



# **Enabler Release Definition for Mobile Broadcast Services**

Candidate Version 1.1 – 24 Mar 2009

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**Open Mobile Alliance**  
OMA-ERELD-BCAST-V1\_1-20090324-C

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# 1. Scope

The scope of this document is limited to the Enabler Release Definition of Mobile Broadcast Services (BCAST) according to OMA Release process and the Enabler Release specification baseline listed in section 5.

## 2. References

### 2.1 Normative References

- [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)
- [SCRRULES] “SCR Rules and Procedures”, Open Mobile Alliance™, OMA-ORG-SCR\_Rules\_and\_Procedures,  
[URL:http://www.openmobilealliance.org/](http://www.openmobilealliance.org/)

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### 2.2 Informative References

- [OMADICT] “Dictionary for OMA Specifications”, Version x.y, Open Mobile Alliance™,  
OMA-ORG-Dictionary-Vx\_y, [URL:http://www.openmobilealliance.org/](http://www.openmobilealliance.org/)

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## 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”, "Release Version Overview" and “Conformance Requirements Notation Details”, are normative, unless they are explicitly indicated to be informative.

The formal notation convention used in sections 8 and 9 to formally express the structure and internal dependencies between specifications in the Enabler Release specification baseline is detailed in [SCR RULES].

### 3.2 Definitions

**Enabler Release**                      Collection of specifications that combined together form an enabler for a service area, e.g. a download enabler, a browsing enabler, a messaging enabler, a location enabler, etc. The specifications that are forming an enabler should combined fulfil a number of related market requirements.

**Minimum Functionality Description**                      Description of the guaranteed features and functionality that will be enabled by implementing the minimum mandatory part of the Enabler Release.

### 3.3 Abbreviations

<b>BCMCS</b>	3GPP2 Broadcast Multicast Services
<b>DM</b>	Device Management
<b>DRM</b>	Digital Rights Management
<b>DVB-H</b>	Digital Video Broadcast - Handheld
<b>ERDEF</b>	Enabler Requirement Definition
<b>ERELED</b>	Enabler Release Definition
<b>IPSEC</b>	Internet Protocol – Secure
<b>ISMACryp</b>	Internet Streaming Media Alliance enCrypted
<b>MBMS</b>	3GPP Multimedia Broadcast Multicast Services
<b>MO</b>	Management Object
<b>OMA</b>	Open Mobile Alliance
<b>ROAP</b>	Rights Object Acquisition Protocol
<b>SRTP</b>	Secure Real-Time Transport Protocol
<b>XBS</b>	Extensions for Broadcast Systems
<b>XML</b>	Extensible Markup Language

## 4. Release Version Overview

### 4.1 Version 1.0 Functionality

This document outlines the Enabler Release Definition for Mobile Broadcast Services 1.0 (BCAST 1.0) and the respective conformance requirements for clients and servers implementing claiming compliance to it as defined by Open Mobile Alliance across the specification baseline.

### 4.2 Version 1.1 Functionality

#### TO BE FILLED IN

In addition to BCAST 1.0, this document outlines the Enabler Release Definition of Mobile Broadcast Services 1.1 (BCAST 1.1 ), which provides 3 new BDSs ( DVB-SH, WiMAX, and FLO-IP) and the enhancement of existing functions and the respective conformance requirements for clients and servers implementing claiming compliance to it as defined by Open Mobile Alliance across the specification base line.

## 5. Document Listing for Mobile Broadcast Services

This section is normative.

Doc Ref	Permanent Document Reference	Description
<b>Requirement Document</b>		
[BCAST1_1-Requirements]	OMA-RD-BCAST-V1_1-20090324-C	Requirement Document for Mobile Broadcast Services
<b>Architecture Document</b>		
[BCAST11-Architecture]	OMA-AD-BCAST-V1_0-20081010-C	Architecture Document for Mobile Broadcast Services
<b>Technical Specifications</b>		
[BCAST11-Services]	TBD	Specification that defines service provisioning, terminal provisioning, interaction, personalization, charging, mobility, and roaming for Mobile Broadcast Services
[BCAST11-SG]	TBD	Specification that defines the format, contents, encapsulation, and transport of the Electronic Service Guide for Mobile Broadcast Services.
[BCAST11-Distribution]	TBD	Specification that defines the protocols and procedures for file and real-time stream distribution for Mobile Broadcast Services.
[BCAST11-ServContProt]	TBD	Specification that describes the protocols and procedures for service and content protection for Mobile Broadcast Services.
[BCAST11-MBMS-Adaptation]	TBD	Specification that describes how the Mobile Broadcast Services enabler is used and profiled in conjunction with the use of 3GPP MBMS as the underlying broadcast distribution system.
[BCAST11-BCMCS-Adaptation]	TBD	Specification that describes how the Mobile Broadcast Services enabler is used and profiled in conjunction with the use of 3GPP2 BCMCS as the underlying broadcast distribution system.
[BCAST11-DVBH-IPDC-Adaptation]	TBD	Specification that describes how the Mobile Broadcast Services enabler is used and profiled in conjunction with the use of IPDC over DVB-H as the underlying broadcast distribution system.
[BCAST11-DVBSH-IPDC-Adaptation]	TBD	Specification that describes how the Mobile Broadcast Services enabler is used and profiled in conjunction with the use of IPDC over DVB-SH as the underlying broadcast distribution system.
[BCAST1.1 WiMAX-Adaptation]	TBD	Specification that describes how the Mobile Broadcast Services enabler is used and profiled in conjunction with the use of WiMAX Unicast bearer as the underlying broadcast distribution system.
[BCAST1.1 FLO-IP Adaptation]	TBD	Specification that describes how the Mobile Broadcast Services enabler is used and profiled in conjunction with the use of Forward Link Only IP as the underlying broadcast distribution system.
<b>Supporting Files</b>		
TBD		

**Table 1: Listing of Documents in Mobile Broadcast Services Enabler**

## 6. OMNA Considerations

<< This section is to be used to describe any OMNA items included in the release. This would include, among others:

- Usage of OMA-based Uniform Resource Names (URNs) (including those used as namespace identifiers in Schemas)
- AppiDs for Application Characteristics (AC)
- Managed Object (MO) information for the MO registry
- ISO Object IDs
- PUSH Application Ids
- WAP Wireless Session Protocol (WSP) Content Types
- Presence <service-description> assignments
- Uniform Resource Identifier (URI)-List Registered Usage Names (for XDM)

The format of this section will be left up to the release owners to account for the particular needs they may run into. It should be clear from the written material, though, as to the set of OMNA items needed.

If a new OMNA registry is needed to support the release - clearly this should have been worked with the REL Committee before submitting a Release Document. Failure to do so may result in delays as the required tables are worked up and made publicly available. Another risk is that the table desired is not supported by OMNA (is not a registry type table) and the group will need to re-think how they intend to resolve their needs.

Through the normal development process the OMNA entries or support registries should be accommodated. This should not be trigger to remove the linkage from this section. Thus, if an entry is added to OMNA after the initial Candidate version described the need - the material should stay in this section. It may be useful in subsequent releases to add some text to indicate that the needed items have been accommodated (e.g. add a comment regarding its availability or support as appropriate).

If the release has absolutely no OMNA items to be accommodated - then it should indicate that explicitly with a short description (e.g. this release does not have any OMNA items for handling). This determination probably can not be made until the end of the development phases and editors are encouraged to keep this advisory in place until the Consistency Review.

DELETE THIS COMMENT >>

## 7. Conformance Requirements Notation Details

This section is informative

The tables in following chapters use the following notation:

- Item:** Entry in this column **MUST** be a valid ScrItem according to [SCRRULES].
- Feature/Application:** Entry in this column **SHOULD** be a short descriptive label to the **Item** in question.
- Requirement:** Expression in the column **MUST** be a valid TerminalExpression according to [SCRRULES] and it **MUST** accurately reflect the architectural requirement of the **Item** in question.

## 8. ERDEF for Mobile Broadcast Services - Client Requirements

This section is normative.

Item	Feature / Application	Requirement
OMA-ERDEF-<<ENABLER>>-C-001-<<M/O>>	<<ENABLER>> Client	

**Table 2: ERDEF for Mobile Broadcast Services Client-side Requirements**

## 9. ERDEF for Mobile Broadcast Services - Server Requirements

This section is normative.

Item	Feature / Application	Requirement
OMA-ERDEF-<<ENABLER>>-S-001-<<M/O>>	<<ENABLER>> Server	

Table 3: ERDEF for Mobile Broadcast Services Server-side Requirements

## Appendix A. Change History (Informative)

### A.1 Approved Version History

Reference	Date	Description
n/a	n/a	No prior version

### A.2 Draft/Candidate Version 1.1 History

Document Identifier	Date	Sections	Description
Draft Versions	03 Dec 2008	all	Baseline
OMA-ERELED-BCAST-V1_1	26 Feb 2009	5	Document listing updated
Candidate Versions	24 Mar 2009	n/a	Status changed by TP
OMA-ERELED-BCAST-V1_1			TP ref# OMA-TP-2009-0114- INP_BCAST_V1_1_RD_for_Candidate_Approval