

Enabler Validation Plan for BCAST

Candidate Version 1.1 – 07 Dec 2010

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1 Scope

This document details the Validation plan for the BCAST 1.1 Enabler Release. The successful accomplishment of the validation activities will be required for the Enabler to be considered for Approved status.

Mobile Broadcast Services 1.1 (BCAST 1.1) provides 3 new BDSs (DVB-SH, Forward Link Only-IP, and WiMAX), enhancement of existing functions and new functions such as Audience Measurement, Rich Media Solution and Smartcard/Terminal Provisioning over Broadcast.

The validation plan for the BCAST 1.1 Enabler Release specifications is based on testing expectations in the Enabler Test Requirements (ETR). While the specific test activities to be performed are described in the Enabler Test Specification (ETS) the test environment is described in this plan. This test environment details infrastructure, operational and participation requirements identified for the needed testing activities.

1.1 Assumptions

None

1.2 Exclusions

None

2 References

2.1 Normative References

[BCAST1.1-FLO-IP Adaptation]	"Broadcast Distribution System Adaptation –Forward Link Only", Open Mobile Alliance [™] , OMA-TS-BCAST_FLO_Adaptation-V1_1, URL: <u>http://www.openmobilealliance.org/</u>
[BCAST1.1WiMAX- Adaptation]	"Broadcast Distribution System Adaptation – WiMAX", Open Mobile Alliance [™] , OMA-TS- BCAST_WiMAX_Adaptation-V1_1, URL: <u>http://www.openmobilealliance.org/</u>
[BCAST11-BCMCS- Adaptation]	"Broadcast Distribution System Adaptation – 3GPP2/BCMCS", Open Mobile Alliance [™] , OMA-TS-BCAST_BCMCS_Adaptation-V1_1, URL: <u>http://www.openmobilealliance.org/</u>
[BCAST11- Distribution]	"File and Stream Distribution for Mobile Broadcast Services", Open Mobile Alliance [™] , OMA- TS-BCAST_Distribution-V1_1, URL: <u>http://www.openmobilealliance.org/</u>
[BCAST11-DVBH- IPDC-Adaptation]	"Broadcast Distribution System Adaptation – IPDC over DVB-H", Open Mobile Alliance™, OMA-TS-BCAST_DVB_Adaptation-V1_1, URL: <u>http://www.openmobilealliance.org/</u>
[BCAST11-DVBSH- IPDC-Adaptation]	"Broadcast Distribution System Adaptation – IPDC over DVB-SH", Open Mobile Alliance™, OMA-TS-BCAST_DVBSH_Adaptation-V1_1, URL: <u>http://www.openmobilealliance.org/</u>
[BCAST11-ETR]	"Enabler Test Requirements for Mobile Broadcast Services", Open Mobile Alliance™, OMA- ETR-BCAST-V1_1, URL: <u>http://www.openmobilealliance.org/</u>
[BCAST11-MBMS- Adaptation]	"Broadcast Distribution System Adaptation – 3GPP/MBMS", Open Mobile Alliance™, OMA- TS-BCAST_MBMS_Adaptation-V1_1, URL: <u>http://www.openmobilealliance.org/</u>
[BCAST11- Requirements]	"Mobile Broadcast Services Requirements", Open Mobile Alliance™, OMA-RD-BCAST- V1_1, URL: <u>http://www.openmobilealliance.org/</u>
[BCAST11- ServContProt]	"Service and Content Protection for Mobile Broadcast Services", Open Mobile Alliance [™] , OMA-TS-BCAST_SvcCntProtection-V1_1, URL: <u>http://www.openmobilealliance.org/</u>
[BCAST11-Services]	"Mobile Broadcast Services", Open Mobile Alliance [™] , OMA-TS-BCAST_Services-V1_1, URL: <u>http://www.openmobilealliance.org/</u>
[BCAST11-SG]	"Service Guide for Mobile Broadcast Services", Open Mobile Alliance™, OMA-TS- BCAST_ServiceGuide-V1_1, URL: <u>http://www.openmobilealliance.org/</u>
[DRM20-Broadcast- Extensions]	"OMA DRM v2.0 Extensions for Broadcast Support", Open Mobile Alliance™, OMA-TS- DRM_XBS-V1_1-20091027-D, URL: <u>http://www.openmobilealliance.org/</u>
[DRM-v2.0]	"DRM Specification V2.0", Open Mobile Alliance™, OMA-DRM-DRM-V2_0, URL: <u>http://www.openmobilealliance.org/</u>

[IOPPROC]	"OMA Interoperability Policy and Process", Version 1.1, Open Mobile Alliance™, OMA-IOP- Process-V1_1, URL: <u>http://www.openmobilealliance.org/</u>		
[OMA DM 1.2]	"Enabler Release Definition for OMA Device Management v1.2", OMA-ERELD-DM-V1_2_0, Open Mobile Alliance ^{тм} , URL: <u>http://www.openmobilealliance.org/</u>		
[OMA DM 1.3]	"Enabler Release Definition for OMA Device Management v1.3", OMA-ERELD-DM-V1_3_0, Open Mobile Alliance [™] , URL: <u>http://www.openmobilealliance.org/</u>		
[RFC2119]	"Key words for use in RFCs to Indicate Requirement Levels", S. Bradner, March 1997, URL: <u>http://www.ietf.org/rfc/rfc2119.txt</u>		
[SCRRULES]	"SCR Rules and Procedures", Open Mobile Alliance™, OMA-ORG- SCR_Rules_and_Procedures, URL: <u>http://www.openmobilealliance.org/</u>		

2.2 Informative References

[BCAST11- Architecture]	"Mobile Broadcast Services Architecture", Open Mobile Alliance™, OMA-AD- BCAST-V1_1, URL: <u>http://www.openmobilealliance.org/</u>
[BCAST11-EICS- Client]	"Client Enabler Implementation Conformance Statement", Version 1.1, Open Mobile Alliance TM , OMA-EICS-BCAST_Client-V1_1, URL: <u>http://www.openmobilealliance.org/</u>
[BCAST11-EICS- Server]	"Server Enabler Implementation Conformance Statement", Version 1.1, Open Mobile Alliance [™] , OMA-EICS-BCAST_Server-V1_1, URL: <u>http://www.openmobilealliance.org/</u>
[BCAST11-ETS-IOP]	"Interoperability Enabler Test Specification for BCAST", Version 1.1, Open Mobile Alliance TM , OMA-ETS-BCAST_IOP-V1.1, URL: <u>http://www.openmobilealliance.org/</u>
[OMADICT]	"Dictionary for OMA Specifications", Open Mobile Alliance TM . Version 2.7, OMA-ORG-Dictionary-V2_7, URL: <u>http://www.openmobilealliance.org/</u>

3 Terminology and Conventions

3.1 Conventions

The key words "MUST", "MUST NOT", "REQUIRED", "SHALL", "SHALL NOT", "SHOULD", "SHOULD NOT", "RECOMMENDED", "MAY", and "OPTIONAL" in this document are to be interpreted as described in [RFC2119].

All sections and appendixes, except "Scope", are normative, unless they are explicitly indicated to be informative.

3.2 Definitions

Application	A value-added data service provided to a Client. The application may utilise BCAST and/or other ways of data transfer to deliver content
Bearer Network	A network used to carry the messages of a transport-layer protocol between physical devices. Multiple bearer networks may be used over the life of a single push session.
Client	A client is a device or service that expects to receive BCAST content from a server.
Content	Subject matter (data) stored or generated at an origin server. Content is typically displayed or interpreted by a user agent on a client.
Device	Is a network entity that is capable of sending and/or receiving packets of information and has a unique device address. A device can act as either a client or a server within a given context or across multiple contexts. For example, a device can service a number of clients (as a server) while being a client to another server.
End-user	See "user"
Server	A device (or service) which accepts or rejects a connection request from a client. A server may initiate a connection to a client or many clients as part of a service.
User	A user is a person who interacts with a user agent to view, hear, or otherwise use a rendered content. Also referred to as end-user.
User agent	A user agent (or content interpreter) is any software or device that interprets resources. This may include multimedia players, news tickers, etc.

3.3 Abbreviations

BDS Br	roadcast Distribution System
ETR En	nabler Test Requirements
ETS En	nabler Test Specification
GPRS Ge	eneral Packet Radio Service
HTTP Hy	ypertext Transfer Protocol
IP Int	ternet Protocol
MS M	obile Station
MSISDN M	obile Station International Subscriber Directory Number
OMA O _I	pen Mobile Alliance
QoS Qu	uality of Service
RFC Re	equest For Comments
TCP Tr	ransmission Control Protocol
UDP Us	ser Datagram Protocol
URI Ur	niform Resource Identifier

© 2010 Open Mobile Alliance Ltd. All Rights Reserved. Used with the permission of the Open Mobile Alliance Ltd. under the terms as stated in this document. URL Uniform Resource Locator

4 Enabler Validation Description

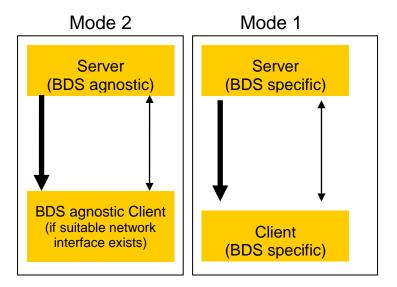
A full description of BCAST 1.1 can be found in the BCAST11-ERELD, ETR, TS and other documents mentioned in the references. For details see chapter 5.

5 TestFest Activities

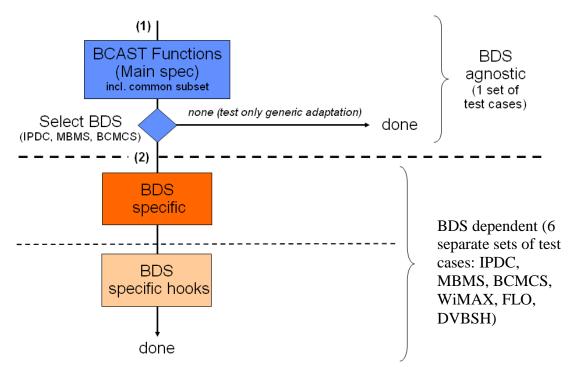
5.1 Enabler Test Guidelines

5.1.1 Minimal Test Configuration

The tests will be done with servers and matching clients i.e. testing a MBMS server against IPDC clients will not be planned.



In order to minimize the number of test cases the tests will be defined in four sets (BDS agnostic, IPDC, MBMS and BCMCS) so that the BDS agnostic parts don't need to be tested four times.



BDS specific tests can start at (2) if the BDS agnostic tests (between 1 and 2) have been passed.

5.1.2 Minimal Participation Guidelines

Minimum

• three client implementations

and

• three BCAST servers

are needed.

The clients and the servers have to match. Having e.g. one IPDC client, one MBMS client and one MBMS server is not sufficient.

In case a test fest is desirable to happen with less servers or clients such requests will be handled as exceptions. Privacy regarding test results could be handled in that way that test results are not published. Details will be negotiated with the test event organizer and the participants. Such exceptions have happened at test fests before.

5.1.3 Optimal TestFest Achievement Guidelines

The TestFest participants are expected to do as much testing as possible during the dedicated test slot. Full list of interoperability test cases can be found from the BCAST Interoperability Enabler Test Specification [BCAST11-ETS_IOP]. The list of test cases executed during a TestFest may vary depending on the special characteristics of the test environment (e.g. the used BDS or the available content protection methods).

In case there is a need to prioritize testing during the TestFest, due time constraints or otherwise, the following prioritization should be used as described in Table 1.

5.1.3.1 Service Provisioning (SP)

Description	Test Case Id	Priority
5.1.1 Service bootstrap and single content	BCAST-1.1-DIST-int-101	Low (pre-
		test)
5.1.2 Web-based Service Provisioning	BCAST-1.1-DIST-int-102	Low
5.1.3. Service Guide discovery using DNS	BCAST-1.1-DIST-int-115	High

5.1.3.2 Service Guide (SG) - Broadcast

Description	Test Case Id	Priority
5.2.1 Service Guide update (same fragment id, Lower version number)	BCAST-1.1-DIST-int-103	Low
		(pre-test)
5.2.3 Service Guide Update (new fragment id) – Broadcast Channel	BCAST-1.1-DIST-int-105	Low
5.2.5 GZIP compression of Service Guide Delivery Unit	BCAST-1.1-DIST-int-107	Low (pre-
		test)
5.2.6 Content hierarchy	BCAST-1.1-DIST-int-108	Low
5.2.7 PreviewData and Service	BCAST-1.1-DIST-int-109	Low
5.2.9 Select language specific access parameters	BCAST-1.1-DIST-int-111	Low
5.2.10 Subscription of Service	BCAST-1.1-DIST-int-112	Low
5.2.11 Select language specific Service Guide elements	BCAST-1.1-DIST-int-113	Low

5.1.3.3 Service Guide (SG) - Interactive

Description	Test Case Id	Priority
5.2.2 Service Guide update (same fragment id, Lower version number) – Interaction	BCAST-1.1-DIST-int-104	Low
Channel		(pre-test)
5.2.4 Service Guide Update (new fragment id) – Interaction Channel	BCAST-1.1-DIST-int-106	Low
5.2.5 GZIP compression of Service Guide Delivery Unit	BCAST-1.1-DIST-int-107	Low (pre-
		test)
5.2.6 Content hierarchy	BCAST-1.1-DIST-int-108	Low
5.2.7 PreviewData and Service	BCAST-1.1-DIST-int-109	Low
5.2.9 Select language specific access parameters	BCAST-1.1-DIST-int-111	Low
5.2.10 Subscription of Service	BCAST-1.1-DIST-int-112	Low

5.1.3.4 File Distribution (FD)

Description	Test Case Id	Priority
5.3.1.1 Support of ALC protocol and delivery of meta-data in the Service Guide	BCAST-1.1-DIST-int-201	Low
5.3.1.2 Support of in-band delivery of meta-data and FLUTE	BCAST-1.1-DIST-int-202	Low
		(pre-test)
5.3.1.3 Support the delivery using HTTP over Interaction Channel	BCAST-1.1-DIST-int-203	Low
5.3.1.4 Support of FEC RAPTOR	BCAST-1.1-DIST-int-204	Low
5.3.1.5 Support of the post-delivery repair of files	BCAST-1.1-DIST-int-205	Low
5.3.1.6 Support of reception report	BCAST-1.1-DIST-int-206	Low
5.3.1.7 Support of Flute Session Setup and Control with RTSP	BCAST-1.1-DIST-int-207	Low
5.3.1.8 Support of hybrid broadcast/interactive file distribution – FLUTE as fallback	BCAST-1.1-DIST-int-212	High
5.3.1.9 Support of hybrid broadcast/interactive file distribution – HTTP as fallback	BCAST-1.1-DIST-int-213	High

5.1.3.5 Stream Distribution (SD)

Description	Test Case Id	Priority
5.3.2.1 Support of RTP for stream distribution over the broadcast channel	BCAST-1.1-DIST-int-208	Low
		(pre-test)
5.3.2.1 Support of RTP for stream distribution over the interactive channel using SDP	BCAST-1.1-DIST-int-209	Low
5.3.2.2 Support of RTP for stream distribution over the interactive channel using HTTP with out-of-band signalling	BCAST-1.1-DIST-int-210	Low
5.3.2.3 Support of streaming associated procedure	BCAST-1.1-DIST-int-211	Low
5.3.2.5 Support of hybrid broadcast/interactive stream distribution	BCAST-1.1-DIST-int-214	High
5.3.2.6 Support of advisable time ranges for access switch BCAST-1.1-DIST-int-21		High
	BCAST-1.1-DIST-int-215	

5.1.3.6 Service Interaction (SI) - Broadcast

Description	Test Case Id	Priority
5.4.1 XHTML MP Interactivity	BCAST-1.1-DIST-int-301	Low
		(pre-test)
5.4.3 SMS interactivity	BCAST-1.1-DIST-int-303	Low
5.4.5 MMS Interactivity	BCAST-1.1-DIST-int-305	Low
5.4.7 Select language specific Interactivity	BCAST-1.1-DIST-int-307	Low

5.1.3.7 Service Interaction (SI) - Interactive

Description	Test Case Id	Priority
5.4.2 XHTML MP Interactivity – Interaction Channel	BCAST-1.1-DIST-int-302	Low
5.4.4 SMS interactivity – Interaction Channel	BCAST-1.1-DIST-int-304	Low
5.4.6 MMS Interactivity – Interaction Channel	BCAST-1.1-DIST-int-306	Low
5.4.7 Select language specific Interactivity	BCAST-1.1-DIST-int-307	Low

5.1.3.8 Service Protection (ServProt) - DRM

Description	Test Case Id	Priority
5.5.1.1 Delivery of IPSec protected stream	BCAST-1.1-DIST-int-401	Low
		(pre-test)
5.5.1.2 Delivery of SRTP protected stream	BCAST-1.1-DIST-int-402	Low
		(pre-test)
5.5.1.3 Delivery of ISMACrypt protected stream	BCAST-1.1-DIST-int-403	Low
		(pre-test)

5.1.3.9 Roaming (R)

Description	Test Case Id	Priority
5.6.1 Availability of Roaming and Showing SG of visited service provider	BCAST-1.1-MORO-int-101	Low

5.1.3.10 Parental Control for Service Ordering (PCSO)

Description	Test Case Id	Priority
5.7.1 Parental control for service ordering using the Generic Solution	BCAST-1.1-PCSO-int-102	High

5.1.3.11 Parental Control of Unicast Services (PCUS)

Description	Test Case Id	Priority
5.8.1 Parental control of unicast service consumption – RTSP service	BCAST-1.1-DIST-int-114 BCAST-1.1-PCUS-101	High
5.8.2 Parental control of unicast service consumption – HTTP service	BCAST-1.1-DIST-int-115 BCAST-1.1-PCUS-102	High

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5.1.3.12

vice Protection (ServProt) - SmartCard

Ser

Description	Test Case Id	Priority
5.5.2.1.1 GBA-U Bootstrapping USIM / BSM with success	BCAST-1.1-DIST-int-404	Low (pre-
		test)
5.5.2.1.2 GBA-U Bootstrapping USIM / BSM with synchronization error	BCAST-1.1-DIST-int-405	Low
5.5.2.1.3 GBA_U: Expired Bootstrapping data	BCAST-1.1-DIST-int-406	Low
5.5.2.1.4 GBA_U: Different Key K on Client and Server	BCAST-1.1-DIST-int-407	Low
5.5.2.1.5 Deregistration	BCAST-1.1-DIST-int-408	Low
5.5.2.1.6 Deregistration with bootstrapping	BCAST-1.1-DIST-int-409	Low
5.5.2.1.7 Subscriber Key Establishment for (R-)UIM/CSIM	BCAST-1.1-DIST-int-410	Low
		(pre-test)
5.5.2.2.1.1 LTKM without SPE, without consumption reporting, MBMS only card	BCAST-1.1-DIST-int-411	Low
5.5.2.2.1.2 LTKM without SPE, Without consumption reporting, BCAST card	BCAST-1.1-DIST-int-600	Low
5.5.2.2.1.3 LTKM with SPE, MBMS only card	BCAST-1.1-DIST-int-601	Low
5.5.2.2.1.4 LTKM with SPE, BCAST card	BCAST-1.1-DIST-int-602	Low
5.5.2.2.1.5 LTKM request from the terminal, LTKM reception at the terminal / smartcard	BCAST-1.1-DIST-int-412	Low
5.5.2.2.1.6 BSM solicited pull procedure	BCAST-1.1-DIST-int-413	Low
5.5.2.2.1.7 BSM solicited pull procedure initiation over SMS bearer	BCAST-1.1-DIST-int-414	Low
5.5.2.2.1.8 BSM solicited pull procedure to initiate the Registration Procedure	BCAST-1.1-DIST-int-603	Low
5.5.2.2.1.9 LTKM Replay Detection in secure function, failure case	BCAST-1.1-DIST-int-604	Low
5.5.2.2.2.1 Set of Live_ppt_purse associated with a key group; SPE=0x00	BCAST-1.1-DIST-int-605	Low
5.5.2.2.2 Test of set mode for the live_ppt_purse associated with a key group, SPE=0x00	BCAST-1.1-DIST-int-606	Low
5.5.2.2.3 Test of add mode for the live_ppt_purse associated with a key group, SPE=0x00	BCAST-1.1-DIST-int-607	Low
5.5.2.2.4 Test of overflow for the live_ppt_purse associated with a key group, SPE=0x00	BCAST-1.1-DIST-int-608	Low
5.5.2.2.5 Set of Playback_ppt_purse associated with a key group; SPE=0x01	BCAST-1.1-DIST-int-609	Low
5.5.2.2.6 Test of set mode for the Playback_ppt_purse associated with a key group, SPE=0x01	BCAST-1.1-DIST-int-610	Low
5.5.2.2.7 Test of add mode for the Playback_ppt_purse associated with a key group, SPE=0x01	BCAST-1.1-DIST-int-611	Low
5.5.2.2.2.8 Test of overflow for the Playback_ppt_purse associated with a key group, SPE=0x01	BCAST-1.1-DIST-int-612	Low
5.5.2.2.9 Set of user_purse associated with a NAF/SMK ID	BCAST-1.1-DIST-int-613	Low
5.5.2.2.10 Test of set mode for the user_purse associated with a NAF/SMK ID	BCAST-1.1-DIST-int-614	Low
5.5.2.2.2.11 Test of add mode for the user_purse associated with a NAF/SMK ID	BCAST-1.1-DIST-int-615	Low
5.5.2.2.12 Test of overflow for the user_purse associated with a NAF/SMK ID	BCAST-1.1-DIST-int-616	Low
5.5.2.2.13 Set of playback counter associated with a SEK/PEK ID, SPE=0x07	BCAST-1.1-DIST-int-617	Low
5.5.2.2.14 Test of set mode for playback counter associated with a SEK/PEK ID, SPE=0x07	BCAST-1.1-DIST-int-618	Low
5.5.2.2.2.15 Test of add mode for playback counter associated with a SEK/PEK ID, SPE=0x07	BCAST-1.1-DIST-int-619	Low
5.5.2.2.2.16 Test of overflow of playback counter associated with a SEK/PEK ID, SPE=0x07	BCAST-1.1-DIST-int-620	Low

Description	Test Case Id	Priority
5.5.2.2.17 Set of TEK counter associated with a SEK/PEK ID	BCAST-1.1-DIST-int-621	Low
5.5.2.2.18 Test of set mode for TEK counter associated with a SEK/PEK ID	BCAST-1.1-DIST-int-622	Low
5.5.2.2.19 Test of add mode for TEK counter associated with a SEK/PEK ID	BCAST-1.1-DIST-int-623	Low
5.5.2.2.20 Test of overflow of TEK counter associated with a SEK/PEK ID	BCAST-1.1-DIST-int-624	Low
5.5.2.2.3 SPE value not supported by the card	BCAST-1.1-DIST-int-625	Low
5.5.2.3.1 Correct STKM parsing by a BCAST Smartcard	BCAST-1.1-DIST-int-430	Low (pre- test)
5.5.2.3.2 Correct STKM parsing by MBMS Smartcard	BCAST-1.1-DIST-int-431	Low
5.5.2.3.3 Incorrect STKM generation – inexistent SEK/PEK (wrong key domain ID)	BCAST-1.1-DIST-int-432	Low
5.5.2.3.4 STKM processing – inexistent SEK/PEK (wrong SEK ID)	BCAST-1.1-DIST-int-433	Low
5.5.2.3.5 STKM processing, Key Validity data check	BCAST-1.1-DIST-int-626	Low
5.5.2.3.6 Key deletion from server	BCAST-1.1-DIST-int-439	Low
5.5.2.3.7 SPE deletion from server	BCAST-1.1-DIST-int-627	Low
5.5.2.3.8.1 STKM Processing when LTKM SPE=00; Testing Live_ppt_purse	BCAST-1.1-DIST-int-628	Low
5.5.2.3.8.2 STKM Processing when LTKM SPE=0x01; Testing Playback_ppt_purse	BCAST-1.1-DIST-int-629	Low
5.5.2.3.8.3 STKM Processing when LTKM SPE=02; Testing user_purse	BCAST-1.1-DIST-int-630	Low
5.5.2.3.8.4 STKM Processing when LTKM SPE=0x07; Testing playback_counter	BCAST-1.1-DIST-int-631	Low
5.5.2.3.8.5 STKM Processing when LTKM SPE=0C; Testing TEK_counter	BCAST-1.1-DIST-int-632	Low
5.5.2.3.9.1 Testing SPE priorities: live content with subscription	BCAST-1.1-DIST-int-633	Low
5.5.2.3.9.2 Testing SPE priorities: live content without subscription	BCAST-1.1-DIST-int-634	Low
5.5.2.3.9.3 Testing SPE priorities: playback modes including SPE=0x05	BCAST-1.1-DIST-int-635	Low
5.5.2.3.9.4 Testing SPE priorities: playback modes without SPE=0x05	BCAST-1.1-DIST-int-636	Low
5.5.2.3.9.5 Testing KV priorities when several LTKM available with same SPE	BCAST-1.1-DIST-int-637	Low
5.5.2.3.10 STKM processing when sent to different SPE sharing the same user purse	BCAST-1.1-DIST-int-638	Low
5.5.2.3.11 STKM reception with parental control without PIN defined in the card	BCAST-1.1-DIST-int-456	Low
5.5.2.3.12 STKM reception with parental control and with PIN defined in the card	BCAST-1.1-DIST-int-457	Low
5.5.2.3.13 Multiple streams protected with same STKM stream	BCAST-1.1-DIST-int-458	Low
5.5.2.3.14 Multiple streams protected with Different STKM stream	BCAST-1.1-DIST-int-459	Low
5.5.2.4.1 Delivery of IPSec protected stream	BCAST-1.1-DIST-int-460	Low
5.5.2.4.2 Delivery of SRTP protected stream	BCAST-1.1-DIST-int-461	Low
5.5.2.4.3 Delivery of ISMACrypt protected stream	BCAST-1.1-DIST-int-462	Low

5.1.3.13 Smartcard Broadcast Provisioning (SCBP)

Description	Test Case Id	Priority
6.2.1 Sending a file to a group of Smartcards through Smartcard Broadcast provisioning using ENVELOPE technology	BCAST-1.1-SCBP-int-101	High
6.2.2 Sending a file to a specific Smartcard through Smartcard Broadcast provisioning using ENVELOPE technology	BCAST-1.1-SCBP-int-102	High
6.2.3 Sending a file to a set of Smartcards in a group through Smartcard Broadcast provisioning using ENVELOPE technology	BCAST-1.1-SCBP-int-103	High

6.2.4 Sending a file to a group of Smartcards through Smartcard Broadcast provisioning using SCWS technology	BCAST-1.1-SCBP-int-104	High
provisioning using Set wS technology		

5.1.3.14 Parental Control for Service Ordering (PCSO)

Description	Test Case Id	Priority
6.3.1 Parental control for service ordering using the Smartcard Profile Extension: Service provisioning protection enabled	BCAST-1.1-PCSO-int-101	High
6.2.2 Sending a file to a specific Smartcard through Smartcard Broadcast provisioning using ENVELOPE technology	BCAST-1.1-PCSO-int-103 BCAST-1.1-PCSO-int-102	High
6.3.3 Parental control for token purchase using the Smartcard Profile Extension: No local protection	BCAST-1.1-PCSO-int-103	High

5.1.3.15 Smartcard-Centric Audience Measurement (SAM)

Description	Test Case Id	Priority
7.1.1.1 Registration Process and Opt_in trigger process using SMS-PP bearer	BCAST-1.1-AM-int-101	High
7.1.1.2 Configuration process, activation and reporting using SMS-PP bearer in Push Mode	BCAST-1.1-AM-int-102	High
7.1.1.3 Opt_in Message using SMS-PP bearer	BCAST-1.1-AM-int-103	High
7.1.1.4 Configuration process, activation and reporting using SMS-PP bearer in Push Mode with additional metrics	BCAST-1.1-AM-int-104	High
7.1.1.5 Reporting using SMS-PP bearer in Pull Mode without additional metrics	BCAST-1.1-AM-int-105	High
7.1.1.6 Registration Process and Opt_in trigger process using security at application level	BCAST-1.1-AM-int-106	High
7.1.1.7 Configuration process, activation and reporting using HTTP bearer in Push Mode using security at applicative level	BCAST-1.1-AM-int-107	High
7.1.1.8 Audience Measurement disallowed for a specific encrypted content	BCAST-1.1-AM-int-108	High

5.1.3.16 Smartcard-Centric Audience Measurement (STAM)

Description	Test Case Id	Priority
8.1.1.1 STKM-based and Event signalling-based Audience Measurement for clear to air services	BCAST-1.1-AM-int-109	High

5.1.3.17 minal-Centric Audience Measurement (TCAM)		Ter
Description	Test Case Id	Priority

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9.1.1 AM campaign initiated over broadcast channel (SG-based trigger) with scheduled AM data reporting	BCAST-1.1-TCAM-int-101	High
9.1.2 AM campaign initiated over broadcast channel (SG-based trigger) with user rejecting the Opt-in	BCAST-1.1-TCAM-int-102	High
9.1.3 AM campaign initiated over interaction channel (SMS -based trigger) with AM Report Trigger initiated AM data reporting	BCAST-1.1-TCAM-int-103	High
9.1.4 Server initiated silent Opt-out for an active AM campaign (SMS triggered)	BCAST-1.1-TCAM-int-104	High
9.1.5 Blocking of Audience Measurement for a particular service/content	BCAST-1.1-TCAM-int-105	High

5.2 Enabler Test Requirements

5.2.1 Test Infrastructure Requirements

The testing shall be performed as end-to-end testing. Most likely the client participants will be in one place, while the participant servers will be located in member companies premises, accessible to the rest of the test fest environment. Such a "distributed" test fest environment puts effort on the test fest host and requires detailed documented configuration. It is also possible that server providers bring their respective servers to the test site.

The Network Elements involved in BCAST testing are:

- 3G network
- MBMS network
- DVB-H network
- BCMCS network
- WiMAX network
- FLO network
- DVBSH network
- Internet

A Network Analyzer (e.g. Wireshark) for Network Monitoring/Protocol Analyzing is also useful.

A requirement for a test fest host is that one BDS must be available. At least one of the following BDS:

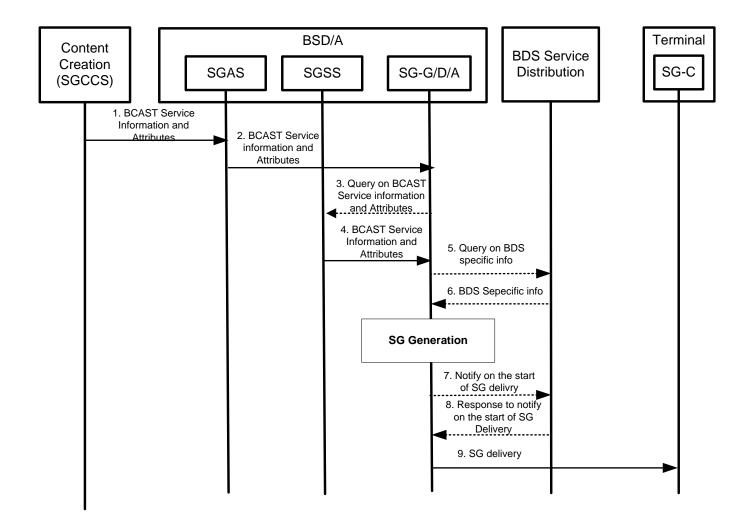
- IPDC
- MBMS
- BCMCS
- WiMAX
- FLO
- DVBSH

5.2.2 Test Restrictions

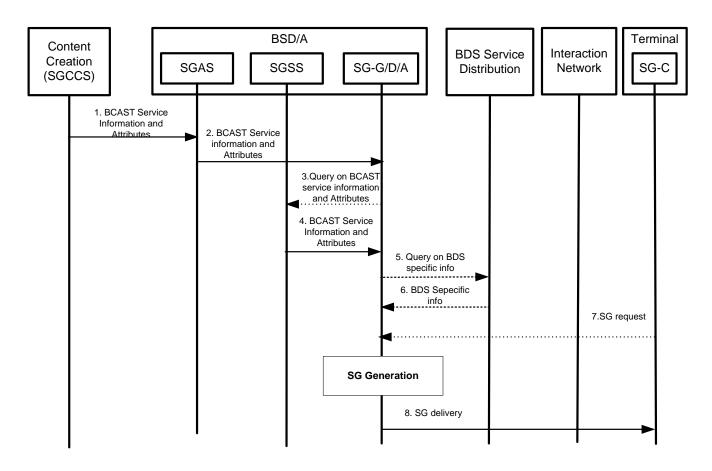
For the different services that comprise BCAST it can be found below the different execution flows.

5.2.3 Service Guide Related Flows

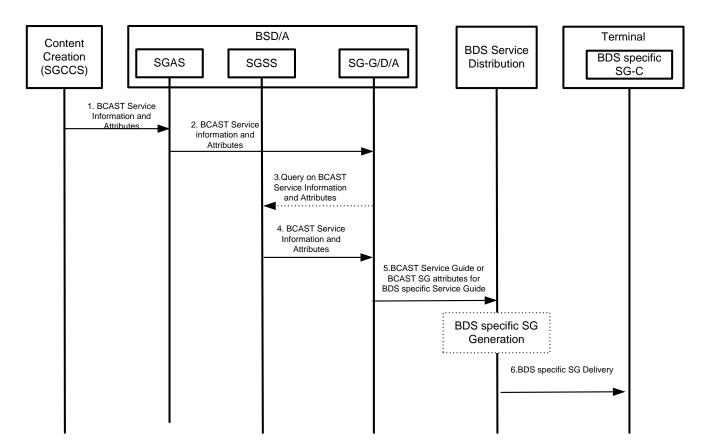
5.2.3.1 Service Guide Generation and Delivery over Broadcast channel



5.2.3.2 Service Guide Generation and Delivery over Interaction channel

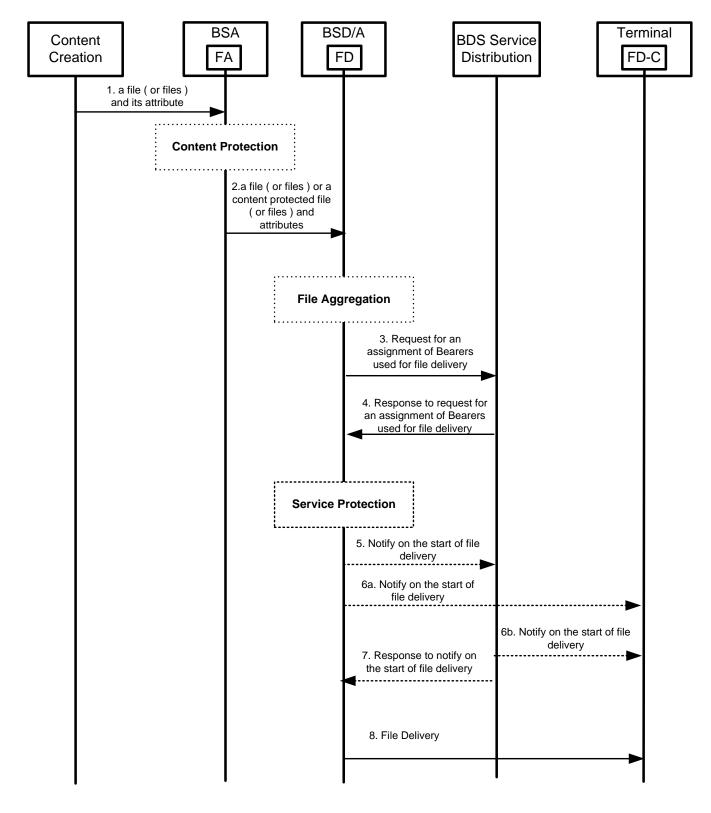




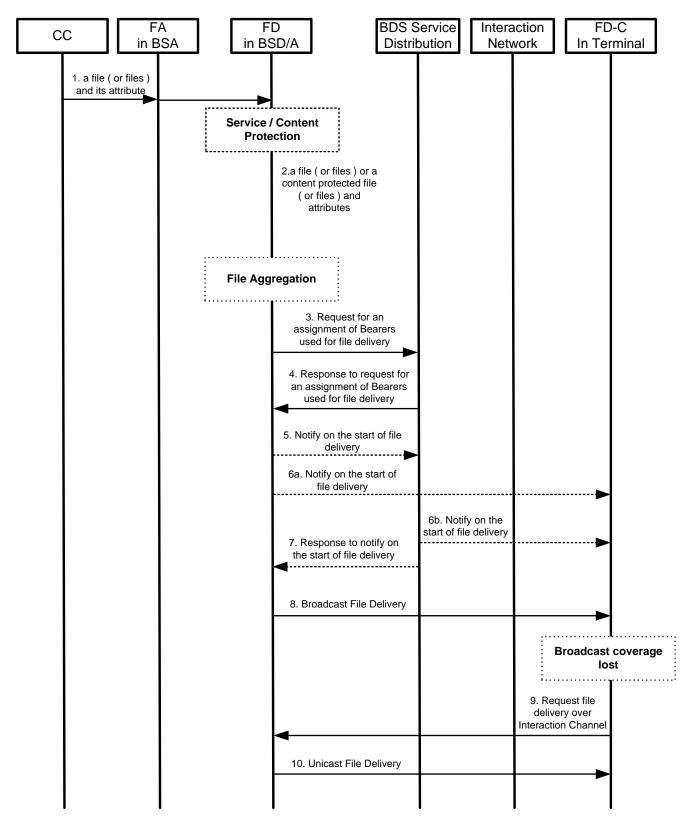


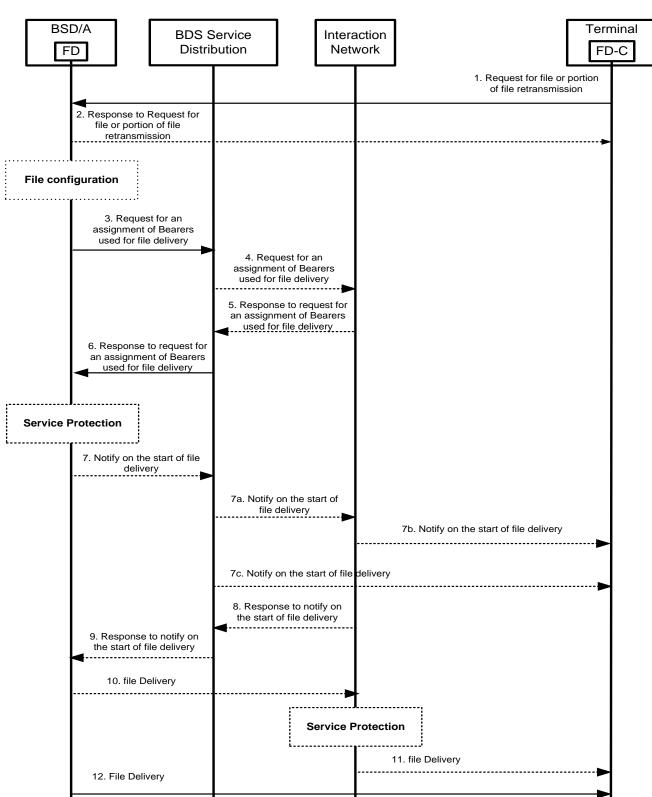
5.2.4 File Distribution Related Flows

5.2.4.1 File Distribution over Broadcast channel



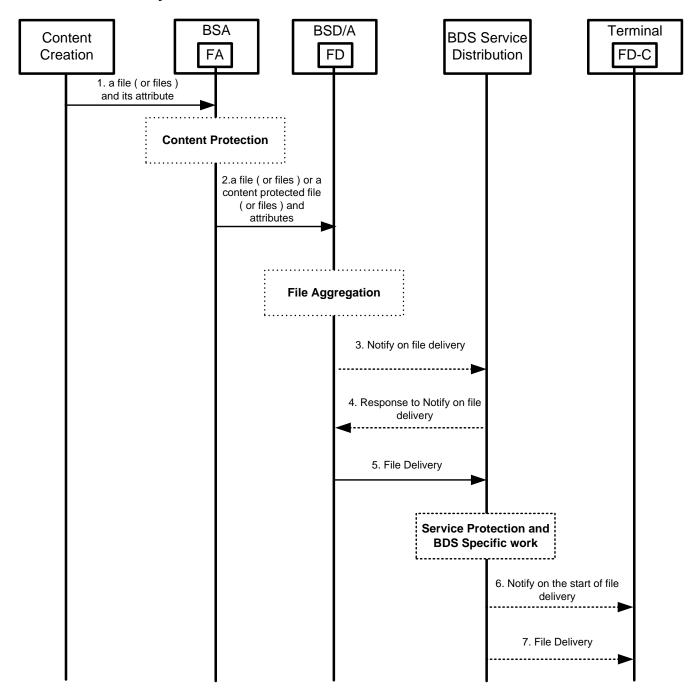






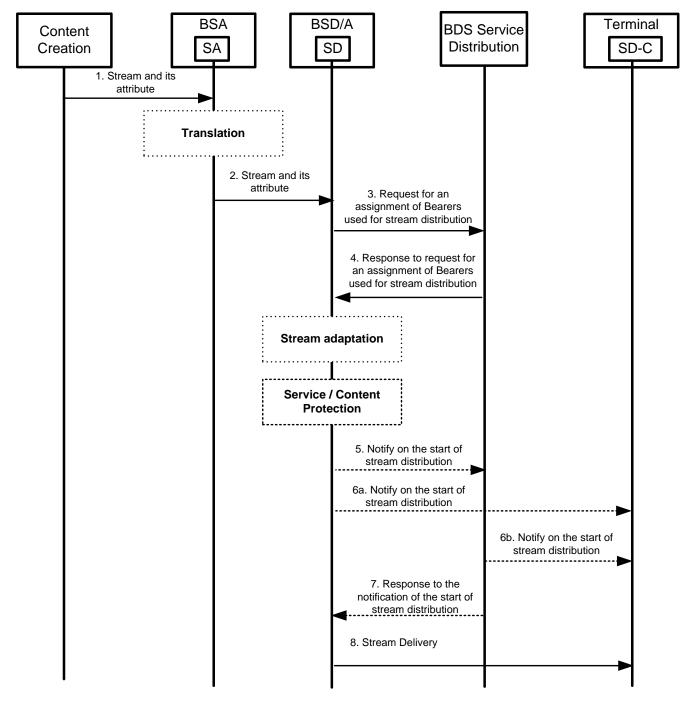
5.2.4.3 File transmission or repairing over Interaction Channel when BDS Service Distribution exists

5.2.4.4 File Delivery to BDS Service Distribution

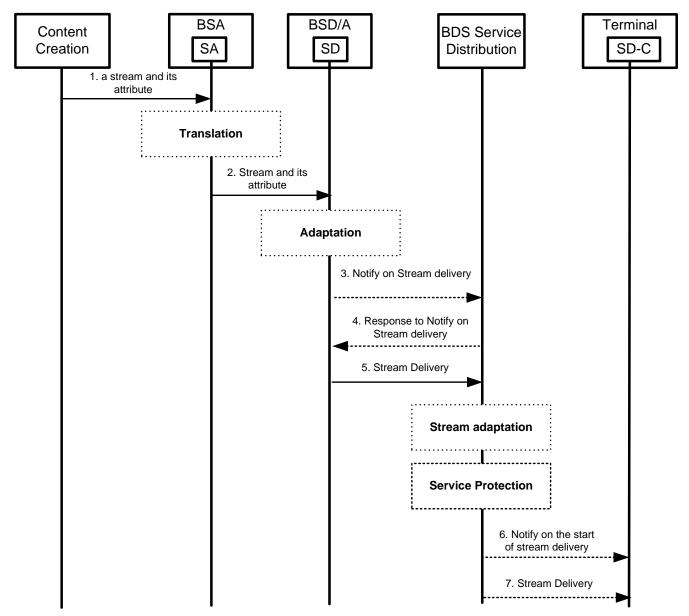


5.2.5 Stream Distribution Related Flows

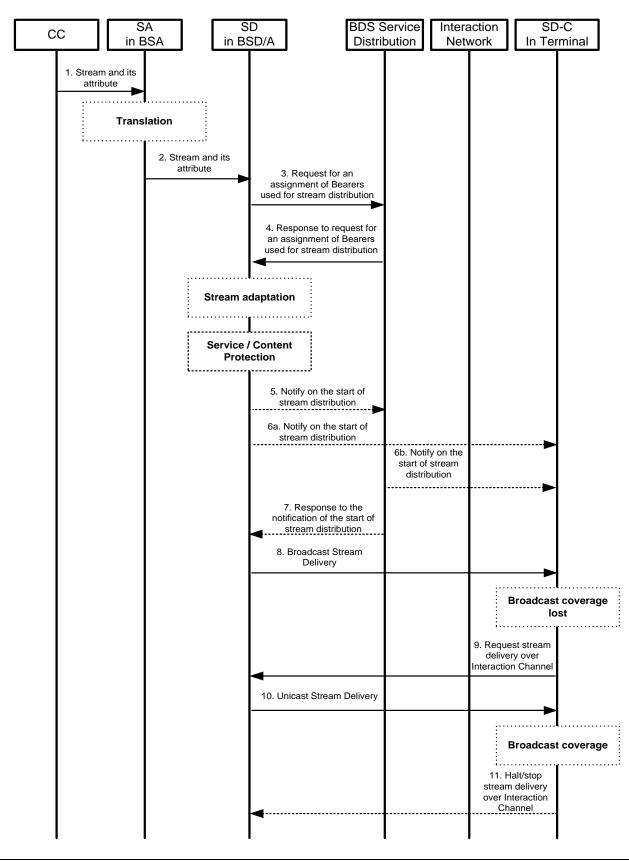
5.2.5.1 Stream Distribution over Broadcast channel



5.2.5.2 Stream Delivery BDS Service Distribution



5.2.5.3 Stream Distribution in a Hybrid Broadcast/Unicast Environment



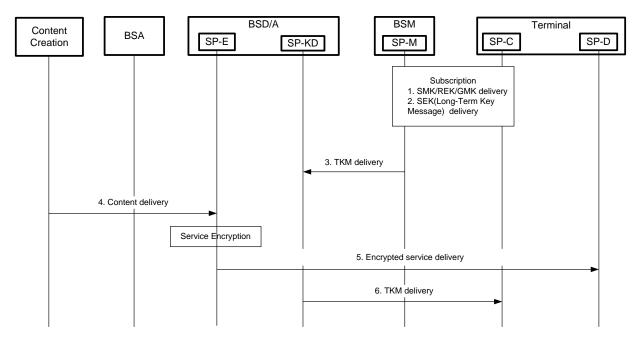
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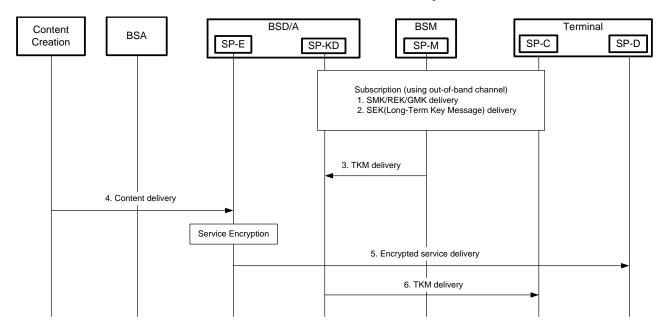
5.2.6 Service & Content Protection Related Flows

5.2.6.1 Service Protection Related Flows

5.2.6.1.1 Service Protection Function Flows for Terminal with Interaction Channel

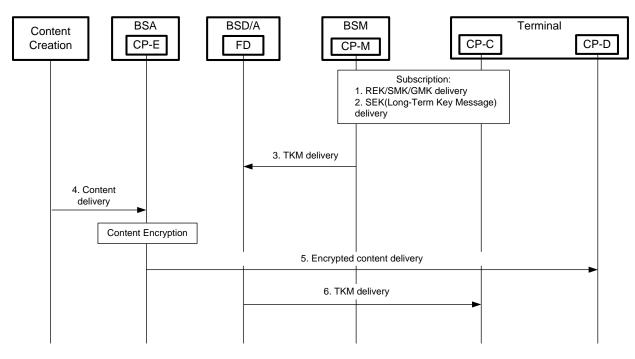


5.2.6.1.2 Service Protection Function Flows for Broadcast-only Terminal

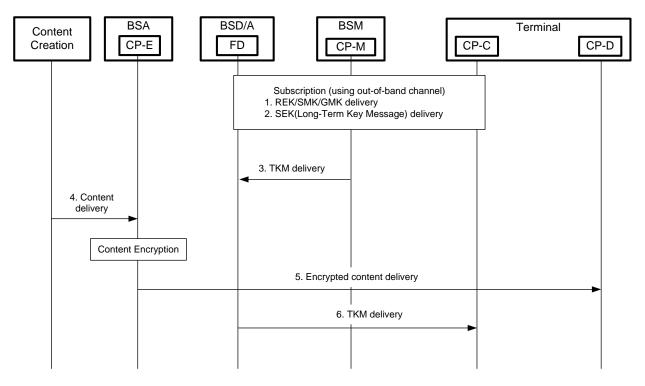


5.2.6.2 Content Protection Function Flows

5.2.6.2.1 Content Protection Function Flows for Terminal with Interaction Channel

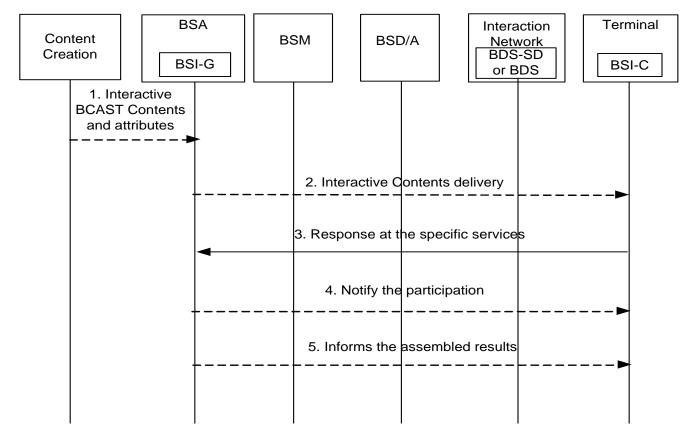


5.2.6.2.2 Content Protection Function Flows for Broadcast-only Terminal



5.2.7 Interaction Channel Related Flows

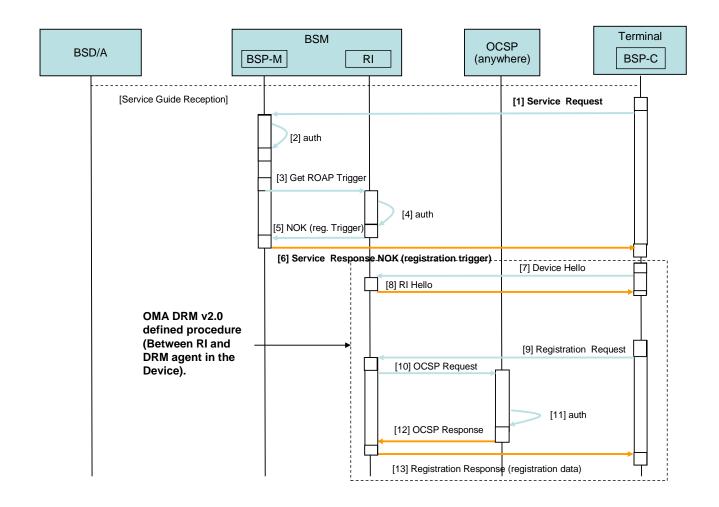
5.2.7.1 Interactive Service example Flow – Case1



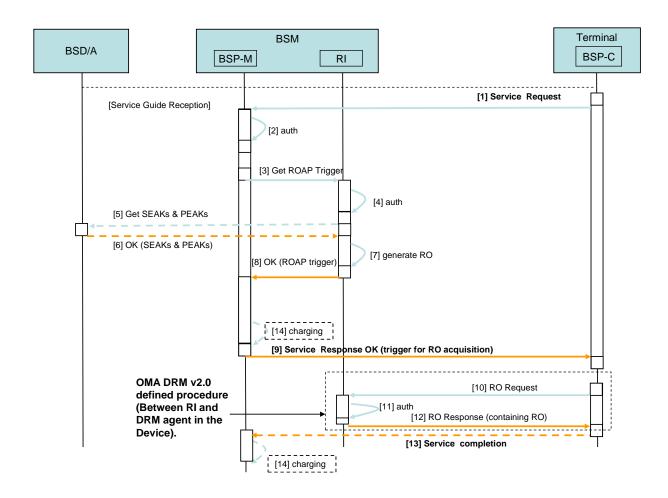
5.2.8 Service Provisioning Related Flows

5.2.8.1 Service Provisioning Function Related Flows (DRM based solution)

5.2.8.1.1 Unsuccessful Service ordering

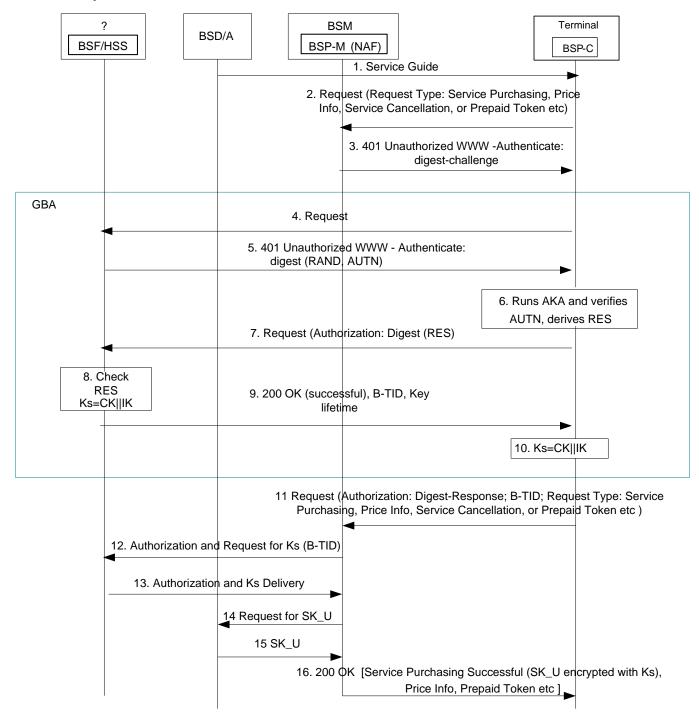


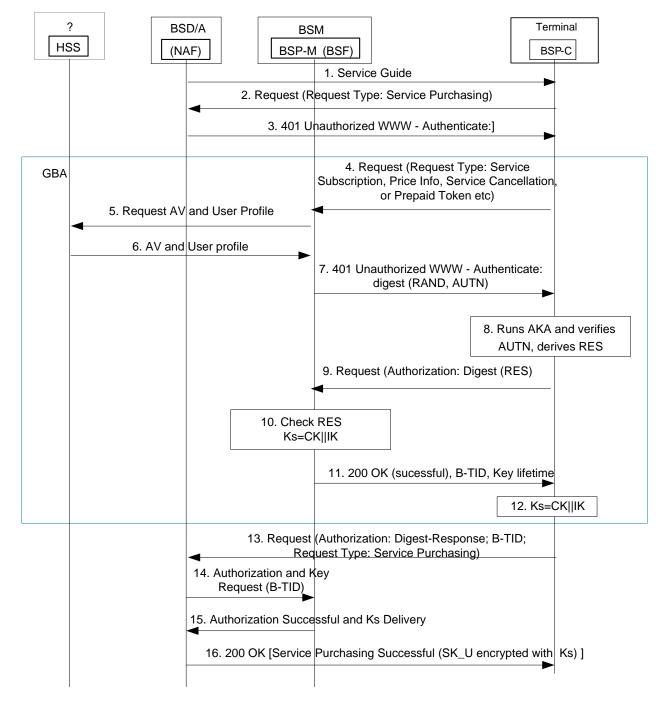
5.2.8.1.2 Successful Service ordering



5.2.8.2 Service Provisioning Function Related Flows (GBA based solution)

5.2.8.2.1 Option 1: BSP-M Serves as NAF Function

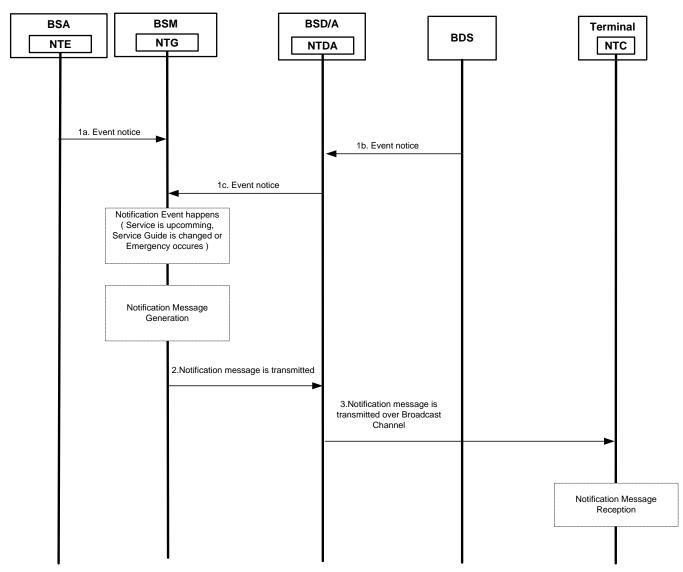




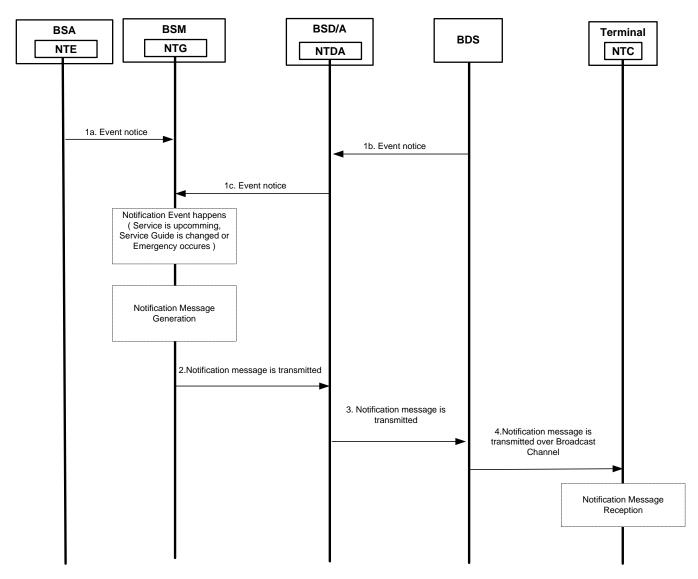
5.2.8.2.2 Option 2: BSD/A serves as NAF Function, BSP-M serves as BSF function

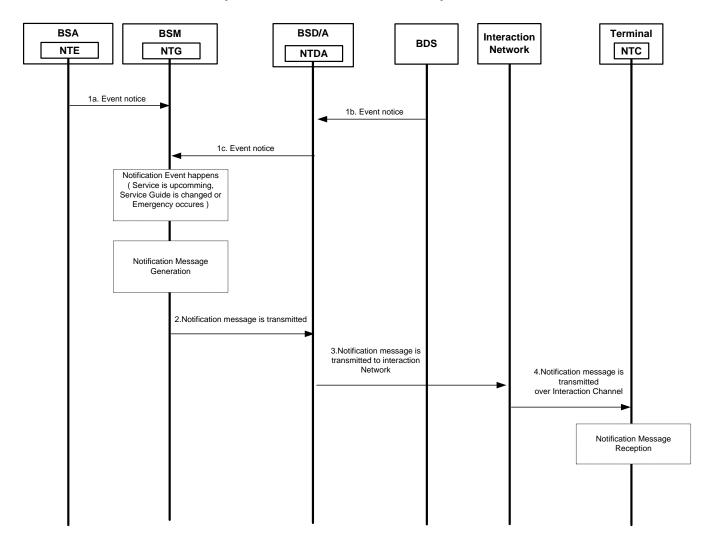
5.2.9 Notification Function Related Flows

5.2.9.1 Notification Generation and Delivery over Broadcast Channel by OMA BCAST



5.2.9.2 Notification Delivery over Broadcast channel by BDS

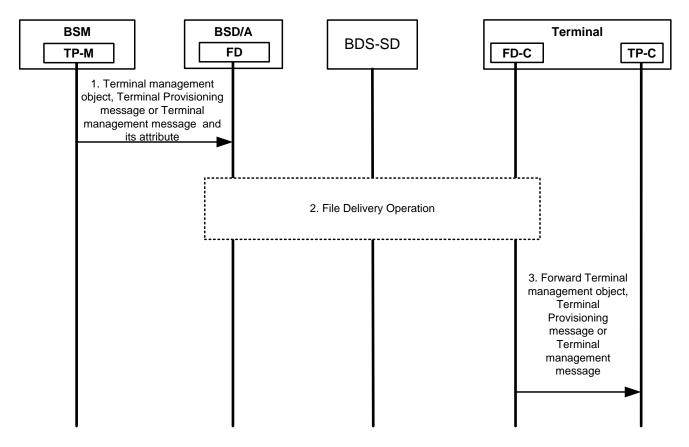




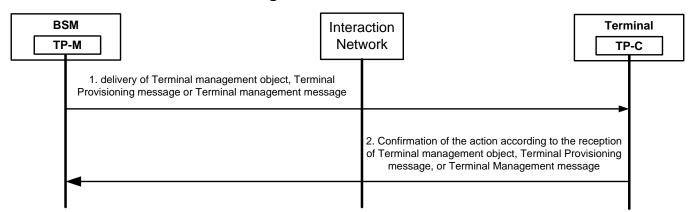
5.2.9.3 Notification Delivery over Interaction Channel by OMA BCAST

5.2.10 Terminal Provisioning Related Flows

5.2.10.1 Terminal Provisioning over Broadcast Channel

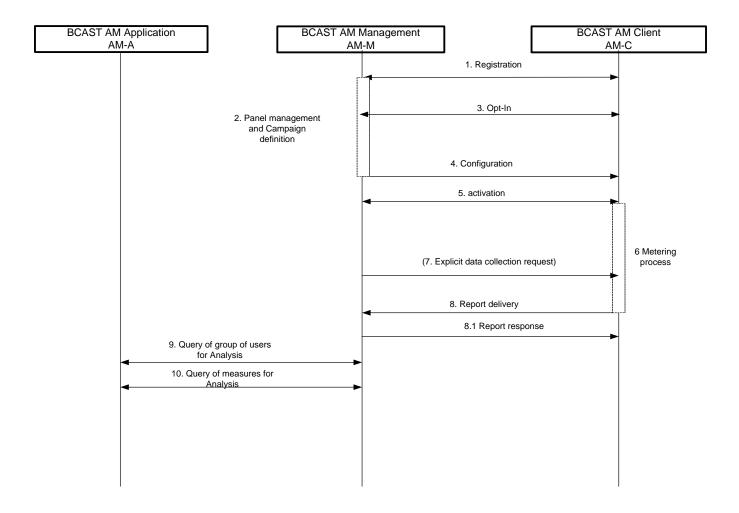


5.2.10.2 Terminal Provisioning over Interaction Channel



5.2.11 Audience Measurement Function Related Flows

5.2.11.1 The Overall Flow for Audience Measurement



5.2.12 **Test Content Requirements**

For the interoperability tests there is no particular requirement for the test content. The test content has to be adapted to the interoperability test cases.

5.2.13 **Test Limitations**

5.2.13.1 Physical

When running BDS specific tests then radio equipment is required and terminals with a radio unit must stay in range of the signal.

5.2.13.2 Resources

It might be required to have technicians for operating the BDS specific network or for configuring the DRM server, supplying encryption keys and other support services.

It might be necessary that a network operator or Telco supplier provides BDS specific hardware (e.g. a network in a lab or a demo network). Contributions are welcome and should be announced early so that tests fests can be planned properly.

5.2.14 **Test Restrictions**

5.2.14.1 Test Session Entrance Criteria

The test session entry criteria are defined by the Test-Fest Participation Guidelines of the IOP WG.

5.2.14.2 Technical Prerequisites

- Client settings shall be in accordance with the network parameters provided by the test fest host.
- Gateway and proxy configuration shall be in accordance with the information provided by the test fest host for serving all clients participating in the test fest.

5.2.15 **Test Tools**

There are no test tool requirements.

5.2.15.1 Existing Tools to be used

BCAST 1.0 TTCN-3 test cases can be used for conformance tests to assess client functionality. The main areas for server tests are the service guide, boot strapping and service protection.

It is optional but in case of problems recommended to use a network analyzer like Wireshark (formerly called Ethereal) to create traces for trouble shooting.

In the backend of the conformance test tool or server implementations a collection of existing tools might be required (DRM, codecs, content, keys).

5.2.15.2 Conformance Test Case Priorities

No BCAST 1.1 conformance test cases have been defined.

5.2.15.3 Test Tool Requirements

There are no test tool requirements.

5.2.16 **Resources Required**

No estimate so far – depends highly on the maturity of individual enabler implementations. For a good estimate in this chapter input from implementation providers is required later on.

5.3 Tests to be Performed

The following sections describe the tests related to the formal TestFest validation activities.

5.3.1 Minimal Pre-Test Guidelines

This section details a set of test cases that the Trusted Zone may require participating companies to perform during the Pre-Test day. The order of the listed tests is only intended as advice to participating teams and not necessarily to indicate that the sequence of execution is mandatory.

The results will be considered across all Pre-Test sessions that a team will perform during the Pre-Test day and will NOT be included in any Product Test Report or Enabler Test Report generated as a result of participation in the event.

If the team is unable to present passing results for the Pre-Test test cases allocated by the Trusted Zone (according to the EICS for that implementation) and if the failures are due to team's implementation, the team shall not be allowed to proceed with regular test sessions. The host shall provide adequate space for the teams to sit separately and improve their implementations. The teams should validate the implementation with the passing teams at the passing teams' discretion. Once passing results for all Pre-Test test cases are presented, the team should be allowed to proceed with regular testing.

5.3.1.1 Service Guide (SG)

The purpose is to check reception and handling of SG, not method of delivery. In case of broadcast terminals BCAST-1.1-DIST-int-103 is executed. Terminals implementing delivery over interaction channel are required to execute BCAST-1.1-DIST-int-104

Test Case Id	Test Case Description
BCAST-1.1-DIST-int-103	Updating description of content. This test case also tests that the update of the SG is performed correctly.
BCAST-1.1-DIST-int-104	Updating description of content. This test case also tests that the update of the SG is performed correctly.

5.3.1.2 Stream Distribution (SD)

Test Case Id	Test Case Description
BCAST-1.1-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.

5.3.1.3 File Distribution (FD)

Test Case Id	Test Case Description
BCAST-1.1-DIST-int-202	To test the support of the in-band delivery of the metadata associated with
	file distributed using FLUTE.

5.3.1.4 Service Protection (ServProt)

DRM

Only one of the recommended test cases need to be executed depending upon the type of encryption implemented by the participant.

Test Case Id	Test Case Description
BCAST-1.1-DIST-int-401	Opening an Ipsec encrypted stream with key material associated to the subscription
BCAST-1.1-DIST-int-402	Opening an SRTP encrypted stream with key material associated to the subscription
BCAST-1.1-DIST-int-403	Opening an ISMACrypt encrypted stream with key material associated to the subscription.

SmartCard

Test cases BCAST-1.1-DIST-int-404 and BCAST-1.1-DIST-int-430 must be executed by all USIM implementations.

Test Case Id	Test Case Description
BCAST-1.1-DIST-int-404	Test that GBA bootstrapping with the BSM is successfully achieved.
	Test that the SRK is correctly generated in the terminal.
BCAST-1.1-DIST-int-430	Test that the Smartcard correctly parses STKMs.

Test cases BCAST-1.1-DIST-int-410 and BCAST-1.1-DIST-int-430 must be executed by all (R-)UIM/CSIM implementations.

Test Case Id	Test Case Description
BCAST-1.1-DIST-int-410	Test that SMK and SRK derivation from pre-provisioned SCK in the
	terminal are successful.
BCAST-1.1-DIST-int-430	Test that the Smartcard correctly parses STKMs.

5.3.1.5 Content Protection (ContProt)

DRM

No explicit test cases.

SmartCard

No explicit test cases.

5.3.1.6 Service Provisioning (SP)

Test Case I	d
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Test Case Description

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Test Case Id	Test Case Description
BCAST-1.1-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.

5.3.1.7 Service Interaction (SI)

Test Case Id	Test Case Description
BCAST-1.1-DIST-int-301	Associating content with interactivity. Reception of InteractivityMediaDocuments over broadcast file distribution. XHTML MP as an interaction method.
	as an interaction method.

5.3.1.8 Notification (N)

No test cases available.

5.3.1.9 Terminal Provisioning (SP)

No test cases available.

5.3.2 Configuration of Pre-Testing Phase

The section provides configuration information for pre-testing in order to optimize the progress of the test fest activities. These settings shall not be used in the regular test sessions during the test fest where implementations shall use the discovery and configuration procedures as described by the BCAST 1.1 specification, when applicable.

5.3.2.1 BCAST NAF Configuration Parameters

NAF	
BSF Server IP Address	IPAddress of BSF
Registration	http:// <ipaddressnaf>/keymanagement?requesttype=register</ipaddressnaf>
	http:// <ipaddressnaf>/keymanagement?requesttype=deregister</ipaddressnaf>
	http:// <ipaddressnaf>/keymanagement?requesttype=msk-request</ipaddressnaf>
UDP Port	4359
NAFID	<ipaddressnaf></ipaddressnaf>
ServiceID	cannot be fix at the moment
IDI of the LTKM	Must be the IP Address of the NAF, i.e. <ipaddressnaf></ipaddressnaf>

SG

80	
Service Guide Rights Issuer URL	Must be the IP Adress of the NAF, i.e. <ipaddressnaf></ipaddressnaf>

Note: Although the specs mentions using FQDN of the NAF, for simplicity we use the IP Address

5.3.2.2 Smartcard Configuration Parameters

The following parameters shall be used by the GBA-BSF when simulating the HLR function during pre-test.

Input Values (standards)	
Ki	00 11 22 33 44 55 66 77 88 99 AA BB CC DD EE FF
OP	00 11 22 33 44 55 66 77 88 99 AA BB CC DD EE FF
Ri	40 00 20 40 60
Ci1	00 00 00 00 00 00 00 00 00 00 00 00 00
Ci2	00 00 00 00 00 00 00 00 00 00 00 00 00
Ci3	00 00 00 00 00 00 00 00 00 00 00 00 00
Ci4	00 00 00 00 00 00 00 00 00 00 00 00 00
Ci5	00 00 00 00 00 00 00 00 00 00 00 00 00
SQN	00 00 00 00 00 00
	Expected Value
OPC	62 E7 5B 8D 6F A5 BF 46 EC 87 A9 27 6F 9D F5 4D

HLR/HSS Simulation - MILENAGE (standard)

Input Values (standards)				
RAND	00 11 22 33 44 55 66 77 88 99 AA BB CC DD EE FF			
SQN	00 00 00 00 00 00			
AMF	00 00			
Expected Authentication Vectors				
XRES	700EB2300B2C4798			
СК	B379874B3D183D2A21291D439E7761E1			
IK	F4706F66629CF7DDF881D80025BF1255			
AUTN	DE656C8B0BCE0000803CE765D94CAF16			

5.3.3 Testing to be Performed at TestFest

The testing at the BCAST Test Fests is expected to be executed according to the BCAST Interoperability Enabler Test Specification [BCAST11-ETS_IOP]. See also chapter 5.1.3.

5.4 Enabler Test Reporting

5.4.1 Problem Reporting Requirements

Normal Reporting, no special reporting required.

5.4.2 Enabler Test Requirements

Normal Reporting, no special reporting required

6 Alternative Validation Activities

Any results from bi/multi-lateral testing where OMA BCAST 1.1 test cases have been used can be used to validate the enabler.

7 Approval Criteria

The BCAST 1.1 Enabler can be put in the Approved state when:

- The Enabler has been tested successfully at 3 Test Fests or
- 3 Companies have successfully run BI-lateral tests sessions towards a BCAST server fulfilling the requirements of the generic adaptation layer and have reported results and issues to OMA.
- No open PRs exist.

7.1 Enabler Validation Test Cases

The following table should list the set of tests that are used for enabler validation.

Test Case Id	ETR Requirement Id	ETR Status	Notes
BCAST-1.1-DIST- int-115	SG-041	0	
III-115	SG-056	0	
BCAST-1.1-DIST-	FD-001	0	
int-212	FD-002	0	
	FD-003	0	
	FD-004	0	
	FD-032	0	
	FD-035	0	
BCAST-1.1-DIST-	FD-001	0	
int-213	FD-002	0	
	FD-003	0	
	FD-004	0	
BCAST-1.1-DIST-	SD-001	0	
int-214	SD-002	0	
	SD-003	0	
	SD-004	0	
BCAST-1.1-DIST-	SD-034	0	
int-213 BCAST-1.1-DIST- 215	SD-045	0	
BCAST-1.1-PCSO-	SPR-010	0	

Test Case Id	ETR Requirement Id	ETR Status	Notes
int-102	SPR-015	0	
BCAST-1.1-DIST-	SD-035	0	
int-114	SD-046	0	
BCAST-1.1-PCUS- 101	SD-047	0	
BCAST-1.1-DIST-	SD-035	0	
int-115	SD-046	0	
BCAST-1.1-PCUS- 102	SD-047	0	
BCAST-1.1-SCBP-	SCBP-001	0	
int-101	SCBP-002	0	
	SCBP-003	0	
	SCBP-004	0	
BCAST-1.1-SCBP-	SCBP-001	0	
int-102	SCBP-002	0	
	SCBP-003	0	
	SCBP-004	0	
BCAST-1.1-SCBP-	SCBP-001	0	
int-103	SCBP-002	0	
	SCBP-003	0	
	SCBP-004	0	
BCAST-1.1-SCBP-	SCBP-001	0	
int-104	SCBP-002	0	
	SCBP-003	0	
	SCBP-004	0	
BCAST-1.1-PCSO-	SPR-016	0	
int-101	SPR-019	0	
	SPR-012	0	
BCAST-1.1-PCSO-	SPR-016	0	
<mark>int-103</mark> BCAST-1.1-PCSO-	SPR-019	0	
BCAS1-1.1-PCSO- int-102	SPR-012	0	

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Test Case Id	ETR Requirement Id	ETR Status	Notes
BCAST-1.1-PCSO-	SPR-016	0	
int-103	SPR-019	0	
	SPR-012	0	
BCAST-1.1-AM-int-	AMS-001	0	
101	AMS-002	0	
	AMS-004	0	
	AMS-009	0	
	AMS-011	0	
BCAST-1.1-AM-int-	AMS-001	0	
102	AMS-005	0	
	AMS-006	0	
	AMS-008	0	
	AMS-012	0	
	AMS-013	0	
	AMS-015	0	
BCAST-1.1-AM-int-	AMS-001	0	
103	AMS-003	0	
	AMS-010	0	
BCAST-1.1-AM-int-	AMS-001	0	
104	AMS-005	0	
	AMS-006	0	
	AMS-008	0	
	AMS-012	0	
	AMS-013	0	
	AMS-015	0	
BCAST-1.1-AM-int-	AMS-001	0	
105	AMS-005	0	
	AMS-007	0	
	AMS-012	0	

Test Case Id	ETR Requirement Id	ETR Status	Notes
	AMS-014	0	
BCAST-1.1-AM-int-	AMS-001	0	
106	AMS-002	0	
	AMS-004	0	
	AMS-009	0	
	AMS-011	0	
BCAST-1.1-AM-int-	AMS-001	0	
107	AMS-005	0	
	AMS-006	0	
	AMS-008	0	
	AMS-012	0	
	AMS-013	0	
	AMS-015	0	
BCAST-1.1-AM-int- 108	AMS-001	0	
	AMS-005	0	
	AMS-007	0	
	AMS-012	0	
	AMS-014	0	
BCAST-1.1-AM-int-	AMS-001	0	
109	AMS-005	0	
	AMS-007	0	
	AMS-012	0	
	AMS-014	0	
BCAST-1.1-TCAM- int-101	AMT-001 to AMT-014	0	
BCAST-1.1-TCAM-	AMT-001 to AMT-006	0	
int-102	AMT-008 to AMT-012	0	
	AMT-014	0	
BCAST-1.1-TCAM- int-103	AMT-001 to AMT-014	0	

Test Case Id	ETR Requirement Id	ETR Status	Notes
BCAST-1.1-TCAM- int-104	AMT-001 to AMT-014	0	
BCAST-1.1-TCAM-	AMT-003	0	
int-105	AMT-008	0	
	AMT-014	0	

Table 1: Enabler Validation Test Cases

7.2 Non Covered ETR Requirements

Any restrictions, limitations and/or infeasibility of testing of the ETR requirements should be stated in this section.

If new information about limitations and/or infeasibility of testing of any of the ETR requirements is discovered, this section should be updated accordingly.

ETR Requirement Id	ETR Status	Notes		
RM-006	0	Rich Media Solution		
RM-007	0	Rich Media Solution		
RM-008	0	Rich Media Solution		
RM-009	0	Rich Media Solution		
RM-010	0	Rich Media Solution		
RM-011	0	Rich Media Solution		
RM-012	0	Rich Media Solution		
RM-013	0	Rich Media Solution		
RM-014	0	Rich Media Solution		
RM-015	0	Rich Media Solution		
RM-016	0	Rich Media Solution		
RM-017	0	Rich Media Solution		
RM-018	0	Rich Media Solution		
SPR-013	0	Support of Pause & Resume of Subscription Period messages		
SPR-017	0	Support of Pause & Resume of Subscription Period messages		
SPR-014	0	Support of User Defined Bundle related provisioning messages		
SPR-018	0	Support of User Defined Bundle related provisioning messages		
SPR-009	0	Support for Related Contents Request messages		
SPR-011	0	Support for Related Contents Request messages		
TP-011	0	Broadcast Terminal Provisioning signalling		
TP-012	0	Broadcast Terminal Provisioning signalling		
TP-013	0	Broadcast Terminal Provisioning signalling		
SCPD-013	0	SPCP Backend Message for DRM Profile		
SCPD-014	0	SPCP Backend Message for DRM Profile		
SCPD-015	0	SPCP Backend Message for DRM Profile		

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ETR Requirement Id	ETR Status	Notes	
SCPD-016	0	SPCP Backend Message for DRM Profile	
SCPD-028	0	SPCP Backend Message for DRM Profile	
SCPS-013	0	SPCP Backend Message for Smartcard Profile	
SCPS-014	0	SPCP Backend Message for Smartcard Profile	
SCPS-015	0	SPCP Backend Message for Smartcard Profile	
SCPS-016	0	SPCP Backend Message for Smartcard Profile	
SG-040	0	Support RMS template retrieval signalling in SGDD	
SG-044	0	Support RMS template signalling in SGDD	
SG-045	0	Declaration of different entry points in SGDD	
CODEC-004	М	Forward Link Only Adaptation	
FD-034	М	Forward Link Only Adaptation	
SD-036	М	Forward Link Only Adaptation	
SD-037	М	Forward Link Only Adaptation	
SG-046	М	Forward Link Only Adaptation	
SG-047	М	Forward Link Only Adaptation	
SI-006	М	Forward Link Only Adaptation	
SPR-020	М	Forward Link Only Adaptation	
TP-008	М	Forward Link Only Adaptation	
SD-038	М	Forward Link Only Adaptation	
SD-039	М	Forward Link Only Adaptation	
FD-033	0	Forward Link Only Adaptation	
SG-048	0	Forward Link Only Adaptation	
TP-009	0	Forward Link Only Adaptation	
TP-010	0	Forward Link Only Adaptation	
SG-049	М	WiMAX Adaptation	
SG-050	М	WiMAX Adaptation	
SI-007	М	WiMAX Adaptation	
SG-051	М	WiMAX Adaptation	
SG-052	М	WiMAX Adaptation	
SI-008	М	WiMAX Adaptation	
SI-009	М	WiMAX Adaptation	
SCPD-027	0	WiMAX Adaptation	
SCPS-023	0	WiMAX Adaptation	
SCPD-029	0	WiMAX Adaptation	
SCPS-024	0	WiMAX Adaptation	

Table 2: Non-Covered ETR Requirements

Appendix A. Change History

(Informative)

A.1 Approved Version History

Reference	Date	Description
OMA-EVP-BCAST-V1_1	n/a	No prior version -or- No previous version within OMA

A.2 Draft/Candidate Version 1.1 History

Document Identifier	Date	Sections	Description
Draft Versions OMA-EVP-BCAST_INT-V1_1	23 Jun 2010	all	First Agreed draft baseline
	08 Nov 2010	5.1.3, 5.2.4.2, 5.2.5.3, 5.2.11, 7.1, 7.2	Inclusion of new BCAST 1.1 test scenarios and test cases. CR OMA-IOP-BRO-2010-0085-CR_BCAST_1.1_EVP_updated
Candidate Version OMA-EVP-BCAST_INT-V1_1	07 Dec 2010	n/a	Status changed to Candidate by TP TP Ref # OMA-TP-2010-0504- INP_BCAST_11_EVP_for_Candidate_Approval