Enabler Test Report

Presence SIMPLE v1.0.1

OMA TestFest (November 2007)
Version 23rd November 2007

Open Mobile Alliance
OMA-EnablerTestReport-TestFest-21-Nov-2007-PRS-101-20071123

Contents

1. Scope

This report describes the results from the testing carried out at OMA TestFest-21 (November 2007) concerning the Presence SIMPLE Version 1.0.1 Enabler.

2. References

2.1 Normative References

[IOPPROC] "OMA Interoperability Policy and Process", Version 1.3, Open Mobile Alliance™, OMA-ORG-IOP_Process-V1_3, URL:http://www.openmobilealliance.org/

[RFC2119] "Key words for use in RFCs to Indicate Requirement Levels", S. Bradner, March 1997, URL:http://www.ietf.org/rfc/rfc2119.txt

[ERELD] "Enabler Release Definition for Secure User Plane for Location", OMA-ERELD-Presence_Simple-V1_0_1-20061128-A, URL:http:www.openmobilealliance.org

[ERP] "Enabler Release Package", OMA-ERP-Presence_SIMPLE-V1_0_1-20061128-A URL:http:www.openmobilealliance.org

[ETG] "Enabler Test Guidelines", OMA-ETG-SUPL-V1_0-20071004-A,

URL:http:www.openmobilealliance.org

[ETS] "Enabler Test Specification" for Presence SIMPLE (Interoperability), OMA-ETS-Presence_SIMPLE_INT-V1_0-20060606-C, URL:http:www.openmobilealliance.org

"Enabler Test Specification" for Presence XDM (Interoperability), OMA-ETS-Presence_XDM_INT-V1_0-20051220-A, URL:http:www.openmobilealliance.org

"Enabler Test Specification" for RLS XDN (Interoperability), OMA-ETS-RLS_XDM_INT-V1_0-20051220-A, URL:http:www.openmobilealliance.org

[EICS] "Enabler Implementation Conformance Statement", OMA-EICS-Presence_SIMPLE-Client-V1_0-20060117-A, http://www.openmobilealliance.org/

"Enabler Implementation Conformance Statement", OMA-EICS-Presence_SIMPLE-Server-V1_0-20060117-A, http://www.openmobilealliance.org/

2.2 Informative References

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

[OMAADPRESS] Stage 2 – Presence using SIMPLE, OMA-AD-Presence_SIMPLE-V1_0

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

Test Case	A Test Case is an individual test used to verify the conformance of the Test Object to a particular mandatory feature of the protocol. A 4-digit number identifies Test Cases where the first two digits denote the Test Group ID.
Test Object	The implementation under test is referred to as the Test Object. In this document, the Client.
TestFest	Multi-lateral interoperability testing event
Trusted Zone	An OMA staff function to provide a neutral confidential information and results collection service to OMA Members. The Trusted Zone is responsible for all reports resulting from an OMA Test Event and to ensure that all general reports cannot attributed to any one individual participating company
User	A Person using UE
User[N]	A subscriber assigned to UE, where N is an integer number (i.e. User1, User 2)
UE[N]	A client terminal used for testing where N is an integer number (i.e. UE1, UE2 etc)

3.3 Abbreviations

AD	Architecture Document
EICS	Enabler Implementation Conformance Statement
ERELD	Enabler Release Definition
ERP	Enabler Release Package
ETG	Enabler Test Guidelines
ETS	Enabler Test Specification
IMS	IP Multimedia Subsystem
INC	Inconclusive
IP	Internet Protocol
N/A	Not Applicable
OMA	Open Mobile Alliance
OT	Out of Time
PoC	Push to talk over Cellular
PR	Problem Report
PS	Presence Server
RD	Requirements Document

RLS	Resource List Server
SCTS	SnycML Conformance Test Suite
SIP	Session Initiation Protocol
SUPL	Secure User Plane for Location
TC	Test Case
UE	User Equipment
URI	Universal Resource Identifier
URL	Uniform Resource Locator
V-SLP	Visited SLP
WAP	Wireless Application Protocol
XCAP	XML Configuration Access Protocol
XDM	XML Document Management
XDMC	XML Document Management Client
XDMC	XDM Client
XDMS	XML Document Management Server
XML	Extensible Mark-up Language

4. Summary

This report gives details of the testing carried out during the OMA TestFest-21 (November 2007) for Presence SIMPLE (PRS) v1.0.1.

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:	9th to 16th November 2007
Location:	Bled, Slovenia
Enabler:	SUPL v1.0
Process:	OMA Interoperability Policy and Process [OMAIOPPROC]
Type of Testing	Interoperability Testing
Products tested:	Client-to-Server-Client
Test Guidelines:	SUPL Enabler Test Guidelines [ETG] – None.
Test Specification:	PRS Enabler Test Specifications - OMA-ETS-Presence_SIMPLE_INT-V1_0-20060606-C - OMA-ETS-Presence_XDM_INT-V1_0-20051220-A, - OMA-ETS-RLS_XDM_INT-V1_0-20051220-A [ETS]
Test Tool:	None
Test Code:	None
Type of Test event:	TestFest
Participants:	Nokia Siemens Networks, Qualcomm, Samsung India Software Operations, Colibria AS, Ericsson AB
Number of Client Implementations:	4
Participating Technology Providers for clients:	Nokia Siemens Networks, Qualcomm, Samsung India Software
Implementation IDs for each client:	PEP, PRS client 3.0, Swift IMS plus one other client
Number of Server Implementations:	3
Participating Technology Providers for servers:	Colibria AS, Ericsson AB, Nokia Siemens Networks
Implementation IDs for each server:	Colibria Presence SIMPLE, Ericsson PGM, MPM
Number of test sessions completed:	29

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 testcases that successfully has been passed.
- Number of failed: Used in the summary to indicate how many of the total testcases that has failed.
- Number of N/A: Used in the summary to indicate how many of the total testcases that has not be run due to that the implementation(s) do not support the functionality required to run this test case.
- Number of OT: Used in the summary to indicate how many of the total testcases that has not be run due to no time to run the test case.
- Number of INC: Used in the summary to indicate how many of the total testcases that has not been run due to that the functionality could not be tested due to an error in the implementation in another 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	4	6	21	0	3	0	0	24
Client to Server to Client TCs	16	28	262	3	127	52	4	448
Client to Server to 2 Clients TCs	9	13	49	0	58	10	0	117
Total	29	47	332	3	188	62	4	589

Table 1. Test Summary Table

5.2.2 Test Case List

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

The following status is used in the tables below:

- **Runs (R)**: Used to indicate the total number of times the test case have been run (R = P + F + I).
- **Pass (P):** Used to indicate how many times the test case have been run and successfully passed.
- **Fail (F):** Used to indicate how many times the test cases have been run and failed (used when the failure reason is known).
- **Inconclusive (I)**: Used to indicate how many times the test cases have been run and did not pass due to other nature than conclusive implementation or specification failure (e.g.: the failure reason cannot be clearly determined).
- **Not Applicable (N/A):** Used to indicate how many times the test cases have not be run due to lack of support for the required functionality to run this test case by one or more involved implementations.
- **Out of Time (O):** Used to indicate how many times the test cases have not been run due to lack of time.
- **Problem Report (PR):** Used to indicate how many PRs have been issued for the test case.
- **Note:** Used to indicate the cause of the Inconclusive or Failed results.

Tests for PRS v1.0.1 Enabler TestFest taken from

Test Case id:	Description:	Test Counts						PR:	Note:
		R	P	F	O	I	N/A		
Presence-1.0-int-0100	Verify that presence information published by an UE will be received by another UE, which subscribes for that information. TEST CASE GOAL: Verify that when UE1 publishes presence information, UE2, as Watcher, will receive the presence information.	15	15	0	1	0	0		
Presence-1.0-int-0101	Verify that presence information modified by an UE will be displayed accordingly in another UE, which subscribes for that information. TEST CASE GOAL: Verify that when User1 modifies presence information, User2, as Watcher, will receive the updated presence information.	15	15	0	1	0	0		

Test Case id:	Description:	Test Counts						PR:	Note:
		R	P	F	O	I	N/A		
Presence-1.0-int-0102	Verify that presence publications terminated by an UE will be displayed in another UE. TEST CASE GOAL: Verify that when User1 terminates its presence publication, User2, as Watcher, will be displayed.	15	13	0	1	2	0		
Presence-1.0-int-0104	An UE, acting as a Watcher terminates its subscriptions, and another UE, the presence source, updates the presence information. TEST CASE GOAL: Verify that a Watcher, which has terminated its subscription, does not display any presence updates.	15	15	0	1	0	0		
Presence-1.0-int-0105	Verify that Presence Server keeps sending presence information to a UE, acting as a watcher, after subscription refresh. TEST CASE GOAL: Verify that a UE retrieves and displays the presence information after the subscription refresh.	15	15	0	1	0	0		
Presence-1.0-int-0106	Verify that presence information modified by an UE via partial publication will be displayed accordingly in another UE, which subscribes for that information. TEST CASE GOAL: Verify that when User1 modifies presence information via partial publication, User2, as Watcher, will receive the updated presence information.	4	4	0	1	0	11		

Test Case id:	Description:	Test Counts						PR:	Note:
		R	P	F	O	I	N/A		
Presence-1.0-int-0107	Verify that a Presence Server can store and manage presence information coming from multiple UEs, acting as Presence Sources and related to several Users, and correctly notify one UE, acting as a Watcher the presence information. TEST CASE GOAL: Verify that a UE, acting as a Watcher, is able to display the presence information when subscribing to presence information of several other users.	9	9	0	0	0	0		
Presence-1.0-int-0108	Verify that presence information modified by an UE will be displayed accordingly in another UE, which subscribes via partial subscription to that information. TEST CASE GOAL: Verify that when User1 modifies presence information, User2, as Watcher, will receive the updated presence information via partial notification.	2	2	0	1	0	13		
Presence-1.0-int-0109	Verify that a User is able to define policies so that different presence information can be sent to different Users, acting as Watchers. TEST CASE GOAL: Verify that a User, acting as a Presentity can allow one User to see a different presence content than another User, acting as Watchers.	7	7	0	0	0	2		
Presence-1.0-int-0110	Verify that a User is able to define policies so that the same presence information elements but with different can be sent to different Users, acting as Watchers. TEST CASE GOAL: Verify that a User, acting as a Presentity can allow one User to see the same presence information elements but with different values than another User, acting as Watchers.	1	1	0	0	0	8		

Test Case id:	Description:	Test Counts						PR:	Note:
		R	P	F	O	I	N/A		
Presence-1.0-int-0111	Verify that a Presence Server supports the combination of different presence information elements of a particular User coming from different UEs, acting as presence sources. TEST CASE GOAL: Verify that a Presence Server is able to apply presence composition rules, and notify a UE, acting as a Watcher, the correct presence information.	2	2	0	0	0	7		
Presence-1.0-int-0120	Verify that a UE successfully publishes and retrieves presence information by polling. TEST CASE GOAL: Verify that one user using Polling Subscription, will retrieve presence information from another user, which has an active publication.	9	9	0	1	0	6		
Presence-1.0-int-0121	Verify that a User is able to define policies so that defined presence information can be sent to an anonymous User, acting as a Watcher. TEST CASE GOAL: Verify that a User, acting as a Presentity can define the contents a User authenticated as anonymous and acting as a Watcher will see.	1	1	0	0	0	8		
Presence-1.0-int-0122	Verify that a User is able to define policies so that defined presence information can be sent to unspecified Users (not known in the Presence Rules document), acting as Watchers. TEST CASE GOAL: Verify that a User, acting as a Presentity can define the contents an unspecified User, acting, as a Watcher will see.	4	4	0	0	0	5		

Test Case id:	Description:	Test Counts						PR:	Note:
		R	P	F	O	I	N/A		
Presence-1.0-int-0123	Verify that a Presence Server can handle the Presence Rules document for groups of watchers stored in the Shared XDMS. TEST CASE GOAL: Verify that a UE, acting as a XDMC, can modify his permissions for groups of watcher stored in the Shared XDMS, and the PS handles these permissions properly.	9	9	0	1	0	6		
Presence-1.0-int-0124	Verify that a Presence Server can handle changes for the Presence Rules document for Watchers (individual Watchers or groups) stored in the Shared XDMS. TEST CASE GOAL: Verify that a UE, acting as a XDMC, can modify his permissions for individual watchers and/or groups of watcher stored in the Shared XDMS, and the PS handles these permissions properly.	2	2	0	0	0	7		
Presence-1.0-int-0130	Verify that User1 successfully publishes presence information. User2 will not be able to Subscribe to the presence information when blocked by User1. TEST CASE GOAL: Verify that when one user publishes presence information, another user, which is blocked, is not allowed to subscribe for presence information.	12	11	1	4	0	0		
Presence-1.0-int-0140	User2 will be able to Subscribe and receive notifications, but presence information will not be revealed, since the user is politely blocked. TEST CASE GOAL: Verify that when one user publishes presence information, another user, acting as Watcher, will be able to subscribe and receive notification, but presence information will not be revealed, since the user is politely blocked.	10	10	0	4	0	2		

Test Case id:	Description:	Test Counts						PR:	Note:
		R	P	F	O	I	N/A		
Presence-1.0-int-0141	Verify that a UE, acting as a Watcher, can subscribe using notification filtering and that the Presence Server applies filtering and notifies the correct information. TEST CASE GOAL: Verify that User2, acting as a Watcher, only gets the information that has been asked for.	4	4	0	2	0	10		
Presence-1.0-int-0142	Verify that a UE, acting as a Watcher, can subscribe using event notification filtering and that the Presence Server applies filtering and notifies the correct information whenever the filter is triggered. TEST CASE GOAL: Verity that User2, acting as a Watcher, only gets the information that has been asked for whenever the filter is triggered.	2	2	0	2	0	12		
Presence-1.0-int-0143	Verify that a watcher is notified of a specified subset of the presence information of a presentity, if the watcher falls into a group that the presentity decides to reveal a subset of his/her presence information to. TEST CASE GOAL: Verify that UE2 and UE3 display the information User1authorizes them to seeVerify that UE2 displays only the information UE1 authorizes for the group of which User2 is a member.	5	5	0	0	0	4	0028	
Presence-1.0-int-0144	Verify that a presentity can authorize a group of watchers to subscribe to his/her presence information when the request from that watcher arrives (Reactive Authorization). TEST CASE GOAL: Verify that UE1(the Presentity) can Reactively Authorize a group of watchers of which UE2 is a member..	9	7	0	2	2	5	0029	

Test Case id:	Description:	Test Counts						PR:	Note:
		R	P	F	O	I	N/A		
Presence-1.0-int-0145	Verify that presence information with non-OMA elements published by an UE will be handled correctly by another UE, which subscribes for that information. TEST CASE GOAL: Verify that when UE1 publishes presence information with non-OMA elements, UE2, as Watcher, will interpret correctly the OMA presence information elements and discard the non-OMA ones.	14	14	0	2	0	0		
Presence-1.0-int-0150	Verify that an RLS can handle subscriptions to resource lists and distribute notifications including presence information to the Watcher. TEST CASE GOAL: Verify that a UE, acting as a Watcher, is able to subscribe to a resource list with URI's to Presence Sources and be able to display presence information.	7	7	0	2	0	0		
Presence-1.0-int-0151	Verify that an RLS can handle subscriptions to resource lists and distribute notifications including presence information to the Watcher. TEST CASE GOAL: Verify that a UE, acting as a Watcher, is able to display presence information for a specific user, which is added to a resource list the Watcher owns and has an active subscription on.	4	4	0	0	0	5		
Presence-1.0-int-0152	Verify that an RLS can handle subscriptions to resource lists pointing to groups in the Shared XDMS, and distribute notifications including presence information to the Watcher. TEST CASE GOAL: Verify that a UE, acting as a Watcher, is able to subscribe to resource lists pointing to groups in the Shared XDMS and be able to display presence information.	3	3	0	4	0	2		

Test Case id:	Description:	Test Counts						PR:	Note:
		R	P	F	O	I	N/A		
Presence-1.0-int-0153	Verify that an RLS can handle subscriptions to resource lists pointing to groups in the Shared XDMS and distribute notifications including presence information to the Watcher. TEST CASE GOAL: Verify that a UE, acting as a Watcher, is able to display presence information for a specific user, which is added to a shared group pointed by a resource list the Watcher owns and has an active subscription on.	3	3	0	4	0	2		
Presence-1.0-int-0160	Verify that a UE, acting as a Watcher, can subscribe using event notification filtering to a resource list and that the Resource List Server applies filtering and notifies the correct information whenever the filter is triggered. TEST CASE GOAL: Verify that an RLS can handle event and content subscriptions to resource lists and distribute notifications to the Watcher including appropriate presence information whenever the filter is triggered.	1	1	0	0	0	8		
Presence-1.0-int-0200	Verify that a UE successfully Subscribes to Watcher Information TEST CASE GOAL: User1 subscribes to watcher information and will be notified when User2 subscribes to User1's presence information	11	11	0	1	0	4		
Presence-1.0-int-0210	Verify that UE successfully publishes and receives presence information after reactive authorization. TEST CASE GOAL: Verify that User1 successfully can subscribe for watcher information and is notified when User2 subscribes for User1's presence information. User1 then updates his Authorization Rules Document to allow User2 to see his presence. User2 will display User1's presence information.	10	9	1	2	0	4		

Test Case id:	Description:	Test Counts						PR:	Note:
		R	P	F	O	I	N/A		
Presence-1.0-int-0211	Verify that a Watcher Information Subscriber can receive notifications whenever one of the subscription to his/her Presence Information expires. TEST CASE GOAL: Verity that User1 (Watcher Information Subscriber) can get notifications whenever User2's subscription to User1's Presence Information expires.	10	9	1	2	0	4		
Presence-XDM-1.0-int-0100	Verify that UE can be successfully authenticated by the Aggregation Proxy when retrieving documents over the XCAP interface. TEST CASE GOAL: Verify that when the UE initiates the communication with an XDMS, the Aggregation Proxy authenticates it.	4	4	0	0	0	0		
Presence-XDM-1.0-int-0150	Verify that the Aggregation Proxy rejects too many failed authentication attempts by the UE. TEST CASE GOAL: Verify that the client will not be able to access XML documents during the initial communication attempt with an XDMS.	3	3	0	0	0	1		
Presence-XDM-1.0-int-0200	Verify that the user can create and retrieve an XML document from the Presence XDMS. TEST CASE GOAL: Verify creation and retrieval of Presence Authorization Rules document. This test case if for the UEs that are able to create the Presence Authorization Rules document.	11	11	0	2	0	3		
Presence-XDM-1.0-int-0201	Verify that the user can retrieve an XML document from the Presence XDMS. TEST CASE GOAL: Verify retrieval of Presence Authorization Rules document.	3	3	0	0	0	1		

Test Case id:	Description:	Test Counts						PR:	Note:
		R	P	F	O	I	N/A		
Presence-XDM-1.0-int-0202	Verify that the UE can create and retrieve XML elements from the Presence XDMS. TEST CASE GOAL: 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.	9	9	0	2	0	5		
Presence-XDM-1.0-int-0203	Verify that the UE can modify and retrieve XML elements and documents from the Presence XDMS. TEST CASE GOAL: 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.	9	9	0	2	0	5		
Presence-XDM-1.0-int-0204	Verify that the UE can delete XML elements from the Presence XDMS. TEST CASE GOAL: 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.	9	9	0	2	0	5		
Presence-XDM-1.0-int-0205	Verify that the UE can delete an XML document from the Presence XDMS. 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.	9	9	0	2	0	5		

Test Case id:	Description:	Test Counts						PR:	Note:
		R	P	F	O	I	N/A		
RLS-XDM-1.0-int-0100	Verify that UE can be successfully authenticated by the Aggregation Proxy when retrieving documents over the XCAP interface. TEST CASE GOAL: Verify that when the UE initiates the communication with an XDMS, the Aggregation Proxy authenticates it.	4	4	0	0	0	0		
RLS-XDM-1.0-int-0150	Verify that the Aggregation Proxy rejects too many failed authentication attempts by the UE. TEST CASE GOAL: Verify that the client will not be able to access XML documents during the initial communication attempt with an XDMS.	3	3	0	0	0	1		
RLS-XDM-1.0-int-0200	Verify that the user can create and retrieve an XML document from the RLS XDMS. TEST CASE GOAL: Verify creation and retrieval of Presence Lists document. This test case if for the UEs that are able to create the Presence Lists document.	11	11	0	2	0	3		
RLS-XDM-1.0-int-0201	Verify that the user can retrieve an XML document from the RLS XDMS. TEST CASE GOAL: Verify retrieval of Presence Lists document. .	4	4	0	0	0	0		
RLS-XDM-1.0-int-0202	Verify that the UE can create and retrieve XML elements from the RLS XDMS. TEST CASE GOAL: 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.	8	8	0	3	0	5		

Test Case id:	Description:	Test Counts						PR:	Note:
		R	P	F	O	I	N/A		
RLS-XDM-1.0-int-0203	Verify that the UE can modify and retrieve XML elements and documents from the RLS XDMS. TEST CASE GOAL: 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.	5	5	0	2	0	9		
RLS-XDM-1.0-int-0204	Verify that the UE can delete XML elements from the RLS XDMS. TEST CASE GOAL: Delete a service from the Presence Lists document stored in the RLS XDMS and verify that the service is removed from the RLS XDMS.	8	8	0	3	0	5		
RLS-XDM-1.0-int-0205	Verify that the UE can delete an XML document from the RLS XDMS. 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.	9	9	0	2	0	5		

Table 2. Test Case Counts

5.2.3 Problem Reports

During the activities for TestFest-21, the following problem reports were generated relating to the test materials and test process:

PR Number	Affecting	Description	Test Case reference / Specification reference
0028	OMA-ETS-Presence_SIMPLE_INT-V1_0-20060606-C	Unambiguity in test case Presence-1.0-int-0143	Presence-1.0-int-0143
0029	OMA-ETS-Presence_SIMPLE_INT-V1_0-20060606-C	With current wording there will be no reactive authorization because User2 is already authorized	Presence-1.0-int-0144

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.

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OMA Trusted Zone

Appendix A. Change History (Informative)

Type of Change	Date	Section	Description
New Version	23rd November 2007	All	First Version for TestFest-21