Enabler Test Report IMPS CSP v1.1

OMA Test Fest (June 2003)

Version 09-Jul-2003

Open Mobile Alliance

OMA-Enabler_Test_Report-IMPS-CSPv1.1-2003-07-09

Contents

1. Scope

This report describes the results from the testing carried out at OMA Test Fest(June 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(June 2003) for IMPS CSP v1.1.

The report is compiled on behalf of OMA by The 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:	June 2003
Location:	Tampere, Finland
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:	Nokia
Number of Client Products:	9
Participating Technology Providers for clients:	magic4 Ltd. Nokia (3 Products) *5 additional participating clients*
Number of Server Products:	8
Participating Technology Providers for servers:	Colibria AS MessageVine Inc. Nokia Openwave Systems OZ Communications *3 additional participating servers*
Number of test sessions completed:	35 of 42

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	11	505	0	149	3	14
Client to Server to Client TCs	40	1005	34	1138	176	87
Total	51	1510	34	1287	179	101

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)	60	55	0	0	5	-	
IMPS-1.1-int-SAP-002	Verify the Login functionality (2-way, incorrect password)	60	55	0	0	5	-	
IMPS-1.1-int-SAP-005	Verify the client-initiated logout	61	61	0	0	0	-	
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.	61	61	0	0	0	-	
IMPS-1.1-int-SAP-003	Verify the Login functionality (4-way, correct password)	30	30	0	0	0	-	
IMPS-1.1-int-SAP-004	Verify the Login functionality (4-way, incorrect password)	30	30	0	0	0	-	
IMPS-1.1-int-SAP-006	Verify the server initiates disconnect	46	45	0	1	0	-	Observation 003
IMPS-1.1-int-SAP-008	Verify the Login functionality in case of multiple logins of the same user	54	50	0	1	3	-	
IMPS-1.1-int-SAP-009	Verify the Login functionality in case of multiple logins of the same user	8	6	0	1	1	-	

IMPS-1.1-int-SAP-010	Verify the Login functionality in case of incorrect domain specified for login settings	60	60	0	0	0	-	
IMPS-1.1-int-SAP-011	Verify the Login functionality in case of no domain specified in the login settings	52	52	0	0	0	-	
IMPS-1.1-int-PRSE-001	Verify that the server supports Subscribe Presence functionality and client supports presence notifications	61	49	2	6	4	-	
IMPS-1.1-int-PRSE-004	Verify that when client unsubscribes presence, the server stops delivering presence updates	61	48	2	8	3	-	
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.	61	48	2	8	3	-	
IMPS-1.1-int-PRSE-002	Verify that the server supports Subscribe Presence functionality for all contacts in contact list	49	37	2	8	2	-	
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	49	38	1	7	3	-	
IMPS-1.1-int-PRSE-006	Verify Add to Contact List functionality	53	51	1	1	0	-	
IMPS-1.1-int-PRSE-009	Verify Delete from Contact List functionality	53	51	1	1	0	-	
IMPS-1.1-int-PRSE-010	Verify Change Nickname functionality	38	36	1	1	0	-	
IMPS-1.1-int-PRSE-011	Verify Create Contact List functionality	39	34	1	3	1	-	
IMPS-1.1-int-PRSE-012	Verify Delete Contact List functionality	26	24	1	1	0	-	
IMPS-1.1-int-PRSE-013	Verify that the server and client support Get Watcher List functionality	16	13	0	2	1	-	
IMPS-1.1-int-PRSE-014	Verify that the server and client support Reactive Presence Authorization (grant case)	33	25	0	6	2	-	
IMPS-1.1-int-PRSE-015	Verify that the server and client support Reactive Presence Authorization (deny case)	30	17	4	8	1	-	

IMPS-1.1-int-PRSE-016	Verify the Get Presence functionality	50	40	2	6	2	-	
IMPS-1.1-int-PRSE-017	Verify Add to Contact list functionality for a non-existing user.	49	44	1	3	1	-	Observation 004
IMPS-1.1-int-PRSE-018	Verify user search functionality for an existing user.	41	37	2	2	0	-	
IMPS-1.1-int-IMSE-001	Verify that a message sent by one client is delivered to the other client	54	43	0	9	2	-	
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	28	19	0	6	3	-	
IMPS-1.1-int-IMSE-004	This test confirms that a client is able to reject messages	9	6	0	2	1	-	
IMPS-1.1-int-IMSE-005	This test confirms that a client is able to forward undelivered messages to other users	11	8	0	2	1	-	
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	14	5	0	6	3	-	Observation 005
IMPS-1.1-int-IMSE-007	This test confirms that client and server are able to block delivery of messages	36	25	0	8	3	-	
IMPS-1.1-int-IMSE-008	This test confirms that a client is able to unblock delivery of messages	36	25	0	8	3	-	
IMPS-1.1-int-IMSE-009	Verify that a message (including "tricky" characters) sent by one client is delivered to the other client	54	25	6	10	13	-	
IMPS-1.1-int-GROUPS-001	Verify the Join Group functionality for public group	36	28	0	6	2	-	
IMPS-1.1-int-GROUPS-002	Verify Create Group Functionality	29	21	0	5	3	-	
IMPS-1.1-int-GROUPS-003	Verify the Welcome Note functionality	30	25	0	4	1	-	Observation 007
IMPS-1.1-int-GROUPS-004	Verify the Join Group functionality (non-existing group)	32	27	0	5	0	-	

IMPS-1.1-int-GROUPS-005	IMPS-1.1-int-GROUPS-005	37	28	0	6	3	-	
IMPS-1.1-int-GROUPS-006	Verify the Group Change Notice Functionality	23	17	0	3	3	-	
IMPS-1.1-int-GROUPS-008	Verify the Delete Group feature	31	21	2	5	3	-	
IMPS-1.1-int-GROUPS-009	Verify the Group Invitations feature	25	15	0	4	6	-	Observation 008
IMPS-1.1-int-GROUPS-010	Verify the Private Group functionality - Invitations, Create, Join, Leave, - Accept	20	11	1	3	5	-	Observation 008
IMPS-1.1-int-GROUPS-013	Verify the Group Invitations feature – Reject	25	14	1	4	6	-	Observation 006
IMPS-1.1-int-GROUPS-014	Verify the Join Group functionality with a screen name	37	28	0	6	3	-	
IMPS-1.1-int-GROUPS-015	Verify the Group Search functionality	24	22	1	1	0	-	
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   EICS issues

This section details issues with the IMPS CSP version 1.1 Enabler Implementation Conformance Statement (EICS) [IMPSEICS].

Observation: 001	
Document:	IMPS CSP version 1.1 Enabler Implementation Conformance Statement (EICS) [IMPSEICS]
SCR item:	ADDR-3 - Server maintains the same addressing format within a transaction.
Comment:	This is a suspected problem in the template, as the SCR item is based on the IMPS 1.2 SCR instead of the IMPS 1.1 SCR. In the IMPS 1.1 specification there's no such requirement, so it shouldn't be included in the EICS.
Recommendation:	Review the inclusion of the ADDR-3 SCR items for the IMPS 1.1 template.

Observation: 002	
Document:	IMPS CSP version 1.1 Enabler Implementation Conformance Statement (EICS) [IMPSEICS]
SCR item:	CCLI-
Comment:	In the server EICS, an SCR items is defined without a number: CCLI- If the contact list does not exist on the server, and the server is able to add all users in User-Nick-List and is able to apply all property changes specified in Contact-List-Props, the server creates the contact list. This is located between CCLI-3 and CCLI-4.
Recommendation:	All SCR items should be assigned a number.

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-006** - Verify server initiates disconnects
SCR items:	SERV-1 Support of Service Access Point functionality SAP-6 Support for Server originated disconnect
Comment:	This test case does not cater for the condition when the Client/Server pair can perform the disconnect (e.g. log the user back in again) but there is no application to do this manually. Currently the test case stipulates in the "Pre-conditions": "Server supports manual disconnection of the clients"

Recommendation	Replace "Manual disconnection" with "disconnection". This makes the test protocol level rather than functionality level.

Observation: 004	
Test Case(s):	**IMPS-1.1-int-PRSE-017** - Verify Add to Contact list functionality for a non-existing user.
SCR items:	SERV-3 Support of Presence Service Element functionality PRSE-4 Support for manage contact list transaction
Comment:	The SCR items specified for this test case do not reflect the functionality being tested. There is no reference to non-existing users within the functionality defined for PRSE-4.
Recommendation	The SCR traceability in the test case needs to be updated to reflect the functionality being tested. SCR item PRSE-2 defines the creation of a contact list and the detailed CCLI-* SCR items define the functionality for adding a contact list for a non-existing user.

Observation: 005	
Test Case(s):	**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
SCR items / ICS:	SERV-2 Support of Instant Messaging Service Element functionality IMSE-11 Support for delivery status report transaction IMSE-7 Support for reject message transaction
Comment:	One of the pre-requisites for this test case is: • Both client and server support the same type of the delivery mechanism (Push or Notify/Get or both) It was cited that Push cannot be used for rejecting a message and therefore this needs to be changed to reflect the fact that Notify/Get must be supported by the client and server.
Recommendation	Proposal that the pre-requisite is modified to: • Both client and server support the Notify/Get delivery mechanism.

Observation: 006	
Test Case(s):	**IMPS-1.1-int-GROUPS-013** - Verify the Group Invitations feature – Reject
SCR items:	SERV-4 Support of Group Service Element functionality SAP-14 Support for invitation transaction
Comment:	The verdict criteria stipulates: After action #3: Client B receives invitation and displays it

	There is no action #3 in this test case.
Recommendation:	Update the verdict criteria and test procedure to be consistent.

Observation: 007	
Test Case(s):	**IMPS-1.1-int-GROUPS-003** - Verify the Welcome Note functionality
SCR items:	SERV-4 Support of Group Service Element functionality GRSE-11 Support for join group transaction JOING-9 The JoinGroupResponse primitive contains welcome-note
Comment:	Test requires an existing group, implying that there is more than 1 client, but the pre-requisite stipulates a single client and server. If client B doesn't support groups, it is suggested that this test should not be conducted.
Recommendation:	Test case is updated to stipulate 2 clients supporting group functionality.

Observation: 008	
Test Case(s):	**IMPS-1.1-int-GROUPS-009** - Verify the Group Invitations feature **IMPS-1.1-int-GROUPS-010** - Verify the Private Group functionality - Invitations, Create, Join, Leave, - Accept
SCR items:	SERV-4 Support of Group Service Element functionality SAP-14 Support for invitation transaction GRSE-11 Support for join group transaction GRSE-12 Support for leave group transaction
Comment:	For one test session, the test cases were assigned as inconclusive because one of the clients uses ScreeName and the other uses UserID. Consequently, the test case was blocked.
Recommendation:	A pre-condition should be added to ensure that there is commonality between the client addressing conventions.

IMPS Anoymous Feedback	
Feedback:	The following comment was captured from the test fest feedback forms and should be taken into consideration: • *Shall test cases mention something about UIs or is it fine if another end can verify transactions via some debugging display? If viewing with some debugger is fine, then test cases shouldn't mention anything about User Interface.*

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