



Enabler Test Report IMPS CSP v1.2 OMA Test Fest (March 2004)

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1. Scope

This report describes the results from the testing carried out at OMA Test Fest March 2004 concerning CSP v1.2 of the IMPS enabler.

2. References

2.1 Normative References

[OMAIOPPROC]	OMA Interoperability Policy and Process, http://www.openmobilealliance.org/
[IMPSEICS]	IMPS CSP version 1.2 Enabler Implementation Conformance Statement (EICS), http://www.openmobilealliance.org/
[ERELED]	OMA IMPS CSP version 1.2 Enabler Release Definition
[IMPS_SPEC]	OMA IMPS CSP 1.2 specifications
[EPTR]	Enabler Product Test Report
[ETP]	Enabler Test Plan
[ETS]	Enabler Test Specification for OMA IMPS CSP 1.2, OMA-IOP-IMPS-2003-0052-ETS-1.2-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 (March 2004) for IMPS CSP v1.2.

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:	March 2004
Location:	Bellvue, USA
Enabler:	IMPS CSP v1.2
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:	Industrial Technology Research Institute(ITRI), Followap, Jabber Inc, LG Electronics, magic4, Nokia, OZ Communications , Siemens AG <i>1 additional vendor</i>
Number of Client Products:	6
Participating Technology Providers for clients:	Industrial Technology Research Institute(ITRI), LG Electronics, magic4, OZ Communications, Siemens AG <i>1 additional client vendor</i>
Number of Server Products:	5
Participating Technology Providers for servers:	Followap, Jabber Inc, Nokia, OZ Communications, Siemens AG
Number of test sessions completed:	32 of 32

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 have 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	21	451	6	179	19	13
Client to Server to Client TCs	35	467	11	525	62	48
Total	56	918	17	704	81	61

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-1.2-int-SAP-001	Verify the Login functionality (2-way, correct password)	32	31	0	1	0	-	
IMPS-1.2-int-SAP-002	Verify the Login functionality (2-way, incorrect password)	32	31	0	1	0	-	
IMPS-1.2-int-SAP-005	Verify the client-initiated logout	32	31	0	1	0	-	
IMPS-1.2-int-SAP-007	Verify the Login functionality in the case of a User ID that does not identify a user account on the server.	32	31	0	1	0	-	
IMPS-1.2-int-SAP-003	Verify the Login functionality (4-way, correct password)	15	13	2	0	0	-	
IMPS-1.2-int-SAP-004	Verify the Login functionality (4-way, incorrect password)	13	13	0	0	0	-	Observation 001
IMPS-1.2-int-SAP-006	Verify the server initiates disconnect	28	26	1	1	0	-	
IMPS-1.2-int-SAP-008	Verify the Login functionality in case of multiple logins of the same user	27	25	1	1	0	-	
IMPS-1.2-int-SAP-009	Verify the Login functionality in case of multiple logins of the same user	7	6	0	1	0	-	

IMPS-1.2-int-SAP-010	Verify the Login functionality in case of incorrect domain specified for login settings	32	30	0	2	0	-	Observation 004
IMPS-1.2-int-SAP-011	Verify the Login functionality in case of no domain specified in the login settings	32	30	0	2	0	-	
IMPS-1.2-int-PRSE-001	Verify that the server supports Subscribe Presence functionality and client supports presence notifications	32	28	0	2	2	-	
IMPS-1.2-int-PRSE-004	Verify that when client unsubscribes presence, the server stops delivering presence updates	32	28	0	2	2	-	
IMPS-1.2-int-PRSE-005	Verify that the server sends presence update containing OnlineStatus presence attribute to subscriber when publisher logs in and logs out.	32	28	0	2	2	-	
IMPS-1.2-int-PRSE-002	Verify that the server supports Subscribe Presence functionality for all contacts in contact list	27	22	1	3	1	-	
IMPS-1.2-int-PRSE-003	Verify that the server sends presence updates to the subscribed client when the publishing client updates its presence information	30	26	1	1	2	-	
IMPS-1.2-int-PRSE-006	Verify Add to Contact List functionality	32	31	0	0	1	-	
IMPS-1.2-int-PRSE-009	Verify Delete from Contact List functionality	32	31	0	0	1	-	
IMPS-1.2-int-PRSE-010	Verify Change Nickname functionality	32	31	0	0	1	-	
IMPS-1.2-int-PRSE-011	Verify Create Contact List functionality	25	24	0	0	1	-	
IMPS-1.2-int-PRSE-012	Verify Delete Contact List functionality	25	24	0	0	1	-	
IMPS-1.2-int-PRSE-013	Verify that the server and client support Get Watcher List functionality	22	19	0	1	2	-	
IMPS-1.2-int-PRSE-014	Verify that the server and client support Reactive Presence Authorization (grant case)	25	21	0	2	2	-	
IMPS-1.2-int-PRSE-015	Verify that the server and client support Reactive Presence Authorization (deny case)	25	20	1	2	2	-	

IMPS-1.2-int-PRSE-016	Verify the Get Presence functionality	28	26	0	0	2	-	
IMPS-1.2-int-PRSE-017	Verify Add to Contact list functionality for a non-existing user.	29	25	2	0	2	-	Observation 002 Observation 005
IMPS-1.2-int-PRSE-018	Verify user search functionality for an existing user.	20	19	0	0	1	-	
IMPS-1.2-int-PRSE-019	Verify that the server and client support Proactive Presence Authorization for a user.	13	12	0	1	0	-	Observation 006
IMPS-1.2-int-PRSE-020	Verify that the server and client support Proactive Presence Authorization for a contact list.	17	15	1	1	0	-	Observation 007
IMPS-1.2-int-PRSE-021	Verify auto-subscribe functionality when adding a user to a Contact List.	15	13	0	2	0	-	
IMPS-1.2-int-PRSE-022	Verify Get Reactive authorization status functionality.	6	5	0	1	0	-	
IMPS-1.2-int-IMSE-001	Verify that a message sent by one client is delivered to the other client	24	20	0	1	3	-	
IMPS-1.2-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	15	12	1	1	1	-	
IMPS-1.2-int-IMSE-004	This test confirms that a client is able to reject messages	14	12	0	1	1	-	
IMPS-1.2-int-IMSE-005	This test confirms that a client is able to forward undelivered messages to other users	11	10	0	0	1	-	
IMPS-1.2-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	15	12	1	1	1	-	
IMPS-1.2-int-IMSE-007	This test confirms that client and server are able to block delivery of messages	19	16	0	2	1	-	
IMPS-1.2-int-IMSE-008	This test confirms that a client is able to unblock delivery of messages	19	16	0	2	1	-	
IMPS-1.2-int-IMSE-009	Verify that a message (including “tricky” characters) sent by one client is delivered to the other client	24	9	3	3	9	-	Observation 008

IMPS-1.2-int-GROUPS-001	Verify the Join Group functionality for public group	17	10	0	5	2	-	
IMPS-1.2-int-GROUPS-002	Verify Create Group Functionality	17	12	0	3	2	-	Observation 009
IMPS-1.2-int-GROUPS-003	Verify the Welcome Note functionality	11	6	0	3	2	-	
IMPS-1.2-int-GROUPS-004	Verify the Join Group functionality (non-existing group)	13	7	1	4	1	-	
IMPS-1.2-int-GROUPS-005	Verify the Leave Group functionality	16	9	1	4	2	-	
IMPS-1.2-int-GROUPS-006	Verify the Group Change Notice Functionality	11	5	0	4	2	-	
IMPS-1.2-int-GROUPS-008	Verify the Delete Group feature	12	8	0	3	1	-	
IMPS-1.2-int-GROUPS-009	Verify the Group Invitations feature when not blocked.	10	6	0	3	1	-	
IMPS-1.2-int-GROUPS-010	Verify the Private Group functionality when not blocked - Invitations, Create, Join, Leave, - Accept	12	6	0	4	2	-	Observation 010
IMPS-1.2-int-GROUPS-013	Verify the Group Invitations feature – Reject	10	5	0	4	1	-	
IMPS-1.2-int-GROUPS-014	Verify the Join Group functionality with a screen name	10	10	0	0	0	-	
IMPS-1.2-int-GROUPS-015	Verify the Group Search functionality	8	8	0	0	0	-	
IMPS-1.2-int-GROUPS-016	Verify the Get Joined Users feature	6	4	0	0	2	-	
IMPS-1.2-int-COSE-001	Verify sending of invitation to Shared Content when not blocked.	0	0	0	0	0	-	
IMPS-1.2-int-COSE-002	Verify receiving and accepting of invitation to Shared Content.	0	0	0	0	0	-	

IMPS-1.2-int-COSE-003	Verify sending of cancel invitation to Shared Content.	0	0	0	0	0		
IMPS-1.2-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-1.2-int-SAP-004
Verdict:	PASS
SCR items / ICS:	LOGIN-10
Comment:	The test case passes. However, during testing, there occurred the situation where the client was already logged in, then the client tries to login again using an invalid password. The specification does not described how the server should handle this situation. Should the server report to the client that the password is invalid and then log the client out?
Recommendation:	Clarification sought from the IMPS specification group.

Observation: 002	
Test Case(s):	IMPS-1.2-int-PRSE-017
Verdict:	-
SCR items / ICS:	PRSE-4
Comment:	Both the client and server SCR items for managing contact lists have no reference to how client or server should behave when adding a non-existent user. Page 41 of the CSP specifications defines the error condition Unknown User ID(531) for the CreateListRequest. It is unclear where the IMPS specifications specify how a client or server should handle this situation. Consequently, there are inconsistencies in server implementations in support for the management of non-existent users in contact lists.
Recommendation:	Clarification sought from the IMPS specification group for handling non-existent users in contact lists.

Observation: 003	
Test Case(s):	-
Verdict:	-
SCR items / ICS:	-
Comment:	There is inconsistency in the specification for capitalization of token definitions. When a client sends the token 'Open' when this is then encoded into WBXML this is converted to 'OPEN' which results in a connectivity issue.
Recommendation:	

5.2.3.2 Enabler Test Suite(ETS) issues

This section details issues with the Enabler Test Specification for OMA IMPS CSP 1.2.

Observation: 004	
Test Case(s):	IMPS-1.2-int-SAP-010
Verdict:	PASS
SCR items / ICS:	SERV-1
Comment:	<p>The Pass-Criteria for this test case reads: Client reports unsuccessful login (Domain name error) This is confusing since the correct response code from the servers is</p> <p>531 – Unknown user</p> <p>There is no status for (Domain name error), there is 516 Domain Not Supported, however, this is not applicable in this situation.</p>
Recommendation:	Clarify the verdict criteria in the test case to explicitly state which status code should be returned by the server

Observation: 005	
Test Case(s):	IMPS-1.2-int-PRSE-017
Verdict:	-
SCR items / ICS:	PRSE-4
Comment:	<p>The test case does not cater for the situation when either the client or server does not allow searching for a non-existent user in the contact list, therefore the PASS/FAIL verdict cannot be assessed.</p> <p>In addition, it is unclear where the IMPS specifications specify how a client or server should handle this situation. Both the client and server SCR items for managing contact lists have no reference to how client or server should behave when adding a non-existent user. Page 41 of the CSP specifications defines the error condition Unknown User ID(531) for the CreateListRequest.</p> <p>It seems that the test case is not traceable back to the CSP specification.</p>
Recommendation:	<p>Add a pre-condition: ' It is possible to search for a non-existent user in the contact list'</p>

Observation: 006	
Test Case(s):	IMPS-1.2-int-PRSE-019
Verdict:	N/A
SCR items / ICS:	-
Comment:	<p>The pre-condition for the test cases should be updated: 'Both server and Client A support proactive presence authorization.' to</p>

	'Both server and Client A support proactive presence authorization for a user'
Recommendation:	Update the test cases as suggested.

Observation: 007	
Test Case(s):	IMPS-1.2-int-PRSE-020
Verdict:	N/A
SCR items / ICS:	-
Comment:	The pre-condition for the test cases should be updated: 'Both server and Client A support proactive presence authorization.' to 'Both server and Client A support proactive presence authorization for a contact list'
Recommendation:	Update the test cases as suggested.

Observation: 008	
Test Case(s):	IMPS-1.2-int-IMSE-009
Verdict:	Inconclusive
SCR items / ICS:	-
Comment:	The test case does not cater for the situation where the clients do not share a common character set which contains special characters. For example, phones originating in the Asia-Pacific market may not share a character set containing special characters based in the European market.
Recommendation:	Add a pre-condition: 'Both client support the same character set'

Observation: 009	
Test Case(s):	IMPS-1.2-int-GROUPS-002
Verdict:	N/A
SCR items / ICS:	-
Comment:	There is an inconsistency between the following pre-condition and the test procedure for this test case: Pre-condition: Both clients support private groups Test Procedure: Client A creates private open group named "Friends" The pre-condition and test procedure do not cater for a restricted (closed) group.
Recommendation:	The pre-condition should either stipulate 'private open groups' or the test procedure should stipulate a 'private group'.

Observation: 010	
Test Case(s):	IMPS-1.2-int-GROUPS-013
Verdict:	-
SCR items / ICS:	-
Comment:	<p>The test procedure for this test cases is as follows: Client A sends an invitation to join the group to Client B Client B rejects the invitation The Pass-Criteria is as follows: After action #3: Client B receives invitation and displays it Verdict assignment refers to action-3 which does not exist.</p>
Recommendation:	Correct the Pass-Criteria.

Observation: 011	
Test Case(s):	All test cases
Verdict:	-
SCR items / ICS:	-
Comment:	The verdict criteria in test cases often refers to a particular step in the test procedure. However, in all the test cases the test steps are not numbered.
Recommendation:	For the Test procedure, number each test step to add consistency to the verdict assignments.

6. Confirmation

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

Stephen Higgins - IMPS Trusted Zone

Appendix A. Change History

(Informative)

Type of Change	Date	Section	Description