Enabler Test Report

Mobile Broadcast (BCAST) v1.0

OMA TestFest (March/April 2008)
Version 11th April 2008

Open Mobile Alliance
OMA-EnablerTestReport-TestFest-23-Mar2008-BCAST-10-20080411

Contents

1. Scope

This report describes the results from the testing carried out at OMA TestFest-23 (March/April 2008) concerning the Mobile Broadcast Version 1.0 Enabler.

2. References

2.1   Normative References

[IOPPROC]	"OMA Interoperability Policy and Process", Version 1.4, Open Mobile Alliance™, OMA-ORG-IOP_Process-V1_4, 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, OMA-ERELD-BCAST-V1_0-20070529-C, URL:http://www.openmobilealliance.org/
[BCAST_SPEC]	Enabler Release Package, OMA-ERP-BCAST-V1_0-20070529-C, URL:http://www.openmobilealliance.org/
[ETS-INT]	Enabler Test Specification OMA-ETS-BCAST_INT-V1_0-20080226-C URL:http://www.openmobilealliance.org/
[ETS-CON]	Enabler Test Specification OMA-ETS-BCAST_CON_Client-V1_0-20080131-D, URL:http://www.openmobilealliance.org/
[EVP]	Enabler Validation Plan OMA-EVP-BCAST-V1_0-20080226-C; URL:http://www.openmobilealliance.org/
[BCAST_EICS]	BCAST version 1.0 Enabler Implementation Conformance Statement (EICS), EICS-BCAST_Client-V1_0-20080228-A, OMA-EICS-BCAST_Server-V1_0-20070712-A 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 which is not intended to provide testable requirements to implementations, i.e. the document does not intend to contain normative statements.

3.2 Definitions

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

3.3 Abbreviations

BCAST	Mobile Broadcast
EICS	Enabler Implementation Conformance Statement
ERELD	Enabler Release Definition
ERP	Enabler Release Package
EVP	Enabler Validation Plan
ETS	Enabler Test Specification
INC	Inconclusive
N/A	Not Applicable
OMA	Open Mobile Alliance
OT	Out of Time
PR	Problem Report
TC	Test Case

4. Summary

This report gives details of the testing carried out during the OMA TestFest-23 (March/April 2008) for Mobile Broadcast (BCAST) 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 [IOPPROC].

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:	28th March to 04th April 2008
Location:	Madrid, Spain
Enabler:	Mobile Broadcast (BCAST) v1.0
Process:	OMA Interoperability Policy and Process [IOPPROC]
Type of Testing	Interoperability Testing
Products tested:	Client-to-Server, Client-to-Smartcard-to-Server-to-BSF
Test Validation Plan:	BCAST 1.0 Enabler Validation Plan - OMA-EVP-BCAST-V1_0-20080226-C [EVP]
Test Specification:	BCAST Enabler Test Specification - OMA-ETS-BCAST_CON_Client-V1_0-20080131-D, OMA-ETS-BCAST_INT-V1_0-20080226-C [ETS]
Test Tool:	None
Test Code:	None
Type of Test event:	TestFest
Participants:	castLabs GmbH, Discretix, Irdeto/S3, Nokia, Qualcomm, Silicon & Software Systems, Sony Ericsson Mobile Communications, Viaccess, WRG, SafeNet, Expway, Nagravision, Rohde & Schwarz, Roundbox, Gemalto N.V *and 1 other participants.*
Number of Client Implementations:	9
Participating Technology Providers for clients:	castLabs GmbH, Discretix, Irdeto/S3, Nokia, Qualcomm, Silicon & Software Systems, Sony Ericsson Mobile Communications , Viaccess, WRG.
Implementation IDs for each client:	BCAST DRM & SCP Client, MobileTV Secure Client, OmaBCastClient, Mobile TV, MSM6281, onHandTV, BCast Client , Purple-TV SCP 1.0, Jelly BCAST DVB-H .
Number of Smartcard Implementations:	3
Participating Technology Providers for Smartcards:	Gemalto N.V, Viaccess *and 1 other smartcard.*
Implementation IDs for each Smartcard:	GEMALTO BCAST1.0, Purple-TV SCP 1.0 *and 1 other implementation.*
Number of Server Implementations:	8
Participating Technology Providers for servers:	castLabs GmbH, Expway, Irdeto BV, Nagravision, Nokia, Roundbox, SafeNet, Viaccess
Implementation IDs for	BCAST Service Delivery Platform, FastESG Server BCast Edition, PIsys for OMA

each server:	BCAST Smartcard Profile, Nagra BCAST, Mobile Broacast Solution 3.3, Roundbox ESG Server, Toolkit4TV, Purple-TV SCP 1.0
Number of BSF Implementations:	2
Participating Technology Providers for BSFs:	SafeNet and Viaccess
Implementation IDs for each BSF:	SafeNet BSF and Purple-TV SCP 1.0
Number of Client Test Tool Implementations:	1
Participating Technology Providers for Client Test Tool:	Rohde & Schwarz
Implementation IDs for each Client Test Tool:	CA-AC08
Number of test sessions completed:	83

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-CON] and [ETS-INT].

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 Client Test Tool	4	59	14	5	77	21	1	118
Clients to Server TCs	27	39	54	2	562	94	13	725
Client to Smartcard to Server TCs	52	58	260	36	376	1531	0	2203
Total	**83**	**156**	**328**	**43**	**1015**	**1646**	**14**	**3046**

Table 1. Test Summary Table

NOTE: The difference between the total possible number of test cases and the actual number of test cases attempted is caused by the OMA Trusted Zone informing participants that certain test cases should not be attempted in a particular test session.

5.2.2   Test Case List

This chapter lists the statistics for all all conformance and interoperability test cases included in [ETS-CON] and [ETS-INT].

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.

Conformance Testcases for BROADCAST Enabler taken from OMA-ETS-BCAST_CON_Client-V1_0-20080131-D

Test Case id:	Description:	Test Counts						PR:	Note:
		R	**P**	**F**	**O**	**I**	**N/A**		
BCAST-1.0-PROV-CONF-101	Service guide discovery via broadcast channel	2	2	0	1	0	0		
BCAST-1.0-PROV-CONF-102a	Service guide discovery via interaction channel	1	1	0	0	0	2		
BCAST-1.0-ESG-CONF-101	Service Guide update via broadcast channel (same fragment id, higher version number)	2	2	0	1	0	0		
BCAST-1.0-ESG-CONF-102	Service Guide update via broadcast channel (same fragment id, lower version number)	2	0	2	1	0	0		
BCAST-1.0-ESG-CONF-103	Service Guide Update with additional fragments via broadcast channel	2	2	0	1	0	0		
BCAST-1.0-ESG-CONF-104	GZIP compression of Service Guide Delivery Unit on broadcast channel	2	2	0	1	0	0		
BCAST-1.0-ESG-CONF-105	Service provisioning with Content hierarchy	2	0	2	1	0	0		

Test Case id:	Description:	Test Counts						PR:	Note:
		R	P	F	O	I	N/A		
BCAST-1.0-ESG-CONF-106	Service guide with Preview Data via broadcast channel	2	2	0	1	0	0		
BCAST-1.0-ESG-CONF-107	Service Guide with dual audio streams via broadcast channel	0	0	0	1	0	2		
BCAST-1.0-ESG-CONF-108	Service Guide update via interaction channel (same fragment id, higher version number)	0	0	0	0	0	3		
BCAST-1.0-ESG-CONF-109	Service Guide update via interaction channel (same fragment id, lower version number)	0	0	0	0	0	3		
BCAST-1.0-ESG-CONF-110	Service Guide Update with additional fragments via interaction channel	0	0	0	0	0	3		
BCAST-1.0-ESG-CONF-111	GZIP compression of Service Guide Delivery Unit on interaction channel	0	0	0	0	0	3		
BCAST-1.0-ESG-CONF-112	Service provisioning with Content hierarchy via interaction channel	0	0	0	0	0	3		
BCAST-1.0-ESG-CONF-113	Service guide with Preview Data via interaction channel	0	0	0	0	0	3		
BCAST-1.0-ESG-CONF-114	Service Guide with dual audio streams via interaction channel	0	0	0	0	0	3		
BCAST-1.0-DIST-CONF-101	Support of ALC protocol and delivery of meta-data in the Service Guide	0	0	0	0	0	4		
BCAST-1.0-DIST-CONF-102	Support of in-band delivery of meta-data and FLUTE	1	0	0	1	1	2		
BCAST-1.0-DIST-CONF-103	Support the delivery using HTTP over the Interaction Channel ti	0	0	0	0	0	4		
BCAST-1.0-DIST-CONF-104	Support of FEC RAPTOR	0	0	0	0	0	4		
BCAST-1.0-DIST-CONF-105	File Versioning handling	0	0	0	1	0	3		
BCAST-1.0-DIST-CONF-106	Support of the post-delivery repair of files	0	0	0	0	0	4		
BCAST-1.0-DIST-CONF-107	Support of reception report	0	0	0	0	0	4		
BCAST-1.0-DIST-CONF-108	Support of Flute Session Setup and Control with RTSP	0	0	0	0	0	4		

Test Case id:	Description:	Test Counts						PR:	Note:
		R	P	F	O	I	N/A		
BCAST-1.0-DIST-CONF-109	Support of RTP for stream distribution over the broadcast channel	2	2	0	1	0	1		
BCAST-1.0-DIST-CONF-110	Support of RTP for stream distribution over the interaction channel using SDP	0	0	0	2	0	2		
BCAST-1.0-DIST-CONF-111	Support of RTP for stream distribution over the interaction channel using HTTP with out-of-band signalling	0	0	0	2	0	2		
BCAST-1.0-DIST-CONF-112	Support of streaming associated procedure	0	0	0	2	0	2		
BCAST-1.0-INTER-CONF-101	Service guide with XHTML interactivity document via broadcast channel	1	0	1	1	0	0		
BCAST-1.0-INTER-CONF-102	Service guide with SMS interactivity document via broadcast channel	1	1	0	1	0	0		
BCAST-1.0-INTER-CONF-103	Service guide with MMS interactivity document via broadcast channel	0	0	0	0	0	2		
BCAST-1.0-TERMPROV-CONF-101	Receiving terminal provisioning messages using TP-7	0	0	0	0	0	4		
BCAST-1.0-TERMPROV-CONF-102	Update terminal provisioning messages using TP-7	0	0	0	0	0	4		
BCAST-1.0-PROV-CONF-102b	Declaring Terminal Provisioning as a Service within Service Guide	0	0	0	1	0	3		
BCAST-1.0-TERMPROV-CONF-103	Declaring Terminal Provisioning as an Access of a Service within Service Guide	0	0	0	1	0	3		
BCAST-1.0-SERVPROT--101A	When the BCAST Client is started in the terminal that initiates the MBMS User Service Registration procedure.	0	0	0	0	0	0		
BCAST-1.0-SERVPROT--101B	When the terminal needs to do authentication and there is no existing bootstrapping context that initiates the bootstrapping flow.	0	0	0	0	0	0		

Test Case id:	Description:	Test Counts						PR:	Note:
		R	P	F	O	I	N/A		
BCAST-1.0-SERVPROT--101C	When the terminal receives Service Guide containing purchase item, purchase channel and purchase data fragments then the terminal presents the information on the Service Guide	0	0	0	0	0	0		
BCAST-1.0-SERVPROT--101D	When the user purchases an encrypted service then the terminal initiates the Service Request.	0	0	0	0	0	0		
BCAST-1.0-SERVPROT--101E	Test that an LTKM request and delivery can be correctly performed by the terminal.	0	0	0	0	0	0		
BCAST-1.0-SERVPROT--101F	Test that a valid STKM stream is processed by the terminal.	0	0	0	0	0	0		
BCAST-1.0-SERVPROT--101G	Test that a deregistration flow can be processed by the terminal.	0	0	0	0	0	0		
BCAST-1.0-SERVPROT-111A	When the BCAST Client is started in the terminal that initiates the MBMS User Service Registration procedure.	0	0	0	0	0	0		
BCAST-1.0-SERVPROT-111B	When the terminal needs to do authentication and there is no existing bootstrapping context that initiates the bootstrapping flow.	0	0	0	0	0	0		
BCAST-1.0-SERVPROT-111C	When the terminal receives Service Guide containing purchase item, purchase channel and purchase data fragments then the terminal presents the information on the Service Guide	0	0	0	0	0	0		
BCAST-1.0-SERVPROT-111D	When the user purchases an encrypted service then the terminal initiates the Service Request.	0	0	0	0	0	0		
BCAST-1.0-SERVPROT-111E	Test that an LTKM request and delivery can be correctly performed by the terminal.	0	0	0	0	0	0		
BCAST-1.0-SERVPROT-111F	Test that a valid STKM stream is processed by the terminal.	0	0	0	0	0	0		
BCAST-1.0-SERVPROT-111G	Test that a deregistration flow can be processed by the terminal.	0	0	0	0	0	0		

Test Case id:	Description:	Test Counts						PR:	Note:
		R	P	F	O	I	N/A		
BCAST-1.0-SERVPROT-121A	When the BCAST Client is started in the terminal that initiates the MBMS User Service Registration procedure.	0	0	0	0	0	0		
BCAST-1.0-SERVPROT-121B	When the terminal needs to do authentication and there is no existing bootstrapping context that initiates the bootstrapping flow.	0	0	0	0	0	0		
BCAST-1.0-SERVPROT-121C	When the terminal receives Service Guide containing purchase item, purchase channel and purchase data fragments then the terminal presents the information on the Service Guide	0	0	0	0	0	0		
BCAST-1.0-SERVPROT-121D	When the user purchases an encrypted service then the terminal initiates the Service Request.	0	0	0	0	0	0		
BCAST-1.0-SERVPROT-121E	Test that an LTKM request and delivery can be correctly performed by the terminal.	0	0	0	0	0	0		
BCAST-1.0-SERVPROT-121F	Test that a valid STKM stream is processed by the terminal.	0	0	0	0	0	0		
BCAST-1.0-SERVPROT-121G	Test that a deregistration flow can be processed by the terminal.	0	0	0	0	0	0		
BCAST-1.0-SERVPROT-201	DRM Profile and IPSec encryption via broadcast channel	0	0	0	0	0	0		
BCAST-1.0-SERVPROT-211	DRM Profile and SRTP encryption via broadcast channel	0	0	0	0	0	0		
BCAST-1.0-SERVPROT-221	DRM Profile and ISMACryp encryption via broadcast channel	0	0	0	0	0	0		

Interoperability Testcases for BROADCAST Enabler
taken from OMA-ETS-BCAST_INT-V1_0-20080226-C

Test Case id:	Description:	Test Counts						PR:	Note:
		R	**P**	**F**	**O**	**I**	**N/A**		
BCAST-1.0-DIST-INT-101	Bootstraping a service with content. Associating content with service. This test case also tests that the reception of the SG is performed correctly.	8	7	0	4	1	13		
BCAST-1.0-DIST-INT-102	Use Web portal URL in Purchase fragment of Service Guide to provide entry point for web based provisioning.	1	0	0	6	1	18		
BCAST-1.0-DIST-INT-103	Updating description of content. This test case also tests that the update of the SG is performed correctly.	6	4	1	3	1	11		
BCAST-1.0-DIST-INT-104	Updating description of content. This test case also tests that the update of the SG is performed correctly.	0	0	0	3	0	18		
BCAST-1.0-DIST-INT-105	Applying the associated access and session description parameters with content.	5	4	0	4	1	11		
BCAST-1.0-DIST-INT-106	Applying the associated access and session description parameters with content.	0	0	0	3	0	18		
BCAST-1.0-DIST-INT-107	Testing the case where the SGDU is GZIP compressed.	9	8	0	9	1	3		
BCAST-1.0-DIST-INT-108	Associating content with service.	4	3	0	7	1	9		
BCAST-1.0-DIST-INT-109	Associating preview data with service.	7	6	0	5	1	9		
BCAST-1.0-DIST-INT-110	Associating preview data with service.	0	0	0	1	0	20		
BCAST-1.0-DIST-INT-111	Applying the associated access and session description parameters with content choose the correct parameters for a specific choice of language.	1	0	0	5	1	14		
BCAST-1.0-DIST-INT-112	Associating Service with provisioning information and applying the latter for subscription.	2	1	0	5	1	13		

Test Case id:	Description:	Test Counts						PR:	Note:
		R	**P**	**F**	**O**	**I**	**N/A**		
BCAST-1.0-DIST-INT-201	To test the support of ALC and the interpretation of the file description information on the Service Guide	0	0	0	0	0	25		
BCAST-1.0-DIST-INT-202	To test the support of the in-band delivery of the metadata associated with file distributed using FLUTE	1	1	0	0	0	24		
BCAST-1.0-DIST-INT-203	To test the support of the delivery of a file using http over the interaction channel	0	0	0	0	0	25		
BCAST-1.0-DIST-INT-204	The purpose of this test is to test the support of the FEC encoding ID 1 scheme	0	0	0	0	0	25		
BCAST-1.0-DIST-INT-205	The purpose of this test is to test if the file repair is correctly performed	0	0	0	0	0	25		
BCAST-1.0-DIST-INT-206	The purpose of this test the report of the reception of a successful download	0	0	0	0	0	25		
BCAST-1.0-DIST-INT-207	The purpose of this test is to test the report of the SDP handling and control with RTSP	2	1	0	10	1	12		
BCAST-1.0-DIST-INT-208	The purpose of this test is to test the supports of RTP as a transport protocol for streaming distribution over the broadcast channel	5	5	0	1	0	4		
BCAST-1.0-DIST-INT-209	The purpose of this test is to test the support of RTP as a transport protocol for streaming distribution on the interactive channel using SDP	0	0	0	0	0	5		
BCAST-1.0-DIST-INT-210	The purpose of this test is to test the support of RTP as a transport protocol for streaming distribution over the interactive channel using HTTP and out-of-band signalling	0	0	0	0	0	4		
BCAST-1.0-DIST-INT-211	The purpose of this test is to test the support of the streaming associated procedure	0	0	0	0	0	5		
BCAST-1.0-DIST-INT-301	Associating content with interactivity. Reception of InteractivityMediaDocuments over broadcast file distribution. XHTML MP as an interaction method.	2	0	1	2	1	3		

Test Case id:	Description:	Test Counts						PR:	Note:
		R	P	F	O	I	N/A		
BCAST-1.0-DIST-INT-302	Associating content with interactivity. Retrieval of InteractivityMediaDocuments over interaction channel. XHTML MP as an interaction method.	0	0	0	0	0	7		
BCAST-1.0-DIST-INT-303	Associating content with interactivity. Reception of InteractivityMediaDocuments over broadcast file distribution. SMS as an interaction method.	2	1	0	2	1	3		
BCAST-1.0-DIST-INT-304	Associating content with interactivity. Retrieval of InteractivityMediaDocuments over interaction channel. SMS as an interaction method.	0	0	0	0	0	7		
BCAST-1.0-DIST-INT-305	Associating content with interactivity. Reception of InteractivityMediaDocuments over broadcast file distribution. MMS as an interaction method.	0	0	0	0	0	7		
BCAST-1.0-DIST-INT-306	Associating content with interactivity. Retrieval of InteractivityMediaDocuments over interaction channel. MMS as an interaction method.	0	0	0	0	0	7		
BCAST-1.0-DIST-INT-401	Opening an Ipsec encrypted stream with key material associated to the subscription.	1	0	0	0	1	5		
BCAST-1.0-DIST-INT-402	Opening an SRTP encrypted stream with key material associated to the subscription.	1	1	0	2	0	3		
BCAST-1.0-DIST-INT-403	Opening an ISMACrypt encrypted stream with key material associated to the subscription.	2	2	0	1	0	3		
BCAST-1.0-DIST-INT-404	Test that GBA bootstrapping with the BSM is successfully achieved. Test that the SRK is correctly generated in the terminal. Smartcard is MBMS only or MBMS/BCAST.	34	32	2	1	0	2		
BCAST-1.0-DIST-INT-405	Test that SQN error is detected by the terminal during a GBA bootstrapping Smartcard is MBMS only or MBMS/BCAST	3	3	0	5	0	29		

Test Case id:	Description:	Test Counts						PR:	Note:
		R	P	F	O	I	N/A		
BCAST-1.0-DIST-INT-406	Test that correct behaviour is observed when bootstrapping data has expired. Test that a new SRK is correctly generated in the terminal. Smartcard is MBMS only or MBMS/BCAST	19	19	0	15	0	3		
BCAST-1.0-DIST-INT-407	Test that bootstrapping will not succeed when a different secret key K has been provisioned on the terminal and the server. Smartacrd is MBMS only ir MBMS/BCAST.	18	18	0	16	0	3		
BCAST-1.0-DIST-INT-408	Test that a deregistration flow can be processed by the server and terminal. Card is MBMS only or MBMS/BCAST	23	22	1	12	0	2		Note001
BCAST-1.0-DIST-INT-409	Test that a deregistration flow can be processed by the server and terminal when bootstrapping is required. Card is MBMS only or MBMS/BCAST.	20	19	1	14	0	3		Note001
BCAST-1.0-DIST-INT-411	Test that an LTKM without SPE and without consumption reporting flag can be successfully received over UDP, and that the terminal sends the LTKM to the smartcard which sends back a verification message.	6	5	1	23	0	8		Note001
BCAST-1.0-DIST-INT-600	Test that an LTKM without SPE and without Consumption reporting flag can be successfully received over UDP, and that the terminal does not send the LTKM to the BCAST smartcard.	3	2	1	27	0	7		Note001
BCAST-1.0-DIST-INT-601	Test that an LTKM with SPE can be successfully received over UDP, that the terminal does not send the LTKM to the MBMS only smartcard.	4	3	1	18	0	15		Note001
BCAST-1.0-DIST-INT-602	Test that an LTKM with SPE can be successfully received over UDP, that the terminal sends the LTKM to the BCAST smartcard which sends back a verification message.	21	20	1	13	0	3		Note001

Test Case id:	Description:	Test Counts						PR:	Note:
		R	**P**	**F**	**O**	**I**	**N/A**		
BCAST-1.0-DIST-INT-412	Test that an LTKM can be successfully requested by the terminal delivered over UDP to the terminal Test that a verification message is sent. MBMS/BCAST smartcard	14	13	1	20	0	3		Note001
BCAST-1.0-DIST-INT-413	Test that the BSM solicited pull procedure is correctly understood by the terminal and that the terminal is then able to request the LTKM update. Smartcard is MBMS only or BCAST.	7	6	1	24	0	6		Note001
BCAST-1.0-DIST-INT-414	Test that the BSM solicited pull procedure initiation over SMS bearer is correctly understood by the terminal and that the terminal is then able to request the LTKM update. Smartcard is BCAST.	3	2	1	26	0	8		Note001
BCAST-1.0-DIST-INT-603	Test that the BSM solicited pull procedure to initiate the Registration Procedure is correctly understood by the terminal and that the terminal is then able to request the LTKM update. Smartcard is MBMS only or BCAST.	8	7	1	23	0	6		Note001
BCAST-1.0-DIST-INT-604	Test that an LTKM will be rejected if TS received is less than or equal to the last received TS stored in smartcard. Smartcard is BCAST.	8	7	1	24	0	4		Note001
BCAST-1.0-DIST-INT-605	Set of live_ppt_purse associated with a key group, SPE=0x00 The live_ppt_purse created in this test will be used by subsequent tests for set mode, add mode and overflow. Smartcard is BCAST.	2	2	0	28	0	7		
BCAST-1.0-DIST-INT-606	Test of set mode for the live_ppt_purse associated with a key group, SPE=0x00 Set mode executed on a already created purse. Smartcard is BCAST.	2	2	0	28	0	7		
BCAST-1.0-DIST-INT-607	Test of add mode for the live_ppt_purse associated with a key group, SPE=0x00 Smartcard is BCAST.	2	2	0	28	0	7		

Test Case id:	Description:	Test Counts						PR:	Note:
		R	**P**	**F**	**O**	**I**	**N/A**		
BCAST-1.0-DIST-INT-608	Test of overflow for the live_ppt_purse associated with a key group, SPE=0x00 Smartcard is BCAST.	2	2	0	28	0	7		
BCAST-1.0-DIST-INT-609	Set of playback_ppt_purse associated with a key group, SPE=0x01 The playback_ppt_purse created in this test will be used by subsequent tests for set mode, add mode and overflow. Smartcard is BCAST.	2	2	0	28	0	7		
BCAST-1.0-DIST-INT-610	Test for set mode for playback_ppt_purse associated with a key group, SPE=0x01 Set mode executed on a already created purse. Smartcard is BCAST.	2	2	0	28	0	7		
BCAST-1.0-DIST-INT-611	Test for add mode for playback_ppt_purse associated with a key group, SPE=0x01 Smartcard is BCAST.	2	2	0	28	0	7		
BCAST-1.0-DIST-INT-612	Test of overflow for playback_ppt_purse associated with a key group, SPE=0x01 Smartcard is BCAST.	2	2	0	28	0	7		
BCAST-1.0-DIST-INT-613	Set of user_purse associated with a NAF/SMK id The user_purse created in this test will be used by subsequent tests for set mode, add mode and overflow. Smartcard is BCAST.	2	2	0	28	0	7		
BCAST-1.0-DIST-INT-614	Test for set mode for user_purse associated with NAF/SMK id Set mode executed on a already created purse. Smartcard is BCAST.	2	2	0	28	0	7		
BCAST-1.0-DIST-INT-615	Test for add mode for user_purse associated with NAF/SMK id Smartcard is BCAST.	2	2	0	28	0	7		
BCAST-1.0-DIST-INT-616	Test of overflow for user_purse associated with NAF/SMK id Smartcard is BCAST.	2	2	0	28	0	7		

Test Case id:	Description:	Test Counts						PR:	Note:
		R	P	F	O	I	N/A		
BCAST-1.0-DIST-INT-617	Set of Playback counter associated with a SEK/PEK id, SPE=0x07 The playback counter created in this test will be used by subsequent tests for set mode, add mode and overflow. Smartcard is BCAST.	2	2	0	26	0	9		
BCAST-1.0-DIST-INT-618	Test for set mode for Playback counter associated with a SEK/PEK id, SPE=0x07 Set mode executed on a already created playback counter Smartcard is BCAST.	2	2	0	26	0	9		
BCAST-1.0-DIST-INT-619	Test for add mode for Playback counter associated with a SEK/PEK id, SPE=0x07 Smartcard is BCAST.	2	2	0	26	0	9		
BCAST-1.0-DIST-INT-620	Test for overflow of Playback counter associated with a SEK/PEK id, SPE=0x07 Smartcard is BCAST.	2	2	0	26	0	9		
BCAST-1.0-DIST-INT-621	Set of TEK counter associated with a SEK/PEK id The TEK counter created in this test will be used by subsequent tests for set mode, add mode and overflow Smartcard is BCAST and shall support SPE=0x0C or SPE=0x0D.	0	0	0	31	0	6		
BCAST-1.0-DIST-INT-622	Test for set mode for TEK counter associated with SEK/PEK id Set mode executed on a already created TEK counter Smartcard is BCAST and shall support SPE=0x0C or SPE=0x0D..	0	0	0	31	0	6		
BCAST-1.0-DIST-INT-623	Test for add mode for TEK counter associated with SEK/PEK id Smartcard is BCAST and shall support SPE=0x0C or SPE=0x0D..	0	0	0	31	0	6		
BCAST-1.0-DIST-INT-624	Test of overflow for TEK counterassociated with SEK/PEK id Smartcard is BCAST and shall support SPE=0x0C or SPE=0x0D..	0	0	0	31	0	6		
BCAST-1.0-DIST-INT-625	Send an LTKM with SPE extention, but the value is not supported by the card Smartcard is BCAST.	2	1	1	30	0	5		Note001

Test Case id:	Description:	Test Counts						PR:	Note:
		R	**P**	**F**	**O**	**I**	**N/A**		
BCAST-1.0-DIST-INT-430	Test that the Smartcard correctly parses STKMs Smartcard is BCAST	12	11	1	25	0	0		Note001
BCAST-1.0-DIST-INT-431	Test that the Smartcard correctly parses STKMs	1	0	1	22	0	14		Note001
BCAST-1.0-DIST-INT-432	Test that an STKM cannot be processed by a smartcard that doesn't store the correcponding SEK/PEK (wrong Key Domain ID) and that the TEK isn't returned. Smartcard is BCAST.	5	4	1	27	0	5		Note001
BCAST-1.0-DIST-INT-433	Test that an STKM cannot be processed by a smartcard that doesn't store the correcponding SEK/PEK (wrong Key Domain ID)and that the TEK isn't returned. Smartcard is BCAST.	9	8	1	23	0	5		Note001
BCAST-1.0-DIST-INT-626	Key Validity data check. Test that an STKM cannot processed by the smartcard and the TEK isn't returned when TS is lower that TSlow or higher than TShigh.	5	4	1	27	0	5		Note001
BCAST-1.0-DIST-INT-439	BSM / BSDA sends an LTKM with the security policy extension 0x0A to delete keys associated to the given SEK/PEK ID. SPE=0x0A is supported by the smartcard	5	4	1	27	0	5		Note001
BCAST-1.0-DIST-INT-627	BSM / BSDA sends an LTKM with TSlow>TShigh to delete data associated to the given SPE and SEK/PEK ID.	5	4	1	27	0	5		Note001
BCAST-1.0-DIST-INT-628	STKM processing when LTKM SPE=0x00, with token decrease in live_ppt_purse	1	0	1	31	0	5		Note001
BCAST-1.0-DIST-INT-629	STKM processing when LTKM SPE=0x01, with token decrease in playback_ppt_purse	1	0	1	31	0	5		Note001
BCAST-1.0-DIST-INT-630	STKM processing when LTKM SPE=0x02, with decrease of user_purse token	1	0	1	31	0	5		Note001
BCAST-1.0-DIST-INT-631	STKM processing when LTKM SPE=0x07, with decrease of playback_counter	1	0	1	28	0	8		Note001

Test Case id:	Description:	Test Counts						PR:	Note:
		R	**P**	**F**	**O**	**I**	**N/A**		
BCAST-1.0-DIST-INT-632	STKM processing when LTKM SPE=0x0C, with decrease of TEK counter	1	0	1	31	0	5		Note001
BCAST-1.0-DIST-INT-633	STKM processing when several SPE allowing live content are available. Test that STKM are processed by LTKM SPE priority order. Subscrption valid (SPE=0x04) case	1	0	1	31	0	5		Note001
BCAST-1.0-DIST-INT-634	STKM processing when several SPE allowing live content are available. Test that STKM are processed by LTKM SPE priority order. No subscription (SPE=0x04)	1	0	1	31	0	5		Note001
BCAST-1.0-DIST-INT-635	STKM processing when several SPE allowing playback are available. Test that STKM are processed by LTKM SPE priority order. Unlimited playback (SPE=0x05) case	1	0	1	31	0	5		Note001
BCAST-1.0-DIST-INT-636	STKM processing when several SPE allowing playback are available. Test that STKM are processed by LTKM SPE priority order. No unlimited playback (SPE=0x05) case	1	0	1	31	0	5		Note001
BCAST-1.0-DIST-INT-637	STKM processing when several LTKM are available with same SPE. Testing that STKM are processed in KV priority order. Test with SPE=0x00 (service token PPT)	1	0	1	31	0	5		Note001
BCAST-1.0-DIST-INT-638	STKM processing when sent to different SPE sharing the same user purse. User purse common to SPE=0x02, 0x03, 0x08, 0x09. Card is BCAST	1	0	1	31	0	5		Note001
BCAST-1.0-DIST-INT-456	BSM / BSDA sends several STKMs to the terminal / smartcard with different parental rating-value	1	0	1	28	0	8		Note001
BCAST-1.0-DIST-INT-457	BSM / BSDA sends several STKMs to the terminal / smartcard with different parental rating-value	1	0	1	28	0	8		Note001
BCAST-1.0-DIST-INT-458	Test that video and audio streams protected with same STKM stream can be processed..	8	7	1	26	0	3		Note001

Test Case id:	Description:	Test Counts						PR:	Note:
		R	P	F	O	I	N/A		
BCAST-1.0-DIST-INT-459	Test that video and audio streams protected with different STKM streams can only be accessed when both streams are available.	1	0	1	32	0	4		Note001
BCAST-1.0-DIST-INT-460	Opening an Ipsec encrypted stream with key material associated to the subscription.	0	0	0	1	0	35		
BCAST-1.0-DIST-INT-461	Opening an SRTP encrypted stream with key material associated to the subscription.	5	5	0	5	0	28		
BCAST-1.0-DIST-INT-462	Opening an ISMACrypt encrypted stream with key material associated to the subscription.	5	5	0	2	0	30		
BCAST-1.0-DIST-INT-501	The purpose of this test is to check that the terminal correctly receives provisioning messages using TP-7 over the interactive channel.	0	0	0	0	0	25		
BCAST-1.0-DIST-INT-502	The purpose of this test is to check that the terminal correctly receives an update of an provisioning messages using TP-7 over the interactive channel.	0	0	0	0	0	25		
BCAST-1.0-DIST-INT-503	The purpose of this test is to check that the terminal declares the Terminal Provisioning as a Service within Service Guide correctly and the fragments are correctly send to the tool and checked.	0	0	0	6	0	18		
BCAST-1.0-DIST-INT-504	The purpose of this test is to check that the terminal declares the Terminal Provisioning as an access of a Service within Service Guide correctly and the fragments are correctly send to the tool and checked.	0	0	0	6	0	18		

Table 2. Test Case Counts

Notes:

001	Interoperability Error between Client and Server

5.3   Problem Reports

During the activities for TestFest-23, the following problem reports were generated relating to the test materials and test process:

PR Number	Affecting	Description	Test Case reference / Specification reference
0021	OMA-ETS-BCAST CON Client-V1 0-20070424-D.doc	Error in testcase 5.10.1.2, 5.10.2.2 and 5.10.3.2 in Enabler Test Specification CONF BCAST 1.0	Conformance Enabler Test Specification for BCAST, 1.05.10.1.2, 5.10.2.2 and 5.10.3.2
0022	OMA-ETS-BCAST_INT-V1_0-20070807-C	The ETS interoperability document has not been updated to take into account the new SCR tables that appears in the EICS document.	OMA-ETS-BCAST_INT-V1_0-20070807-C
0023	OMA-TS-BCAST_SvcCntProtection-V1_0-20070907-C	Unclear encoding of length field for "OMA BCAST operation response Data Object Length (L1)	OMA-TS-BCAST_SvcCntProtection-V1_0-20071218-D.doc chapter E.1.2.1 table 75
0024	OMA-ETS-BCAST_CON_Client-V1_0-20071004-D	The term "Service provisioning" is used ambiguously in ETS and BCAST Service Spec	ETS: chapter 5.1 TS: 5.1
0025	OMA-TS-BCAST_SvcCntProtection-V1_0-20070907-C	ID payload type for IDi in MIKEY for LTKM is unclear	OMA-TS-BCAST_SvcCntProtection-V1_0-20070907-C

Full details of the Problem Reports can be found at:

   http://www.openmobilealliance.org/TestFests/Problem_Reporting.aspx

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
Initial Release	11th April 2008	All	First Version from TestFest-23
	11th April 2008	5.1/5.3	Visibility of participant/Addition of PR 0021, 0022