case ID | MSASAIRS\_S01\_TC04\_BodyPartPreference\_AllOrNoneFalse\_NonTruncatedContentReturned |
| Description | This case is designed to test when the value of the AllOrNone (BodyPartPreference) element is set to 0 (FALSE) and the available data doesn't exceed the value of the TruncationSize element, the non-truncated content will be synchronized, searched or retrieved. |
| Prerequisites | Common prerequisites |
| Test execution steps | 1. The sender calls SendMailcommand to send the email to recipient. 2. The recipient calls Sync command to get the entire content of the e-mail item on the server. 3. The recipient calls Sync command with BodyPartPreference AllOrNone element setting to FALSE and TruncationSize element exceeding the available data to synchronize the e-mail item on the server. 4. The recipient calls ItemOperations command with BodyPartPreference AllOrNone element setting to FALSE and TruncationSize element exceeding the available data to retrieve the e-mail item on the server. 5. The recipient calls Search command with BodyPartPreference AllOrNone element setting to FALSE and TruncationSize element exceeding the available data to search the e-mail item on the server. |
| Cleanup | Common cleanup |

MSASAIRS\_S01\_TC04\_BodyPartPreference\_AllOrNoneFalse\_NonTruncatedContentReturned

|  |  |
| --- | --- |
| S01\_BodyPartPreference | |
| Test case ID | MSASAIRS\_S01\_TC05\_BodyPartPreference\_NoAllOrNone\_TruncatedContentReturned |
| Description | This case is designed to test if the AllOrNone (BodyPartPreference) element is not included in the request and the available data exceeds the value of the TruncationSize element, the truncated content synchronized, searched or retrieved as if the value was set to 0 (FALSE). |
| Prerequisites | Common prerequisites |
| Test execution steps | 1. The sender calls SendMailcommand to send the email to recipient. 2. The recipient calls Sync command to get the entire content of the e-mail item on the server. 3. The recipient calls Sync command with BodyPartPreference TruncationSize element smaller than the available data to synchronize the e-mail item on the server. 4. The recipient calls ItemOperations command with BodyPartPreference TruncationSize element smaller than the available data to retrieve the e-mail item on the server. 5. The recipient calls Search command with BodyPartPreference TruncationSize element smaller than the available data to search the e-mail item on the server. |
| Cleanup | Common cleanup |

MSASAIRS\_S01\_TC05\_BodyPartPreference\_NoAllOrNone\_TruncatedContentReturned

|  |  |
| --- | --- |
| S01\_BodyPartPreference | |
| Test case ID | MSASAIRS\_S01\_TC06\_BodyPartPreference\_NoAllOrNone\_NonTruncatedContentReturned |
| Description | This case is designed to test if the AllOrNone (BodyPartPreference) element is not included in the request and the available data doesn't exceed the value of the TruncationSize element, the non-truncated content will be synchronized, searched or retrieved as if the value was set to 0 (FALSE). |
| Prerequisites | Common prerequisites |
| Test execution steps | 1. The sender calls SendMailcommand to send the email to recipient. 2. The recipient calls Sync command to get the entire content of the e-mail item on the server. 3. The recipient calls Sync command with BodyPartPreference TruncationSize element exceeding the available data to synchronize the e-mail item on the server. 4. The recipient calls ItemOperations command with BodyPartPreference TruncationSize element exceeding the available data to retrieve the e-mail item on the server. 5. The recipient calls Search command with BodyPartPreference TruncationSize element exceeding the available data to search the e-mail item on the server. |
| Cleanup | Common cleanup |

MSASAIRS\_S01\_TC06\_BodyPartPreference\_NoAllOrNone\_NonTruncatedContentReturned

|  |  |
| --- | --- |
| S01\_BodyPartPreference | |
| Test case ID | MSASAIRS\_S01\_TC07\_BodyPartPreference\_NotIncludedTruncationSize |
| Description | This case is designed to test if the TruncationSize (BodyPartPreference) element is not included, the server will return the same response no matter whether AllOrNone is true or false. |
| Prerequisites | Common prerequisites |
| Test execution steps | 1. The sender calls SendMailcommand to send the email to recipient. 2. The recipient calls Sync command to get the entire content of the e-mail item on the server. 3. The recipient calls Sync command with BodyPartPreference AllOrNone element setting to TRUE to synchronize the e-mail item on the server. 4. The recipient calls Sync command with BodyPartPreference AllOrNone element setting to FALSE to synchronize the e-mail item on the server. 5. The recipient calls ItemOperations command with BodyPartPreference AllOrNone element setting to TRUE to retrieve the e-mail item on the server. 6. The recipient calls ItemOperations command with BodyPartPreference AllOrNone element setting to FALSE to retrieve the e-mail item on the server. 7. The recipient calls Search command with BodyPartPreference AllOrNone element setting to TRUE to search the e-mail item on the server. 8. The recipient calls Search command with BodyPartPreference AllOrNone element setting to FALSE to search the e-mail item on the server. |
| Cleanup | Common cleanup |

MSASAIRS\_S01\_TC07\_BodyPartPreference\_NotIncludedTruncationSize

|  |  |
| --- | --- |
| S01\_BodyPartPreference | |
| Test case ID | MSASAIRS\_S01\_TC08\_BodyPart\_Preview |
| Description | This case is designed to test the Preview (BodyPart) element which contains the Unicode plain text message or message part preview returned to the client. |
| Prerequisites | Common prerequisites |
| Test execution steps | 1. The sender calls SendMailcommand to send the email to recipient. 2. The recipient calls Sync command to get the entire content of the e-mail item on the server. 3. The recipient calls Sync command with Preview element of BodyPartPrefence element to synchronize the e-mail item on the server. 4. The recipient calls ItemOperations command with Preview element of BodyPartPrefence element to retrieve the e-mail item on the server. 5. The recipient calls Search with Preview element of BodyPartPrefence element to search the e-mail item on the server. |
| Cleanup | Common cleanup |

MSASAIRS\_S01\_TC08\_BodyPart\_Preview

|  |  |
| --- | --- |
| S02\_BodyPreference | |
| Test case ID | MSASAIRS\_S02\_TC01\_BodyPreference\_AllOrNoneTrue\_AllContentReturned |
| Description | This case is designed to test when the value of the AllOrNone (BodyPreference) element is set to 1 (TRUE) and the content has not been truncated, all of the content is synchronized, searched or retrieved. |
| Prerequisites | Common prerequisites |
| Test execution steps | 1. The sender calls SendMailcommand to send the email to recipient. 2. The recipient calls Sync command to get the entire content of the e-mail item on the server. 3. The recipient calls Sync command with BodyPreference AllOrNone element setting to TRUE and TruncationSize element exceeding the available data to synchronize the e-mail item on the server. 4. The recipient calls ItemOperations command with BodyPreference AllOrNone element setting to TRUE and TruncationSize element exceeding the available data to retrieve the e-mail item on the server. 5. The recipient calls Search command with BodyPreference AllOrNone element setting to TRUE and TruncationSize element exceeding the available data to search the e-mail item on the server. |
| Cleanup | Common cleanup |

MSASAIRS\_S02\_TC01\_BodyPreference\_AllOrNoneTrue\_AllContentReturned

|  |  |
| --- | --- |
| S02\_BodyPreference | |
| Test case ID | MSASAIRS\_S02\_TC02\_BodyPreference\_AllOrNoneTrue\_AllContentNotReturned |
| Description | This case is designed to test when the value of the AllOrNone (BodyPreference) element is set to 1 (TRUE) and the content has been truncated, the content is not synchronized, searched or retrieved. |
| Prerequisites | Common prerequisites |
| Test execution steps | 1. The sender calls SendMailcommand to send the email to recipient. 2. The recipient calls Sync command with BodyPreference AllOrNone element setting to TRUE and TruncationSize element smaller than the available data to synchronize the e-mail item on the server. 3. The recipient calls ItemOperations command with BodyPreference AllOrNone element setting to TRUE and TruncationSize element smaller than the available data to retrieve the e-mail item on the server. 4. The recipient calls Search command with BodyPreference AllOrNone element setting to TRUE and TruncationSize element smaller than the available data to search the e-mail item on the server. |
| Cleanup | Common cleanup |

MSASAIRS\_S02\_TC02\_BodyPreference\_AllOrNoneTrue\_AllContentNotReturned

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| --- | --- |
| S02\_BodyPreference | |
| Test case ID | MSASAIRS\_S02\_TC03\_BodyPreference\_AllOrNoneFalse\_TruncatedContentReturned |
| Description | This case is designed to test when the value of the AllOrNone (BodyPreference) element is set to 0 (FALSE) and the available data exceeds the value of the TruncationSize element, the truncated content is synchronized, searched or retrieved. |
| Prerequisites | Common prerequisites |
| Test execution steps | 1. The sender calls SendMailcommand to send the email to recipient. 2. The recipient calls Sync command with BodyPreference AllOrNone element setting to FALSE and TruncationSize element smaller than the available data to synchronize the e-mail item on the server. 3. The recipient calls ItemOperations command with BodyPreference AllOrNone element setting to FALSE and TruncationSize element smaller than the available data to retrieve the e-mail item on the server. 4. The recipient calls Search command with BodyPreference AllOrNone element setting to FALSE and TruncationSize element smaller than the available data to search the e-mail item on the server. |
| Cleanup | Common cleanup |

MSASAIRS\_S02\_TC03\_BodyPreference\_AllOrNoneFalse\_TruncatedContentReturned

|  |  |
| --- | --- |
| S02\_BodyPreference | |
| Test case ID | MSASAIRS\_S02\_TC04\_BodyPreference\_AllOrNoneFalse\_NonTruncatedContentReturned |
| Description | This case is designed to test when the value of the AllOrNone (BodyPreference) element is set to 0 (FALSE) and the available data doesn't exceed the value of the TruncationSize element, the non-truncated content will be synchronized, searched or retrieved. |
| Prerequisites | Common prerequisites |
| Test execution steps | 1. The sender calls SendMailcommand to send the email to recipient. 2. The recipient calls Sync command to get the entire content of the e-mail item on the server. 3. The recipient calls Sync command with BodyPreference AllOrNone element setting to FALSE and TruncationSize element exceeding the available data to synchronize the e-mail item on the server. 4. The recipient calls ItemOperations command with BodyPreference AllOrNone element setting to FALSE and TruncationSize element exceeding the available data to retrieve the e-mail item on the server. 5. The recipient calls Search command with BodyPreference AllOrNone element setting to FALSE and TruncationSize element exceeding the available data to search the e-mail item on the server. |
| Cleanup | Common cleanup |

MSASAIRS\_S02\_TC04\_BodyPreference\_AllOrNoneFalse\_NonTruncatedContentReturned

|  |  |
| --- | --- |
| S02\_BodyPreference | |
| Test case ID | MSASAIRS\_S02\_TC05\_BodyPreference\_NoAllOrNone\_TruncatedContentReturned |
| Description | This case is designed to test if the AllOrNone (BodyPreference) element is not included in the request and the available data exceeds the value of the TruncationSize element, the truncated content will be synchronized, searched or retrieved as if the value was set to 0 (FALSE). |
| Prerequisites | Common prerequisites |
| Test execution steps | 1. The sender calls SendMailcommand to send the email to recipient. 2. The recipient calls Sync command with TruncationSize element smaller than the available data to synchronize the e-mail item on the server. 3. The recipient calls ItemOperations command with TruncationSize element smaller than the available data to retrieve the e-mail item on the server. 4. The recipient calls Search command with TruncationSize element smaller than the available data to search the e-mail item on the server. |
| Cleanup | Common cleanup |

MSASAIRS\_S02\_TC05\_BodyPreference\_NoAllOrNone\_TruncatedContentReturned

|  |  |
| --- | --- |
| S02\_BodyPreference | |
| Test case ID | MSASAIRS\_S02\_TC06\_BodyPreference\_NoAllOrNone\_NonTruncatedContentReturned |
| Description | This case is designed to test if the AllOrNone (BodyPreference) element is not included in the request and the available data doesn't exceed the value of the TruncationSize element, the non-truncated content will be synchronized, searched or retrieved as if the value was set to 0 (FALSE). |
| Prerequisites | Common prerequisites |
| Test execution steps | 1. The sender calls SendMailcommand to send the email to recipient. 2. The recipient calls Sync command to get the entire content of the e-mail item on the server. 3. The recipient calls Sync command with TruncationSize element exceeding the available data to synchronize the e-mail item on the server. 4. The recipient calls ItemOperations command with TruncationSize element exceeding the available data to retrieve the e-mail item on the server. 5. The recipient calls Search command with TruncationSize element exceeding the available data to search the e-mail item on the server. |
| Cleanup | Common cleanup |

MSASAIRS\_S02\_TC06\_BodyPreference\_NoAllOrNone\_NonTruncatedContentReturned

|  |  |
| --- | --- |
| S02\_BodyPreference | |
| Test case ID | MSASAIRS\_S02\_TC07\_BodyPreference\_NotIncludedTruncationSize |
| Description | This case is designed to test if the TruncationSize (BodyPreference) element is not included, the server will return the same response no matter whether AllOrNone is true or false. |
| Prerequisites | Common prerequisites |
| Test execution steps | 1. The sender calls SendMailcommand to send the email to recipient. 2. The recipient calls Sync command to get the entire content of the e-mail item on the server. 3. The recipient calls Sync command with BodyPreference AllOrNone element setting to TRUE to synchronize the e-mail item on the server. 4. The recipient calls Sync command with BodyPreference AllOrNone element setting to FALSE to synchronize the e-mail item on the server. 5. The recipient calls ItemOperations command with BodyPreference AllOrNone element setting to TRUE to retrieve the e-mail item on the server. 6. The recipient calls ItemOperations command with BodyPreference AllOrNone element setting to False to retrieve the e-mail item on the server. 7. The recipient calls Search command with BodyPreference AllOrNone element setting to TRUE to search the e-mail item on the server. 8. The recipient calls Search command with BodyPreference AllOrNone element setting to FALSE to search the e-mail item on the server. |
| Cleanup | Common cleanup |

MSASAIRS\_S02\_TC07\_BodyPreference\_NotIncludedTruncationSize

|  |  |
| --- | --- |
| S02\_BodyPreference | |
| Test case ID | MSASAIRS\_S02\_TC08\_MultipleBodyPreference |
| Description | This case is designed to test if the client has specified multiple BodyPreference elements, the server will select the next BodyPreference element and return the maximum amount of body text to the client. |
| Prerequisites | Common prerequisites |
| Test execution steps | 1. The sender calls SendMailcommand to send the email to recipient. 2. The recipient calls Sync command with two BodyPreference elements to synchronize the e-mail item on the server, the AllOrNone element is set to true and TruncationSize element is set to be smaller than the data size in the first BodyPreference element. 3. The recipient calls ItemOperations command with two BodyPreference elements to retrieve the e-mail item on the server, the AllOrNone element is set to true and TruncationSize element is set to be smaller than the data size in the first BodyPreference element. 4. The recipient calls Search command with two BodyPreference elements to search the e-mail item on the server, the AllOrNone element is set to true and TruncationSize element is set to be smaller than the data size in the first BodyPreference element. |
| Cleanup | Common cleanup |

MSASAIRS\_S02\_TC08\_MultipleBodyPreference

|  |  |
| --- | --- |
| S02\_BodyPreference | |
| Test case ID | MSASAIRS\_S02\_TC09\_Body\_Preview |
| Description | This case is designed to test the Preview (Body) element which contains the Unicode plain text message or message part preview returned to the client. |
| Prerequisites | Common prerequisites |
| Test execution steps | 1. The sender calls SendMailcommand to send the email to recipient. 2. The recipient calls Sync command to get the entire content of the e-mail item on the server. 3. The recipient calls Sync command with Preview element of BodyPrefence element to synchronize the e-mail item on the server. 4. The recipient calls ItemOperations command with Preview element of BodyPrefence element to retrieve the e-mail item on the server. 5. The recipient calls Search with Preview element of BodyPrefence element to search the e-mail item on the server. |
| Cleanup | Common cleanup |

MSASAIRS\_S02\_TC09\_Body\_Preview

|  |  |
| --- | --- |
| S02\_BodyPreference | |
| Test case ID | MSASAIRS\_S02\_TC10\_IncludedBodyInResponse |
| Description | This case is designed to test the Body element must be included in a response message whenever new items are created or an item has changes. |
| Prerequisites | Common prerequisites |
| Test execution steps | 1. The sender calls SendMailcommand to send the email to recipient. 2. The recipient calls Sync command to synchronize the e-mail item on the server. 3. The recipient calls ItemOperations command to retrieve the e-mail item on the server. 4. The recipient calls Search command to search the e-mail item on the server. 5. The recipient calls Sync command with Change element to update the email item on the server. 6. The recipient calls Sync command to synchronize the e-mail item on the server. 7. The recipient calls ItemOperations command to retrieve the e-mail item on the server. 8. The recipient calls Search command to search the e-mail item on the server. |
| Cleanup | Common cleanup |

MSASAIRS\_S02\_TC10\_IncludedBodyInResponse

|  |  |
| --- | --- |
| S02\_BodyPreference | |
| Test case ID | MSASAIRS\_S02\_TC11\_TruncatedPresentOrNotInRequest |
| Description | This case is designed to test both the Truncated element and the value of Truncated element has no effect in a command request. |
| Prerequisites | Common prerequisites |
| Test execution steps | 1. Call Synccommand with Add element to add three contacts on the server: one without Truncated element, one with Truncated value of TRUE and one with Truncated value of FALSE. 2. Call FolderSync command to synchronize the folder hierarchy after adding contact items. 3. Call Sync command with BodyPreference element to synchronize the three contacts one the server. |
| Cleanup | Common cleanup |

MSASAIRS\_S02\_TC11\_TruncatedPresentOrNotInRequest

|  |  |
| --- | --- |
| S02\_BodyPreference | |
| Test case ID | MSASAIRS\_S02\_TC12\_NativeBodyTypeAndType\_RTF |
| Description | This case is designed to test if the value of the Type element is 3 (RTF), the value of the Data element is encoded using base64 encoding and the value of NativeBodyType is also 3. |
| Prerequisites | Common prerequisites |
| Test execution steps | 1. The sender calls SendMailcommand to send a RTF email to recipient. 2. The recipient calls Sync command to synchronize the e-mail item on the server. 3. The recipient calls ItemOperations command to retrieve the e-mail item on the server. 4. The recipient calls Search command to search the e-mail item on the server. |
| Cleanup | Common cleanup |

MSASAIRS\_S02\_TC12\_NativeBodyTypeAndType\_RTF

|  |  |
| --- | --- |
| S02\_BodyPreference | |
| Test case ID | MSASAIRS\_S02\_TC13\_NativeBodyTypeAndType\_HTML |
| Description | This case is designed to test both the NativeBodyType and Type has the same value unless the server has modified the format of the body to match the client's request. |
| Prerequisites | Common prerequisites |
| Test execution steps | 1. The sender calls SendMailcommand to send a HTML email to recipient. 2. The recipient calls Sync command to synchronize the e-mail item on the server. 3. The recipient calls ItemOperations command to retrieve the e-mail item on the server. 4. The recipient calls Search command to search the e-mail item on the server. 5. The recipient calls Sync command with BodyPreference Type element setting to 4 to synchronize the e-mail item on the server. |
| Cleanup | Common cleanup |

MSASAIRS\_S02\_TC13\_NativeBodyTypeAndType\_PlainHTML

|  |  |
| --- | --- |
| S02\_BodyPreference | |
| Test case ID | MSASAIRS\_S02\_TC14\_ItemOperations\_Part |
| Description | This case is designed to test the Part element must not be present in non-multipart response and must be present in multipart response. |
| Prerequisites | Common prerequisites |
| Test execution steps | 1. The sender calls SendMailcommand to send the email to recipient. 2. The recipient calls Sync command to synchronize the e-mail item and get the server id of the item on the server. 3. The recipient calls ItemOperations command with the DeliveryMethodForFetch element setting to Inline to retrieve the e-mail item on the server. 4. The recipient calls ItemOperations command with the DeliveryMethodForFetch element setting to multipart to retrieve the e-mail item on the server. |
| Cleanup | Common cleanup |

MSASAIRS\_S02\_TC14\_ItemOperations\_Part

|  |  |
| --- | --- |
| S03\_Attachment | |
| Test case ID | MSASAIRS\_S03\_TC01\_FileReference\_ZeroLengthString |
| Description | This case is designed to test if the client includes a zero-length string for the value of the FileReference (Fetch) element in an ItemOperations command request, the server responds with a protocol status error of 15. |
| Prerequisites | Common prerequisites |
| Test execution steps | 1. The sender calls SendMailcommand to send an email with a normal attachment to recipient. 2. The recipient calls Sync command to synchronize the email item and get the email server id on the server. 3. The recipient calls ItemOperations command with a zero-length string for FileReference element to retrieve the e-mail item on the server. |
| Cleanup | Common cleanup |

MSASAIRS\_S03\_TC01\_FileReference\_ZeroLengthString

|  |  |
| --- | --- |
| S03\_Attachment | |
| Test case ID | MSASAIRS\_S03\_TC02\_NormalAttachment |
| Description | This case is designed to test the method value 1 which specifies the attachment is a normal attachment. |
| Prerequisites | Common prerequisites |
| Test execution steps | 1. The sender calls SendMailcommand to send the email with normal attatchment to recipient. 2. The recipient calls Sync command to synchronize the e-mail item on the server. 3. The recipient calls ItemOperations command to retrieve the e-mail item on the server. 4. The recipient calls Search command to search the e-mail item on the server. |
| Cleanup | Common cleanup |

MSASAIRS\_S03\_TC02\_NormalAttachment

|  |  |
| --- | --- |
| S03\_Attachment | |
| Test case ID | MSASAIRS\_S03\_TC03\_EmbeddedMessageAttachment |
| Description | This case is designed to test the method value 5 which indicates that the attachment is an e-mail message, and that the attachment file has an .eml extension. |
| Prerequisites | Common prerequisites |
| Test execution steps | 1. The sender calls SendMailcommand to send the email with an embedded attachment to recipient. 2. The recipient calls Sync command to synchronize the e-mail item on the server. 3. The recipient calls ItemOperations command to retrieve the e-mail item on the server. 4. The recipient calls Search command to search the e-mail item on the server. |
| Cleanup | Common cleanup |

MSASAIRS\_S03\_TC03\_EmbeddedMessageAttachment

|  |  |
| --- | --- |
| S03\_Attachment | |
| Test case ID | MSASAIRS\_S03\_TC04\_OLEAttachment |
| Description | This case is designed to test the method value 6 which indicates that the attachment is an embedded Object Linking and Embedding (OLE) object. |
| Prerequisites | Common prerequisites |
| Test execution steps | 1. The sender calls SendMailcommand to send an email with an OLE attachment to recipient. 2. The recipient calls Sync command to synchronize the e-mail item on the server. 3. The recipient calls ItemOperations command to retrieve the e-mail item on the server. 4. The recipient calls Search command to search the e-mail item on the server. |
| Cleanup | Common cleanup |

MSASAIRS\_S03\_TC04\_OLEAttachment

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| --- | --- |
| S04\_StatusError | |
| Test case ID | MSASAIRS\_S04\_TC01\_Sync\_Status4 |
| Description | This case is designed to test if the child elements of BodyPreference are not in the correct order, the AllOrNone element is not of type Boolean, or multiple AllOrNone elements are in a single BodyPreference element, the server will return protocol status error 4 for a Sync command. |
| Prerequisites | Common prerequisites |
| Test execution steps | 1. The sender calls SendMailcommand to send the email to recipient. 2. The recipient calls Sync command with incorrect order of child elements of BodyPrefence to synchronize the e-mail item on the server. 3. The recipient calls Sync command with a non-boolean value of AllOrNone element to synchronize the e-mail item on the server. 4. The recipient calls Sync command with multiple AllOrNone elements in a single BodyPrefence element to synchronize the e-mail item on the server. |
| Cleanup | Common cleanup |

MSASAIRS\_S04\_TC01\_Sync\_Status4

|  |  |
| --- | --- |
| S04\_StatusError | |
| Test case ID | MSASAIRS\_S04\_TC02\_IncorrectDataType |
| Description | This case is designed to test server will return protocol status error 2 for an ItemOperations command or Search command, protocol status error 6 for a Sync command, if an element doesn't meet the specified data type. |
| Prerequisites | Common prerequisites |
| Test execution steps | 1. The sender calls SendMailcommand to send the email to recipient. 2. The recipient calls ItemOperations command with Type element in incorrect data type to retrieve the e-mail item on the server. 3. The recipient calls Search command with Type element in incorrect data type to search the e-mail item on the server. 4. The recipient calls Sync command with Type element in incorrect data type to synchronize the e-mail item on the server. |
| Cleanup | Common cleanup |

MSASAIRS\_S04\_TC02\_IncorrectDataType

|  |  |
| --- | --- |
| S04\_StatusError | |
| Test case ID | MSASAIRS\_S04\_TC03\_IncorrectNumberOfInstances |
| Description | This case is designed to test server will return protocol status error 2 for an ItemOperations command or Search command, protocol status error 6 for a Sync command, if an element doesn't meet the number of specified instances. |
| Prerequisites | Common prerequisites |
| Test execution steps | 1. The sender calls SendMailcommand to send the email to recipient. 2. The recipient calls ItemOperations command with multiple AllOrNone elements to retrieve the e-mail item on the server. 3. The recipient calls Search command with multiple AllOrNone elements to search the e-mail item on the server. 4. The recipient calls Sync command with multiple Types elements in Body element to synchronize the e-mail item on the server. |
| Cleanup | Common cleanup |

MSASAIRS\_S04\_TC03\_IncorrectNumberOfInstances

|  |  |
| --- | --- |
| S04\_StatusError | |
| Test case ID | MSASAIRS\_S04\_TC04\_IncorrectOrder |
| Description | This case is designed to test server will return protocol status error 2 for an ItemOperations command or Search command, protocol status error 6 for a Sync command, if elements don't meet the specified order. |
| Prerequisites | Common prerequisites |
| Test execution steps | 1. The sender calls SendMailcommand to send the email to recipient. 2. The recipient calls ItemOperations command with BodyPreference element in incorrect order to retrieve the e-mail item on the server. 3. The recipient calls Search command with BodyPreference element in incorrect order to search the e-mail item on the server. 4. The recipient calls Sync command with BodyPartentnt in incorrect ordercorrect order to retrieve element in incorrect order to synchronize the e-mail item on the server. |
| Cleanup | Common cleanup |

MSASAIRS\_S04\_TC04\_IncorrectOrder

|  |  |
| --- | --- |
| S04\_StatusError | |
| Test case ID | MSASAIRS\_S04\_TC05\_IncorrectPlacement |
| Description | This case is designed to test server will return protocol status error 2 for an ItemOperations command or Search command, protocol status error 6 for a Sync command, if an element doesn't meet the specified placement. |
| Prerequisites | Common prerequisites |
| Test execution steps | 1. The sender calls SendMailcommand to send the email to recipient. 2. The recipient calls ItemOperations command with BodyPreference element in incorrect replacement to retrieve the e-mail item on the server. 3. The recipient calls Search command with BodyPreference element in incorrect replacement to search the e-mail item on the server. 4. The recipient calls Sync command with Type element in incorrect replacement to synchronize the e-mail item on the server. |
| Cleanup | Common cleanup |

MSASAIRS\_S04\_TC05\_IncorrectPlacement

|  |  |
| --- | --- |
| S04\_StatusError | |
| Test case ID | MSASAIRS\_S04\_TC06\_MultipleBodyPreferenceHaveSameTypeValue |
| Description | This case is designed to test the error will be returned if multiple BodyPreference elements are present with the same value in the Type child element. |
| Prerequisites | Common prerequisites |
| Test execution steps | 1. The sender calls SendMailcommand to send the email to recipient. 2. The recipient calls Sync command with multiple BodyPreference elements which have the same value for the Type element to synchronize the e-mail item on the server. |
| Cleanup | Common cleanup |

MSASAIRS\_S04\_TC06\_MultipleBodyPreferenceHaveSameTypeValue