Enabler Test Report IMPS CSP v1.1

OMA Test Fest November 2003

Version 28-Nov-03

Open Mobile Alliance
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Contents

1. Scope

This report describes the results from the testing carried out at OMA Test Fest November 2003 concerning CSP v1.1 of the IMPS enabler.

2. References

2.1 Normative References

[OMAIOPPROC]	OMA Interoperability Policy and Process, http://www.openmobilealliance.org/
[IMPSEICS]	IMPS CSP version 1.1 Enabler Implementation Conformance Statement (EICS), http://www.openmobilealliance.org/
[ERELD]	OMA IMPS CSP version 1.1 Enabler Release Definition
[IMPS_SPEC]	OMA IMPS CSP 1.1 specifications
[EPTR]	Enabler Product Test Report
[ETP]	Enabler Test Plan
[ETS]	Enabler Test Specification for OMA IMPS CSP 1.1, OMA-IOP-IMPS-2003-0037-D

2.2 Informative References

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

None.

3.3 Abbreviations

EICS	Enabler Implementation Conformance Statement
EPTR	Enabler Product Test Report
ETP	Enabler Test Plan
ETS	Enabler Test Specification
IMPS	Instant Messaging Presence Service
OMA	Open Mobile Alliance
PR	Problem Report

4. Summary

This report gives details of the testing carried out during the OMA Test Fest November 2003 for IMPS CSP v1.1.

The report is compiled on behalf of OMA by NCC Group.

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:	November 2003
Location:	Seattle, USA
Enabler:	IMPS CSP v1.1
Process:	OMA Interoperability Policy and Process [OMAIOPPROC]
Type of Testing	Interoperability Testing
Products tested:	Client-to-server, Client-to-Client
Test Plan:	IMPS Enabler Test Plan [ETP]
Test Specification:	IMPS Enabler Test Specification [ETS]
Test Tool:	None
Test Code:	None
Type of Test event:	Test Fest
Participants:	Colibria Communology Ecrio Ericsson LG Electronics magic4 Motorola Nokia Openwave OZ Communications Samsung SonyEricsson
Number of Client Products:	11
Participating Technology Providers for clients:	Communology Ecrio (2 Clients) LG Electronics magic4 Motorola Nokia (3 Clients) Samsung SonyEricsson
Number of Server Products:	6
Participating Technology	Colibria Ericsson

Providers for servers:	Nokia Openwave OZ Communications *1 Additional Server*
Number of test sessions completed:	84 of 116

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 that successfully has been passed.
- Number of failed: Used in the summary to indicate how many of the total test cases that has failed.
- Number of N/A: Used in the summary to indicate how many of the total test cases 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 test cases 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 test cases 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:	**Total number of TCs:**	**Number of Passed:**	**Number of Failed:**	**Number of N/A:**	**Number of OT:**	**Number of INC:**
Client to Server TCs	19	1000	28	606	4	56
Client to Server to Client TCs	32	832	21	1023	6	203
Total	51	1832	49	1629	10	259

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 specific test case has been successfully passed.
- **No. of failed(F):** Used to indicate how many times the specific test case has failed.
- **No. of OT(O):** Used in the summary to indicate how many of the total test cases that has not be run due to no time to run the test case.
- **No. of INC(I):** Used in the summary to indicate how many of the total test cases 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.
- **PR**: Used to indicate if any PRs (Problem Reports) have been issued during testing.

If the specific implementation due to e.g. no support for an optional feature has not run a specific test case the test case should be marked with N/A in the "No. of runs" column.

Test Case:	Test Case Description:	R	P	F	O	I	PR:	Note:
IMPS-1.1-int-SAP-001	Verify the Login functionality (2-way, correct password)	80	76	3	0	1	-	
IMPS-1.1-int-SAP-002	Verify the Login functionality (2-way, incorrect password)	78	74	2	0	2	-	
IMPS-1.1-int-SAP-005	Verify the client-initiated logout	84	81	0	0	3	-	
IMPS-1.1-int-SAP-007	Verify the Login functionality in the case of a User ID that does not identify a user account on the server.	84	79	2	0	3	-	
IMPS-1.1-int-SAP-003	Verify the Login functionality (4-way, correct password)	37	28	7	0	2	-	
IMPS-1.1-int-SAP-004	Verify the Login functionality (4-way, incorrect password)	37	28	6	0	3	-	
IMPS-1.1-int-SAP-006	Verify the server initiates disconnect	54	52	0	0	2	-	
IMPS-1.1-int-SAP-008	Verify the Login functionality in case of multiple logins of the same user	67	62	0	0	5	-	
IMPS-1.1-int-SAP-009	Verify the Login functionality in case of multiple logins of the same user	22	13	0	0	9	-	

IMPS-1.1-int-SAP-010	Verify the Login functionality in case of incorrect domain specified for login settings	81	74	3	0	4	-	Observation 003
IMPS-1.1-int-SAP-011	Verify the Login functionality in case of no domain specified in the login settings	68	62	1	0	5	-	
IMPS-1.1-int-PRSE-001	Verify that the server supports Subscribe Presence functionality and client supports presence notifications	80	66	2	0	12	-	
IMPS-1.1-int-PRSE-004	Verify that when client unsubscribes presence, the server stops delivering presence updates	80	66	1	0	13	-	Observation 002
IMPS-1.1-int-PRSE-005	Verify that the server sends presence update containing OnlineStatus presence attribute to subscriber when publisher logs in and logs out.	81	66	3	0	12	-	
IMPS-1.1-int-PRSE-002	Verify that the server supports Subscribe Presence functionality for all contacts in contact list	59	48	1	1	9	-	
IMPS-1.1-int-PRSE-003	Verify that the server sends presence updates to the subscribed client when the publishing client updates its presence information	69	54	2	0	13	-	
IMPS-1.1-int-PRSE-006	Verify Add to Contact List functionality	82	75	0	1	6	-	
IMPS-1.1-int-PRSE-009	Verify Delete from Contact List functionality	82	76	0	1	5	-	
IMPS-1.1-int-PRSE-010	Verify Change Nickname functionality	58	56	0	0	2	-	
IMPS-1.1-int-PRSE-011	Verify Create Contact List functionality	34	31	0	0	3	-	
IMPS-1.1-int-PRSE-012	Verify Delete Contact List functionality	33	30	1	0	2	-	
IMPS-1.1-int-PRSE-013	Verify that the server and client support Get Watcher List functionality	20	17	0	0	3	-	
IMPS-1.1-int-PRSE-014	Verify that the server and client support Reactive Presence Authorization (grant case)	51	42	1	0	8	-	
IMPS-1.1-int-PRSE-015	Verify that the server and client support Reactive Presence Authorization (deny case)	43	32	1	1	9	-	

IMPS-1.1-int-PRSE-016	Verify the Get Presence functionality	80	66	2	0	12	-	
IMPS-1.1-int-PRSE-017	Verify Add to Contact list functionality for a non-existing user.	80	72	3	1	4	-	Observation 001
IMPS-1.1-int-PRSE-018	Verify user search functionality for an existing user.	36	31	0	1	4	-	
IMPS-1.1-int-IMSE-001	Verify that a message sent by one client is delivered to the other client	55	39	0	0	16	-	Observation 005
IMPS-1.1-int-IMSE-003	This test is to confirm that if the Delivery Report is requested then the sender will receive a Delivery Report when the message is delivered to the recipient	21	15	0	0	6	-	
IMPS-1.1-int-IMSE-004	This test confirms that a client is able to reject messages	15	9	0	0	6	-	
IMPS-1.1-int-IMSE-005	This test confirms that a client is able to forward undelivered messages to other users	7	2	0	0	5	-	
IMPS-1.1-int-IMSE-006	This test confirms that if the Delivery Report is requested then the sender will receives a Delivery Report with appropriate error code in case of the delivery failure	9	4	0	0	5	-	
IMPS-1.1-int-IMSE-007	This test confirms that client and server are able to block delivery of messages	40	31	1	0	8	-	
IMPS-1.1-int-IMSE-008	This test confirms that a client is able to unblock delivery of messages	40	31	0	0	9	-	
IMPS-1.1-int-IMSE-009	Verify that a message (including “tricky” characters) sent by one client is delivered to the other client	53	35	2	0	16	-	Observation 005
IMPS-1.1-int-GROUPS-001	Verify the Join Group functionality for public group	25	23	0	0	2	-	
IMPS-1.1-int-GROUPS-002	Verify Create Group Functionality	21	17	0	0	4	-	
IMPS-1.1-int-GROUPS-003	Verify the Welcome Note functionality	29	27	0	0	2	-	
IMPS-1.1-int-GROUPS-004	Verify the Join Group functionality (non-existing group)	29	27	0	0	2	-	

IMPS-1.1-int-GROUPS-005	IMPS-1.1-int-GROUPS-005	25	22	0	1	2	-	
IMPS-1.1-int-GROUPS-006	Verify the Group Change Notice Functionality	17	14	0	1	2	-	
IMPS-1.1-int-GROUPS-008	Verify the Delete Group feature	22	18	0	1	3	-	
IMPS-1.1-int-GROUPS-009	Verify the Group Invitations feature	13	7	2	0	4	-	
IMPS-1.1-int-GROUPS-010	Verify the Private Group functionality - Invitations, Create, Join, Leave, - Accept	13	6	2	1	4	-	
IMPS-1.1-int-GROUPS-013	Verify the Group Invitations feature – Reject	10	5	1	0	4	-	
IMPS-1.1-int-GROUPS-014	Verify the Join Group functionality with a screen name	24	22	0	0	2	-	
IMPS-1.1-int-GROUPS-015	Verify the Group Search functionality	22	21	0	0	1	-	
IMPS-1.1-int-COSE-001	Verify sending of invitation to Shared Content.	0	0	0	0	0	-	
IMPS-1.1-int-COSE-002	Verify receiving and accepting of invitation to Shared Content.	0	0	0	0	0	-	
IMPS-1.1-int-COSE-003	Verify sending of cancel invitation to Shared Content.	0	0	0	0	0	-	
IMPS-1.1-int-COSE-004	Verify receiving of cancel invitation to Shared Content.	0	0	0	0	0	-	

5.2.3 Observations

The following issues were captured by the Trusted Zone during the OMA Test Fest.

5.2.3.1 CSP Specification Issues

Observation: 001	
Test Case(s):	IMPS-1.1-int-PRSE-017
Verdict:	Inconclusive
SCR items / ICS:	-
Comment:	The server in the test session sends a ListManage-Request with a status which is a different interpretation of the specification than expected by the client. This is partially covered in CSP 1.2, however, a Change Request may be required to support the verdict assignment. This request is on the detail-level on the pass-criteria on the IMPS-1.1-int-PRSE-017 requirement of the enabler test specification for OMA IMPS 1.1 (v. 25-Jul-2003). The test purpose is to verify functionality for an attempt to add a non-existing user to a contact list, and the pass-criteria requirement is that the client must indicate that the non-existing user could not be added to the contact list. It is argued that the response of a ListManage-Request trying to add a non-existing user should be 201 (Partially successful). This is based on the rationale that the server is able to return the contents of the contact list in the response regardless of the failed attempt to add a non-existing user to the contact list. It is argued that to use the 531 (Unknown user) status code, this would apply to the request as a whole, which in fact is not true. E.g.: The request: <ListManage-Request> <ContactList>wv:user/friends@somewhere.com</ContactList> <AddNickList> <NickName> <Name>non reg user</Name> <UserID>wv:unknown_user@somewhere.com</UserID> </NickName> </AddNickList> </ListManage-Request> should result in <ListManage-Response> <Result> <Code>201</Code> <Description>Partially successful</Description> <DetailedResult>

	<Code>531</Code> <Description>Unknown user</Description> <UserID>wv:unknown_user@somewhere.com</UserID> </DetailedResult> </Result> <NickList> (...) current list of nicknames (...) <NickList> </ListManage-Response>
Recommendation:	It is propoased the specification should permit the server to respond with a 201 including a detailed result holding a 531 error.

Observation: 002	
Test Case(s):	IMPS-1.1-int-PRSE-004
Verdict:	Inconclusive
SCR items / ICS:	-
Comment:	During the test session the client could not connect to the server because of an XML issue. The client sends an empty <msisdn> fields as follows: <msisdn/> The Server can only parse: <msisdn> <msisdn/> Thus the client cannot connect.
Recommendation:	The test parties were unsure whether this behaviour is acceptable from the server and whether it is explicitly stated in the CSP specification. They seek clarification from the specification group.

5.2.3.2 Enabler Test Suite(ETS) issues

This section details issues with the Enabler Test Specification for OMA IMPS CSP 1.1.

Observation: 003	
Test Case(s):	IMPS-1.1-int-SAP-010
Verdict:	-
SCR items / ICS:	-
Comment:	This test case needs the pre-condition: Client supports sending of the domain. Test case was classed as 'N/A' because the client did not support sending of the domain.
Recommendation:	Update the test case accordingly.

Observation: 004	
Test Case(s):	IMPS-PRSE-004
Verdict:	-
SCR items / ICS:	-
Comment:	Issue on the pass criteria of the PRSE-004 test case. Some clients subscribe for presence both on contact lists and users, but are in some cases only capable of removing one of the subscriptions. Consider the following scenario. User A has a contact list containing user B. User A has subscribed for presence on the contact list for the presence attribute OnlineStatus. User A has also subscribed for presence on user B for the presence attribute UserAvailability. Now user A will receive presence notification when user B changes either one of OnlineStatus or UserAvailability. If user A removes the subscription on user B (subscription for UserAvailability), then user A will still receive presence notifications whenever the OnlineStatus of user B changes, because user A still have an active subscription on the contact list holding user B. A more complex case could be that user B was represented in multiple contact lists of user A, each holding a contact list subscription.
Recommendation:	It is proposed that the IMPS-1.1-int-PRSE-004 test case should be changed so that it takes into consideration that a client may have multiple subscriptions toward a user.

Observation: 005	
Test Case(s):	IMPS-1.1-int-IMSE-001 IMPS-1.1-int-IMSE-009
Verdict:	Inconclusive
SCR items / ICS:	IMSE-2 IMSE-5
Comment:	Client-A uses a base64 encoding scheme for the IM message whereas Client-B uses a UTF-8 encoding. Consequently, the verdict criteria, i.e. 'Content of Client B's message is "Test"' cannot be reached
Recommendation:	Include an additional pre-requisite: Both Client-A and Client-B use the same encoding format.

6. Confirmation

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

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Stephen Higgins - IMPS Trusted Zone

Appendix A. Change History (Informative)

Type of Change	Date	Section	Description