



Enabler Release Definition for CBCS

Candidate Version 1.0 – 10 Jul 2009

Open Mobile Alliance
OMA-ERELED-CBCS-V1_0-20090710-C

Use of this document is subject to all of the terms and conditions of the Use Agreement located at <http://www.openmobilealliance.org/UseAgreement.html>.

Unless this document is clearly designated as an approved specification, this document is a work in process, is not an approved Open Mobile Alliance™ specification, and is subject to revision or removal without notice.

You may use this document or any part of the document for internal or educational purposes only, provided you do not modify, edit or take out of context the information in this document in any manner. Information contained in this document may be used, at your sole risk, for any purposes. You may not use this document in any other manner without the prior written permission of the Open Mobile Alliance. The Open Mobile Alliance authorizes you to copy this document, provided that you retain all copyright and other proprietary notices contained in the original materials on any copies of the materials and that you comply strictly with these terms. This copyright permission does not constitute an endorsement of the products or services. The Open Mobile Alliance assumes no responsibility for errors or omissions in this document.

Each Open Mobile Alliance member has agreed to use reasonable endeavors to inform the Open Mobile Alliance in a timely manner of Essential IPR as it becomes aware that the Essential IPR is related to the prepared or published specification. However, the members do not have an obligation to conduct IPR searches. The declared Essential IPR is publicly available to members and non-members of the Open Mobile Alliance and may be found on the “OMA IPR Declarations” list at <http://www.openmobilealliance.org/ipr.html>. The Open Mobile Alliance has not conducted an independent IPR review of this document and the information contained herein, and makes no representations or warranties regarding third party IPR, including without limitation patents, copyrights or trade secret rights. This document may contain inventions for which you must obtain licenses from third parties before making, using or selling the inventions. Defined terms above are set forth in the schedule to the Open Mobile Alliance Application Form.

NO REPRESENTATIONS OR WARRANTIES (WHETHER EXPRESS OR IMPLIED) ARE MADE BY THE OPEN MOBILE ALLIANCE OR ANY OPEN MOBILE ALLIANCE MEMBER OR ITS AFFILIATES REGARDING ANY OF THE IPR'S REPRESENTED ON THE “OMA IPR DECLARATIONS” LIST, INCLUDING, BUT NOT LIMITED TO THE ACCURACY, COMPLETENESS, VALIDITY OR RELEVANCE OF THE INFORMATION OR WHETHER OR NOT SUCH RIGHTS ARE ESSENTIAL OR NON-ESSENTIAL.

THE OPEN MOBILE ALLIANCE IS NOT LIABLE FOR AND HEREBY DISCLAIMS ANY DIRECT, INDIRECT, PUNITIVE, SPECIAL, INCIDENTAL, CONSEQUENTIAL, OR EXEMPLARY DAMAGES ARISING OUT OF OR IN CONNECTION WITH THE USE OF DOCUMENTS AND THE INFORMATION CONTAINED IN THE DOCUMENTS.

© 2009 Open Mobile Alliance Ltd. All Rights Reserved.

Used with the permission of the Open Mobile Alliance Ltd. under the terms set forth above.

Contents

- 1. SCOPE4
- 2. REFERENCES5
 - 2.1 NORMATIVE REFERENCES5
 - 2.2 INFORMATIVE REFERENCES5
- 3. TERMINOLOGY AND CONVENTIONS6
 - 3.1 CONVENTIONS6
 - 3.2 DEFINITIONS6
 - 3.3 ABBREVIATIONS6
- 4. RELEASE VERSION OVERVIEW8
 - 4.1 VERSION 1.0 FUNCTIONALITY8
- 5. DOCUMENT LISTING FOR CBCS ENABLER10
- 6. CONFORMANCE REQUIREMENTS NOTATION DETAILS11
- 7. ERDEF FOR CBCS12
- APPENDIX A. CHANGE HISTORY (INFORMATIVE)13
 - A.1 APPROVED CBCS VERSION 1.0 HISTORY13
 - A.2 DRAFT/CANDIDATE CBCS VERSION 1.0 HISTORY13

Figures

- Figure 1: Reference Model of OMA CBCS8

Tables

- Table 1: Listing of Documents in CBCS Enabler10
- Table 2: ERDEF for CBCS12

1. Scope

The scope of this document is limited to the Enabler Release Definition of CBCS (Categorization Based Content Screening) according to OMA Release process and the Enabler Release specification baseline listed in section 5.

2. References

2.1 Normative References

- [CBCS-AD] “Categorization Based Content Screening Framework Architecture”, Open Mobile Alliance™, OMA-AD-CBCS-V1_0, URL:<http://www.openmobilealliance.org/>
- [CBCS-RD] “Categorization Based Content Screening Framework Requirements”, Open Mobile Alliance™, OMA-RD-CBCS-V1_0, URL:<http://www.openmobilealliance.org/>
- [CBCS-TS] “Categorization Based Content Screening Framework Technical Specifications”, Open Mobile Alliance™, OMA-TS-CBCS-V1_0, URL:<http://www.openmobilealliance.org/>
- [PEEM-ERP] “Enabler Release Package for PEEM”, Open Mobile Alliance™, OMA-ERP-PEEM-V1_0, 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>
- [SCRRULES] “SCR Rules and Procedures”, Open Mobile Alliance™, OMA-ORG-SCR_Rules_and_Procedures, URL:<http://www.openmobilealliance.org/>

2.2 Informative References

- [OMADICT] “Dictionary for OMA Specifications”, Version x.y, Open Mobile Alliance™, OMA-ORG-Dictionary-V2_7, URL:<http://www.openmobilealliance.org/>

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 7 and **Error! Reference source not found.** to formally express the structure and internal dependencies between specifications in the Enabler Release specification baseline is detailed in [SCRRULES].

3.2 Definitions

Authorized Principal	A Principal [OMADICT] with permissions to perform specific action(s) or receive specific information [CBCS-RD]
Categorization Based Content Screening Service Provider	The Service Provider (see [OMADICT]) that deploys the CBCS Enabler [CBCS-RD]
Content Categorization Entity	The entity that assigns Content Categories to Content [CBCS-RD]
Content Categorization Rule	A rule that is capable of identifying an appropriate Content Category for certain Content [CBCS-AD]
Content	Digitized work that is processed, stored, or transmitted. It includes such things as text, presentation, audio, images, video, executable files, etc. Content may have properties such as media type, mime type, etc. [OMA-DICT]
Content Category	A category assigned to Content, aiming to describe the characteristics of the Content [CBCS-RD]
Content Screening	The act of blocking, allowing or amending Content [CBCS-RD]
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.
Screening Rule	A Policy Rule [OMADICT] that uses Screening Criteria and Screening Actions [CBCS-RD]

3.3 Abbreviations

CBCS	Categorization Based Content Screening
CBCS-1	CBCS Categorization interface
CBCS-2	CBCS Categorization Rules management interface
CBCS-3	CBCS Categorization association interface
ERDEF	Enabler Requirement Definition
ERELED	Enabler Release Definition
OMA	Open Mobile Alliance
PEEM	Policy Evaluation, Enforcement and Management
PEL	Policy Expression Language
PEM-1	PEEM Callable interface
PEM-2	PEEM Management interface

WSDL Web Services Description Language
XML eXtensible Markup Language

4. Release Version Overview

The objective of the Categorization Based Content Screening (CBCS) Enabler is to screen Content before delivering it to the user, based on Content Categories. A Content Category qualifies the type of content, according to a categorization scheme. The CBCS Enabler can obtain the Content Category for a given piece of Content from a Categorization Entity [CBCS-RD], from categorization meta-data in the Content itself, or by analyzing the Content.

The CBCS Enabler allows any Authorized Principal to create and manage Screening Rules, according to the deployment scheme of the CBCS Service Provider.

4.1 Version 1.0 Functionality

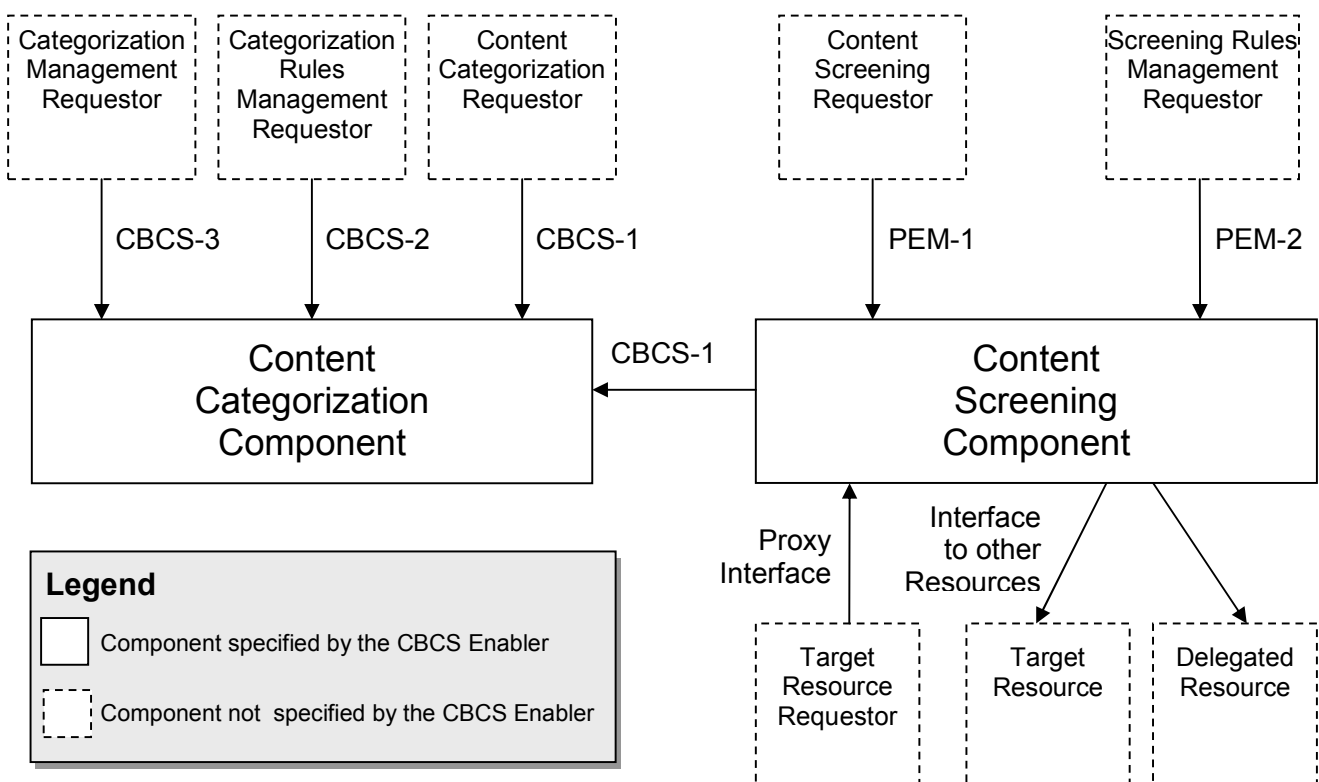


Figure 1: Reference Model of OMA CBCS

Figure 1 above shows a functional reference model of the OMA CBCS enabler with the different interfaces available.

The CBCS enabler re-uses the OMA PEEM enabler [PEEM-ERP].

The CBCS Enabler consists of two independent functional components:

- Content Screening Component: identifies the Screening Rules associated with the incoming request, processes the Screening Rules, and provides the management functions of creating, deleting, modifying and viewing of Screening Rules.
- Content Categorization Component: The Content Categorization Component is responsible for mapping Content and/or Content references (e.g., URI) in the incoming CBCS-1 request to a set of Content Categories. This component can be called directly by any Content Categorization Requestor, i.e. any Resource including the Content Screening Component. This component also provides the management functions of creating, deleting, modifying

and viewing of Content Categorization rules and/or Content references (e.g., URIs) with its associated Content Categories.

The two components can be used together or separately. The Content Screening Component can be deployed in the proxy usage pattern and/or in the callable usage pattern [PEEM-ERP].

The following interfaces are specified:

- PEM-1: The CBCS interface to invoke the processing of Screening Rules is derived from PEM-1 [PEEM-ERP]. It is used to perform Content Screening in the callable usage pattern.
- PEM-2: The CBCS management interface to the Content Screening Component is PEM-2 [PEEM-ERP]. It is used to create, delete, modify and view Screening Rules.
- CBCS-1: The CBCS-1 interface is used to obtain the Content Category (or Categories) for given Content.
- CBCS-2: The CBCS-2 interface is used to create, delete, modify and view Content Categorization Rules.
- CBCS-3: The CBCS-3 interface is used to associate (create, delete, modify and view) Content references (e.g., URIs or the Content itself) with Content Categories.

5. Document Listing for CBCS Enabler

This section is normative.

Doc Ref	Permanent Document Reference	Description
Requirement Document		
[CBCS-RD]	OMA-RD-CBCS-V1_0-20081014-C	Requirement Document for CBCS Enabler
Architecture Document		
[CBCS-AD]	OMA-AD-CBCS-V1_0-20090212-C	Architecture Document for CBCS Enabler
Technical Specifications		
[CBCS-TS]	OMA-TS-CBCS-V1_0-20090710-C	Interface Specification for CBCS Enabler
Supporting Files		
[CBCS-XSD_Input_Template]	OMA-SUP-XSD_cbc_pem1InputTemplate-V1_0-20090710-C	XML Schema definitions for the PEM-1 Input Template for CBCS Working file in Schema directory: file: cbc_pem1InputTemplate-V1_0.xsd http://www.openmobilealliance.org/tech/profiles
[CBCS-XSD_Output_Template]	OMA-SUP-XSD_cbc_pem1OutputTemplate-V1_0-20090710-C	XML Schema definitions for the PEM-1 Output Template for CBCS Working file in Schema directory: file: cbc_pem1OutputTemplate-V1_0.xsd http://www.openmobilealliance.org/tech/profiles

Table 1: Listing of Documents in CBCS Enabler

6. Conformance Requirements Notation Details

This section is informative

The table in following chapter uses the following notation:

Item:	Entry in this column is a valid ScrItem according to [SCRRULES].
Feature/Application:	Entry in this column is a short descriptive label to the Item in question.
Requirement:	Expression in the column is a valid TerminalExpression according to [SCRRULES] and it reflects the architectural requirement of the Item in question.

7. ERDEF for CBCS

This section is normative.

Item	Feature / Application	Requirement
OMA-ERDEF-CBCS-001-M	Processing of Screening Rules	[CBCS-TS]
OMA-ERDEF-CBCS-002-M	Management of Screening Rules	[CBCS-TS]
OMA-ERDEF-CBCS-003-M	Request for Categorization	[CBCS-TS]
OMA-ERDEF-CBCS-004-M	Categorization Management	OMA-ERDEF-CBCS-005-O or ERDEF-CBCS-006-O
OMA-ERDEF-CBCS-005-O	Management of Categorization Rules	[CBCS-TS]
OMA-ERDEF-CBCS-006-O	Association of Categories	[CBCS-TS]

Table 2: ERDEF for CBCS

Appendix A. Change History (Informative)

A.1 Approved CBCS Version 1.0 History

Reference	Date	Description
n/a	n/a	No prior version –or- No previous version within OMA

A.2 Draft/Candidate CBCS Version 1.0 History

Document Identifier	Date	Sections	Description
Draft Versions: OMA-ERELED-CBCS-V1_0	27 Feb 2008	ALL	Document draft created, initial baseline.
	15 Apr 2008	2.1, 3, 4, 5	Update of references (section 2.1), abbreviations (chapter 3), document table (chapter 5). Editorial changes in chapter 4.
	16 Apr 2008	2.1, 3.2, 3.3	Added references, abbreviation and definitions. Removed sentence referring to “CBCS User Profile” as agreed in ARC meeting of 15 Apr 2008. Cleaned up some reference formats that used spaces and underscores rather than hyphens.
	17 Apr 2008	5	TS and SUP files information updated
	18 Aug 2008	3.2, 4.1, 7	Revision according to the agreed comments accumulated in consistency review report OMA-CONRR-CBCS-V1_0-20080812-D
	08 Sep 2008	5	Updated Document Listing with revised AD and RD
Candidate Version: OMA-ERELED-CBCS-V1_0	14 Oct 2008	All	Status changed to Candidate by TP: OMA-TP-2008-0377-INP_CBCS_V1_0_ERP_for_Candidate_Approval Editorial fixes: cross-references added
Draft Version: OMA-ERELED-CBCS-V1_0	07 Jan 2009	All	Editorial fix: 2009 template applied Updated Document Listing with revised TS and SUP files
	03 Feb 2009	5	Updated Document Listing with revised AD and TS
Candidate Version: OMA-ERELED-CBCS-V1_0	12 Feb 2009	All	Re-approved as Candidate by TP: OMA-TP-2009-0079-INP_CBCS_V1_0_ERP_for_Candidate_re_Approval
Draft Version: OMA-ERELED-CBCS-V1_0	06 Jul 2009	5	Updated Document Listing with revised TS and SUP files.
Candidate Version: OMA-ERELED-CBCS-V1_0	10 Jul 2009	All	Status changed to Candidate by TP: OMA-TP-2009-0316-INP_CBCS_V1_0_ERP_for_Notification