



Enabler Test Report XML Document Management (XDM) v1.0

OMA TestFest (Jun 2006)
Version 07-Jul-2006

Open Mobile Alliance
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1. Scope

This report describes the results from the testing carried out at OMA TestFest-15 (June 2006) concerning XML Document Management (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 PoC XDM (Interoperability) - Candidate Version 1.0.1 – 2 May 2006
Enabler Test Specification for Presence XDM (Interoperability) - Approved Version 1.0.1 – 20 December 2005
Enabler Test Specification for RLS XDM (Interoperability) - Approved Version 1.0.1 – 20 December 2005
Enabler Test Specification for XML Document Management (Interoperability) - Draft Version 1.0.1 – 5 May 2006
<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 TestFest-15 (June 2006) for XML Document Management (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:	25th – 30th June 2006
Location:	Belfast, Northern Ireland, UK
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:	TestFest
Participants:	Comneon GmbH & Co. OHG, fg microtec, LG Electronics Inc., Motorola Inc, Nokia Oyj, Sony Ericsson Mobile Communications, Motorola, Nokia Networks <i>Plus one other participant company</i>
Number of Client Products:	7
Participating Technology Providers for clients:	Comneon GmbH & Co. OHG, fg microtec, LG Electronics Inc., Motorola Inc, Nokia Oyj, Sony Ericsson Mobile Communications <i>Plus one other participant client</i>
Number of Server Products:	2
Participating Technology Providers for servers:	Motorola, Nokia Networks
Number of test sessions completed:	28

Table 1. Test Information

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	28	8	124	0	42	6	52	224
Client to Server to Client TCs	28	43	452	1	195	237	318	1203
Total	28	51	576	1	237	243	370	1427

Table 2. Test Summary Table

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.

Tests for XDM Enabler TestFest From OMA-ETS-XDM_INT-V1_0-20060505-D

Test Case	Test Case Description	Test Case Counts					PR	Notes (See Below)
		Run	Pass	Fail	OT	INC		
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.	25	25	0	0	0		
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.	20	20	0	0	0		

Test Case	Test Case Description	Test Case Counts					PR	Notes (See Below)
		Run	Pass	Fail	OT	INC		
XDM-1.0-int-M-0200	<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>	28	28	0	0	0		
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>	28	28	0	0	0		
XDM-1.0-int-M-0202	<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>	28	27	0	1	0		
XDM-1.0-int-M-0203	<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>	27	27	0	0	0		
XDM-1.0-int-M-0204	<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>	28	28	0	0	0		

Table 3. XDM Test Case Counts

Tests for XDM Enabler TestFest From

OMA-ETS-RLS_XDM_INT-V1_0-20051220-A

Test Case	Test Case Description	Test Case Counts					PR	Notes (See Below)
		Run	Pass	Fail	OT	INC		
RLS-XDM-1.0-int-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.	24	10	0	1	13		
RLS-XDM-1.0-int-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.	22	8	0	1	13		
RLS-XDM-1.0-int-0200	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.	22	8	0	1	13		
RLS-XDM-1.0-int-0201	Verify that the user can retrieve an XML document from the RLS XDMS. <u>TEST CASE GOAL:</u> Verify retrieval of Presence Lists document.	22	8	0	1	13		
RLS-XDM-1.0-int-0202	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.	21	8	0	1	12		

Test Case	Test Case Description	Test Case Counts					PR	Notes (See Below)
		Run	Pass	Fail	OT	INC		
RLS-XDM-1.0-int-0203	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.	20	6	0	1	13		
RLS-XDM-1.0-int-0204	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.	22	8	0	1	13		
RLS-XDM-1.0-int-0205	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.	21	7	0	1	13		

Table 4. RLS XDM Test Case Counts

Tests for XDM Enabler TestFest From

OMA-ETS-PoC_XDM_INT-V1_0-20060502-C

Test Case	Test Case Description	Test Case Counts					PR	Notes (See Below)
		Run	Pass	Fail	OT	INC		
PoC-XDM-1.0-int-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.	25	24	0	1	0		

Test Case	Test Case Description	Test Case Counts					PR	Notes (See Below)
		Run	Pass	Fail	OT	INC		
PoC-XDM-1.0-int-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.	20	19	0	1	0		
PoC-XDM-1.0-int-0200	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.	28	27	0	1	0		
PoC-XDM-1.0-int-0201	Verify that the UE can create and retrieve XML elements and attributes from the PoC XDMS. <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.	28	27	0	1	0		
PoC-XDM-1.0-int-0202	Verify that the user can modify and retrieve an XML document by modifying its element. <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.	28	26	1	1	0		
PoC-XDM-1.0-int-0203	Verify that the user can modify and retrieve an XML document and an element of an XML document. <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.	27	26	0	1	0		

Test Case	Test Case Description	Test Case Counts					PR	Notes (See Below)
		Run	Pass	Fail	OT	INC		
PoC-XDM-1.0-int-0204	Verify that a user can delete an element from an XML document. <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.	28	26	0	2	0		
PoC-XDM-1.0-int-0205	Verify that a user can delete an XML document from the XDMS. <u>TEST CASE GOAL:</u> Delete a "list-service" document describing a group from the PoC XDMS.	28	26	0	2	0		
PoC-XDM-1.0-int-0500	Verify that user is able to create multiple PoC Group documents. <u>TEST CASE GOAL:</u> Verify that multiple XML PoC group documents can be created in XDMS and retrieved from the XDMS by the user.	28	26	0	2	0		
PoC-XDM-1.0-int-0501	Verify that duplicate entry validation constraints is supported by the User and the PoC XDMS for the PoC Group document. <u>TEST CASE GOAL:</u> Verify that the user cannot add the same member to the same group twice. The PoC XDMS needs to validate the "Duplicate Entry" constraint and respond appropriately to the user. The UE needs to handle the response from the XDMS server correctly.	13	10	0	3	0		
PoC-XDM-1.0-int-0502	Verify that the exceeding maximum participants count validation constraint is supported by the User and the PoC XDMS for the PoC Group document. <u>TEST CASE GOAL:</u> Verify that PoC XDMS is able to interpret the <max-participant-count> element correctly when set to the value greater than PoC XDMS maximum value.	15	11	0	4	0		

Test Case	Test Case Description	Test Case Counts					PR	Notes (See Below)
		Run	Pass	Fail	OT	INC		
PoC-XDM-1.0-int-0503	Verify the usage of <invite-members> element in the PoC Group document. TEST CASE GOAL: Verify that the UEs supporting <invite-members> element can set and store the element correctly in PoC XDMS. Verify that PoC Server is able to read the element correctly from PoC XDMS and interpret it correctly.	17	0	0	7	10		
PoC-XDM-1.0-int-0504	Verify the usage of <invite-members> element in the PoC Group document. TEST CASE GOAL: Verify that PoC XDMS and the UEs can interpret correctly the default value of the <invite-members> element.	23	0	0	13	10		
PoC-XDM-1.0-int-0505	Verify the usage of <max-participants-count> element in the PoC Group document. TEST CASE GOAL: Verify that the UEs that support <max-participant-count> element can set and store the element correctly in PoC XDMS.	27	17	0	6	4		
PoC-XDM-1.0-int-0506	Verify the usage of <join-handling> element in the PoC Group document. TEST CASE GOAL: Verify that the UEs that support <join-handling> element can set and store the element correctly in PoC XDMS. <join-handling> element is a child of <action> element. <action> element is a child element of <rules> element.	23	0	0	13	10		
PoC-XDM-1.0-int-0507	Verify the usage of <join-handling> element in the PoC Group document. TEST CASE GOAL: Verify that PoC XDMS and the UEs can interpret correctly the default value of the <join-handling> element.	23	0	0	13	10		

Test Case	Test Case Description	Test Case Counts					PR	Notes (See Below)
		Run	Pass	Fail	OT	INC		
PoC-XDM-1.0-int-0508	Verify the usage of <allow-initiate-conference> element in the PoC Group document. TEST CASE GOAL: Verify that the UEs that support <allow-initiate-conference> element can set and store the element correctly in PoC XDMS. <allow-initiate-conference> element is a child of <action> element. <action> element is a child element of <rules> element.	23	0	0	13	10		
PoC-XDM-1.0-int-0509	Verify the usage of <allow-initiate-conference> element in the PoC Group document. TEST CASE GOAL: Verify that PoC XDMS and the UEs can interpret correctly the default value of the <allow-initiate-conference> element.	23	0	0	13	10		
PoC-XDM-1.0-int-0510	Verify the usage of <invite-additional-users-dynamically> element in the PoC Group document. TEST CASE GOAL: Verify that the UEs that support <invite-additional-users-dynamically> element can set and store the element correctly in PoC XDMS. <invite-additional-users-dynamically> element is a child of <action> element. <action> element is a child element of <rules> element.	23	0	0	13	10		
PoC-XDM-1.0-int-0511	Verify the usage of <invite-additional-users-dynamically> element in the PoC Group document. TEST CASE GOAL: Verify that PoC XDMS and the UEs can interpret correctly the default value of the <invite-additional-users-dynamically> element.	23	0	0	13	10		
PoC-XDM-1.0-int-0512	Verify the usage of <allow-anonymity> element in the PoC Group document. TEST CASE GOAL: Verify that the UEs that support <allow-anonymity> element can set and store the element correctly in PoC XDMS. <allow-anonymity> element is a child of <action> element. <action> element is a child element of <rules> element	23	0	0	13	10		

Test Case	Test Case Description	Test Case Counts					PR	Notes (See Below)
		Run	Pass	Fail	OT	INC		
PoC-XDM-1.0-int-0513	Verify the usage of <allow-anonymity> element in the PoC Group document. TEST CASE GOAL: Verify that PoC XDMS and the UEs can interpret correctly the default value of the <allow-anonymity> element.	23	0	0	13	10		
PoC-XDM-1.0-int-0514	Verify the usage of <allow-conference-state> element in the PoC Group document. TEST CASE GOAL: Verify that the UEs that support <allow-conference-state> element can set and store the element correctly in PoC XDMS. <allow-conference-state> element is a child of <action> element. <action> element is a child element of <rules> element	23	0	0	13	10		
PoC-XDM-1.0-int-0515	Verify the usage of <allow-conference-state> element in the PoC Group document. TEST CASE GOAL: Verify that PoC XDMS and the UEs can interpret correctly the default value of the <allow-conference-state> element.	23	0	0	13	10		
PoC-XDM-1.0-int-0516	Verify the usage of <is-key-participant> element in the PoC Group document. TEST CASE GOAL: Verify that the UEs that support <is-key-participant> element can set and store the element correctly in PoC XDMS. <is-key-participant> element is a child of <action> element. <action> element is a child element of <rules> element	23	0	0	13	10		
PoC-XDM-1.0-int-0517	Verify the usage of <is-key-participant> element in the PoC Group document. TEST CASE GOAL: Verify that PoC XDMS and the UEs can interpret correctly the default value of the <is-key-participant> element.	23	0	0	13	10		

Test Case	Test Case Description	Test Case Counts					PR	Notes (See Below)
		Run	Pass	Fail	OT	INC		
PoC-XDM-1.0-int-0600	Verify the usage of <allow-invite> element in the PoC User Access Policy document. TEST CASE GOAL: Verify that the UEs that support <allow-invite> element can set and store the element correctly in PoC XDMS. <allow-invite> element is a child of <action> element. <action> element is a child element of <rules> element.	23	2	0	12	9		
PoC-XDM-1.0-int-0601	Verify the usage of <allow-invite> element in the PoC Group document. TEST CASE GOAL: Verify that PoC XDMS and the UEs can interpret correctly the default value of the <allow-invite> element.	23	0	0	13	10		

Table 5. PoC XDM Test Case Counts

**Tests for XDM Enabler TestFest From
OMA-ETS-Presence_XDM_INT-V1_0-20051220-A**

Test Case	Test Case Description	Test Case Counts					PR	Notes (See Below)
		Run	Pass	Fail	OT	INC		
Presence-XDM-1.0-int-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.	24	10	0	1	13		
Presence-XDM-1.0-int-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.	22	8	0	1	13		

Test Case	Test Case Description	Test Case Counts					PR	Notes (See Below)
		Run	Pass	Fail	OT	INC		
Presence-XDM-1.0-int-0200	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.	22	8	0	1	13		
Presence-XDM-1.0-int-0201	Verify that the user can retrieve an XML document from the Presence XDMS. <u>TEST CASE GOAL:</u> Verify retrieval of Presence Authorization Rules document.	22	8	0	1	13		
Presence-XDM-1.0-int-0202	Verify that the UE can create and retrieve XML elements from the Presence XDMS. <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.	21	7	0	1	13		
Presence-XDM-1.0-int-0203	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.	22	8	0	1	13		
Presence-XDM-1.0-int-0204	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.	21	7	0	1	13		

Test Case	Test Case Description	Test Case Counts					PR	Notes (See Below)
		Run	Pass	Fail	OT	INC		
Pre6ence-XDM-1.0-int-0205	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.	21	7	0	1	13		

Table 6. Presence XDM Test Case Counts

5.2.3 Problem Reports

During the activities for TestFest-15, the following problem reports were generated relating to the test materials and test process:

PR Number	Affecting	Description	Test Case reference / Specification reference
0022	Specification	Issue in schema urn:ietf:params:xml:ns:resource-lists	2.1 Normative references/OMA-TS-XDM_Shared-V1_0-20050415-C

Full details of all Problem Reports can be found at:

<http://www.openmobilealliance.org/OMA-Problem-Reporting-System.html>

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]", with a horizontal line extending to the right.

OMA Trusted Zone

Appendix A. Change History (Informative)

Type of Change	Date	Section	Description
Initial Release	7 th July 2006	All	Initial Report from TestFest-15