



## **Enabler Test Report Broadcast (BCAST) v1.0**

OMA TestFest (September 2007)  
Version 5th October 2007

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Open Mobile Alliance  
OMA-EnablerTestReport-TestFest-20\_5-Sep2007-BCAST-10-20071010

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# 1. Scope

This report describes the results from the testing carried out at OMA TestFest-20.5 (September 2007) concerning the 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/](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](http://www.ietf.org/rfc/rfc2119.txt)
- [ERELD] Enabler Release Definition, OMA-ERELD-BCAST-V1\_0-20070529-C, [URL:http://www.openmobilealliance.org/](http://www.openmobilealliance.org/)
- [BCAST\_SPEC] Enabler Release Package, OMA-ERP-BCAST-V1\_0-20070529-C, [URL:http://www.openmobilealliance.org/](http://www.openmobilealliance.org/)
- [ETS] Enabler Test Specification OMA-ETS-BCAST\_INT-V1\_0-20070807-C, [URL:http://www.openmobilealliance.org/](http://www.openmobilealliance.org/)
- [EVP] Enabler Validation Plan OMA-EVP-BCAST-V1\_0-20070807-C; [URL:http://www.openmobilealliance.org/](http://www.openmobilealliance.org/)
- [BCAST\_EICS] BCAST version 1.0 Enabler Implementation Conformance Statement (EICS), <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

EICS	Enabler Implementation Conformance Statement
ERELED	Enabler Release Definition
ERP	Enabler Release Package
EVP	Enabler Validation Plan
ETS	Enabler Test Specification
IMPS	Instant Messaging Presence Service
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-20.5 (September 2007) for 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.

<b>Date:</b>	21 <sup>st</sup> to 28 <sup>th</sup> September 2007
<b>Location:</b>	Düsseldorf, Germany
<b>Enabler:</b>	Broadcast (BCAST) v1.0
<b>Process:</b>	OMA Interoperability Policy and Process [IOPPROC]
<b>Type of Testing</b>	Interoperability Testing
<b>Products tested:</b>	Client-to-Server, Client-to-Smartcard-to-Server-to-BSF
<b>Test Guidelines:</b>	BCAST 1.0 Enabler Test Guidelines - OMA-EVP-BCAST-V1_0-20070807-C [EVP]
<b>Test Specification:</b>	BCAST Enabler Test Specification - OMA-ETS-BCAST_INT-V1_0-20070807-C [ETS]
<b>Test Tool:</b>	None
<b>Test Code:</b>	None
<b>Type of Test event:</b>	TestFest
<b>Participants:</b>	Discretix, Expway, Irdeto, LG1, LG2, LG3, Roundbox, Silicon & Software Sys. Ltd, Gemalto, Giesecke & Devrient, Oberthur Card Systems, Sagem Orga GmbH, CoreMedia, Expway, Irdeto, Nagravision, Nokia, Rohde & Schwarz, SafeNet, Thomson, Netzwert AG, Nokia Siemens Networks, SafeNet and 2 other Participants.
<b>Number of Client Implementations:</b>	10
<b>Participating Technology Providers for clients:</b>	Discretix, Expway, Irdeto, LG1, LG2, LG3, Roundbox, Silicon & Software Sys. Ltd and 2 other Clients.
<b>Implementation IDs for each client:</b>	Discretix MobileTV Secure Client, FastESG Client BCast Edition, OMA BCAST SCP Client, LG_BcastClient_DRMP, LG_BcastClient, LG_BcastClient, ESG Client, onHandTV and 2 other Implementations.
<b>Number of Smartcard Implementations:</b>	4
<b>Participating Technology Providers for Smartcards:</b>	Gemalto, Giesecke & Devrient, Oberthur Card Systems, Sagem Orga GmbH
<b>Implementation IDs for each Smartcard:</b>	Gemalto Enhanced MBMS UICC, UniverSIM Cassiopeia, SIMphonIC 3G Advanced, SIMply TV 256 R2.4
<b>Number of Server Implementations:</b>	8
<b>Participating Technology Providers for servers:</b>	CoreMedia, Expway, Irdeto, Nagravision, Nokia, Rohde & Schwarz, SafeNet, Thomson

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<b>Implementation IDs for each server:</b>	CoreMedia Mobile TV Platform, FastESG Server BCast Edition, OMA BCAST Server, Nagra MobileTV SCP, Mobile Broadcast Solution, DV-DVBH, SafeNet Toolkit4TV, Thomson Smartcast
<b>Number of BSF Implementations:</b>	3
<b>Participating Technology Providers for BSFs:</b>	Netzwert AG, Nokia Siemens Networks, SafeNet
<b>Implementation IDs for each BSF:</b>	NeMIP BSF Server, Unified Attachment Node, SafeNet BSF
<b>Number of test sessions completed:</b>	56

## 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 TCs	56	15	46	1	780	13	0	840
Clients to Server TCs	56	23	198	7	996	87	0	1288
Client to Smartcard to Server TCs	56	57	110	0	2064	957	61	3192
<b>Total</b>	<b>56</b>	<b>95</b>	<b>354</b>	<b>8</b>	<b>3840</b>	<b>1057</b>	<b>61</b>	<b>5320</b>

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 Instant Messaging and Presence Service V1.3 Enabler TestFest taken from OMA-ETS-IMPS\_CSP\_INT-V1\_3-20060530-C.doc

Test Case id:	Description:	Test Counts						PR:	Note:
		R	P	F	O	I	N/A		
BCAST-1.0-DIST-int-101	Bootstrapping a service with content. Associating content with service. This test case also tests that the reception of the SG is performed correctly.	32	31	1	2	0	22		
BCAST-1.0-DIST-int-102	Use Web portal URL in Purchase fragment of Service Guide to provide entry point for web based provisioning.	3	3	0	1	0	52		
BCAST-1.0-DIST-int-103	Updating description of content. This test case also tests that the update of the SG is performed correctly – Broadcast channel.	24	22	2	4	0	28		
BCAST-1.0-DIST-int-104	Updating description of content. This test case also tests that the update of the SG is performed correctly – Interaction channel.	0	0	0	1	0	55		

Test Case id:	Description:	Test Counts						PR:	Note:
		R	P	F	O	I	N/A		
BCAST-1.0-DIST-int-105	Applying the associated access and session description parameters with content – Broadcast channel.	27	25	2	4	0	25		
BCAST-1.0-DIST-int-106	Applying the associated access and session description parameters with content – Interaction channel.	0	0	0	1	0	55		
BCAST-1.0-DIST-int-107	Testing the case where the SGDU is GZIP compressed.	30	30	0	2	0	24		
BCAST-1.0-DIST-int-108	Associating content with service.	29	28	1	2	0	25		
BCAST-1.0-DIST-int-109	Associating preview data with service.	24	24	0	2	0	30		
BCAST-1.0-DIST-int-110	Associating preview data with service.	0	0	0	1	0	55		
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.	6	6	0	5	0	45		
BCAST-1.0-DIST-int-112	Associating Service with provisioning information and applying the latter for subscription.	0	0	0	1	0	55		
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	1	0	55		
BCAST-1.0-DIST-int-202	To test the support of the in-band delivery of the metadata associated with file distributed using FLUTE	17	17	0	2	0	37		
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	1	0	55		

Test Case id:	Description:	Test Counts						PR:	Note:
		R	P	F	O	I	N/A		
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	1	0	55		
BCAST-1.0-DIST-int-205	The purpose of this test is to test if the file repair is correctly performed	0	0	0	1	0	55		
BCAST-1.0-DIST-int-206	The purpose of this test the report of the reception of a successful download	0	0	0	1	0	55		
BCAST-1.0-DIST-int-207	The purpose of this test is to test the report of the SDP handling and control with RTSP	0	0	0	1	0	55		
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	25	24	1	2	0	29		
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	3	3	0	1	0	52		
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	1	1	0	1	0	54		
BCAST-1.0-DIST-int-211	The purpose of this test is to test the support of the streaming associated procedure	1	1	0	1	0	54		
BCAST-1.0-DIST-int-301	Associating content with interactivity. Reception of InteractivityMediaDocuments over broadcast file distribution. XHTML MP as an interaction method.	1	1	0	1	0	54		

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	1	0	55		
BCAST-1.0-DIST-int-303	Associating content with interactivity. Reception of InteractivityMediaDocuments over broadcast file distribution. SMS as an interaction method.	8	8	0	1	0	47		
BCAST-1.0-DIST-int-304	Associating content with interactivity. Retrieval of InteractivityMediaDocuments over interaction channel. SMS as an interaction method.	0	0	0	1	0	55		
BCAST-1.0-DIST-int-305	Associating content with interactivity. Reception of InteractivityMediaDocuments over broadcast file distribution. MMS as an interaction method.	1	1	0	1	0	54		
BCAST-1.0-DIST-int-306	Associating content with interactivity. Retrieval of InteractivityMediaDocuments over interaction channel. MMS as an interaction method.	0	0	0	1	0	55		
BCAST-1.0-DIST-int-401	Opening an Ipsec encrypted stream with key material associated to the subscription.	0	0	0	7	0	49	0012 0014	
BCAST-1.0-DIST-int-402	Opening an SRTP encrypted stream with key material associated to the subscription.	5	5	0	9	0	42	0012 0014	
BCAST-1.0-DIST-int-403	Opening an ISMACrypt encrypted stream with key material associated to the subscription.	5	4	1	9	0	42	0012 0014	

Test Case id:	Description:	Test Counts						PR:	Note:
		R	P	F	O	I	N/A		
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	15	15	0	14	0	27		
BCAST-1.0-DIST-int-405	Test that SQN error is detected by the terminal during a GBA bootstrapping	8	8	0	21	0	27		
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	15	15	0	14	0	27		
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.	15	15	0	14	0	27		
BCAST-1.0-DIST-int-408	Test that a deregistration flow can be processed by the server and terminal.	7	7	0	13	0	36		
BCAST-1.0-DIST-int-409	Test that a deregistration flow can be processed by the server and terminal when bootstrapping is required.	3	3	0	17	0	36		
BCAST-1.0-DIST-int-410	Test that SMK and SRK derivation from pre-provisioned SCK in the terminal are successful.	0	0	0	0	0	56		
BCAST-1.0-DIST-int-411	Test that an LTKM can be successfully received over UDP at the smartcard which sends a verification message.	9	3	0	13	6	34		
BCAST-1.0-DIST-int-412	Test that an LTKM can be successfully requested by the terminal and successfully be delivered over UDP at the terminal / smartcard and send a verification message.	9	3	0	13	6	34		

Test Case id:	Description:	Test Counts						PR:	Note:
		R	P	F	O	I	N/A		
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.	1	1	0	20	0	35		
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.	0	0	0	18	0	38		
BCAST-1.0-DIST-int-415	Test that an LTKM with EXT BCAST field can be successfully received over UDP at the terminal / smartcard and a verification message is sent.	10	4	0	11	6	35		
BCAST-1.0-DIST-int-416	Test that the BSM receives a verification message when a BSM pushes an LTKM message to the terminal/Smartcard. (See BCAST-1.0-DIST-int-415)	1	0	0	18	1	37		
BCAST-1.0-DIST-int-417	Test that the BSM receives a verification message when a BSM pushes an LTKM message to the terminal/Smartcard. (See BCAST-1.0-DIST-int-415)	1	0	0	18	1	37		
BCAST-1.0-DIST-int-418	Test that the BSM receives a verification message when a BSM pushes an LTKM message to the terminal/Smartcard. (See BCAST-1.0-DIST-int-415)	1	0	0	18	1	37		
BCAST-1.0-DIST-int-419	Test that the BSM receives a verification message when a BSM pushes an LTKM message to the terminal/Smartcard. (See BCAST-1.0-DIST-int-415)	1	0	0	18	1	37		

Test Case id:	Description:	Test Counts						PR:	Note:
		R	P	F	O	I	N/A		
BCAST-1.0-DIST-int-420	Test that the BSM receives a verification message when a BSM pushes an LTKM message to the terminal/Smartcard. (See BCAST-1.0-DIST-int-415)	1	0	0	18	1	37		
BCAST-1.0-DIST-int-421	Test that the BSM receives a verification message when a BSM pushes an LTKM message to the terminal/Smartcard. (See BCAST-1.0-DIST-int-415)	1	0	0	18	1	37		
BCAST-1.0-DIST-int-422	Test that the BSM receives a verification message when a BSM pushes an LTKM message to the terminal/Smartcard. (See BCAST-1.0-DIST-int-415)	1	0	0	18	1	37		
BCAST-1.0-DIST-int-423	Test that the BSM receives a verification message when a BSM pushes an LTKM message to the terminal/Smartcard. (See BCAST-1.0-DIST-int-415)	1	0	0	18	1	37		
BCAST-1.0-DIST-int-424	Test that the BSM receives a verification message when a BSM pushes an LTKM message to the terminal/Smartcard. (See BCAST-1.0-DIST-int-415)	1	0	0	18	1	37		
BCAST-1.0-DIST-int-425	Test that the BSM receives a verification message when a BSM pushes an LTKM message to the terminal/Smartcard. (See BCAST-1.0-DIST-int-415)	1	0	0	18	1	37		
BCAST-1.0-DIST-int-426	Test that the BSM receives a verification message when a BSM pushes an LTKM message to the terminal/Smartcard. (See BCAST-1.0-DIST-int-415)	1	0	0	18	1	37		
BCAST-1.0-DIST-int-427	Test that the BSM receives a verification message when a BSM pushes an LTKM message to the terminal/Smartcard. (See BCAST-1.0-DIST-int-415)	1	0	0	18	1	37		

Test Case id:	Description:	Test Counts						PR:	Note:
		R	P	F	O	I	N/A		
BCAST-1.0-DIST-int-428	Test that the BSM receives a verification message when a BSM pushes an LTKM message to the terminal/Smartcard. (See BCAST-1.0-DIST-int-415)	1	0	0	18	1	37		
BCAST-1.0-DIST-int-429	Test that the BSM receives a verification message when a BSM pushes an LTKM message to the terminal/Smartcard. (See BCAST-1.0-DIST-int-415)	1	0	0	18	1	37		
BCAST-1.0-DIST-int-430	Test that the Smartcard correctly parses STKMs	7	7	0	8	0	41		
BCAST-1.0-DIST-int-431	Test that the Smartcard correctly parses STKMs	10	9	0	11	1	35		
BCAST-1.0-DIST-int-432	Test that an STKM cannot be processed by the smartcard and the TEK isn't returned.	6	5	0	15	1	35		
BCAST-1.0-DIST-int-433	Test that an STKM cannot be processed by the smartcard and the TEK isn't returned.	6	5	0	15	1	35		
BCAST-1.0-DIST-int-434	Test that an LTKM delivery protected with invalid validity data cannot be used by the terminal	5	4	0	17	1	34		
BCAST-1.0-DIST-int-435	Test that an STKM cannot processed by the smartcard and the TEK isn't returned.	2	1	0	20	1	34		
BCAST-1.0-DIST-int-436	Test that an STKM cannot be processed by the smartcard when the SEK/PEK has been invalidated and that the TEK isn't returned.	1	0	0	20	1	35		
BCAST-1.0-DIST-int-437	Test that an STKM cannot processed by the smartcard and the TEK isn't returned.	1	0	0	20	1	35		
BCAST-1.0-DIST-int-438	Test that an STKM cannot processed by the smartcard and the TEK isn't returned.	1	0	0	20	1	35		

Test Case id:	Description:	Test Counts						PR:	Note:
		R	P	F	O	I	N/A		
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.	1	0	0	18	1	37		
BCAST-1.0-DIST-int-440	BSM / BSDA deliberately sends an STKM already sent to the terminal / smartcard (32-bit counter timestamp field has previously been used). Repeat STKM is not detected by the terminal and sent to the Smartcard. Depending on LTKM security_policy_extension value, smartcard accepts or rejects the STKM (replay allowed or not)	1	0	0	18	1	37		
BCAST-1.0-DIST-int-441	BSM / BSDA deliberately sends an STKM already sent to the terminal / smartcard (32-bit counter timestamp field has previously been used). Repeat STKM is not detected by the terminal and sent to the Smartcard. Depending on LTKM security_policy_extension value, smartcard accepts or rejects the STKM (replay allowed or not)	1	0	0	18	1	37		
BCAST-1.0-DIST-int-442	BSM / BSDA deliberately sends an STKM already sent to the terminal / smartcard (32-bit counter timestamp field has previously been used). Repeat STKM is not detected by the terminal and sent to the Smartcard. Depending on LTKM security_policy_extension value, smartcard accepts or rejects the STKM (replay allowed or not)	1	0	0	18	1	37		

Test Case id:	Description:	Test Counts						PR:	Note:
		R	P	F	O	I	N/A		
BCAST-1.0-DIST-int-443	BSM / BSDA deliberately sends an STKM already sent to the terminal / smartcard (32-bit counter timestamp field has previously been used). Repeat STKM is not detected by the terminal and sent to the Smartcard. Depending on LTKM security_policy_extension value, smartcard accepts or rejects the STKM (replay allowed or not)	1	0	0	18	1	37		
BCAST-1.0-DIST-int-444	BSM / BSDA deliberately sends an STKM already sent to the terminal / smartcard (32-bit counter timestamp field has previously been used). Repeat STKM is not detected by the terminal and sent to the Smartcard. Depending on LTKM security_policy_extension value, smartcard accepts or rejects the STKM (replay allowed or not)	1	0	0	18	1	37		
BCAST-1.0-DIST-int-445	BSM / BSDA deliberately sends an STKM already sent to the terminal / smartcard (32-bit counter timestamp field has previously been used). Repeat STKM is not detected by the terminal and sent to the Smartcard. Depending on LTKM security_policy_extension value, smartcard accepts or rejects the STKM (replay allowed or not)	1	0	0	18	1	37		

Test Case id:	Description:	Test Counts						PR:	Note:
		R	P	F	O	I	N/A		
BCAST-1.0-DIST-int-446	BSM / BSDA deliberately sends an STKM already sent to the terminal / smartcard (32-bit counter timestamp field has previously been used). Repeat STKM is not detected by the terminal and sent to the Smartcard. Depending on LTKM security_policy_extension value, smartcard accepts or rejects the STKM (replay allowed or not)	1	0	0	18	1	37		
BCAST-1.0-DIST-int-447	BSM / BSDA deliberately sends an STKM already sent to the terminal / smartcard (32-bit counter timestamp field has previously been used). Repeat STKM is not detected by the terminal and sent to the Smartcard. Depending on LTKM security_policy_extension value, smartcard accepts or rejects the STKM (replay allowed or not)	1	0	0	18	1	37		
BCAST-1.0-DIST-int-448	BSM / BSDA deliberately sends an STKM already sent to the terminal / smartcard (32-bit counter timestamp field has previously been used). Repeat STKM is not detected by the terminal and sent to the Smartcard. Depending on LTKM security_policy_extension value, smartcard accepts or rejects the STKM (replay allowed or not)	1	0	0	18	1	37		

Test Case id:	Description:	Test Counts						PR:	Note:
		R	P	F	O	I	N/A		
BCAST-1.0-DIST-int-449	BSM / BSDA deliberately sends an STKM already sent to the terminal / smartcard (32-bit counter timestamp field has previously been used). Repeat STKM is not detected by the terminal and sent to the Smartcard. Depending on LTKM security_policy_extension value, smartcard accepts or rejects the STKM (replay allowed or not)	1	0	0	18	1	37		
BCAST-1.0-DIST-int-450	BSM / BSDA deliberately sends an STKM already sent to the terminal / smartcard (32-bit counter timestamp field has previously been used). Repeat STKM is not detected by the terminal and sent to the Smartcard. Depending on LTKM security_policy_extension value, smartcard accepts or rejects the STKM (replay allowed or not)	1	0	0	17	1	38		
BCAST-1.0-DIST-int-451	BSM / BSDA deliberately sends an STKM already sent to the terminal / smartcard (32-bit counter timestamp field has previously been used). Repeat STKM is not detected by the terminal and sent to the Smartcard. Depending on LTKM security_policy_extension value, smartcard accepts or rejects the STKM (replay allowed or not)	1	0	0	17	1	38		

Test Case id:	Description:	Test Counts						PR:	Note:
		R	P	F	O	I	N/A		
BCAST-1.0-DIST-int-452	BSM / BSDA deliberately sends an STKM already sent to the terminal / smartcard (32-bit counter timestamp field has previously been used). Repeat STKM is not detected by the terminal and sent to the Smartcard. Depending on LTKM security_policy_extension value, smartcard accepts or rejects the STKM (replay allowed or not)	1	0	0	17	1	38		
BCAST-1.0-DIST-int-453	BSM / BSDA deliberately sends an STKM already sent to the terminal / smartcard (32-bit counter timestamp field has previously been used). Repeat STKM is not detected by the terminal and sent to the Smartcard. Depending on LTKM security_policy_extension value, smartcard accepts or rejects the STKM (replay allowed or not)	1	0	0	17	1	38		
BCAST-1.0-DIST-int-454	BSM / BSDA deliberately sends an STKM already sent to the terminal / smartcard (32-bit counter timestamp field has previously been used). Repeat STKM is not detected by the terminal and sent to the Smartcard. Depending on LTKM security_policy_extension value, smartcard accepts or rejects the STKM (replay allowed or not)	1	0	0	17	1	38		
BCAST-1.0-DIST-int-455	BSM / BSDA sends several identical STKMs to the terminal / smartcard with the same TEK (MTK ID field in MIKEY EXT payload is the same) and the same TS. Ensure repeat STKM is detected by the terminal and STKM is not sent to the smartcard.	1	0	0	17	1	38		

Test Case id:	Description:	Test Counts						PR:	Note:
		R	P	F	O	I	N/A		
BCAST-1.0-DIST-int-456	BSM / BSDA sends several STKMs to the terminal / smartcard with different parental rating-value	1	0	0	16	1	39		
BCAST-1.0-DIST-int-457	BSM / BSDA sends several STKMs to the terminal / smartcard with different parental rating-value	1	0	0	16	1	39		
BCAST-1.0-DIST-int-458	Test that video and audio streams protected with same STKM stream can be processed..	6	5	0	16	1	34		
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	0	20	1	35		
BCAST-1.0-DIST-int-460	Opening an Ipsec encrypted stream with key material associated to the subscription.	0	0	0	19	0	37		
BCAST-1.0-DIST-int-461	Opening an SRTP encrypted stream with key material associated to the subscription.	5	5	0	17	0	34		
BCAST-1.0-DIST-int-462	Opening an ISMACrypt encrypted stream with key material associated to the subscription.	5	5	0	17	0	34		
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	56		
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	56		

Test Case id:	Description:	Test Counts						PR:	Note:
		R	P	F	O	I	N/A		
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	0	0	56		
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	0	0	56		

Table 2. Test Case Counts

## 5.3 Problem Reports

During the activities for TestFest-20.5, the following problem reports were generated relating to the test materials and test process:

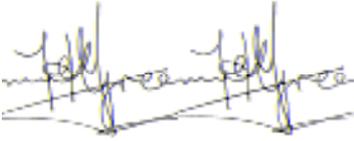
PR Number	Affecting	Description	Test Case reference / Specification reference
0010	OMA-TS-BCAST_Service_Guide-V1_0-20070529-C, OMA-TS-BCAST_Services-V1_0-20070529-C, OMA-AD-BCAST-V1_0-20070529-C, OMA-TS-BCAST_Distribution-V1_0-20070529-C, OMA-ERELD-BCAST-V1_0-20070529-C	In the OMA BCAST specification, in-lined preview data can be delivered over broadcasting channel. At the receiver, UE queries and store it from SG preview data fragment after updating SG. When UE stores it, a file name is necessary to create a file, where there is a big risk to use a file name which was already used. Therefore, it is better always to define a file name from SG in order to avoid this possible issue.	Unknown
0011	OMA-TS-BCAST_Service_Guide-V1_0-20070529-C	Specification Problem: Handling of Omitted Source IP Address Not Specified	Unknown
0012	OMA-TS-BCAST_Services-V1_0-20070529-C	Specification Problem: A problem in interoperability between BCAST and OMA standards, involving Server Client communication and DRM profile.	BCAST-1.0-DIST-int-401, BCAST-1.0-DIST-int-402, BCAST-1.0-DIST-int-403
0013	OMA-TS-BCAST_Service_Guide-V1_0-20070529-C	Specification Problem: Ambiguity in the specifications regarding the signalling of preview data logos delivery.	Unknown
0014	OMA-TS-BCAST_SvcCntProtection-V1_0-20070529-C	Ambiguity in test cases regarding DRM profile of SCP	BCAST-1.0-DIST-int-401, BCAST-1.0-DIST-int-402, BCAST-1.0-DIST-int-403
0015	OMA-TS-BCAST_SvcCntProtection-V1_0-20070529-C	Specification Problem: Use of RFC 4909 is not defined in BCAST specification	Unknown

Full details of the 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.

A handwritten signature in blue ink, appearing to read "OMA Trusted Zone". The signature is written in a cursive style with some vertical strokes.

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OMA Trusted Zone

## Appendix A. Change History (Informative)

Type of Change	Date	Section	Description
Initial Release	5 <sup>th</sup> October 2007	All	First Version from TestFest-20.5
Inclusion of participants comments (Revision)	8 <sup>th</sup> October 2007	5.2.2, 5.3	Details on what PRs related to which Test Case.