



Enabler Release Definition for Device Capability Management Object

Approved Version 1.0 – 10 Apr 2012

Open Mobile Alliance
OMA-ERELED-DCMO-V1_0-20120410-A

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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_0-20120410-A | Requirement Document for DCMO Enabler |
| Architecture Document | | |
| [DCMO_AD] | OMA-AD-DCMO-V1_0-20120410-A | Architecture Document for DCMO Enabler |
| Technical Specifications | | |
| [DCMO_TS] | OMA-TS-DCMO-V1_0-20120410-A | Technical Specification for DCMO Enabler |
| Supporting Files | | |
| [DCMO_DDF] | OMA-SUP-MO_DCMO-V1_0-20120410-A | 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_0-20120410-A | OMA-TS-DCMO-V1_0-20120410-A |

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_0-20120410-A | 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 |
|----------------------|-------------|--|
| OMA-ERELED-DCMO-V1_0 | 10 Apr 2012 | Status changed to Approved by TP: OMA-TP-2012-0155-INP_DCMO_V1.0_ERP_for_final_Approval |