



Enabler Release Definition for Device Capability Management Object

Candidate Version 1.0 – 04 Jul 2011

Open Mobile Alliance
OMA-ERELD-DCMO-V1_0-20110704-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](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/)

2.2 Informative References

- [OMADICT] “Dictionary for OMA Specifications”, Version 2.7, Open Mobile Alliance™,
OMA-ORG-Dictionary-V2_7, [URL:http://www.openmobilealliance.org/](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 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 Document		
[DCMO_RD]	OMA-RD-DCMO-V1_0-20070529-C	Requirement Document for DCMO Enabler
Architecture Document		
[DCMO_AD]	OMA-AD-DCMO-V1_0-20081024-C	Architecture Document for DCMO Enabler
Technical Specifications		
[DCMO_TS]	OMA-TS-DCMO-V1_0-20110704-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-SUP-MO_DCMO-V1_0-20101102-C	OMA-TS-DCMO-V1_0-20110704-C

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

Alert Root	Alert Code	Alert Type Description	Owner	Version	Spec	MO Identifier (Optional)
urn:oma:at:oma-dcmo:operation:1.0	OperationComplete	Used to claim that the alert message conveys the result of DCMO operation	DM WG	1.0	OMA-TS-DCMO-V1_0-20110704-C	urn:oma:mo:oma-dcmo:1.0

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>>	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>>	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 OMA-ERELED-DCMO-V1_0	01 Apr 2008	All	Initial baseline draft
	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 OMA-ERELED-DCMO-V1_0	24 Oct 2008	n/a	Status changed to Candidate by TP TP ref # OMA-TP-2008-0403- INP_Device_Capabilities_Management_Objects_V1_0_ERP_for_Cand idate_Approval
Draft Versions OMA-ERELED-DCMO-V1_0	02 Feb 2009	5, 6	Updated with agreed CR: 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 OMA-ERELED-DCMO-V1_0	13 Mar 2009	n/a	Status changed to Candidate by TP TP ref # OMA-TP-2009-0119- INP_DCMO_V1_0_ERP_for_notification
Draft Version OMA-ERELED-DCMO-V1_0	02 Sep 2009	5	Document Listing Updated
Candidate Version OMA-ERELED-DCMO-V1_0	04 Sep 2009	5	Document Listing Updated Status Changed to Candidate by TP TP Dof Ref # OMA-TP-2009-0426- INP_DCMO_V1_0_ERP_for_Notification
Draft Versions OMA-ERELED-DCMO-V1_0	27 Aug 2010	4.1	Updated with agreed CR: OMA-DM-DCMO-2010-0001-CR_Clerical
	29 Oct 2010	5	Changes to OMA-SUP-MO_DCMO Documents list updated to reflect this
Candidate Version OMA-ERELED-DCMO-V1_0	02 Nov 2010	n/a	Status changed to Candidate by TP TP Ref# OMA-TP-2010-0451- INP_DCMO_V1.0_ERP_and_ETR_for_Notification
Draft Versions OMA-ERELED-DCMO-V1_0	31 May 2011	5, 6	Changes to OMA-TS-DCMO Document Listing and OMNA registration sections updated accordingly
	29 Jun 2011	5, 6	Changes to OMA-TS-DCMO Document Listing and OMNA registration sections updated accordingly
Candidate Version OMA-ERELED-DCMO-V1_0	04 July 2011	n/a	Status Changed to Candidate by TP TP Ref # OMA-TP-2011-0245- INP_DCMO_V1_0_ERP_for_Notification