



Enabler Test Report XDM v1.0

OMA Test Fest (Nov 2005)
Version 24-Nov-2005

Open Mobile Alliance
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1. Scope

This report describes the results from the testing carried out at OMA TestFest11 November 2005 concerning XDM version 1.0.

2. References

2.1 Normative References

- [OMAIOPPROC] OMA Interoperability Policy and Process, <http://www.openmobilealliance.org/>
- [XDMEICS] Enabler Implementation Conformance Statement for XDM
Version 27-May-2005
<http://www.openmobilealliance.org/>
- [ERELD] Enabler Release Document for XDM
<http://www.openmobilealliance.org/>
- [EPTR] Enabler Product Test Report
- [ETP] Enabler Test Plan
- [ETS] Enabler Test Specification for XML Document Management (Interoperability) – 19 July 2005
<http://www.openmobilealliance.org/>
- [Shared-XDM-SPEC] “Shared XDM Specification”, Open Mobile Alliance™, OMA-TS-XDM_Shared-V1_0,
[URL:http://www.openmobilealliance.org/](http://www.openmobilealliance.org/)
- [TS-XDM-CORE-SPEC] “XDM Specification”, Open Mobile Alliance™, OMA-TS-XDM_Core-V1_0,
[URL:http://www.openmobilealliance.org/](http://www.openmobilealliance.org/)

2.2 Informative References

- [OMADICT] Dictionary for OMA Specification, OMA-Dictionary
<http://www.openmobilealliance.org/>

3. Terminology and Conventions

3.1 Conventions

This is an informative document, i.e. the document does not intend to contain normative statements.

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)
UE[N]	-	A client terminal used for testing where N is an integer number (i.e. UE1, UE2 etc.)
URI List	-	Number of URIs grouped together and as a list confirming to the definition in [OMA-TS_XDM_Shared]
Contact List		PoC Enabler specific usage of a URI List.

3.3 Abbreviations

AS	Application Specific Server
CP	Control Plane
EICS	Enabler Implementation Conformance Statement
IMS	IP multimedia subsystem
OMA	Open Mobile Alliance
PoC	Push to Talk over cellular.
SIP	Session Initiation Protocol
UE	User Equipment
XDM	XML Document Management
3GPP	3rd Generation Partnership Project

4. Summary

This report gives details of the testing carried out during the OMA TestFest11 (November 2005) for XDM v1.0.

The report is compiled on behalf of OMA by the OMA Trusted Zone.

The work and reporting has followed the OMA IOP processes and policies [OMAIOPPROC].

5. Test Details

5.1 Documentation

This chapter lists the details of the enabler and any documentation, tools or test suites used to prove the enabler.

Date:	8 th to 15 th November 2005
Location:	Dusseldorf, Germany
Enabler:	XDM v1.0
Process:	OMA Interoperability Policy and Process [OMAIOPPROC]
Type of Testing	Interoperability Testing
Products tested:	Client-to-server, Client-to-Client
Test Plan:	XDM Enabler Test Plan [ETP]
Test Specification:	XDM Enabler Test Specification [ETS]
Test Tool:	None
Test Code:	None
Type of Test event:	Test Fest
Participants:	Asmobile Communication Inc.; Celtius Ltd; Comneon GmbH & Co OHG; Ecrio Inc; Ericsson AB(2 products); fg microtec; Motorola(2 products); Nokia(2 products); Obigo AB; Sonim Technologies(2 products); Sony Ericsson
Number of Client Products:	11
Participating Technology Providers for clients:	Asmobile Communication Inc.; Comneon GmbH & Co OHG; Ecrio Inc; Ericsson AB; fg microtec; Motorola; Nokia; Obigo AB; Sonim Technologies; Sony Ericsson <i>And 1 other participant</i>
Number of Server Products:	6
Participating Technology Providers for servers:	Celtius Ltd; Ericsson; Motorola; Nokia; Siemens AG; Sonim Technologies
Number of test sessions completed:	78 of 86

5.2 Test Case Statistics

5.2.1 Test Case Summary

This chapter gives an overview of the result for all test cases included in [ETS].

The following status is used in the tables below:

- **Total number of TCs:** Used in the summary to indicate how many test cases there are in total.
- **Number of passed:** Used in the summary to indicate how many of the total test cases successfully passed.
- **Number of failed:** Used in the summary to indicate how many of the total test cases failed.
- **Number of N/A:** Used in the summary to indicate how many of the total test cases have not been run due to one of the implementations not supporting the functionality required to run this test case.
- **Number of OT:** Used in the summary to indicate how many of the total test cases have not been run due to no time to run the test case.
- **Number of INC:** Used in the summary to indicate how many of the total test cases have not been run due to functionality not being tested due to an error in the implementation or other functionality that is required to run this test case.

Test Section:	Number of test sessions:	Total number of TCs:	Number of Passed:	Number of Failed:	Number of N/A:	Number of OT:	Number of INC:	Total:
Client to Server TCs	78	2	121	17	9	4	5	156
Client to Server to Client TCs	78	23	361	41	596	651	145	1794
Total	78	25	482	58	605	655	150	1950

5.2.2 Test Case List

This chapter lists the statistics for all test cases included in [ETS].

The following status is used in the tables below:

- **No. of runs(R):** Used to indicate how many times the test cases have been run in total.
- **No. of passed(P):** Used to indicate how many times the test case has been run with successful result.
- **No. of failed(F):** Used to indicate how many times the test case has been run with failed result
- **No. of OT(O):** Used to indicate how many times the test case has not been run due to no time available.
- **No. of INC(I):** Used to indicate how many times the test case has not been run due to errors being found in other functionality required for running this test case.
- **PR:** Used to indicate if any PRs (Problem Reports) have been issued during testing.
- **Note:** Used to indicate the cause of Inconclusive or Fail verdicts.

Test Case:	Test Case Description:	R	P	F	O	I	PR:	Note:
XDM-1.0-int-M-0100	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.	78	62	11	2	3		
XDM-1.0-int-M-0150	Verify that the Aggregation Proxy rejects too many failed authentication attempts by the UE. <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.	69	59	6	2	2		
XDM-1.0-int-M-0200	Verify that the UE can create and retrieve an XML document from the Shared XDMS. <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.	53	29	8	9	7		

XDM-1.0-int-M-0201	<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>	53	28	1	15	9		
XDM-1.0-int-M-0202	<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>	53	29	2	13	9		
XDM-1.0-int-M-0203	<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>	53	28	3	12	10		
XDM-1.0-int-M-0300	<p>Verify that the user can create and retrieve an XML document from the PoC XDMS.</p> <p><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.</p>	76	45	11	15	5		
XDM-1.0-int-M-0301	<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>	76	34	2	31	9		

XDM-1.0-int-M-0302	<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>	76	33	1	33	9		
XDM-1.0-int-M-0303	<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>	76	32	2	33	9		
XDM-1.0-int-M-0304	<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>	77	36	1	32	8		
XDM-1.0-int-M-0400	<p>Verify that the user can create and retrieve an XML document from the Presence XDMS.</p> <p><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.</p>	47	3	4	32	8		
XDM-1.0-int-M-0401	<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>	46	4	0	34	8		
XDM-1.0-int-M-0402	<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>	44	2	1	36	5		

XDM-1.0-int-M-0403	Verify that the UE can modify and retrieve XML elements and documents from the Presence XDMS. <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.	44	2	0	37	5		
XDM-1.0-int-M-0404	Verify that the UE can delete XML elements from the Presence XDMS. <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.	45	3	0	38	4		
XDM-1.0-int-M-0405	Verify that the UE can delete an XML document from the Presence XDMS. <u>TEST CASE GOAL:</u> Delete the Presence Authorization Rules document stored in the Presence XDMS and verify that the document no longer exists in the Presence XDMS.	43	1	0	38	4		
XDM-1.0-int-M-0500	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.	38	5	1	28	4		
XDM-1.0-int-M-0501	Verify that the user can retrieve an XML document from the RLS XDMS. <u>TEST CASE GOAL:</u> Verify retrieval of Presence Lists document.	38	5	0	28	5		
XDM-1.0-int-M-0502	Verify that the UE can create and retrieve XML elements from the RLS XDMS. <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.	38	4	0	30	4		

XDM-1.0-int-M-0503	Verify that the UE can modify and retrieve XML elements and documents from the RLS XDMS. <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.	32	1	0	28	3		
XDM-1.0-int-M-0504	Verify that the UE can delete XML elements from the RLS XDMS. <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.	38	6	0	29	3		
XDM-1.0-int-M-0505	Verify that the UE can delete an XML document from the RLS XDMS. <u>TEST CASE GOAL:</u> Delete the Presence Lists document stored in the RLS XDMS and verify that the document no longer exists in the RLS XDMS.	30	1	0	26	3		

Table 1. Mandatory Test Case Counts

Test Case:	Test Case Description:	R	P	F	O	I	PR:	Note:
XDM-1.0-int-O-0200	Verify that the user can modify and retrieve an element of an XML document. TEST CASE GOAL: 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.	54	14	1	33	6		
XDM-1.0-int-O-0300	Verify that the user can modify and retrieve an XML document by modifying its element. TEST CASE GOAL: 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.	68	16	3	41	8		

Table 2. Optional Test Case Counts

5.2.3 Problem Reports

During the activities for TestFest11, the following problem reports were generated relating to the test materials and test process:

PR Number	Affecting	Description	Test Case reference / Specification reference
0001	Specification	While creating a poc groups and poc rules problem in referring the name space for and some other elements element	XDM Core Specification
0002	ETS	No TLS, but also no qop=auth-int	XDM-1.0-int-M-0100
0003	ETS	Mutual authentication without rspauth	XDM-1.0-int-M-0100
0004	ETS	Specifications mismatch for child element ()	XDM-1.0-int-M-400
0005	Specification	Two mandatory TLS ciphers	Enabler Release Definition
0006	ETS	Incompleteness of XDM test specification	-
0007	ETS	Verification by second client in every TC	-
0008	ETS	The Presence Authorization Rules draft-ietf-sipmlp-presence-rules-03 has incomplete definition of the provide-all-attributes element	-
0009	ETS	There is a major misunderstanding of the rules and policies of a test session among the participants in the XDM Enabler.	-
0010	ETS	XDM-1.0-int-M-0150 should be tested before XDM-1.0-int-M-0100 and the required result of XDM-1.0-int-M-0150 before running M-0100 should be stated using the defined appropriate status.	XDM-1.0-int-M-0100 and XDM-1.0-int-M-0150
0011	Specification	Digest authentication username with or without "sip:", should it be the same as the XUI?	XDM Core Specification
0012	Specification	Inconsistent PoC XDM Specification for element "join-handling"	XDM Core Specification
0013	ETS	All test cases automatically fail if either XDM-1.0-int-M-0150 or XDM-1.0-int-M-0100 fails	All test cases
0014	ETS	Interoperable problem between clients occurred when clients used different filenames storing their URI lists.	XDM-1.0-int-M-0200, 0201, 0202, 0203
0015	ETS	Both UE are required to use the same name for the URI list as well as that both UE displays the same list, there is no support for this in the specifications.	XDM-1.0-int-M-0200, 201, 202, 203
0016	ETS	Problems were encountered with clients using different approaches at how users are added to rules, groups, and rls documents, resulting in that the test cases fail.	XDM-1.0-int-M-0300 - 0303, XDM-1.0-int-0400 - 0404
0017	ETS	Shared XDM Compliance and Non-compliance causes test session failures	All test cases

Full details of the Problem Reports can be found at: <http://www.opengroup.org:8000/OMA-PR/>

6. Confirmation

This signature states that the included information is true and valid.

A handwritten signature in black ink, appearing to read "Alan P. [unclear]", written over a horizontal line.

OMA Trusted Zone

Appendix A. Change History

(Informative)

Type of Change	Date	Section	Description