



# **Enabler Test Specification for XML Document Management**

**Interoperability**

**Candidate Version 2.0 – 18 Aug 2009**

---

**Open Mobile Alliance**

**OMA-ETS-XDM\_INT-V2\_0-20090818-C**

Use of this document is subject to all of the terms and conditions of the Use Agreement located at <http://www.openmobilealliance.org/UseAgreement.html>.

Unless this document is clearly designated as an approved specification, this document is a work in process, is not an approved Open Mobile Alliance™ specification, and is subject to revision or removal without notice.

You may use this document or any part of the document for internal or educational purposes only, provided you do not modify, edit or take out of context the information in this document in any manner. Information contained in this document may be used, at your sole risk, for any purposes. You may not use this document in any other manner without the prior written permission of the Open Mobile Alliance. The Open Mobile Alliance authorizes you to copy this document, provided that you retain all copyright and other proprietary notices contained in the original materials on any copies of the materials and that you comply strictly with these terms. This copyright permission does not constitute an endorsement of the products or services. The Open Mobile Alliance assumes no responsibility for errors or omissions in this document.

Each Open Mobile Alliance member has agreed to use reasonable endeavors to inform the Open Mobile Alliance in a timely manner of Essential IPR as it becomes aware that the Essential IPR is related to the prepared or published specification. However, the members do not have an obligation to conduct IPR searches. The declared Essential IPR is publicly available to members and non-members of the Open Mobile Alliance and may be found on the “OMA IPR Declarations” list at <http://www.openmobilealliance.org/ipr.html>. The Open Mobile Alliance has not conducted an independent IPR review of this document and the information contained herein, and makes no representations or warranties regarding third party IPR, including without limitation patents, copyrights or trade secret rights. This document may contain inventions for which you must obtain licenses from third parties before making, using or selling the inventions. Defined terms above are set forth in the schedule to the Open Mobile Alliance Application Form.

NO REPRESENTATIONS OR WARRANTIES (WHETHER EXPRESS OR IMPLIED) ARE MADE BY THE OPEN MOBILE ALLIANCE OR ANY OPEN MOBILE ALLIANCE MEMBER OR ITS AFFILIATES REGARDING ANY OF THE IPR'S REPRESENTED ON THE “OMA IPR DECLARATIONS” LIST, INCLUDING, BUT NOT LIMITED TO THE ACCURACY, COMPLETENESS, VALIDITY OR RELEVANCE OF THE INFORMATION OR WHETHER OR NOT SUCH RIGHTS ARE ESSENTIAL OR NON-ESSENTIAL.

THE OPEN MOBILE ALLIANCE IS NOT LIABLE FOR AND HEREBY DISCLAIMS ANY DIRECT, INDIRECT, PUNITIVE, SPECIAL, INCIDENTAL, CONSEQUENTIAL, OR EXEMPLARY DAMAGES ARISING OUT OF OR IN CONNECTION WITH THE USE OF DOCUMENTS AND THE INFORMATION CONTAINED IN THE DOCUMENTS.

© 2009 Open Mobile Alliance Ltd. All Rights Reserved.

Used with the permission of the Open Mobile Alliance Ltd. under the terms set forth above.

# Contents

- 1. SCOPE.....5**
- 2. REFERENCES .....6**
  - 2.1 NORMATIVE REFERENCES.....6**
  - 2.2 INFORMATIVE REFERENCES.....6**
- 3. TERMINOLOGY AND CONVENTIONS.....7**
  - 3.1 CONVENTIONS.....7**
  - 3.2 DEFINITIONS.....7**
  - 3.3 ABBREVIATIONS.....7**
- 4. INTRODUCTION .....8**
- 5. XDM INTEROPERABILITY TEST CASES .....9**
  - 5.1 SECURITY TEST CASES .....9**
    - 5.1.1 Normal flow.....9
      - 5.1.1.1 XDM-2.0-int-0100 Authentication of XDMC in the UE.....9
      - 5.1.1.2 XDM-2.0-int-0101 GAA authentication (Includes Optional Features).....9
    - 5.1.2 Error flow.....10
      - 5.1.2.1 XDM-2.0-int-0150 Too Many Failed Authentication Attempts by XDMC in UE.....10
  - 5.2 XML DOCUMENTS DIRECTORY TEST CASES .....10**
    - 5.2.1 Normal flow.....10
      - 5.2.1.1 XDM-2.0-int-0200 XCAP Directory Retrieval.....10
    - 5.2.2 Error flow.....10
  - 5.3 URI LIST TEST CASES .....10**
  - 5.4 GROUP TEST CASES .....11**
    - 5.4.1 Normal flow.....11
    - 5.4.2 Error flow.....11
  - 5.5 EXTENDED GROUP TEST CASES .....11**
    - 5.5.1 Normal flow.....11
      - 5.5.1.1 XDM-2.0-int-0500 Extended Group Advertisement – Group creation (Includes Optional Features).....11
    - 5.5.2 Error flow.....12
  - 5.6 USER PROFILE TEST CASES.....12**
    - 5.6.1 Normal flow.....12
      - 5.6.1.1 XDM-2.0-int-0600 User Profile creation and retrieval (Includes Optional Features for XDMC).....12
      - 5.6.1.2 XDM-2.0-int-0601 User Profile modification and retrieval (Includes Optional Features for XDMC).....13
      - 5.6.1.3 XDM-2.0-int-0602 User Profile deletion (Includes Optional Features for XDMC).....14
    - 5.6.2 Error flow.....14
  - 5.7 LOCKED USER PROFILE TEST CASES.....15**
    - 5.7.1 Normal flow.....15
    - 5.7.2 Error flow.....15
  - 5.8 USER ACCESS POLICY TEST CASES.....15**
    - 5.8.1 Normal flow.....15
      - 5.8.1.1 XDM-2.0-int-0800 User Access Policy creation and retrieval (Includes Optional Features for XDMC).....15
      - 5.8.1.2 XDM-2.0-int-0801 User Access Policy modification and retrieval (Includes Optional Features for XDMC).....16
      - 5.8.1.3 XDM-2.0-int-0802 User Access Policy deletion (Includes Optional Features for XDMC).....17
    - 5.8.2 Error flow.....17
  - 5.9 SUBSCRIPTION TEST CASES.....18**
    - 5.9.1 Normal flow.....18
      - 5.9.1.1 XDM-2.0-int-0900 Subscription to changes in URI List documents (Includes Optional Features for XDMC).....18
      - 5.9.1.2 XDM-2.0-int-0901 Subscription to changes in Group documents (Includes Optional Features for XDMC).....18
      - 5.9.1.3 XDM-2.0-int-0902 Subscription to changes in User Profile documents (Includes Optional Features for XDMC).....19
      - 5.9.1.4 XDM-2.0-int-0903 Subscription to changes in User Access Policy documents (Includes Optional Features for XDMC).....20
      - 5.9.1.5 XDM-2.0-int-0904 Subscription to changes in Group Usage List documents (Includes Optional Features) .....21
    - 5.9.2 Error flow.....22
  - 5.10 SEARCH PROXY TEST CASES.....22**
    - 5.10.1 Normal flow.....22

5.10.1.1 XDM-2.0-int-1000 Search request (Includes Optional Features for XDMC)..... 22

5.10.2 Error flow..... 23

5.10.2.1 XDM-2.0-int-1050 Invalid search request – no HTTP POST method (Includes Optional Features for XDMC)..... 23

5.10.2.2 XDM-2.0-int-1051 Invalid search request – invalid XML (Includes Optional Features for XDMC) ..... 24

5.10.2.3 XDM-2.0-int-1052 Invalid search request – no collection input function (Includes Optional Features for XDMC)... 25

5.10.2.4 XDM-2.0-int-1053 Invalid search request – invalid collection input function (Includes Optional Features for XDMC) 25

5.10.2.5 XDM-2.0-int-1054 Invalid search request – unknown user domain (Includes Optional Features for XDMC) ..... 26

**5.11 COMPRESSION TEST CASES ..... 27**

5.11.1 Normal flow..... 27

5.11.2 Error flow..... 27

**5.12 BACKWARDS COMPATIBILITY TEST CASES ..... 27**

5.12.1 Normal flow..... 27

5.12.2 Error flow..... 27

**APPENDIX A. CHANGE HISTORY (INFORMATIVE)..... 28**

**A.1 APPROVED VERSION HISTORY ..... 28**

**A.2 DRAFT/CANDIDATE VERSION 2.0 HISTORY ..... 28**

# 1. Scope

This document describes in detail available test cases for Enabler XDM V2.0 ( <http://www.openmobilealliance.org> ).

The interoperability test cases are aimed to verify that implementations of the specifications work satisfactory.

The coverage of the tests includes Aggregation Proxy, Aggregation Proxy of Remote Network Shared Group XDMS, Shared Profile XDMS, Shared List XDMS, and Shared Policy XDMS and Search Proxy. These tests will be done using testing of other enablers such as PoC V2.0 and SIMPLE IM, as XDM cannot be tested stand-alone.

For the enabler specific XDM tests, see the corresponding enabler XDM ETS document (s).

## 2. References

### 2.1 Normative References

- [RFC2119] “Key words for use in RFCs to Indicate Requirement Levels”, S. Bradner, March 1997, URL:<http://www.ietf.org/rfc/rfc2119.txt>
- [IOPPROC] “OMA Interoperability Policy and Process”, Version 1.8, Open Mobile Alliance™, OMA-ORG-IOP-Process-V1\_8, URL:<http://www.openmobilealliance.org/>
- [OMA\_XDMv1\_ETS] “Enabler Test Specification for XML Document Management Interoperability”, Version 1.0, Open Mobile Alliance™, OMA-ERELD-XDM-V1\_0, URL:<http://www.openmobilealliance.org/>
- [OMA\_PoC\_XDMv1\_ETS] “Enabler Test Specification for PoC XDM Interoperability”, Version 1.0, Open Mobile Alliance™, OMA-ETS-PoC\_XDM-V1\_0, URL:<http://www.openmobilealliance.org/>
- [OMA\_XDM\_AD] “XML Document Management Architecture”, Version 2.0. Open Mobile Alliance™, OMA-AD-XDM-V2\_0, URL:<http://www.openmobilealliance.org/>
- [OMA\_XDM\_CORE] “XML Document Management (XDM) Specification”, Version 2.0, Open Mobile Alliance™, OMA-TS-XDM\_Core-V2\_0, URL:<http://www.openmobilealliance.org/>
- [OMA\_XDM\_GROUP] “OMA Shared Group XDM Specification”, Version 2.0, Open Mobile Alliance™, OMA-TS-XDM\_Shared\_Group-V2\_0, URL:<http://www.openmobilealliance.org/>
- [OMA\_XDM\_LIST] “OMA Shared List XDM Specification”, Version 2.0, Open Mobile Alliance™, OMA-TS-XDM\_Shared\_List-V2\_0, URL:<http://www.openmobilealliance.org/>
- [OMA\_XDM\_POLI] “OMA Shared Policy XDM Specification”, Version 2.0, Open Mobile Alliance™, OMA-TS-XDM\_Shared\_Policy-V2\_0, URL:<http://www.openmobilealliance.org/>
- [OMA\_XDM\_PROF] “OMA Shared Profile XDM Specification”, Version 2.0, Open Mobile Alliance™, OMA-TS-XDM\_Shared\_Profile-V2\_0, URL:<http://www.openmobilealliance.org/>
- [OMA\_XDM\_RD] “OMA XML Document Management Requirements”, Version 2.0. Open Mobile Alliance™, OMA-RD-XDM-V2\_0, URL:<http://www.openmobilealliance.org/>
- [OMA\_XDM\_ETR] “Enabler Test Requirements for XML Document Management (XDM)”, Draft Version 2.0, Open Mobile Alliance™, OMA-ETR-XDM-V2\_0, URL:<http://www.openmobilealliance.org/>

### 2.2 Informative References

- [OMADICT] “Dictionary for OMA Specifications”, Version 2.7 Open Mobile Alliance™, OMA-ORG-Dictionary-V2\_7, URL:<http://www.openmobilealliance.org/>
- [XCAP] “The Extensible Markup Language (XML) Configuration Access protocol (XCAP)”, J. Rosenberg, October 13, 2006, URL: <http://www.ietf.org/internet-drafts/draft-ietf-simple-xcap-12.txt>  
Note: IETF Draft work in progress.

## 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.

The following numbering scheme is used:

**xxx-y.z-int-number** where:

xxx	Name of enabler, e.g. MMS or Browsing
y.z	Version of enabler release, e.g. 1.2 or 1.2.1
'int'	Indicating this test is a interoperability test case
number	Leap number for the test case

### 3.2 Definitions

<b>Shared Group</b>	A group which can be used by multiple enablers.
<b>User</b>	A person using UE.
<b>User[N]</b>	A subscriber assigned to UE, where N is an integer number (i.e User1, User2, etc).
<b>UE</b>	A client terminal with assigned User[N] used for testing.
<b>URI List</b>	A list of URIs.
<b>XDM Client</b>	An HTTP client that understands how to follow the naming and validation constraints defined in [XCAP]
<b>XDM Server</b>	An HTTP server that understands how to follow the naming and validation constraints defined in [XCAP]

### 3.3 Abbreviations

<b>AD</b>	Architecture Document
<b>AUID</b>	Application Unique ID
<b>OMA</b>	Open Mobile Alliance
<b>RD</b>	Requirements Document
<b>URI</b>	Uniform Resource Identifier
<b>XCAP</b>	XML Configuration Access Protocol
<b>XDM</b>	XML Document Management
<b>XDMC</b>	XDM Client
<b>XDMS</b>	XDM Server
<b>XML</b>	Extensible Markup Language
<b>XUI</b>	XCAP User Identifier

## 4. Introduction

The purpose of this document is to provide test cases for XDM Enabler Release V2.0.

The implementation of some features is optional for the Clients and/or the Servers in the XDM V2.0 Enabler. The tests associated with these optional features are marked as "(Includes Optional Features)" in the test specification.

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: IM Client, PoC Client, Watcher and/or Presence Source logical components,
- An Aggregation Proxy, an Aggregation Proxy of Remote Network
- Shared XDMSs (Shared Group, Shared Profile, Shared List or Shared Policy),
- Services specific XDM Servers, for instance, IM XDMS, Presence XDMS and/or RLS XDMS.
- A Search Proxy
- SIP/IP Core network

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. XDM Interoperability Test Cases

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

### 5.1 Security Test Cases

#### 5.1.1 Normal flow

##### 5.1.1.1 XDM-2.0-int-0100 Authentication of XDMC in the UE

Editor's note: Please refer to [OMA\_XDMv1\_ETS]

##### 5.1.1.2 XDM-2.0-int-0101 GAA authentication (Includes Optional Features)

<b>Test Case Id</b>	XDM-2.0-int-0101
<b>Test Object</b>	UE with XDMC, Aggregation Proxy and Shared XDMS
<b>Test Case Description</b>	Verify that if GAA is supported for client authentication, an XDMC and an Aggregation Proxy interoperate, as required.
<b>Specification Reference</b>	[OMA_XDM_CORE] 6.1, 6.3, 5.1.1
<b>SCR Reference</b>	XDM_Core-SEC-C-004-O, XDM_Core-SEC-S-006-O
<b>ETR Reference</b>	SEC-004
<b>Tool</b>	Not available.
<b>Test code</b>	Not available.
<b>Preconditions</b>	<ul style="list-style-type: none"> <li>• Equipment: <ul style="list-style-type: none"> <li>○ UE (with User1 credentials)</li> <li>○ Aggregation Proxy</li> </ul> </li> <li>• Prerequisite for this test: <ul style="list-style-type: none"> <li>○ XDM-2.0-int-0150 – authentication failure test case executes successfully. This is to verify that the Aggregation Proxy is challenging the requests.</li> <li>○ User1 is preconfigured in the network with valid credentials.</li> <li>○ The UE is powered off.</li> <li>○ Authentication is enabled in the Aggregation Proxy.</li> <li>○ UE does not have any documents stored locally for User1</li> <li>○ Logging might be required for this test case, in order to fully verify the successful authentication.</li> </ul> </li> </ul>
<b>Test Procedure</b>	<ol style="list-style-type: none"> <li>1. UE1 is powered on.</li> <li>2. XDMS is contacted to retrieve User1 document (s).</li> </ol>
<b>Pass-Criteria</b>	<ol style="list-style-type: none"> <li>2. No failed authentication indication is displayed to the user. X-3GPP-Intended-Identity header of HTTP corresponds to the authenticated identity.</li> </ol>

## 5.1.2 Error flow

### 5.1.2.1 XDM-2.0-int-0150 Too Many Failed Authentication Attempts by XDMC in UE

Editor's note: Please refer to [OMA\_XDMv1\_ETS]

## 5.2 XML Documents Directory Test Cases

### 5.2.1 Normal flow

#### 5.2.1.1 XDM-2.0-int-0200 XCAP Directory Retrieval

<b>Test Case Id</b>	XDM-2.0-int-0200
<b>Test Object</b>	UE with XDMC, Aggregation Proxy, any XDMS
<b>Test Case Description</b>	Verify the interoperability of entities supporting the Application Usage “org.openmobilealliance.xcap-directory”. TEST CASE GOAL: Verify that a XDMC can retrieve the list of documents from the correct XDMS and for a given XUI.
<b>Specification Reference</b>	[OMA_XDM_CORE] 6.3.1.4, 5.3.2
<b>SCR Reference</b>	XDM_Core-DIR-C-001-O, XDM_Core-DIR-S-001-M, XDM_Core-DIR-S-002-M
<b>ETR Reference</b>	DIR-001
<b>Tool</b>	Not available.
<b>Test code</b>	Not available.
<b>Preconditions</b>	<ul style="list-style-type: none"> <li>• Equipment: <ul style="list-style-type: none"> <li>○ UE (with User1 credentials)</li> <li>○ Aggregation Proxy</li> <li>○ Any XDMS</li> </ul> </li> <li>• Prerequisite for this test: <ul style="list-style-type: none"> <li>○ XDM-2.0-int-0100 executes successfully.</li> <li>○ There is at least one document for User 1. There is a directory.xml file for one XDMS and for User 1.</li> <li>○ UE is powered off.</li> </ul> </li> </ul>
<b>Test Procedure</b>	<ol style="list-style-type: none"> <li>1. UE is powered on.</li> <li>2. XDMS is contacted via the Aggregation Proxy to retrieve a list of all XML documents for User1.</li> </ol>
<b>Pass-Criteria</b>	<ol style="list-style-type: none"> <li>2. The document directory.xml is delivered to XDMC (compiled by the Aggregation Proxy).</li> </ol>

### 5.2.2 Error flow

Not available.

## 5.3 URI List Test Cases

Editor's note: Please refer to [OMA\_XDMv1\_ETS]

## 5.4 Group Test Cases

### 5.4.1 Normal flow

### 5.4.2 Error flow

## 5.5 Extended Group Test Cases

### 5.5.1 Normal flow

#### 5.5.1.1 XDM-2.0-int-0500 Extended Group Advertisement – Group creation (Includes Optional Features)

<b>Test Case Id</b>	XDM-2.0-int-0500
<b>Test Object</b>	UE with XDMC, Aggregation Proxy, SIP/IP Core, Shared Group XDMS
<b>Test Case Description</b>	Verify that a Shared Group XDMS generates and sends the Extended Group Advertisement document to the relevant XDMC(s), and an XDMC handles the Extended Advertisement document.
<b>Specification Reference</b>	[OMA_XDM_GROUP] 7.2
<b>SCR Reference</b>	XDM_Group-GA-S-001-O, XDM_Group-GA-S-002-O, XDM_Group-GA-S-003-O
<b>ETR Reference</b>	GA-001
<b>Tool</b>	Not available.
<b>Test code</b>	Not available.
<b>Preconditions</b>	<ul style="list-style-type: none"> <li>• Equipment: <ul style="list-style-type: none"> <li>○ 2 UEs (UE1 with User1 and UE2 with User2 credentials)</li> <li>○ Aggregation Proxy</li> <li>○ Shared Group XDMS</li> </ul> </li> <li>• Prerequisite for this test: <ul style="list-style-type: none"> <li>○ XDM-2.0-int-0100 executes successfully.</li> <li>○ UE1 and UE2 are powered off</li> <li>○ Group with the display name Group1 does not exist in the list of groups for both User1 and User2.</li> <li>○ UE1 and UE2 are capable of displaying the members of the groups (Groups created by the User provisioned on the UE).</li> </ul> </li> </ul>
<b>Test Procedure</b>	<ol style="list-style-type: none"> <li>1. UE1 and UE2 are powered on.</li> <li>2. Group1 is created using UE1 (XDMC of UE1 includes the &lt;automatic-group-advertisement&gt; element set to “true” in the group document).</li> <li>3. User1 and User2 members are added to Group1 using UE1.</li> </ol>
<b>Pass-Criteria</b>	<ol style="list-style-type: none"> <li>3. Shared Group XDMS sends an Extended Group Advertisement message according to the procedures of the SIP/IP Core. Both UE1 and UE2 receive the Extended Group Advertisement message.</li> </ol>

## 5.5.2 Error flow

Not available.

## 5.6 User Profile Test Cases

### 5.6.1 Normal flow

#### 5.6.1.1 XDM-2.0-int-0600 User Profile creation and retrieval (Includes Optional Features for XDMC)

<b>Test Case Id</b>	XDM-2.0-int-0600
<b>Test Object</b>	UE with XDMC, Aggregation Proxy, Shared Profile XDMS
<b>Test Case Description</b>	Verify that an XDMC sends a request for creating a new User Profile document, and a Shared Profile XDMS creates a new User Profile document upon receiving such a request from an XDMC.
<b>Specification Reference</b>	[OMA_XDM_CORE] 6.1.1, 6.2.1 [OMA_XDM_PROF] 5.1
<b>SCR Reference</b>	XDM_Profile-XOP-C-001-O, XDM_Core-XOP-C-001-M
<b>ETR Reference</b>	XOP-009, XOP-011
<b>Tool</b>	Not available.
<b>Test code</b>	Not available.
<b>Preconditions</b>	<ul style="list-style-type: none"> <li>• Equipment: <ul style="list-style-type: none"> <li>○ 2 UEs (with User1 credentials)</li> <li>○ Aggregation Proxy</li> <li>○ Shared Profile XDMS</li> </ul> </li> <li>• Prerequisite for this test: <ul style="list-style-type: none"> <li>○ XDM-2.0-int-0100 executes successfully.</li> <li>○ Shared Profile XDMS doesn't have any document for User1.</li> <li>○ UE1 and UE2 are capable of displaying the User Profile for a given user.</li> <li>○ UE1 and UE2 are powered off.</li> </ul> </li> </ul>
<b>Test Procedure</b>	<ol style="list-style-type: none"> <li>1. UE1 is powered on.</li> <li>2. A User Profile is created for User1 using UE1.</li> <li>3. UE1 is powered off.</li> <li>4. UE2 is powered on.</li> <li>5. The User Profile for User1 is retrieved using UE2.</li> </ol>
<b>Pass-Criteria</b>	<ol style="list-style-type: none"> <li>2. UE1 displays the User Profile for User1.</li> <li>3. UE2 displays the User Profile for User1.</li> </ol>

### 5.6.1.2 XDM-2.0-int-0601 User Profile modification and retrieval (Includes Optional Features for XDMC)

<b>Test Case Id</b>	XDM-2.0-int-0601
<b>Test Object</b>	UE with XDMC, Aggregation Proxy, User Profile XDMS
<b>Test Case Description</b>	<p>Verify that an XDMC sends a request for modifying and retrieving a User Profile document, and a Shared Profile XDMS modifies a User Profile document upon receiving such a request from an XDMC.</p> <p>TEST CASE GOAL: Modify the &lt;display-name&gt; element of the &lt;user-information&gt; belonging to the &lt;shared-user-profile&gt; of a user and verify that the Shared Profile XML document is updated correctly in the Shared Profile XDMS.</p>
<b>Specification Reference</b>	[OMA_XDM_CORE] 6.1.1, 6.2.1 [OMA_XDM_PROF] 5.1
<b>SCR Reference</b>	XDM_Profile-XOP-C-001-O, XDM_Core-XOP-C-001-M
<b>ETR Reference</b>	XOP-010, XOP-011
<b>Tool</b>	Not available.
<b>Test code</b>	Not available.
<b>Preconditions</b>	<ul style="list-style-type: none"> <li>• Equipment: <ul style="list-style-type: none"> <li>○ 2 UEs (with User1 credentials)</li> <li>○ Aggregation Proxy</li> <li>○ Shared Profile XDMS</li> </ul> </li> <li>• Prerequisite for this test: <ul style="list-style-type: none"> <li>○ XDM-2.0-int-0100 executes successfully.</li> <li>○ UE1 and UE2 support &lt;display-name&gt; element.</li> <li>○ Shared Profile XDMS has a document for User1 and the value for &lt;display-name&gt; is User2.</li> <li>○ UE1 is powered on and UE2 is powered off.</li> <li>○ UE1 and UE2 are capable of displaying the User Profile for a given user.</li> </ul> </li> </ul>
<b>Test Procedure</b>	<ol style="list-style-type: none"> <li>1. User Profile of User2 is selected using UE1.</li> <li>2. The URI of User2 is noted.</li> <li>3. The &lt;display-name&gt; of the User2 is changed from User2 to User3 using UE1.</li> <li>4. UE1 is powered off.</li> <li>5. UE2 is powered on.</li> <li>6. The User Profile for the user named User3 is retrieved using UE2.</li> <li>7. The URI of User3 is selected using UE2 and compared to the noted URI in Step 2.</li> </ol>
<b>Pass-Criteria</b>	<ol style="list-style-type: none"> <li>1. UE1 displays the display name for User1.</li> <li>2. Optionally, UE2 displays URI for User1.</li> <li>7. UE2 displays the URI for UE3. The URI displayed on UE2 is identical to the URI noted in Step 2.</li> </ol>

### 5.6.1.3 XDM-2.0-int-0602 User Profile deletion (Includes Optional Features for XDMC)

<b>Test Case Id</b>	XDM-2.0-int-0602
<b>Test Object</b>	UE with XDMC, Aggregation Proxy, User Profile XDMS
<b>Test Case Description</b>	Verify that an XDMC sends a request for deleting a User Profile document, and a Shared Profile XDMS deletes a User Profile document upon receiving such a request from an XDMC.
<b>Specification Reference</b>	[OMA_XDM_CORE] 6.1.1, 6.2.1 [OMA_XDM_PROF] 5.1
<b>SCR Reference</b>	XDM_Profile-XOP-C-001-O, XDM_Core-XOP-C-001-M
<b>ETR Reference</b>	XOP-0012
<b>Tool</b>	Not available.
<b>Test code</b>	Not available.
<b>Preconditions</b>	<ul style="list-style-type: none"> <li>• Equipment: <ul style="list-style-type: none"> <li>○ 2 UEs (with User1 credentials)</li> <li>○ Aggregation Proxy</li> <li>○ Shared Profile XDMS</li> </ul> </li> <li>• Prerequisite for this test: <ul style="list-style-type: none"> <li>○ XDM-2.0-int-0100 executes successfully.</li> <li>○ UE1 and UE2 support &lt;display-name&gt; element.</li> <li>○ Shared Profile XDMS has a document for User1 and the value for &lt;display-name&gt; is User1.</li> <li>○ UE1 is powered on and UE2 is powered off.</li> <li>○ UE1 and UE2 are capable of displaying the User Profile for a given user.</li> </ul> </li> </ul>
<b>Test Procedure</b>	<ol style="list-style-type: none"> <li>1. User Profile of User1 is retrieved using UE1.</li> <li>2. User1 User Profile is selected and deleted using UE1.</li> <li>3. UE1 is powered off.</li> <li>4. UE2 is powered on.</li> <li>5. User1 User Profile manipulated in Step 2 is retrieved using UE2.</li> </ol>
<b>Pass-Criteria</b>	<ol style="list-style-type: none"> <li>1. UE1 displays the User Profile for User1.</li> <li>2. There is no User Profile for User1.</li> <li>5. There is no User Profile for User1.</li> </ol>

## 5.6.2 Error flow

Not available.

## 5.7 Locked User Profile Test Cases

### 5.7.1 Normal flow

### 5.7.2 Error flow

Not available.

## 5.8 User Access Policy Test Cases

### 5.8.1 Normal flow

#### 5.8.1.1 XDM-2.0-int-0800 User Access Policy creation and retrieval (Includes Optional Features for XDMC)

<b>Test Case Id</b>	XDM-2.0-int-0800
<b>Test Object</b>	UE with XDMC, Aggregation Proxy, Shared Policy XDMS
<b>Test Case Description</b>	Verify that an XDMC sends a request for creating a new User Access Policy document, and a Shared Policy XDMS creates a new User Access Policy document upon receiving such a request from an XDMC.
<b>Specification Reference</b>	[OMA_XDM_CORE] 6.1.1, 6.2.1 [OMA_XDM_POLI] 5.1
<b>SCR Reference</b>	XDM_Policy-XOP-C-001-O, XDM_Core-XOP-C-001-M
<b>ETR Reference</b>	XOP-0017, XOP-0019
<b>Tool</b>	Not available.
<b>Test code</b>	Not available.
<b>Preconditions</b>	<ul style="list-style-type: none"> <li>• Equipment: <ul style="list-style-type: none"> <li>○ 2 UEs (UE1 and UE2 with User1 credentials).</li> <li>○ Aggregation Proxy.</li> <li>○ Shared Policy XDMS.</li> </ul> </li> <li>• Prerequisite for this test: <ul style="list-style-type: none"> <li>○ XDM-2.0-int-0100 executes successfully.</li> <li>○ Shared Policy XDMS doesn't have any document for User1.</li> <li>○ UE1 XDMC supports User Access Policy creation.</li> <li>○ UE1 and UE2 are capable of displaying the User Access Policy document</li> <li>○ UE1 and UE2 are powered off.</li> </ul> </li> </ul>
<b>Test Procedure</b>	<ol style="list-style-type: none"> <li>1. UE1 is powered on.</li> <li>2. A User Access Policy is created for User1 using UE1</li> <li>3. UE1 is powered off.</li> <li>4. UE2 is powered on.</li> <li>5. The User Access Policy for User1 is retrieved using UE2.</li> </ol>
<b>Pass-Criteria</b>	<ol style="list-style-type: none"> <li>2. The User Access Policy for User1 is displayed on UE1</li> <li>5. The User Access Policy for User1 is displayed on UE2</li> </ol>

### 5.8.1.2 XDM-2.0-int-0801 User Access Policy modification and retrieval (Includes Optional Features for XDMC)

<b>Test Case Id</b>	XDM-2.0-int-0801
<b>Test Object</b>	UE with XDMC, Aggregation Proxy, Shared Policy XDMS
<b>Test Case Description</b>	Verify that an XDMC sends a request for modifying and retrieving a User Access Policy document, and a Shared Policy XDMS modifies a User Access Policy document upon receiving such a request from an XDMC.  TEST CASE GOAL: Modify the policy rule <allow-reject-invite> element of a user and verify that the Shared Policy XML document is updated correctly in the Shared Policy XDMS.
<b>Specification Reference</b>	[OMA_XDM_CORE] 6.1.1, 6.2.1 [OMA_XDM_POLI] 5.1
<b>SCR Reference</b>	XDM_Policy-XOP-C-001-O, XDM_Core-XOP-C-001-M
<b>ETR Reference</b>	XOP-018, XOP-019
<b>Tool</b>	Not available.
<b>Test code</b>	Not available.
<b>Preconditions</b>	<ul style="list-style-type: none"> <li>• Equipment: <ul style="list-style-type: none"> <li>○ 2 UEs (UE1 and UE2 with User1 credentials).</li> <li>○ Aggregation Proxy</li> <li>○ Shared Policy XDMS</li> </ul> </li> <li>• Prerequisite for this test: <ul style="list-style-type: none"> <li>○ XDM-2.0-int-0100 executes successfully.</li> <li>○ Shared Policy XDMS has a document for User1 with the following values of &lt;allow-reject-invite&gt; element: “false” for User2.</li> <li>○ UE1 is powered on and UE2 is powered off.</li> <li>○ UE1 XDMC supports User Access Policy modification.</li> <li>○ UE2 XDMC supports User Access Policy retrieval.</li> <li>○ UE1 and UE2 are capable of displaying the policy rule &lt;allow-reject-invite&gt; element for contacts.</li> </ul> </li> </ul>
<b>Test Procedure</b>	<ol style="list-style-type: none"> <li>1. User1 on UE1 sets the access policy rule &lt;allow-reject-invite&gt; element to “true” for User2 (indicating “accept”).</li> <li>2. UE1 is powered off.</li> <li>3. UE2 is powered on.</li> <li>4. The &lt;allow-reject-invite&gt; elements for User1 contacts are retrieved using UE2.</li> </ol>
<b>Pass-Criteria</b>	<ol style="list-style-type: none"> <li>1. The contacts for User1 are displayed on UE1 with the following values of &lt;allow-reject-invite&gt; element: “true” for User2 (indicating “accept”).</li> <li>4. The contacts for User1 are displayed on UE2 with the following values of &lt;allow-reject-invite&gt; element: “true” for User2 (indicating “accept”).</li> </ol>

### 5.8.1.3 XDM-2.0-int-0802 User Access Policy deletion (Includes Optional Features for XDMC)

<b>Test Case Id</b>	XDM-2.0-int-0802
<b>Test Object</b>	UE with XDMC, Aggregation Proxy, Shared Policy XDMS
<b>Test Case Description</b>	Verify that an XDMC sends a request for deleting a User Access Policy document, and a Shared Policy XDMS deletes a User Access Policy document upon receiving such a request from an XDMC.
<b>Specification Reference</b>	[OMA_XDM_CORE] 6.1.1, 6.2.1 [OMA_XDM_POLI] 5.1
<b>SCR Reference</b>	XDM_Policy-XOP-C-001-O, XDM_Core-XOP-C-001-M
<b>ETR Reference</b>	XOP-020
<b>Tool</b>	Not available.
<b>Test code</b>	Not available.
<b>Preconditions</b>	<ul style="list-style-type: none"> <li>• Equipment: <ul style="list-style-type: none"> <li>○ 2 UEs (with User1 credentials)</li> <li>○ Aggregation Proxy</li> <li>○ Shared Policy XDMS</li> </ul> </li> <li>• Prerequisite for this test: <ul style="list-style-type: none"> <li>○ XDM-2.0-int-0100 executes successfully.</li> <li>○ Shared Policy XDMS has a document for User1.</li> <li>○ UE1 is powered on and UE2 is powered off.</li> <li>○ UE1 XDMC supports User Access Policy retrieval and deletion.</li> <li>○ UE1 and UE2 are capable of displaying the User Access Policy document.</li> </ul> </li> </ul>
<b>Test Procedure</b>	<ol style="list-style-type: none"> <li>1. The User Access Policy of User1 contacts is retrieved using UE1.</li> <li>2. User1 User Access Policy is selected and deleted using UE1.</li> <li>3. UE1 is powered off.</li> <li>4. UE2 is powered on.</li> <li>5. User1 User Access Policy manipulated in Step 2 is retrieved using UE2.</li> </ol>
<b>Pass-Criteria</b>	<ol style="list-style-type: none"> <li>1. UE1 displays the User Access Policy for User1.</li> <li>2. There is no User Access Policy for User1.</li> <li>5. There is no User Access Policy for User1.</li> </ol>

## 5.8.2 Error flow

Not available.

## 5.9 Subscription Test Cases

### 5.9.1 Normal flow

#### 5.9.1.1 XDM-2.0-int-0900 Subscription to changes in URI List documents (Includes Optional Features for XDMC)

<b>Test Case Id</b>	XDM-2.0-int-0900
<b>Test Object</b>	UE with XDMC, SIP/IP Core, Shared List XDMS
<b>Test Case Description</b>	Verify that an XDMC subscribes to changes in URI List document and handles the notifications. TEST CASE GOAL: Verify that a XDMC subscribes to document changes and handles the notification and the Shared List XDMS handles the subscription request and sends the notifications as required.
<b>Specification Reference</b>	[OMA_XDM_CORE] 6.1.2, 6.2.2 [OMA_XDM_LIST] 6
<b>SCR Reference</b>	XDM_Core-SUB-C-001-O, XDM_Core-SUB-C-002-O
<b>ETR Reference</b>	SUB-001
<b>Tool</b>	Not available.
<b>Test code</b>	Not available.
<b>Preconditions</b>	<ul style="list-style-type: none"> <li>• Equipment: <ul style="list-style-type: none"> <li>○ 2 UEs (UE1 with User1 and UE2 with User2 credentials)</li> <li>○ SIP/IP Core</li> <li>○ Shared List XDMS</li> </ul> </li> <li>• Prerequisite for this test: <ul style="list-style-type: none"> <li>○ XDM-2.0-int-0100 executes successfully.</li> <li>○ Shared List XDMS has a URI List document for User1.</li> <li>○ UE2 XDMC is authorised to subscribe changes in User1's documents.</li> <li>○ UE1 and UE2 are powered off.</li> </ul> </li> </ul>
<b>Test Procedure</b>	<ol style="list-style-type: none"> <li>1. UE1 is powered on.</li> <li>2. UE2 is powered on.</li> <li>3. UE2 subscribes to changes in the URI List document of User 1.</li> <li>4. User2 member is added to the URI List using UE1.</li> </ol>
<b>Pass-Criteria</b>	4. The change made to the URI List is notified to UE2.

#### 5.9.1.2 XDM-2.0-int-0901 Subscription to changes in Group documents (Includes Optional Features for XDMC)

<b>Test Case Id</b>	XDM-2.0-int-0901
<b>Test Object</b>	UE with XDMC, SIP/IP Core, Shared Group XDMS

<b>Test Case Description</b>	Verify that an XDMC subscribes to changes in Group document and handles the notifications.  TEST CASE GOAL: Verify that a XDMC subscribes to document changes and handles the notification and the Shared Group XDMS handles the subscription request and sends the notifications as required.
<b>Specification Reference</b>	[OMA_XDM_CORE] 6.1.2, 6.2.2 [OMA_XDM_GROUP] 6
<b>SCR Reference</b>	XDM_Core-SUB-C-001-O, XDM_Core-SUB-C-002-O
<b>ETR Reference</b>	SUB-002
<b>Tool</b>	Not available.
<b>Test code</b>	Not available.
<b>Preconditions</b>	<ul style="list-style-type: none"> <li>• Equipment: <ul style="list-style-type: none"> <li>○ 2 UEs (UE1 with User1 and UE2 with User2 credentials)</li> <li>○ SIP/IP Core</li> <li>○ Shared Group XDMS</li> </ul> </li> <li>• Prerequisite for this test: <ul style="list-style-type: none"> <li>○ XDM-2.0-int-0100 executes successfully.</li> <li>○ Shared Group XDMS has a Group with display name Group1 document for User1 (User to be added is not in this group).</li> <li>○ UE1 and UE2 are capable of displaying the members of the groups (Groups created by the User provisioned on the UE).</li> <li>○ UE2 XDMC is authorised to subscribe changes in User1's documents.</li> <li>○ UE1 and UE2 are powered off.</li> </ul> </li> </ul>
<b>Test Procedure</b>	<ol style="list-style-type: none"> <li>1. UE1 is powered on.</li> <li>2. UE2 is powered on.</li> <li>3. UE2 subscribes to changes in the Group document, Group1 of User 1.</li> <li>4. Another user member (User2) is added to Group1 using UE1.</li> </ol>
<b>Pass-Criteria</b>	4. The change made to the URI List is notified to UE2.

**5.9.1.3 XDM-2.0-int-0902 Subscription to changes in User Profile documents (Includes Optional Features for XDMC)**

<b>Test Case Id</b>	XDM-2.0-int-0902
<b>Test Object</b>	UE with XDMC, SIP/IP Core, Shared Profile XDMS
<b>Test Case Description</b>	Verify that an XDMC subscribes to changes in User Profile document and handles the notifications.  TEST CASE GOAL: Verify that a XDMC subscribes to document changes and handles the notification and the Shared Profile XDMS handles the subscription request and sends the notifications as required.
<b>Specification Reference</b>	[OMA_XDM_CORE] 6.1.2, 6.2.2 [OMA_XDM_PROF] 6
<b>SCR Reference</b>	XDM_Core-SUB-C-001-O, XDM_Core-SUB-C-002-O

<b>ETR Reference</b>	SUB-003
<b>Tool</b>	Not available.
<b>Test code</b>	Not available.
<b>Preconditions</b>	<ul style="list-style-type: none"> <li>• Equipment: <ul style="list-style-type: none"> <li>○ 2 UEs (UE1 with User1 and UE2 with User2 credentials)</li> <li>○ SIP/IP Core</li> <li>○ Shared Profile XDMS</li> </ul> </li> <li>• Prerequisite for this test: <ul style="list-style-type: none"> <li>○ XDM-2.0-int-0100 executes successfully.</li> <li>○ Shared Profile XDMS has a User Profile document for User1.</li> <li>○ UE2 XDMS is authorised to subscribe changes in User1's documents.</li> <li>○ UE1 and UE2 are powered off.</li> </ul> </li> </ul>
<b>Test Procedure</b>	<ol style="list-style-type: none"> <li>1. UE1 is powered on.</li> <li>2. UE2 is powered on.</li> <li>3. UE2 subscribes to changes in the User Profile document of User 1.</li> <li>4. User1 changes its profile (one of the &lt;user-information&gt; elements) using UE1.</li> </ol>
<b>Pass-Criteria</b>	<ol style="list-style-type: none"> <li>4. The change made to the User Profile is notified to UE2.</li> </ol>

#### 5.9.1.4 XDM-2.0-int-0903 Subscription to changes in User Access Policy documents (Includes Optional Features for XDMS)

<b>Test Case Id</b>	XDM-2.0-int-0903
<b>Test Object</b>	UE with XDMS, SIP/IP Core, Shared Policy XDMS
<b>Test Case Description</b>	<p>Verify that an XDMS subscribes to changes in User Policy document and handles the notifications.</p> <p>TEST CASE GOAL: Verify that a XDMS subscribes to document changes and handles the notification and the Shared Policy XDMS handles the subscription request and sends the notifications as required.</p>
<b>Specification Reference</b>	<p>[OMA_XDM_CORE] 6.1.2, 6.2.2</p> <p>[OMA_XDM_POLI] 6</p>
<b>SCR Reference</b>	XDM_Core-SUB-C-001-O, XDM_Core-SUB-C-002-O, XDM_Core-XOP-C-001-M
<b>ETR Reference</b>	SUB-004
<b>Tool</b>	Not available.
<b>Test code</b>	Not available.

<b>Preconditions</b>	<ul style="list-style-type: none"> <li>• Equipment:             <ul style="list-style-type: none"> <li>○ 2 UEs (UE1 with User1 and UE2 with User2 credentials)</li> <li>○ Aggregation Proxy</li> <li>○ Shared Policy XDMS</li> </ul> </li> <li>• Prerequisite for this test:             <ul style="list-style-type: none"> <li>○ XDM-2.0-int-0100 executes successfully.</li> <li>○ Shared Policy XDMS has a document for User1 with the following values of &lt;allow-invite&gt; element: 0 for User2 (indicating “pass”).</li> <li>○ Shared Policy XDMS has a document for User1.</li> <li>○ UE2 XDMC is authorised to subscribe changes in User1’s documents.</li> <li>○ UE1 and UE2 are powered off.</li> </ul> </li> </ul>
<b>Test Procedure</b>	<ol style="list-style-type: none"> <li>1. UE1 is powered on.</li> <li>2. UE2 is powered on.</li> <li>3. UE2 subscribes to changes in the User Policy document of User 1.</li> <li>4. User1 on UE1 sets the access policy rule &lt;allow-invite&gt; element to 2 for User2 (indicating “accept”).</li> </ol>
<b>Pass-Criteria</b>	<ol style="list-style-type: none"> <li>4) The change made to the User Policy is notified to UE2.             <ol style="list-style-type: none"> <li>a) The contacts for User1 are displayed on UE1 with the following values of &lt;allow-invite&gt; element: 2 for User2 (indicating “accept”).</li> <li>b) The contacts for User1 are displayed on UE2 with the following values of &lt;allow-invite&gt; element: 2 for User2 (indicating “accept”).</li> </ol> </li> </ol>

**5.9.1.5 XDM-2.0-int-0904 Subscription to changes in Group Usage List documents (Includes Optional Features)**

<b>Test Case Id</b>	XDM-2.0-int-0904
<b>Test Object</b>	UE with XDMC, SIP/IP Core, Shared List XDMS
<b>Test Case Description</b>	<p>Verify that an XDMC subscribes to changes in Group Usage List document and handles the notifications.</p> <p>TEST CASE GOAL: Verify that a XDMC subscribes to document changes and handles the notification and the Shared List XDMS handles the subscription request and sends the notifications as required.</p>
<b>Specification Reference</b>	<p>[OMA_XDM_CORE] 6.1.2, 6.2.2</p> <p>[OMA_XDM_LIST] 6</p>
<b>SCR Reference</b>	XDM_Core-SUB-C-001-O, XDM_Core-SUB-C-002-O
<b>ETR Reference</b>	LSU-002
<b>Tool</b>	Not available.
<b>Test code</b>	Not available.

<b>Preconditions</b>	<ul style="list-style-type: none"> <li>• Equipment: <ul style="list-style-type: none"> <li>○ 2 UEs (UE1 with User1 and UE2 with User2 credentials)</li> <li>○ SIP/IP Core</li> <li>○ Shared List XDMS</li> </ul> </li> <li>• Prerequisite for this test: <ul style="list-style-type: none"> <li>○ XDM-2.0-int-0100 executes successfully.</li> <li>○ Shared List XDMS has a Group Usage List document for User1.</li> <li>○ Shared List XDMS has a Group document with name Group1.</li> <li>○ UE2 XDMS is authorised to subscribe changes in User1's documents.</li> <li>○ UE1 and UE2 are powered off.</li> </ul> </li> </ul>
<b>Test Procedure</b>	<ol style="list-style-type: none"> <li>1. UE1 is powered on.</li> <li>2. UE2 is powered on.</li> <li>3. UE2 subscribes to changes in the Group Usage List document of User 1.</li> <li>4. Group1 is added to the Group Usage List using UE1.</li> </ol>
<b>Pass-Criteria</b>	<ol style="list-style-type: none"> <li>4. The change made to the URI List is notified to UE2.</li> </ol>

## 5.9.2 Error flow

Not available.

## 5.10 Search Proxy Test Cases

### 5.10.1 Normal flow

#### 5.10.1.1 XDM-2.0-int-1000 Search request (Includes Optional Features for XDMS)

<b>Test Case Id</b>	XDM-2.0-int-1000
<b>Test Object</b>	UE with XDMS, Aggregation Proxy, Search Proxy, Shared Profile XDMS
<b>Test Case Description</b>	<p>Verify the interoperability of entities supporting the Application Usage “org.openmobilealliance.search”.</p> <p>TEST CASE GOAL: Verify that if a XDMS can make search requests and handle the responses, and other entities such as Aggregation Proxy, Search Proxy and Shared Profile XDMS collaborate to handle the search requests.</p>
<b>Specification Reference</b>	[OMA_XDM_CORE] 5.4.1, 6.1.3, 6.2.3, 6.3.1.1, 6.4.1, 6.4.2
<b>SCR Reference</b>	XDM_Core-SRC-C-001-O, XDM_Core-SRC-C-002-O, XDM_Core-SRC-S-001-O
<b>ETR Reference</b>	SRC-001
<b>Tool</b>	Not available.
<b>Test code</b>	Not available.

<b>Preconditions</b>	<ul style="list-style-type: none"> <li>• Equipment:                             <ul style="list-style-type: none"> <li>○ UE (with User1 credentials)</li> <li>○ Aggregation Proxy</li> <li>○ Search Proxy</li> <li>○ Shared Profile XDMS</li> </ul> </li> <li>• Prerequisite for this test:                             <ul style="list-style-type: none"> <li>○ XDM-2.0-int-0100 executes successfully.</li> <li>○ There is a user (User2) which User1 wants to search that matches the search profile.</li> <li>○ UE1 is powered off.</li> </ul> </li> </ul>
<b>Test Procedure</b>	<ol style="list-style-type: none"> <li>1. UE1 is powered on.</li> <li>2. User1 submits a query to find users that have a given profile (Age, Gender, Intention, City or Country).</li> <li>3. XDMC forwards the query to the Search Proxy via the Aggregation Proxy.</li> <li>4. The Search Proxy routes the query to the Shared Profile XDMS based on the AUID.</li> <li>5. Shared Profile XDMS returns the results to the Search Proxy.</li> <li>6. The Aggregation Proxy returns the identifier of User 2 to the XDMC of UE1.</li> <li>7. UE1 displays the search result to User1.</li> </ol>
<b>Pass-Criteria</b>	<ol style="list-style-type: none"> <li>7. User1 can see the result with User2 data.</li> </ol>

## 5.10.2 Error flow

### 5.10.2.1 XDM-2.0-int-1050 Invalid search request – no HTTP POST method (Includes Optional Features for XDMC)

<b>Test Case Id</b>	XDM-2.0-int-1050
<b>Test Object</b>	UE with XDMC, Aggregation Proxy, Search Proxy
<b>Test Case Description</b>	Verify that a Search Proxy provides error response back when using a method other than HTTP POST to do a search request.
<b>Specification Reference</b>	[OMA_XDM_CORE] 6.4.1.1
<b>SCR Reference</b>	XDM_Core-SRC-C-001-O
<b>ETR Reference</b>	SRC-002
<b>Tool</b>	Not available.
<b>Test code</b>	Not available.

<b>Preconditions</b>	<ul style="list-style-type: none"> <li>• Equipment: <ul style="list-style-type: none"> <li>○ UE (with User1 credentials)</li> <li>○ Aggregation Proxy</li> <li>○ Search Proxy</li> </ul> </li> <li>• Prerequisite for this test: <ul style="list-style-type: none"> <li>○ XDM-2.0-int-0100 executes successfully.</li> <li>○ XDMC uses an HTTP method other than POST to submit search requests.</li> </ul> </li> </ul>
<b>Test Procedure</b>	<ol style="list-style-type: none"> <li>1. UE1 is powered on.</li> <li>2. User 1 submits a search to find User2 by a given profile (Age, Gender, Intention, City or Country).</li> <li>3. XDMC forwards the query to the Search Proxy via the Aggregation Proxy.</li> </ol>
<b>Pass-Criteria</b>	<ol style="list-style-type: none"> <li>3. Search Proxy rejects the request with an HTTP 405 (Method Not Allowed) error response.</li> </ol>

### 5.10.2.2 XDM-2.0-int-1051 Invalid search request – invalid XML (Includes Optional Features for XDMC)

<b>Test Case Id</b>	XDM-2.0-int-1051
<b>Test Object</b>	UE with XDMC, Aggregation Proxy, Search Proxy
<b>Test Case Description</b>	Verify that a Search Proxy provides error response back when the body of the search request is not a valid XML.
<b>Specification Reference</b>	[OMA_XDM_CORE] 6.4.1.1
<b>SCR Reference</b>	XDM_Core-SRC-C-001-O
<b>ETR Reference</b>	SRC-002
<b>Tool</b>	Not available.
<b>Test code</b>	Not available.
<b>Preconditions</b>	<ul style="list-style-type: none"> <li>• Equipment: <ul style="list-style-type: none"> <li>○ UE (with User1 credentials)</li> <li>○ Aggregation Proxy</li> <li>○ Search Proxy</li> </ul> </li> <li>• Prerequisite for this test: <ul style="list-style-type: none"> <li>○ XDM-2.0-int-0100 executes successfully.</li> <li>○ XDMC uses an invalid XML in the body of the search request.</li> </ul> </li> </ul>
<b>Test Procedure</b>	<ol style="list-style-type: none"> <li>1. UE1 is powered on.</li> <li>2. User 1 submits a search to find User 2 by a given profile (Age, Gender, Intention, City or Country).</li> <li>3. XDMC forwards the query to the Search Proxy via the Aggregation Proxy.</li> </ol>
<b>Pass-Criteria</b>	<ol style="list-style-type: none"> <li>3. Search Proxy rejects the request with an HTTP 400 (Bad request) error response.</li> </ol>

### 5.10.2.3 XDM-2.0-int-1052 Invalid search request – no collection input function (Includes Optional Features for XDMC)

<b>Test Case Id</b>	XDM-2.0-int-1052
<b>Test Object</b>	UE with XDMC, Aggregation Proxy, Search Proxy
<b>Test Case Description</b>	Verify that a Search Proxy provides error response back when no collection input function is used in the body of the request.
<b>Specification Reference</b>	[OMA_XDM_CORE] 6.4.1.1
<b>SCR Reference</b>	XDM_Core-SRC-C-001-O
<b>ETR Reference</b>	SRC-002
<b>Tool</b>	Not available.
<b>Test code</b>	Not available.
<b>Preconditions</b>	<ul style="list-style-type: none"> <li>• Equipment: <ul style="list-style-type: none"> <li>○ UE (with User1 credentials)</li> <li>○ Aggregation Proxy</li> <li>○ Search Proxy</li> </ul> </li> <li>• Prerequisite for this test: <ul style="list-style-type: none"> <li>○ XDM-2.0-int-0100 executes successfully.</li> <li>○ XDMC doesn't use a collection input function in the request body (XQuery expression).</li> </ul> </li> </ul>
<b>Test Procedure</b>	<ol style="list-style-type: none"> <li>1. UE1 is powered on.</li> <li>2. User 1 submits a search to find User 2 by a given profile (Age, Gender, Intention, City or Country).</li> <li>3. XDMC forwards the query to the Search Proxy via the Aggregation Proxy.</li> </ol>
<b>Pass-Criteria</b>	<ol style="list-style-type: none"> <li>3. Search Proxy rejects the request with an HTTP 400 (Bad request) error response.</li> </ol>

### 5.10.2.4 XDM-2.0-int-1053 Invalid search request – invalid collection input function (Includes Optional Features for XDMC)

<b>Test Case Id</b>	XDM-2.0-int-1053
<b>Test Object</b>	UE with XDMC, Aggregation Proxy, Search Proxy
<b>Test Case Description</b>	Verify that a Search Proxy provides error response back when using an invalid collection input function in the request body.
<b>Specification Reference</b>	[OMA_XDM_CORE] 6.4.1.1
<b>SCR Reference</b>	XDM_Core-SRC-C-001-O
<b>ETR Reference</b>	SRC-002
<b>Tool</b>	Not available.
<b>Test code</b>	Not available.

<b>Preconditions</b>	<ul style="list-style-type: none"> <li>• Equipment:                         <ul style="list-style-type: none"> <li>○ UE (with User1 credentials)</li> <li>○ Aggregation Proxy</li> <li>○ Search Proxy</li> </ul> </li> <li>• Prerequisite for this test:                         <ul style="list-style-type: none"> <li>○ XDM-2.0-int-0100 executes successfully.</li> <li>○ XDMC uses a collection input function in the request body (XQuery expression) that is not recognized as known Application Usage.</li> </ul> </li> </ul>
<b>Test Procedure</b>	<ol style="list-style-type: none"> <li>1. UE1 is powered on.</li> <li>2. User 1 submits a search to find User 2 by a given profile (Age, Gender, Intention, City or Country).</li> <li>3. XDMC forwards the query to the Search Proxy via the Aggregation Proxy.</li> </ol>
<b>Pass-Criteria</b>	<ol style="list-style-type: none"> <li>3. Search Proxy rejects the request with an HTTP 409 (Conflict) error response.</li> </ol>

**5.10.2.5 XDM-2.0-int-1054 Invalid search request – unknown user domain (Includes Optional Features for XDMC)**

<b>Test Case Id</b>	XDM-2.0-int-1054
<b>Test Object</b>	UE with XDMC, Aggregation Proxy, Search Proxy
<b>Test Case Description</b>	Verify that a Search Proxy provides error response back when part of the collection function is not recognized as a known user domain.
<b>Specification Reference</b>	[OMA_XDM_CORE] 6.4.1.1
<b>SCR Reference</b>	XDM_Core-SRC-C-001-O
<b>ETR Reference</b>	SRC-002
<b>Tool</b>	Not available.
<b>Test code</b>	Not available.
<b>Preconditions</b>	<ul style="list-style-type: none"> <li>• Equipment:                         <ul style="list-style-type: none"> <li>○ UE (with User1 credentials)</li> <li>○ Aggregation Proxy</li> <li>○ Search Proxy</li> </ul> </li> <li>• Prerequisite for this test:                         <ul style="list-style-type: none"> <li>○ XDM-2.0-int-0100 executes successfully.</li> <li>○ XDMC uses a collection input function in the request body (XQuery expression) that is not recognized as known user domain.</li> </ul> </li> </ul>
<b>Test Procedure</b>	<ol style="list-style-type: none"> <li>1. UE1 is powered on.</li> <li>2. User 1 submits a search to find User 2 by a given profile (Age, Gender, Intention, City or Country).</li> <li>3. XDMC forwards the query to the Search Proxy via the Aggregation Proxy.</li> </ol>

<b>Pass-Criteria</b>	3. Search Proxy rejects the request with an HTTP 409 (Conflict) error response.
----------------------	---------------------------------------------------------------------------------

## 5.11 Compression Test Cases

### 5.11.1 Normal flow

### 5.11.2 Error flow

Not available.

## 5.12 Backwards Compatibility Test Cases

### 5.12.1 Normal flow

### 5.12.2 Error flow

Not available.

## Appendix A. Change History (Informative)

### A.1 Approved Version History

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

### A.2 Draft/Candidate Version 2.0 History

Document Identifier	Date	Sections	Description
Draft Versions OMA-ETS-XDM_INT-V2_0	09 Jan 2007	All	Based on the template and the ETS from XDM V1.0. Checked for XDM V1.0 test case applicability.
	26 Jan 2007	All	Removed XDM V1.0 test cases and replaced by references to XDM V1.0 ETS. Added XDM V2.0 test cases.
	19 Jun 2007	n/a	IOP-MEC agreed draft
	28 Jan 2008	All	Implemented CRs: OMA-IOP-MEC-2007-0164R01 OMA-IOP-MEC-2007-0165 OMA-IOP-MEC-2007-0167 OMA-IOP-MEC-2007-0168 OMA-IOP-MEC-2007-0169R01 OMA-IOP-MEC-2007-0170
	01 Aug 2008	5.	CR incorporated: OMA-IOP-MEC-2008-0129
	16 Dec 2008	All	Splitted ETS in interoperability and conformance.
	28 Jul 2009	n/a	Editorial updates
Candidate Versions OMA-ETS-XDM_INT-V2_0	18 Aug 2009	n/a	TP approval: OMA-TP-2009-0349-INP_XDM_2.0_ETS_for_Candidate_approval