



Enabler Test Specification for XML Document Management (Interoperability)

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1. Scope

This document describes in detail available test cases for Enabler XDM V1.0 (<http://www.openmobilealliance.org>).

The test cases are split in two categories, mandatory and optional.

The coverage of the tests includes Shared XDMS and common functionality from enabler specific XDM Servers.

For the enabler specific tests, see the corresponding enabler ETS document.

2. References

2.1 Normative References

- [IOPPROC] “OMA Interoperability Policy and Process”, Version 1.1, Open Mobile Alliance™, OMA-IOP-Process-V1_1, www.openmobilealliance.org
- [RFC2119] “Key words for use in RFCs to Indicate Requirement Levels”, S. Bradner, March 1997, www.ietf.org/rfc/rfc2119.txt
- [OMA-PoC-RD] “Push to Talk over Cellular Requirements”, Version 1.1, Open Mobile Alliance™, OMA-RD_PoC-V1_0, www.openmobilealliance.org
- [OMA-PoC-AD] “Push to Talk over Cellular Architecture”, Version 1.1, Open Mobile Alliance™, OMA-AD_PoC-V1_0, www.openmobilealliance.org
- [OMA-PoC-CP] “Push to Talk over Cellular Control Plane”, Version 1.1, Open Mobile Alliance™, OMA-CP_PoC-V1_0, www.openmobilealliance.org
- [OMA-TS-XDM_Core] “XML Document Management (XDM) Specification”, Version 1.0, Open Mobile Alliance™, OMA-TS-XDM_Core-V1_0, www.openmobilealliance.org
- [OMA-TS_XDM_Shared] “Shared XDM Specification”, Version 1.0, Open Mobile Alliance™, OMA-TS-XDM_Shared-V1_0, www.openmobilealliance.org
- [PoC_XDM] “PoC XDM Specification”, Open Mobile Alliance_, OMA-TS-XDM_PoC-V1_0, Version 1.0, <http://www.openmobilealliance.org/>
- [Presence_XDM] “Resource List Service (RLS) XDM Specification”, Open Mobile Alliance_, OMA-TSPresence_SIMPLE_RLS_XDM-V1_0, Version 1.0, <http://www.openmobilealliance.org/>
- [RLS_XDM] “Presence XML Document Management Specification”, Version 1.0, Open Mobile Alliance_, OMA-TS-Presence_SIMPLE_XDM-V1_0, Version 1.0, <http://www.openmobilealliance.org/>

2.2 Informative References

- [RFC2119] “Key words for use in RFCs to Indicate Requirement Levels”, S. Bradner, March 1997, [URL:http://www.ietf.org/rfc/rfc2119.txt](http://www.ietf.org/rfc/rfc2119.txt)
- [OMADICT] “Dictionary for OMA Specifications”, Open Mobile Alliance™. OMA-Dictionary, www.openmobilealliance.org

3. Terminology and Conventions

3.1 Conventions

The key words “MUST”, “MUST NOT”, “REQUIRED”, “SHALL”, “SHALL NOT”, “SHOULD”, “SHOULD NOT”, “RECOMMENDED”, “MAY”, and “OPTIONAL” in this document are to be interpreted as described in [RFC2119].

All sections and appendixes, except “Scope”, are normative, unless they are explicitly indicated to be informative.

Following test case numbering scheme is followed in the ETS for different Test Sections.

Note: In following numbering scheme “int” stands for “Interoperability Test Cases”.

Following is the definition of fields in the naming convention:

XDM-1.0	Int	M/O	01	00
Specification Release (XDM Version) number.	Int – Interoperability	M-Mandatory O-Optional	Test-category	Test Sequence Number

3.2 Definitions

user	A person using UE.
User[N]	A subscriber assigned to UE, where N is an integer number (i.e. User1, User2, etc.)
UE	A client terminal with assigned User[N] used for testing.
URI List	Number of URIs grouped together and as a list conforming to the definition in [OMA-TS_XDM_Shared].
Contact List	PoC Enabler specific usage of a URI List.

3.3 Abbreviations

AD	Architecture Document
ETS	Enabler Test Specification
IMS	IP Multimedia Subsystem
IP	Internet Protocol
OMA	Open Mobile Alliance
PoC	Push to talk over Cellular
RD	Requirements Document
RLS	Resource List Server
SIP	Session Initiation Protocol
UE	User Equipment
URI	Universal Resource Identifier
XCAP	XML Configuration Access Protocol
XDM	XML Document Management
XDMC	XDM Client
XDMS	XDM Server

XML Extensible Mark-up Language

3.4 Testing Policies

This section is intended to describe the testing policies used throughout the document.

For the UE testing, the focus is on UE1 (from Company1) and UE2 (from Company2). UE1, UE2 and the XDMS MUST be from different vendors.

3.5 Testing Assumptions

For all test cases throughout the document, the following assumptions are valid unless stated otherwise. Therefore, these assumptions shall be seen as a part of the preconditions:

General:

- The UE implements XDMS and is able to communicate with an XDMS.
- The XDMS establishes a connection to and downloads the required information from the XDMS during power up or during the initial retrieval of XML documents.
- The UE is capable of indicating a successful retrieval of documents from an XDMS.
- The UE is capable of indicating an unsuccessful retrieval of documents from an XDMS.
- The UE is capable of indicating an unsuccessful authentication.

4. Introduction

The purpose of this document is to provide test cases for XDM Enabler Release V1.0.

The following items on an overall level are needed to adequately test the XDM Enabler:

- A Client that is comprised of XDMC plus one or more of the following: PoC Client, Watcher and/or Presence Source logical components
- Services specific XDM Servers, for instance, PoC XDMS, Presence XDMS and/or RLS XDMS.

Detailed information will be included in the specific test cases description.

The XDM Enabler tests are carried out using XCAP and SIP protocols. The transport protocols used are UDP, TCP and/or TLS.

5. Mandatory Test Cases

This section lists the steps needed for the execution of the mandatory test cases.

5.1 Aggregation Proxy Test Cases

This section represents the test cases that will be executed by the following configurations of enablers:

- Client with XDMC
- Aggregation Proxy with a Shared XDMS
- Aggregation Proxy with an Enabler Specific XDMS

5.1.1 Authentication Test Cases

5.1.1.1 Normal Flow

5.1.1.1.1 XDM-1.0-int-M-0100 Authentication of XDMC in the UE

Test Case Id	XDM-1.0-int-M-0100
Test Object	UE with XDMC, Aggregation Proxy, Shared or Enabler Specific XDMS (PoC XDMS, Presence XDMS, etc)
Test Case Description	Verify that UE can be successfully authenticated by the Aggregation Proxy when retrieving documents over the XCAP interface. <u>TEST CASE GOAL:</u> Verify that when the UE initiates the communication with an XDMS, the Aggregation Proxy authenticates it.
Specification Reference	Refer to Appendix A
SCR Reference	Refer to Appendix A
Tool	Not available.
Test code	Not available.

Preconditions	<ul style="list-style-type: none"> • Equipment: <ul style="list-style-type: none"> ○ UE (with User1 credentials) ○ Aggregation Proxy ○ Shared or Enabler Specific XDMS (PoC XDMS, Presence XDMS, etc) • Prerequisite for this test: <ul style="list-style-type: none"> ○ XDM-1.0-int-M-0150 – authentication failure test case executes successfully. This is to verify that the Aggregation Proxy is challenging the requests. ○ Both, the UE and the Aggregation Proxy support the same type of authentication (definition of the authentication is outside of the scope of the ETS) ○ User1 is preconfigured in the network with valid credentials ○ The UE is powered off ○ Authentication is enabled in the Aggregation Proxy ○ The XDMC communicates with an XDMS when the user accesses the documents for the first time after power up ○ UE does not have any documents stored locally for User1 ○ Logging might be required for this test case, in order to fully verify the successful authentication
Test Procedure	<ol style="list-style-type: none"> 1. UE is powered on. 2. XDMS is contacted to retrieve User1 document (s).
Pass-Criteria	<ol style="list-style-type: none"> 2. No failed authentication indication is displayed to the user. (The UE may display the retrieved XDMS documents).

5.1.1.2 Error Flow

5.1.1.2.1 XDM-1.0-int-M-0150 Too Many Failed Authentication Attempts by XDMC in UE

Test Case Id	XDM-1.0-int-M-0150
Test Object	UE with XDMC, Aggregation Proxy
Test Case Description	<p>Verify that the Aggregation Proxy rejects too many failed authentication attempts by the UE.</p> <p><u>TEST CASE GOAL:</u> Verify that the client will not be able to access XML documents during the initial communication attempt with an XDMS.</p>
Specification Reference	Refer to Appendix A
SCR Reference	Refer to Appendix A
Tool	Not available.
Test code	Not available.

Preconditions	<ul style="list-style-type: none"> • Equipment: <ul style="list-style-type: none"> ○ UE (with User1 credentials) ○ Aggregation Proxy • Prerequisite for this test: <ul style="list-style-type: none"> ○ The UE is powered off ○ Both, the UE and the Aggregation Proxy support the same type of authentication ○ User1 is preconfigured in the network with wrong credentials (for the Aggregation Proxy to reject authentication requests) ○ Authentication is enabled in the Aggregation Proxy ○ The “count of allowed challenges” in the Aggregation Proxy is set to 5 or less ○ UE does not have any documents for User1
Test Procedure	<ol style="list-style-type: none"> 1. UE is powered on. 2. XDMS is contacted to retrieve User1 document (s).
Pass-Criteria	<ol style="list-style-type: none"> 2. Failed authentication indication is displayed to the user.

5.2 Shared XDMS Test Cases

Shared XDMS supports URI lists that can be used and shared by all OMA Enablers. Application specific enablers might name URI Lists differently, for instance, PoC application treats URI List as a Contact List. The test cases in this section can be executed using application non-specific XDMC or application specific XDMC (e.g. PoC XDMC, or Presence XDMC).

5.2.1 Document Management, Data Consistency and Authorization Test Cases

5.2.1.1 Normal Flow

5.2.1.1.1 XDM-1.0-int-M-0200 Shared XDMS Document Creation, Retrieval, Modification and Validation

Test Case Id	XDM-1.0-int-M-0200
Test Object	UE with XDMC, Aggregation Proxy, Shared XDMS
Test Case Description	<p>Verify that the UE can create and retrieve an XML document from the Shared XDMS.</p> <p><u>TEST CASE GOAL:</u> Verify that the creation of an URI List and/or addition of a member to that list creates an XML document in the Shared XDMS. The created document can be retrieved by the users.</p>
Specification Reference	Refer to Appendix A
SCR Reference	Refer to Appendix A
Tool	Not available.
Test code	Not available.

Preconditions	<ul style="list-style-type: none"> Equipment: <ul style="list-style-type: none"> 2 UEs (both with User1 credentials) Aggregation Proxy Shared XDMS Prerequisite for this test: <ul style="list-style-type: none"> XDM-1.0-int-M-0100 executes successfully Shared XDMS does not have any documents for User1 UE1 and UE2 are powered off
Test Procedure	<ol style="list-style-type: none"> UE1 is powered on. A URI list is created using UE1. User2 member is added to the URI List using UE1. UE1 is powered off. UE2 is powered on. The URI List modified in Step 3 is retrieved using UE2.
Pass-Criteria	<ol style="list-style-type: none"> UE1 displays a URI List with User2 as a member. UE2 displays a URI List with User2 as a member.

5.2.1.1.2 XDM-1.0-int-M-0201 Shared XDMS Element and Attribute Creation, Retrieval and Validation

Test Case Id	XDM-1.0-int-M-0201
Test Object	UE with XDMS, Aggregation Proxy, Shared XDMS
Test Case Description	<p>Verify that the UE can create and retrieve XML elements and attributes from the Shared XDMS.</p> <p><u>TEST CASE GOAL:</u> Add a member to already existing URI List. Verify that the member and the “uri” attribute of the member are created and stored correctly in the Shared XDMS.</p>
Specification Reference	Refer to Appendix A
SCR Reference	Refer to Appendix A
Tool	Not available.
Test code	Not available.
Preconditions	<ul style="list-style-type: none"> Equipment: <ul style="list-style-type: none"> 2 UEs (both with User1 credentials) Aggregation Proxy Shared XDMS Prerequisite for this test: <ul style="list-style-type: none"> XDM-1.0-int-M-0100 – executes successfully User1 has a previously created URI list stored in the Shared XDMS. The URI list does not contain a user with a display name User3. The URI list may have other members. UE1 and UE2 are capable of displaying the URIs of the URI List members UE1 is powered on, UE2 is powered off

Test Procedure	<ol style="list-style-type: none"> 1. The User3 member is added to the URI List using UE1. 2. The properties of User3 are retrieved using UE1 and noted: <ol style="list-style-type: none"> a. User3 URI (mandatory attribute) b. User3 display name (optional element) 3. UE1 is powered off. 4. UE2 is powered on. 5. The URI List modified in Step 1 is retrieved using UE2. 6. The properties of User3 are retrieved using UE2: <ol style="list-style-type: none"> a. User3 URI (mandatory attribute) b. User3 display name (optional element).
Pass-Criteria	<ol style="list-style-type: none"> 2. User3 properties are displayed on UE1: <ol style="list-style-type: none"> a. The User3 URI b. The User3 display name (optional) 6. User3 properties are displayed on UE2: <ol style="list-style-type: none"> a. User3 URI. The URI of User3 is identical to the URI seen in Step 2. b. User3 display name (optional). The display name of User3 is identical to the display name seen in Step 2.

5.2.1.1.3 XDM-1.0-int-M-0202 Shared XDMS Document Modification, Retrieval and Validation (Modification by Addition of a New Element)

Test Case Id	XDM-1.0-int-M-0202
Test Object	UE with XDMS, Aggregation Proxy, Shared XDMS
Test Case Description	<p>Verify that the user can modify and retrieve an XML document.</p> <p><u>TEST CASE GOAL:</u> Add a member to the existing URI List and verify that the URI List's XML document is updated correctly in the Shared XDMS. The modification of the XML document is achieved with the addition of an <entry> element.</p>
Specification Reference	Refer to Appendix A
SCR Reference	Refer to Appendix A
Tool	Not available.
Test code	Not available.
Preconditions	<ul style="list-style-type: none"> • Equipment: <ul style="list-style-type: none"> ○ 2 UEs (both with User1 credentials) ○ Aggregation Proxy ○ Shared XDMS • Prerequisite for this test: <ul style="list-style-type: none"> ○ XDM-1.0-int-M-0100 – successfully executes ○ UE1 is powered on, UE2 is powered off ○ A URI List exists in the XDMS for User1. The list has a member with the display name User2. A member with the display name User3 does not exist in the URI list. The list may contain other members.

Test Procedure	<ol style="list-style-type: none"> 1. A URI List is retrieved using UE1. 2. User3 is added to the URI List retrieved in Step 1 using UE1. 3. UE1 is powered off. 4. UE2 is powered on. 5. A URI List modified in Step 2 is retrieved using UE2.
Pass-Criteria	<ol style="list-style-type: none"> 1. UE1 displays a URI List containing User2. 2. UE1 displays a URI List containing User2 and User3. 5. UE2 displays a URI List containing User2 and User3. The list is identical to the list in Step 2.

5.2.1.1.4 XDM-1.0-int-M-0203 Shared XDMS Document Modification, Retrieval and Validation (Modification by Element Deletion)

Test Case Id	XDM-1.0-int-M-0203
Test Object	UE with XDMC, Aggregation Proxy, Shared XDMS
Test Case Description	<p>Verify that a user can modify an XML document by deleting one of its XML elements.</p> <p><u>TEST CASE GOAL:</u> Delete a member of a URI List and verify that the list's XML document stored in the Shared XDMS is updated correctly. The XML document does not contain the element that represents the deleted member.</p>
Specification Reference	Refer to Appendix A
SCR Reference	Refer to Appendix A
Tool	Not available.
Test code	Not available.
Preconditions	<ul style="list-style-type: none"> • Equipment: <ul style="list-style-type: none"> ○ 2 UE (both with User1 credentials) ○ Aggregation Proxy ○ Shared XDMS • Prerequisite for this test: <ul style="list-style-type: none"> ○ XDM-1.0-int-M-0100 – executes successfully ○ UE1 is powered on, UE2 is powered off ○ A URI List exists in the Shared XDMS for User1. The list has at least one member (User2).
Test Procedure	<ol style="list-style-type: none"> 1. A URI List and its members are retrieved using UE1. 2. User2 is selected and deleted using UE1. 3. UE1 is powered off. 4. UE2 is powered on. 5. Manipulated in Step 2 URI List and its members are retrieved using UE2.
Pass-Criteria	<ol style="list-style-type: none"> 1. UE1 displays the member list of a URI List. User2 is among the members of the list. 2. UE1 displays the member list of the URI List. There is no User2 in the list. 5. UE2 displays the member list of the URI List modified in Step 2. There is no User2 in the list.

5.2.1.2 Error Flow

Not Available.

5.2.2 Authorization Test Cases

5.2.2.1 Normal Flow

In the release 1 of XDM Enabler, only the owner of the document can be its primary principal. Currently, it is also not possible to change the primary principal. The owner authorization rules are tested in the section 5.2.1. Successful execution of these test cases represents successful authorization.

5.2.2.2 Error Flow

Not Available

5.2.3 Data Consistency Test Cases

The data consistency scenarios for the same end user are tested in section 5.2.1. The data consistency scenarios tested with multiple users are not available in the release 1 of XDM Enabler. Only the primary principal (the creator) of the document will be able to read, write, modify, and delete his/her documents; and therefore, other users will not be able to test with primary principle's documents.

5.2.3.1 Normal Flow

5.2.3.2 Not Available.Error Flow

Not Available.

5.3 PoC XDMS Test Cases

5.3.1 Document Management and Authorization Test Cases

5.3.1.1 Normal Flow

5.3.1.1.1 XDM-1.0-int-M-0300 PoC XDMS Document Creation, Retrieval and Validation.

Test Case Id	XDM-1.0-int-M-0300
Test Object	UE with PoC XDMS, Aggregation Proxy, PoC XDMS, Shared XDMS (only required if UE stores documents in PoC XDMS that refer to Shared XDMS)
Test Case Description	Verify that the user can create and retrieve an XML document from the PoC XDMS. <u>TEST CASE GOAL:</u> Verify that the creation of a group and/or addition of a member to the group creates an XML document in the PoC XDMS that can be retrieved by the users.
Specification Reference	Refer to Appendix A
SCR Reference	Refer to Appendix A
Tool	Not available.
Test code	Not available.

Preconditions	<ul style="list-style-type: none"> Equipment: <ul style="list-style-type: none"> 2 UEs (both with User1 credentials) Aggregation Proxy PoC XDMS Shared XDMS (only required if UE stores documents in PoC XDMS that refer to Shared XDMS) Prerequisite for this test: <ul style="list-style-type: none"> XDM-1.0-int-M-0100 – executes successfully UE1 and UE2 are powered off Group with the display name Group1 does not exist in the list of groups for User1. UE1 and UE2 are capable of displaying the members of the groups (Groups created by the User provisioned on the UE).
Test Procedure	<ol style="list-style-type: none"> UE1 is powered on. Group1 is created using UE1. User1 and User2 members are added to Group1 using UE1. UE1 is powered off. UE2 is powered on. The list of groups is retrieved using UE2. Group1 members are retrieved using UE2.
Pass-Criteria	<ol style="list-style-type: none"> UE1 displays the group with User1 and User2 as members. UE2 displays the list of groups. Group1 is in the list. UE2 displays the group with User1 and User2 as members.

5.3.1.1.2 XDM-1.0-int-M-0301 PoC XDMS Element and Attribute Creation, Retrieval and Validation

Test Case Id	XDM-1.0-int-M-0301
Test Object	UE with PoC XDMS, Aggregation Proxy, PoC XDMS, Shared XDMS (only required if UE stores documents in PoC XDMS that refer to Shared XDMS)
Test Case Description	<p>Verify that the UE can create and retrieve XML elements and attributes from the PoC XDMS.</p> <p><u>TEST CASE GOAL:</u> Add a member to already existing group. Verify that the member and the “uri” attribute of the member are created and stored correctly in the PoC XDMS.</p>
Specification Reference	Refer to Appendix A
SCR Reference	Refer to Appendix A
Tool	Not available.
Test code	Not available.

Preconditions	<ul style="list-style-type: none"> Equipment: <ul style="list-style-type: none"> 2 UEs (both with User1 credentials) Aggregation Proxy PoC XDMS Shared XDMS (only required if UE stores documents in PoC XDMS that refer to Shared XDMS) Prerequisite for this test: <ul style="list-style-type: none"> XDM-1.0-int-M-0100 – executes successfully User1 owns the group Group1. The group contains at least 2 members. The group does not contain User3 member. UE1 and UE2 are capable of displaying the members of the groups and their URIs (Groups created by the User provisioned on the UE). UE1 is powered on, UE2 is powered off
Test Procedure	<ol style="list-style-type: none"> User3 member is added to Group1 using UE1. The URI of User3 is retrieved from Group1 members list on UE1. The URI is noted. UE1 is powered off. UE2 is powered on. Group1 and its members are retrieved. The URI of User3 is retrieved from Group1 members list using UE2.
Pass-Criteria	<ol style="list-style-type: none"> UE1 displays User3 member in the Group1 member list (element retrieval). UE1 displays User3 URI (attribute retrieval). UE2 displays User3 member in the Group1 member list (element retrieval). UE2 displays the URI of User3 (attribute retrieval). The URI of User3 is identical to the URI seen in Step 2.

5.3.1.1.3 XDM-1.0-int-M-0302 PoC XDMS Document Modification, Retrieval and Validation (Modification by Element Addition)

Test Case Id	XDM-1.0-int-M-0302
Test Object	UE with PoC XDMS, Aggregation Proxy, PoC XDMS, Shared XDMS (only required if UE stores documents in PoC XDMS that refer to Shared XDMS)
Test Case Description	<p>Verify that the user can modify and retrieve an XML document and an element of an XML document.</p> <p><u>TEST CASE GOAL:</u> Add a member to the existing group and verify that the group's XML document is updated correctly in the PoC XDMS. Modification of the document is achieved by adding a new element to it.</p>
Specification Reference	Refer to Appendix A
SCR Reference	Refer to Appendix A
Tool	Not available.
Test code	Not available.

Preconditions	<ul style="list-style-type: none"> Equipment: <ul style="list-style-type: none"> 2 UEs (both with User1 credentials) Aggregation Proxy PoC XDMS Shared XDMS (only required if UE stores documents in PoC XDMS that refer to Shared XDMS) Prerequisite for this test: <ul style="list-style-type: none"> XDM-1.0-int-M-0100 – successfully executes UE1 is powered on, UE2 is powered off Group1 exists in the PoC XDMS for User1. The group contains at least User1 and User2 members User3 does not exist in the group. UE1 and UE2 are capable of displaying the members of the groups (Groups created by the User provisioned on the UE).
Test Procedure	<ol style="list-style-type: none"> Group1 is retrieved using UE1. User3 is added to Group1 using UE1. UE1 is powered off. UE2 is powered on. Group1 modified in Step 2 is retrieved using UE2.
Pass-Criteria	<ol style="list-style-type: none"> UE1 displays Group1 member list containing User1 and User2. UE1 displays Group1 member list containing User1, User2 and User3. UE2 displays a group containing User1, User2 and User3. The list is identical to the list in Step 2.

5.3.1.1.4 XDM-1.0-int-M-0303 PoC XDMS Element Deletion and Validation

Test Case Id	XDM-1.0-int-M-0303
Test Object	UE with PoC XDMS, Aggregation Proxy, PoC XDMS, Shared XDMS (only required if UE stores documents in PoC XDMS that refer to Shared XDMS)
Test Case Description	<p>Verify that a user can delete an element from an XML document.</p> <p><u>TEST CASE GOAL:</u> Delete a member of a group and verify that the group's XML document in the XDMS is updated correctly and does not contain the element that represents the deleted member.</p>
Specification Reference	Refer to Appendix A
SCR Reference	Refer to Appendix A
Tool	Not available.
Test code	Not available.

Preconditions	<ul style="list-style-type: none"> Equipment: <ul style="list-style-type: none"> 2 UE (both with User1 credentials) Aggregation Proxy PoC XDMS Shared XDMS (only required if UE stores documents in PoC XDMS that refer to Shared XDMS) Prerequisite for this test: <ul style="list-style-type: none"> XDM-1.0-int-M-0100 – executes successfully UE1 is powered on, UE2 is powered off A group with the display name Group1 exists in the XDMS for User1. The group has at least two members with the display names User2 and User3. UE1 and UE2 are capable of displaying the members of the groups (Groups created by the User provisioned on the UE).
Test Procedure	<ol style="list-style-type: none"> The member list of Group1 is retrieved using UE1. User2 member is selected and deleted using UE1. UE1 is powered off. UE2 is powered on. The member list of Group1 is retrieved using UE2.
Pass-Criteria	<ol style="list-style-type: none"> UE1 displays the member list of Group1. User2 is among the members of the group.. UE1 displays the member list of Group1. User2 is not among the members of the group. UE2 displays the member list of Group1. User2 is not among the members of the group.

5.3.1.1.5 XDM-1.0-int-M-0304 PoC XDMS Document Deletion and Validation

Test Case Id	XDM-1.0-int-M-0304
Test Object	UE with PoC XDMS, Aggregation Proxy, PoC XDMS, Shared XDMS (only required if UE stores documents in PoC XDMS that refer to Shared XDMS)
Test Case Description	<p>Verify that a user can delete an XML document from the XDMS.</p> <p><u>TEST CASE GOAL:</u> Delete a “list-service” document describing a group from the PoC XDMS.</p>
Specification Reference	Refer to Appendix A
SCR Reference	Refer to Appendix A
Tool	Not available.
Test code	Not available.

Preconditions	<ul style="list-style-type: none"> • Equipment: <ul style="list-style-type: none"> ○ 2 UE (both with User1 credentials) ○ Aggregation Proxy ○ PoC XDMS ○ Shared XDMS (only required if UE stores documents in PoC XDMS that refer to Shared XDMS) • Prerequisite for this test: <ul style="list-style-type: none"> ○ XDM-1.0-int-M-0100 – executes successfully ○ UE1 is powered on, UE2 is powered off ○ A group with the display name Group1 exists in the PoC XDMS for User1.
Test Procedure	<ol style="list-style-type: none"> 1. The list of groups is retrieved using UE1. 2. Group1 is selected and deleted using UE1. 3. UE1 is powered off. 4. UE2 is powered on. 5. The list of a groups is retrieved using UE2.
Pass-Criteria	<ol style="list-style-type: none"> 1. UE1 displays the list of groups. Group1 is in the list of groups. 2. UE1 displays the list of groups. Group1 is not in the list of groups. 5. UE2 displays the list of groups. Group1 is not in the list of groups.

5.3.1.2 Error Flow

Not Available.

5.3.2 Data Consistency Test Cases

The data consistency scenarios for the same end user are tested in section 5.3.1 with additions in this section.

The data consistency scenarios tested with multiple users are not available in the release 1 of XDM Enabler. Only the primary principal (the creator) of the document will be able to read, write, modify, and delete his/her documents; and therefore, other users will not be able to test with primary principle's documents.

5.3.2.1 Normal Flow

Not Available.

5.3.2.2 Error Flow

Not Available.

5.3.3 Authorization Test Cases

5.3.3.1 Normal Flow

In the release 1 of XDM Enabler, only the owner of the document can be its primary principal. Currently, it is also not possible to change the primary principal. The owner authorization rules are tested in the section 5.3.1. Successful execution of these test cases represents successful authorization.

5.3.3.2 Error Flow

Not Available.

5.4 Presence XDMS Test Cases

5.4.1 Document Management and Authorization Test Cases

5.4.1.1 Normal Flow

5.4.1.1.1 XDM-1.0-int-M-0400 Presence XDMS Document Creation, Retrieval and Validation

Test Case Id	XDM-1.0-int-M-0400
Test Object	UE with Presence XDMS, Aggregation Proxy, Presence XDMS, Shared XDMS (only required if UE stores documents in Presence XDMS that refer to Shared XDMS)
Test Case Description	Verify that the user can create and retrieve an XML document from the Presence XDMS. <u>TEST CASE GOAL:</u> Verify creation and retrieval of Presence Authorization Rules document. This test case is for the UEs that are able to create the Presence Authorization Rules document.
Specification Reference	Refer to Appendix A
SCR Reference	Refer to Appendix A
Tool	Not available.
Test code	Not available.
Preconditions	<ul style="list-style-type: none"> • Equipment: <ul style="list-style-type: none"> ○ 2 UEs (both with User1 credentials) ○ Aggregation Proxy ○ Presence XDMS ○ Shared XDMS (only required if UE stores documents in Presence XDMS that refer to Shared XDMS) • Prerequisite for this test: <ul style="list-style-type: none"> ○ XDM-1.0-int-M-0100 – executes successfully ○ UE1 and UE2 are powered off ○ No local Presence Authorization Rules document is stored on UE1 and UE2. ○ A common set of authorization rules is supported by UE1 and UE2 ○ UE1 is able to create Presence Authorization Rules document ○ UE1 and UE2 are able to set and display the authorization rules for users per Presence Authorization Rules document stored in Presence XDMS
Test Procedure	<ol style="list-style-type: none"> 1. UE1 is powered on. 2. The Presence Authorization Rules document is created with set of rules for User2 using UE1. 3. UE1 is powered off. 4. UE2 is powered on. 5. The Presence Authorization Rules document is retrieved from Presence XDMS using UE2.

Pass-Criteria	<ol style="list-style-type: none"> 2. UE1 displays the authorization rules for User2. The rules are noted. 5. UE2 displays the authorization rules for User2. The rules are identical to those in Step 1.
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5.4.1.1.2 XDM-1.0-int-M-0401 Presence XDMS Document Retrieval and Validation

Test Case Id	XDM-1.0-int-M-0401
Test Object	UE with Presence XDMS, Aggregation Proxy, Presence XDMS, Shared XDMS (only required if documents in Presence XDMS refer to Shared XDMS)
Test Case Description	<p>Verify that the user can retrieve an XML document from the Presence XDMS.</p> <p><u>TEST CASE GOAL:</u> Verify retrieval of Presence Authorization Rules document.</p>
Specification Reference	Refer to Appendix A
SCR Reference	Refer to Appendix A
Tool	Not available.
Test code	Not available.
Preconditions	<ul style="list-style-type: none"> • Equipment: <ul style="list-style-type: none"> ○ UE (with User1 credentials) ○ Aggregation Proxy ○ Presence XDMS ○ Shared XDMS (only required documents in Presence XDMS refer to Shared XDMS) • Prerequisite for this test: <ul style="list-style-type: none"> ○ XDM-1.0-int-M-0100 – executes successfully ○ UE1 is powered off ○ Presence Authorization Rules document is stored in Presence XDMS. The document includes the authorization rules for User2. ○ No local Presence Authorization Rules document is stored on UE1. ○ A common set of authorization rules is supported by UE1 and UE2 ○ UE1 is able to set and display the authorization rules for users per Presence Authorization Rules document stored in Presence XDMS
Test Procedure	<ol style="list-style-type: none"> 1. UE1 is powered on. 2. The Presence Authorization Rules document is retrieved from Presence XDMS.
Pass-Criteria	<ol style="list-style-type: none"> 1. UE1 displays the authorization rules for User2.

5.4.1.1.3 XDM-1.0-int-M-0402 Presence XDMS Element Creation, Retrieval and Validation.

Test Case Id	XDM-1.0-int-M-0402
Test Object	UE with Presence XDMS, Aggregation Proxy, Presence XDMS, Shared XDMS (only required if UE stores documents in Presence XDMS that refer to Shared XDMS)

Test Case Description	<p>Verify that the UE can create and retrieve XML elements from the Presence XDMS.</p> <p><u>TEST CASE GOAL:</u> Add an additional rule to already existing Presence Authorization Rules document stored in the Presence XDMS. Verify that the Presence Authorization Rules document has been updated correctly in the Presence XDMS.</p>
Specification Reference	Refer to Appendix A
SCR Reference	Refer to Appendix A
Tool	Not available.
Test code	Not available.
Preconditions	<ul style="list-style-type: none"> • Equipment: <ul style="list-style-type: none"> ○ 2 UEs (both with User1 credentials) ○ Aggregation Proxy ○ Presence XDMS ○ Shared XDMS (only required if documents in Presence XDMS refer to Shared XDMS) • Prerequisite for this test: <ul style="list-style-type: none"> ○ XDM-1.0-int-M-0100 – executes successfully ○ UE1 and UE2 are powered off ○ Presence Authorization Rules document is already stored in Presence XDMS. The document includes a set of the authorization rules for User2. ○ No local Presence Authorization Rules document is stored on UE1 and UE2. ○ UE1 is able to modify Presence Authorization Rules document (User1 is a primary principal of the document). ○ A common set of authorization rules is supported by UE1 and UE2 ○ UE1 and UE2 are able to set and display the authorization rules for users per Presence Authorization Rules document stored in the Presence XDMS
Test Procedure	<ol style="list-style-type: none"> 1. UE1 is powered on. 2. The Presence Authorization Rules document is retrieved from Presence XDMS using UE1. 3. An additional rule is added to the retrieved set of User2's authorization rules using UE1. The new set of rules for User2 is noted. 4. UE1 is powered off. 5. UE2 is powered. 6. The Presence Authorization Rules document is retrieved from Presence XDMS using UE2.
Pass-Criteria	<ol style="list-style-type: none"> 2. UE1 displays the authorization rules for User2. 3. UE1 displays the authorization rules for User2. The result is a set of rules from Step 2 plus one additional rule. 6. UE2 displays the authorization rules for User2. The set of rules is identical to the set of rules noted in Step 3.

5.4.1.1.4 XDM-1.0-int-M-0403 Presence XDMS Document and Element Modification, Retrieval and Validation

Test Case Id	XDM-1.0-int-M-0403
Test Object	UE with Presence XDMS, Aggregation Proxy, Presence XDMS, Shared XDMS (only required if UE stores documents in Presence XDMS that refer to Shared XDMS)
Test Case Description	<p>Verify that the UE can modify and retrieve XML elements and documents from the Presence XDMS.</p> <p><u>TEST CASE GOAL:</u> Modify and retrieve an already existing rule in Presence Authorization Rules document stored in the Presence XDMS. Verify that the rule has been updated correctly in the Presence XDMS.</p>
Specification Reference	Refer to Appendix A
SCR Reference	Refer to Appendix A
Tool	Not available.
Test code	Not available.
Preconditions	<ul style="list-style-type: none"> • Equipment: <ul style="list-style-type: none"> ○ 2 UEs (both with User1 credentials) ○ Aggregation Proxy ○ Presence XDMS ○ Shared XDMS (only required if documents in Presence XDMS refer to Shared XDMS) • Prerequisite for this test: <ul style="list-style-type: none"> ○ XDM-1.0-int-M-0100 – executes successfully ○ UE1 and UE2 are powered off ○ Presence Authorization Rules document is already stored in Presence XDMS. The document includes a set of the authorization rules for User2. ○ No local Presence Authorization Rules document is stored on UE1 and UE2. ○ UE1 is able to modify Presence Authorization Rules document (User1 is a primary principal of the document). ○ A common set of authorization rules is supported by UE1 and UE2 ○ UE1 and UE2 are able to set and display the authorization rules for users per Presence Authorization Rules document stored in the Presence XDMS
Test Procedure	<ol style="list-style-type: none"> 1. UE1 is powered on. 2. The Presence Authorization Rules document is retrieved from Presence XDMS using UE1. 3. One of the displayed rules is modified using UE1 (i.e. an old value of the rule is changed to a new value). The new version of rules for User2 is noted. 4. UE1 is powered off. 5. UE2 is powered on. 6. The Presence Authorization Rules document is retrieved from Presence XDMS using UE2.

Pass-Criteria	<p>2. UE1 displays the authorization rules for User2.</p> <p>3. UE1 displays the authorization rules for User2. The result is a set of rules from Step 2 with a modification of one of the rules.</p> <p>6. UE2 displays the authorization rules for User2. The set of rules is identical to the set of rules noted in Step 3.</p>
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5.4.1.1.5 XDM-1.0-int-M-0404 Presence XDMS Element Deletion, Retrieval and Validation

Test Case Id	XDM-1.0-int-M-0404
Test Object	UE with Presence XDMS, Aggregation Proxy, Presence XDMS, Shared XDMS (only required if UE stores documents in Presence XDMS that refer to Shared XDMS)
Test Case Description	<p>Verify that the UE can delete XML elements from the Presence XDMS.</p> <p><u>TEST CASE GOAL:</u> Delete a rule from the Presence Authorization Rules document stored in the Presence XDMS and verify that the rule is removed from the Presence XDMS.</p>
Specification Reference	Refer to Appendix A
SCR Reference	Refer to Appendix A
Tool	Not available.
Test code	Not available.
Preconditions	<ul style="list-style-type: none"> • Equipment: <ul style="list-style-type: none"> ○ 2 UEs (both with User1 credentials) ○ Aggregation Proxy ○ Presence XDMS ○ Shared XDMS (only required if documents in Presence XDMS refer to Shared XDMS) • Prerequisite for this test: <ul style="list-style-type: none"> ○ XDM-1.0-int-M-0100 – executes successfully ○ UE1 and UE2 are powered off ○ Presence Authorization Rules document is already stored in Presence XDMS. The document includes a set of the authorization rules for User2. ○ No local Presence Authorization Rules document is stored on UE1 and UE2. ○ UE1 is able to modify Presence Authorization Rules document (User1 is a primary principal of the document). ○ A common set of authorization rules is supported by UE1 and UE2 ○ UE1 and UE2 are able to set and display the authorization rules for users per Presence Authorization Rules document stored in the Presence XDMS

Test Procedure	<ol style="list-style-type: none"> 1. UE1 is powered on. 2. The Presence Authorization Rules document is retrieved from Presence XDMS using UE1. 3. One of the displayed rules is deleted using UE1. The new version of rules for User2 is noted. 4. UE1 is powered off. 5. UE2 is powered on. 6. The Presence Authorization Rules document is retrieved from Presence XDMS using UE2.
Pass-Criteria	<ol style="list-style-type: none"> 2. UE1 displays the authorization rules for User2. 3. UE1 displays the authorization rules for User2. The result is a set of rules from Step 2 less one of the rules. 6. UE2 displays the authorization rules for User2. The set of rules is identical to the set of rules noted in Step 3.

5.4.1.1.6 XDM-1.0-int-M-0405 Presence XDMS Document Deletion, Retrieval and Validation

Test Case Id	XDM-1.0-int-M-0405
Test Object	UE with Presence XDMS, Aggregation Proxy, Presence XDMS, Shared XDMS (only required if UE stores documents in Presence XDMS that refer to Shared XDMS)
Test Case Description	<p>Verify that the UE can delete an XML document from the Presence XDMS.</p> <p>TEST CASE GOAL: Delete the Presence Authorization Rules document stored in the Presence XDMS and verify that the document no longer exists in the Presence XDMS.</p>
Specification Reference	Refer to Appendix A
SCR Reference	Refer to Appendix A
Tool	Not available.
Test code	Not available.

Preconditions	<ul style="list-style-type: none"> • Equipment: <ul style="list-style-type: none"> ○ 2 UEs (both with User1 credentials) ○ Aggregation Proxy ○ Presence XDMS ○ Shared XDMS (only required if documents in Presence XDMS refer to Shared XDMS) • Prerequisite for this test: <ul style="list-style-type: none"> ○ XDM-1.0-int-M-0100 – executes successfully ○ UE1 and UE2 are powered off ○ Presence Authorization Rules document is already stored in Presence XDMS. It includes rules for at least one Watcher. ○ No local Presence Authorization Rules document is stored on UE1 and UE2. ○ UE1 is able to remove Presence Authorization Rules document (User1 is a primary principal of the document). ○ A common set of authorization rules is supported by UE1 and UE2 ○ UE1 and UE2 are able to set and display the authorization rules for users per Presence Authorization Rules document stored in the Presence XDMS
Test Procedure	<ol style="list-style-type: none"> 1. UE1 is powered on. 2. The Presence Authorization Rules document is retrieved from Presence XDMS using UE1. 3. The retrieved Presence Authorization Rules document is deleted from Presence XDMS using UE1. 4. UE1 is powered off. 5. UE2 is powered on. 6. The Presence Authorization Rules document is retrieved from Presence XDMS using UE2.
Pass-Criteria	<ol style="list-style-type: none"> 2. UE1 displays the authorization rules for the users. 3. UE1 does not display any authorization rules for the users. 6. UE2 does not display any authorization rules for the users.

5.4.1.2 Error Flow

Not Available.

5.4.2 Data Consistency Test Cases

The data consistency scenarios for the same end user are tested in section 5.4.1 with additions in this section.

The data consistency scenarios tested with multiple users are not available in the release 1 of XDM Enabler. Only the primary principal (the creator) of the document will be able to read, write, modify, and delete his/her documents; and therefore, other users will not be able to test with primary principle's documents.

5.4.2.1 Normal Flow

Not Available.

5.4.2.2 Error Flow

Not Available.

5.4.3 Authorization Test Cases

5.4.3.1 Normal Flow

In the release 1 of XDM Enabler, only the owner of the document can be its primary principal. Currently, it is also not possible to change the primary principal. The owner authorization rules are tested in the section 5.3.1. Successful execution of these test cases represents successful authorization.

5.4.3.2 Error Flow

Not Available

5.5 RLS XDMS Test Cases

5.5.1 Document Management and Authorization Test Cases

5.5.1.1 Normal Flow

5.5.1.1.1 XDM-1.0-int-M-0500 RLS XDMS Document Creation, Retrieval and Validation

Test Case Id	XDM-1.0-int-M-0500
Test Object	UE with Presence XDMC, Aggregation Proxy, RLS XDMS, Shared XDMS (only required if UE stores documents in RLS XDMS that refer to Shared XDMS)
Test Case Description	Verify that the user can create and retrieve an XML document from the RLS XDMS. <u>TEST CASE GOAL:</u> Verify creation and retrieval of Presence Lists document. This test case is for the UEs that are able to create the Presence Lists document.
Specification Reference	Refer to Appendix A
SCR Reference	Refer to Appendix A
Tool	Not available.
Test code	Not available.

Preconditions	<ul style="list-style-type: none"> Equipment: <ul style="list-style-type: none"> 2 UEs (both with User1 credentials) Aggregation Proxy RLS XDMS Shared XDMS (only required if UE stores documents in RLS XDMS that refer to Shared XDMS) Prerequisite for this test: <ul style="list-style-type: none"> XDM-1.0-int-M-0100 – executes successfully UE1 and UE2 are powered off No Presence Lists document is stored on UE1 and UE2. UE1 is able to create Presence Lists document A common set of services is supported by UE1 and UE2 UE1 and UE2 are able to set and display the services for users Presence Lists document stored in RLS XDMS
Test Procedure	<ol style="list-style-type: none"> UE1 is powered on. The Presence Lists document is created with set of services for User2 using UE1. UE1 is powered off. UE2 is powered on. The Presence Lists document is retrieved from RLS XDMS using UE2.
Pass-Criteria	<ol style="list-style-type: none"> UE1 displays the set of services for User2. The services are noted. UE2 displays the set of services for User2. The services are identical to those in Step 2.

5.5.1.1.2 XDM-1.0-int-M-0501 RLS XDMS Document Retrieval and Validation

Test Case Id	XDM-1.0-int-M-0501
Test Object	UE with Presence XDMS, Aggregation Proxy, RLS XDMS, Shared XDMS (only required if documents in RLS XDMS refer to Shared XDMS)
Test Case Description	Verify that the user can retrieve an XML document from the RLS XDMS. <u>TEST CASE GOAL:</u> Verify retrieval of Presence Lists document.
Specification Reference	Refer to Appendix A
SCR Reference	Refer to Appendix A
Tool	Not available.
Test code	Not available.

Preconditions	<ul style="list-style-type: none"> • Equipment: <ul style="list-style-type: none"> ○ UE (with User1 credentials) ○ Aggregation Proxy ○ RLS XDMS ○ Shared XDMS (only required documents in RLS XDMS refer to Shared XDMS) • Prerequisite for this test: <ul style="list-style-type: none"> ○ XDM-1.0-int-M-0100 – executes successfully ○ UE1 is powered off ○ Presence Lists document is stored in RLS XDMS. The document includes the services for User2. ○ No local Presence Lists document is stored on UE. ○ ○ A common set of services is supported by UE ○ UE is able to set and display the services for users Presence Lists document stored in RLS XDMS
Test Procedure	<ol style="list-style-type: none"> 1. UE is powered on. 2. The Presence Lists document is retrieved from RLS XDMS.
Pass-Criteria	<ol style="list-style-type: none"> 2. UE displays the services for User2.

5.5.1.1.3 XDM-1.0-int-M-0502 RLS XDMS Element Creation, Retrieval and Validation

Test Case Id	XDM-1.0-int-M-0502
Test Object	UE with Presence XDMC, Aggregation Proxy, RLS XDMS, Shared XDMS (only required if UE stores documents in RLS XDMS that refer to Shared XDMS)
Test Case Description	<p>Verify that the UE can create and retrieve XML elements from the RLS XDMS.</p> <p><u>TEST CASE GOAL:</u> Add an additional rule to already existing Presence Lists document stored in the RLS XDMS. Verify that the Presence Lists document has been updated correctly in the RLS XDMS.</p>
Specification Reference	Refer to Appendix A
SCR Reference	Refer to Appendix A
Tool	Not available.
Test code	Not available.

Preconditions	<ul style="list-style-type: none"> • Equipment: <ul style="list-style-type: none"> ○ 2 UEs (both with User1 credentials) ○ Aggregation Proxy ○ RLS XDMS ○ Shared XDMS (only required if documents in RLS XDMS refer to Shared XDMS) • Prerequisite for this test: <ul style="list-style-type: none"> ○ XDM-1.0-int-M-0100 – executes successfully ○ UE1 and UE2 are powered off ○ Presence Lists document is already stored in RLS XDMS. The document includes a set of the services for users (including User2). ○ No local Presence Lists document is stored on UE1 and UE2. ○ UE1 is able to modify Presence Lists document (User1 is a primary principal of the document). ○ ○ A common set of services is supported by UE1 and UE2 ○ UE1 and UE2 are able to set and display the services for users Presence Lists document stored in RLS XDMS
Test Procedure	<ol style="list-style-type: none"> 1. UE1 is powered on. 2. The Presence Lists document is retrieved from RLS XDMS using UE1. 3. A new presence service is added for User3 using UE1. 4. UE1 is powered off. 5. UE2 is powered on. 6. The Presence Lists document is retrieved from RLS XDMS using UE2.
Pass-Criteria	<ol style="list-style-type: none"> 2. UE1 displays the services for User2. 3. UE1 displays the services for User2 and User3. 6. UE2 displays the services for User2 and User3.

5.5.1.1.4 XDM-1.0-int-M-0503 RLS XDMS Document and Element Modification, Retrieval and Validation

Test Case Id	XDM-1.0-int-M-0503
Test Object	UE with Presence XDMC, Aggregation Proxy, RLS XDMS, Shared XDMS (only required if UE stores documents in RLS XDMS that refer to Shared XDMS)
Test Case Description	<p>Verify that the UE can modify and retrieve XML elements and documents from the RLS XDMS.</p> <p><u>TEST CASE GOAL:</u> Modify and retrieve an already existing service element in Presence Lists document stored in the RLS XDMS. Verify that the services has been updated correctly in the RLS XDMS.</p>
Specification Reference	Refer to Appendix A
SCR Reference	Refer to Appendix A
Tool	Not available.
Test code	Not available.

Preconditions	<ul style="list-style-type: none"> • Equipment: <ul style="list-style-type: none"> ○ 2 UEs (both with User1 credentials) ○ Aggregation Proxy ○ Presence XDMS ○ Shared XDMS (only required if documents in RLS XDMS refer to Shared XDMS) • Prerequisite for this test: <ul style="list-style-type: none"> ○ XDM-1.0-int-M-0100 – executes successfully ○ UE1 and UE2 are powered off ○ Presence Lists document is already stored in RLS XDMS. The document includes a presence package element for User2. ○ The UE1 supports addition of more than presence package. ○ No local Presence Lists document is stored on UE1 and UE2. ○ UE1 is able to modify Presence Lists document (User1 is a primary principal of the document). ○ ○ A common set of services is supported by UE1 and UE2 ○ UE1 and UE2 are able to set and display the services for users Presence Lists document stored in RLS XDMS
Test Procedure	<ol style="list-style-type: none"> 1. UE1 is powered on. 2. The Presence Lists document is retrieved from RLS XDMS using UE1. 3. A package is added to the service of User2 using UE1 (additional to the presence package). 4. UE1 is powered off. 5. UE2 is powered on. 6. The Presence Lists document is retrieved from RLS XDMS using UE2.
Pass-Criteria	<ol style="list-style-type: none"> 2. UE1 displays the presence service package for User2. 3. UE1 displays two service packages for User2 (presence and an additional package added in Step 2). 6. UE2 displays two service packages for User2. The packages are identical to packages displayed in Step 3.

5.5.1.1.5 XDM-1.0-int-M-0504 RLS XDMS Element Deletion, Retrieval and Validation

Test Case Id	XDM-1.0-int-M-0504
Test Object	UE with Presence XDMS, Aggregation Proxy, RLS XDMS, Shared XDMS (only required if UE stores documents in RLS XDMS that refer to Shared XDMS)
Test Case Description	<p>Verify that the UE can delete XML elements from the RLS XDMS.</p> <p><u>TEST CASE GOAL:</u> Delete a service from the Presence Lists document stored in the RLS XDMS and verify that the service is removed from the RLS XDMS.</p>
Specification Reference	Refer to Appendix A
SCR Reference	Refer to Appendix A
Tool	Not available.
Test code	Not available.

Preconditions	<ul style="list-style-type: none"> Equipment: <ul style="list-style-type: none"> 2 UEs (both with User1 credentials) Aggregation Proxy RLS XDMS Shared XDMS (only required if documents in RLS XDMS refer to Shared XDMS) Prerequisite for this test: <ul style="list-style-type: none"> XDM-1.0-int-M-0100 – executes successfully UE1 and UE2 are powered off Presence Lists document is already stored in RLS XDMS. The document includes a set of the services including User2 and User3. No local Presence Lists document is stored on UE1 and UE2. UE1 is able to modify Presence Lists document (User1 is a primary principal of the document). A common set of services is supported by UE1 and UE2 UE1 and UE2 are able to set and display the services for users Presence Lists document stored in RLS XDMS
Test Procedure	<ol style="list-style-type: none"> UE1 is powered on. The Presence Lists document is retrieved from RLS XDMS using UE1. A service for User2 is deleted using UE1. UE1 is powered off. UE2 is powered on. The Presence Lists document is retrieved from RLS XDMS using UE2.
Pass-Criteria	<ol style="list-style-type: none"> UE1 displays the services for User2 and User3. UE1 displays the services for User3. UE2 displays the services for User3.

5.5.1.1.6 XDM-1.0-int-M-0505 RLS XDMS Document Deletion, Retrieval and Validation

Test Case Id	XDM-1.0-int-M-0505
Test Object	UE with Presence XDMS, Aggregation Proxy, RLS XDMS, Shared XDMS (only required if UE stores documents in Presence XDMS that refer to Shared XDMS)
Test Case Description	<p>Verify that the UE can delete an XML document from the RLS XDMS.</p> <p>TEST CASE GOAL: Delete the Presence Lists document stored in the RLS XDMS and verify that the document no longer exists in the RLS XDMS.</p>
Specification Reference	Refer to Appendix A
SCR Reference	Refer to Appendix A
Tool	Not available.
Test code	Not available.

Preconditions	<ul style="list-style-type: none"> • Equipment: <ul style="list-style-type: none"> ○ 2 UEs (both with User1 credentials) ○ Aggregation Proxy ○ RLS XDMS ○ Shared XDMS (only required if documents in RLS XDMS refer to Shared XDMS) • Prerequisite for this test: <ul style="list-style-type: none"> ○ XDM-1.0-int-M-0100 – executes successfully ○ UE1 and UE2 are powered off ○ Presence Lists document is already stored in RLS XDMS. It includes services for at least one Watcher. ○ No local Presence Lists document is stored on UE1 and UE2. ○ UE1 is able to remove Presence Lists document (User1 is a primary principal of the document). ○ A common set of services is supported by UE1 and UE2 ○ UE1 and UE2 are able to set and display the services for users Presence Lists document stored in RLS XDMS.
Test Procedure	<ol style="list-style-type: none"> 1. UE1 is powered on. 2. The Presence Lists document is retrieved from RLS XDMS using UE1. 3. The retrieved Presence Lists document is deleted from UE1 using UE1. 4. UE1 is powered off. 5. UE2 is powered on. 6. The Presence Lists document is retrieved from RLS XDMS using UE2.
Pass-Criteria	<ol style="list-style-type: none"> 2. UE1 displays the services for the user(s). 3. UE1 does not display any services for the user(s). 6. UE2 does not display any services for the user(s).

5.5.1.2 Error Flow

Not Available.

5.5.2 Data Consistency Test Cases

The data consistency scenarios for the same end user are tested in section 5.5.1 with additions in this section.

The data consistency scenarios tested with multiple users are not available in the release 1 of XDM Enabler. Only the primary principal (the creator) of the document will be able to read, write, modify, and delete his/her documents; and therefore, other users will not be able to test with primary principle's documents.

5.5.2.1 Normal Flow

Not Available.

5.5.2.2 Error Flow

Not Available.

5.5.3 Authorization Test Cases

5.5.3.1 Normal Flow

In the release 1 of XDM Enabler, only the owner of the document can be its primary principal. Currently, it is also not possible to change the primary principal. The owner authorization rules are tested in the section 5.5.1. Successful execution of these test cases represents successful authorization.

5.5.3.2 Error Flow

Not Available.

6. Optional Test Cases

6.1 Shared XDMS Test Cases

6.1.1 Document Management

6.1.1.1 Normal Flow

6.1.1.1.1 XDM-1.0-int-O-0200 Shared XDMS Element Modification, Retrieval and Validation

Test Case Id	XDM-1.0-int-O-0200
Test Object	UE with XDMS, Aggregation Proxy, Shared XDMS
Test Case Description	<p>Verify that the user can modify and retrieve an element of an XML document.</p> <p><u>TEST CASE GOAL:</u> Modify a <display-name> element of an existing member in the existing URI List and verify that the URI List's XML document is updated correctly in the Shared XDMS.</p>
Specification Reference	Refer to Appendix A
SCR Reference	Refer to Appendix A
Tool	Not available.
Test code	Not available.
Preconditions	<ul style="list-style-type: none"> • Equipment: <ul style="list-style-type: none"> ○ 2 UEs (both with User1 credentials) ○ Aggregation Proxy ○ Shared XDMS • Prerequisite for this test: <ul style="list-style-type: none"> ○ XDM-1.0-int-M-0100 – successfully executes ○ UE1 is powered on, UE2 is powered off ○ UE1 and UE2 support <display-name> element ○ UE1 is capable of modifying the display name of the URI List member ○ A URI List exists in the XDMS for User1. The list has a member with the display name User2. A member with the display name User3 does not exist in the URI list. The list may contain other members. ○ UE1 and UE2 are capable of displaying the URIs of the URI List members
Test Procedure	<ol style="list-style-type: none"> 1. User2 is selected from a URI List using UE1. 2. The URI of User2 is selected using UE1 and noted. 3. The display name of the User2 is changed from User2 to User3 using UE1. 4. UE1 is powered off. 5. UE2 is powered on. 6. The URI List modified in Step 2 is retrieved using UE2. 7. The URI of User3 is selected using UE2 and compared to the noted URI in Step 2.

Pass-Criteria	<ol style="list-style-type: none"> 1. UE1 displays the display name of User2 in a URI List. 2. UE1 displays the URI of User2. 7. UE2 displays the URI of User3. The URI displayed on UE2 is identical to the URI noted in Step 2.
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6.1.1.2 Error Flow

Not Available.

6.2 PoC XDMS Test Cases

6.2.1 Document Management

6.2.1.1 Normal Flow

6.2.1.1.1 XDM-1.0-int-O-0300 PoC XDMS Element Modification, Retrieval and Validation

Test Case Id	XDM-1.0-int-O-0300
Test Object	UE with PoC XDMS, Aggregation Proxy, PoC XDMS, Shared XDMS (only required if UE stores documents in PoC XDMS that refer to Shared XDMS)
Test Case Description	<p>Verify that the user can modify and retrieve an XML document by modifying its element.</p> <p><u>TEST CASE GOAL:</u> Modify a <display-name> element of an existing member in the existing group and verify that the list's XML document is updated correctly in the PoC XDMS.</p>
Specification Reference	Refer to Appendix A
SCR Reference	Refer to Appendix A
Tool	Not available.
Test code	Not available.
Preconditions	<ul style="list-style-type: none"> • Equipment: <ul style="list-style-type: none"> ○ 2 UEs (both with User1 credentials) ○ Aggregation Proxy ○ PoC XDMS ○ Shared XDMS (only required if UE stores documents in PoC XDMS that refer to Shared XDMS) • Prerequisite for this test: <ul style="list-style-type: none"> ○ XDM-1.0-int-M-0100 – successfully executes ○ UE1 is powered on, UE2 is powered off ○ UE1 and UE2 support <display-name> element ○ UE1 is capable of modifying the display name of the group member (Groups created by the User provisioned on the UE). ○ Group1 exists in the XDMS for User1. The group has at least User1 and User2 members. User3 member does not exist in the group. ○ UE1 and UE2 are capable of displaying the members of the groups and their URIs (Groups created by the User provisioned on the UE).

Test Procedure	<ol style="list-style-type: none">1. User2 is selected from Group1 using UE1.2. The URI of User2 is selected using UE1 and noted.3. The display name of the User2 is changed from User2 to User3 using UE1.4. UE1 is powered off.5. UE2 is powered on.6. Group1 is retrieved using UE2.7. The URI of User3 is selected using UE2 and compared to the noted URI in Step 2.
Pass-Criteria	<ol style="list-style-type: none">2. UE1 displays the display name of User2 in Group1.3. UE1 displays the URI of User2.7. UE2 displays the URI of User3. The URI displayed on UE2 is identical to the URI noted in Step 2.

6.2.1.2 Error Flow

Not Available.

Appendix A. SCR and Specification References

Test Case Number in ETS	SCR-reference	Spec (AD,CP,UP)-reference
XDM-1.0-int-M-0100	XDM-XDMC-C-001:M XDM-XDMC-C-002:M XDM-XDMC-C-005:M XDM-XDMC-C-006:M XDM-XDMS-S-001:M XDM-XDMS-S-005:M XDM-AP-S-001:M XDM-AP-S-002:M XDM-AP-S-004:M XDM-AP-S-005:M XDM-AP-S-007:O	OMA-XDM-Spec: 5.2 6.3.1 6.4.1 6.1.1.1 6.1.1.2 6.2.1 6.3 6.3.2 6.3.3 6.4 6.4.2 6.4.3 RFC 2617
XDM-1.0-int-M-0150	XDM-XDMC-C-001:M XDM-XDMC-C-002:M XDM-XDMC-C-005:M XDM-XDMC-C-006:M XDM-XDMS-S-001:M XDM-XDMS-S-005:M XDM-AP-S-001:M XDM-AP-S-002:M XDM-AP-S-004:M XDM-AP-S-007:M	OMA-XDM-Spec: 5.2 6.3.1 6.4.1 6.1.1.1 6.1.1.2 6.2.1 6.3 6.3.2 6.3.3 6.4 6.4.2 6.4.3 RFC 2617
XDM-1.0-int-M-0200 XDM-1.0-int-M-0201 XDM-1.0-int-M-0202 XDM-1.0-int-M-0203 XDM-1.0-int-O-0200	XDM-XDMC-C-001:M XDM-XDMC-C-002:M XDM-XDMC-C-005:M XDM-XDMC-C-006:M XDM-XDMS-S-001:M XDM-XDMS-S-005:M XDM-AP-S-001:M XDM-AP-S-002:M XDM-AP-S-004:M XDM-AP-S-007:M	OMA-XDM-Spec: 6.1.1.2 6.2.1 5.2 6.1.1.1 6.3 6.3.1 6.3.2 6.4 6.4.1 6.4.2 6.4.3
XDM-1.0-int-M-0300 XDM-1.0-int-M-0301 XDM-1.0-int-M-0302 XDM-1.0-int-M-0303 XDM-1.0-int-M-0304 XDM-1.0-int-O-0300	XDM-XDMC-C-001:M XDM-XDMC-C-002:M XDM-XDMC-C-005:M XDM-XDMC-C-006:M XDM-XDMS-S-001:M XDM-XDMS-S-005:M XDM-AP-S-001:M XDM-AP-S-002:M XDM-AP-S-004:M	OMA-XDM-Spec: 5.2 6.1.1.1 6.1.1.2 6.2.1 6.3 6.3.1 6.3.2 6.4

	XDM-AP-S-007:M POC_XDM-AU-S-001 POC_XDM-AU-S-002 POC_XDM-AU-S-003 POC_XDM-AU-S-004 POC_XDM-AU-S-005 POC_XDM-AU-S-006 PoC_XDM-CAU-C-001	6.4.1 6.4.2 6.4.3 OMA-PoC-XDM: 5.1.1 5.1.2 5.1.3 5.1.4 5.1.5 5.1.6 5.1.7 5.2.2 5.2.3 5.2.4 5.2.5 5.2.7 s
XDM-1.0-int-M-0400 XDM-1.0-int-M-0401 XDM-1.0-int-M-0402 XDM-1.0-int-M-0403 XDM-1.0-int-M-0404 XDM-1.0-int-M-0405	XDM-XDMC-C-001:M XDM-XDMC-C-002:M XDM-XDMC-C-005:M XDM-XDMC-C-006:M XDM-XDMS-S-001:M XDM-XDMS-S-005:M XDM-AP-S-001:M XDM-AP-S-002:M XDM-AP-S-004:M XDM-AP-S-007:M Presence_XDM-AUS-001 Presence_XDM-AUS-002 Presence_XDM-AUS-004 Presence_XDM-AUS-006 Presence_XDM-AUS-008 Presence_XDM-AUC-001 Presence_XDM-AUC-002 Presence_XDM-AUC-004 Presence_XDM-AUC-006	OMA-XDM-Spec: 5.2 6.1.1.1 6.1.1.2 6.2.1 6.3 6.3.1 6.3.2 6.4 6.4.1 6.4.2 6.4.3 Presence_XDM: 5.1 5.1.1.1 5.1.1.4 5.1.1.6 5.1.1.7 5.1.1.11 5.1.2.1 5.1.2.4 5.1.2.6 5.1.2.7 5.1.2.11
XDM-1.0-int-M-0500 XDM-1.0-int-M-0501 XDM-1.0-int-M-0502 XDM-1.0-int-M-0503 XDM-1.0-int-M-0504 XDM-1.0-int-M-0505	XDM-XDMC-C-001:M XDM-XDMC-C-002:M XDM-XDMC-C-005:M XDM-XDMC-C-006:M XDM-XDMS-S-001:M XDM-XDMS-S-005:M XDM-AP-S-001:M XDM-AP-S-002:M XDM-AP-S-004:M XDM-AP-S-007:M RLS_XDM-AU-S-001 RLS_XDM-AU-S-003 RLS_XDM-AU-S-007	OMA-XDM-Spec: 5.2 6.1.1.1 6.1.1.2 6.2.1 6.3 6.3.1 6.3.2 6.4 6.4.1 6.4.2 6.4.3 RLS_XDM:

	RLS_XDM-AU-S-010	5.1.1 5.1.4 5.1.7
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Appendix B. Change History

(Informative)

B.1 Approved Version History

Reference	Date	Description
n/a	19 July 2005	No prior version –or- No previous version within OMA

B.2 Draft Version 1.0 History

Document Identifier	Date	Sections	Description
Draft Versions OMA-ETS-XDM-V1_0-20050425-D	25 Apr 2005	all	First draft
Draft Versions OMA-ETS-XDM-V1_0-20050525-D	25 May 2005	all	Second draft based on the review of XDM ETR mapping table.
Draft Versions OMA-ETS-XDM-V1_0-20050527-D	27 May 2005	all	Draft after first review.
Draft Versions OMA-ETS-XDM-Interoperability-V1_0-20050527-D	27 May 2005	all	Comments after final review during interim meeting.
Draft Version OMA-ETS-XDM-Interoperability-V1_0-20050601-D	01 Jun 2005	all	Comments and changes throughout document: <ul style="list-style-type: none"> You can not access a contact list without the use of a shared XDMS. This is where they are stored even if it's in the same box as the PoC XDMS, logically it's a separate entity as required by XDM. Users can not share the same lists in XDM 1.0, there is no way to delegate permissions to retrieve files to other users. Addition of a mandate that the testing needs to use terminals from different vendors Clarification to testing assumptions Editorial changes
Draft Version OMA-ETS-XDM-Interoperability-V1_0-20050608-D	08 Jun 2005	3.5, 5.3.1.1.4, 5.3.1.1.5, Appendix A	<ul style="list-style-type: none"> Incorporated comments from contribution: OMA-IOP-POC-2005-0108R01-XDM-ETS-Assumptions-Clarification Incorporated comments from contribution: OMA-IOP-POC-2005-0107-XDM-Test-Cases-Order-Switch Addition of SCR table mapping
Draft Version OMA-ETS-XDM-Interoperability-V1_0-20050709-D	09 Jul 2005	5.2 5.4 5.5 Appendix A	<ul style="list-style-type: none"> Added new test cases to Shared XDM section Changed Contact List to URI List in Shared XDM Section Added Presence XDM test cases Added RLS XDM test cases Modifications to SCR table mapping references Editorial changes in whole document
Draft Version OMA-ETS-XDM-Interoperability-V1_0-20050714-D	14 Jul 2005	all	<ul style="list-style-type: none"> Review of new test cases Modifications to new test cases Major changes: <ul style="list-style-type: none"> Moved testing of display name element to optional section UE extraction of data from XDMS
Draft Version OMA-ETS-XDM-Interoperability-V1_0-20050719-D	19 Jul 2005	5.2 5.3 6.1 6.2	<ul style="list-style-type: none"> Incorporated comments from contribution: OMA-IOP-POC-2005-0140R01-CR-against-XDM-ETS-interoperability