

# **Enabler Release Definition for Device Capability Management Object**

Candidate Version 1.0 – 31 May 2011

Open Mobile Alliance OMA-ERELD-DCMO-V1\_0-20110531-C

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# 1. Scope

The scope of this document is limited to the Enabler Release Definition of DCMO 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

 $[\textbf{SCRRULES}] \hspace{1cm} \text{``SCR Rules and Procedures''}, Open \ Mobile \ Alliance \ ^{TM}, OMA-ORG-SCR\_Rules\_and\_Procedures,$ 

URL:http://www.openmobilealliance.org/

## 2.2 Informative References

[OMADICT] "Dictionary for OMA Specifications", Version 2.7, Open Mobile Alliance™,

OMA-ORG-Dictionary-V2\_7, <u>URL: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", "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 [SCRRULES].

#### 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

**DCMO** Device Capability Management Object

ERDEF Enabler Requirement Definition
ERELD Enabler Release Definition
OMA Open Mobile Alliance

#### 4. Release Version Overview

Mobile devices are becoming more and more advanced with many features, such as Cameras, Bluetooth, USB, keyboard, peripheral and more. In many circumstances Enterprises, regulations and others have policies against the usage of some features but allow the use of other features available on mobile devices. Therefore there is a need for selectively enabling and disabling device capabilities.

The DCMO enabler targets to specify the mechanisms required for the remote management of device capabilities. In particular it will address the ability of remote enablement and disablement of device capabilities. The device capability information will be exposed by DCMO to facilitate management of the Device Capabilities. The DCMO enabler also specifies the mechanisms to convey the result of DCMO Operations or report the discovery of new device capability.

#### 4.1 Version 1.0 Functionality

The DCMO Enabler V1.0 introduced following functionalities:

- Support a mechanism to enable the Device Capabilities
- Support a mechanism to disable the Device Capabilities
- Support a mechanism to specify whether the end-user is informed of DCMO operations performed in the Device.
- Support a mechanism to indicate whether the user is allowed to enable or disable specific Device Capabilities
- Support a mechanism to expose the Device Capabilities via management tree
- Support a mechanism to indicate whether a Device Capability is removable and whether it is currently attached
- Support a mechanism to report the result of DCMO Operations to DCMO Server

# 5. Document Listing for DCMO

This section is normative.

Doc Ref	Permanent Document Reference	Description					
Requirement Do	Requirement Document						
[DCMO_RD]	OMA-RD-DCMO-V1_0-20070529-C	Requirement Document for DCMO Enabler					
Architecture Do	cument						
[DCMO_AD]	OMA-AD-DCMO-V1_0-20081024-C	Architecture Document for DCMO Enabler					
Technical Specif	Technical Specifications						
[DCMO_TS]	OMA-TS-DCMO-V1_0-20110531-C	Technical Specification for DCMO Enabler					
Supporting Files							
[DCMO_DDF]	OMA-SUP-MO_DCMO-V1_0-20101102-C	DDF parameters for the DCMO Enabler					
		Working file in DDF directory: file: mo_dcmo-v1_0.ddf path: http://www.openmobilealliance.org/tech/ddf/					

Table 1: Listing of Documents in DCMO Enabler

## 6. OMNA Considerations

The OMNA portal needs to add and maintain the following MO into its registry:

MO Identifier	Description	Owner	Version	MO DDF	MO Spec	
urn:oma:mo:oma- dcmo:1.0	Device Capability MO	DM WG	1.0	OMA SUB MO DOMO VI O	OMA-TS-DCMO-V1_0-20110531-C	

The OMNA portal needs to add and maintain the following alert type into Alert Type registry:

Alert Root		Alert Type Description	Owner		II 1	MO Identifier (Optional)
urn:oma:at:oma-	OperationComplete	Used to claim that the alert message	DM WG	1.0	OMA-TS-DCMO-V1_0-	urn:oma:mo:oma-dcmo:1.0
dcmo:operation:1.0		conveys the result of DCMO operation	n II		20110531-C	1 1

## 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 DCMO - Client Requirements

This section is normative.

Item	Feature / Application	Requirement
OMA-ERDEF-DCMO-C-001-< <m o="">&gt;</m>	DCMO Client	

**Table 2: ERDEF for DCMO Client-side Requirements** 

# 9. ERDEF for DCMO - Server Requirements

This section is normative.

Item	Feature / Application	Requirement
OMA-ERDEF-DCMO-S-001-< <m o="">&gt;</m>	DCMO Server	

**Table 3: ERDEF for DCMO 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 1.0 History

Document Identifier	Date	Sections	Description
Draft Versions	01 Apr 2008	All	Initial baseline draft
OMA-ERELD-DCMO-V1_0	15 Apr 2008	All	Converted to latest template
	05 Sep 2008	All	Minor editorials
	25 Sep 2008	5	Update of Document Listing
	08 Oct 2008	5	Document list updated
Candidate Version	24 Oct 2008	n/a	Status changed to Candidate by TP
OMA-ERELD-DCMO-V1_0			TP ref # OMA-TP-2008-0403-
			INP_Device_Capabilities_Management_Objects_V1_0_ERP_for_Cand
			idate_Approval
Draft Versions	02 Feb 2009	5, 6	Updated with agreed CR:
OMA-ERELD-DCMO-V1_0			OMA-DM-DCMO-2008-0019R02
			Document list updated
			Latest template added
	03 Feb 2009	6	Updated with agreed CR:
			OMA-DM-DCMO-2008-0010
	26 Feb 2009	5, 6	Updated with agreed CR:
			OMA-DM-2009-0002R01
			Document list updated
Candidate Version	13 Mar 2009	n/a	Status changed to Candidate by TP
OMA-ERELD-DCMO-V1_0			TP ref # OMA-TP-2009-0119-
			INP_DCMO_V1_0_ERP_for_notification
Draft Version	02 Sep 2009	5	Document Listing Updated
OMA-ERELD-DCMO-V1_0			
Candidate Version	04 Sep 2009	5	Document Listing Updated
OMA-ERELD-DCMO-V1_0			Status Changed to Candidate by TP
			TP Dof Ref # OMA-TP-2009-0426-
D. C.M.	27.4. 2010	4.1	INP_DCMO_V1_0_ERP_for_Notification
Draft Versions	27 Aug 2010	4.1	Updated with agreed CR:
OMA-ERELD-DCMO-V1_0	20.0.2010	_	OMA-DM-DCMO-2010-0001-CR_Clerical
	29 Oct 2010	5	Changes to OMA-SUP-MO_DCMO
	00.17	1	Documents list updated to reflect this
Candidate Version	02 Nov 2010	n/a	Status changed to Candidate by TP
OMA-ERELD-DCMO-V1_0			TP Ref# OMA-TP-2010-0451- INP_DCMO_V1.0_ERP_and_ETR_for_Notification
Draft Version	31 May 2011	5, 6	Changes to OMA-TS-DCMO
OMA-ERELD-DCMO-V1 0	31 Way 2011	3,0	Document Listing and OMNA registration sections updated accordingly
Candidate Version	21 May 2011	# /o	Status changed to Candidate by TP
	31 May 2011	n/a	TP Ref# OMA-TP-2011-0188-
OMA-ERELD-DCMO-V1_0			INP_DCMO_V1_0_ERP_for_Notification