



Enabler Release Definition for OMA Device Management

Candidate Version 2.0 – 20 Jul 2010

Open Mobile Alliance
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1. Scope

The scope of this document is limited to the Enabler Release Definition of OMA Device Management v2.0 according to OMA Release process and the Enabler Release specification baseline listed in section 5.

2. References

2.1 Normative References

- [DMAD] “OMA Device Management Architecture, Version 2.0”, Open Mobile Alliance™, OMA-AD-DM-V2_0,
[URL:http://www.openmobilealliance.org/](http://www.openmobilealliance.org/)
- [DMRD] “OMA Device Management Requirements, Version 2.0”, Open Mobile Alliance™, OMA-RD-DM-V2_0,
[URL:http://www.openmobilealliance.org/](http://www.openmobilealliance.org/)
- [DMTS] “OMA Device Management Technical Specification, Version 2.0”, Open Mobile Alliance™, OMA-TS-DM-V2_0,
[URL:http://www.openmobilealliance.org/](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](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” and “Introduction”, 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

Device Management	Management of the Device configuration and other managed objects of Devices from the point of view of the various Management Authorities. Device Management includes, but is not restricted to setting initial configuration information in Devices, subsequent updates of persistent information in Devices, retrieval of management information from Devices and processing events and alarms generated by Devices.
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 fulfill 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

DM	Device Management
DTD	Document Type Definition
ERDEF	Enabler Requirement Definition
ERELD	Enabler Release Definition
OMA	Open Mobile Alliance
RD	Requirements Document
SCR	Static Conformance Requirements

4. Release Version Overview

The Device Management (DM) Enabler provides a platform neutral protocol to allow servers to remotely manage devices. DM is intended to operate over a variety of transport and notification protocols in a platform neutral format.

4.1 Version 1.2

The DM V1.2 Enabler added or improved the following functionalities:

- Enhanced security
- DM Profile bootstrap
- TNDIS
- Inbox
- DM Account
- XML Encryption
- Generic Alert
- Excluded "Con" object which provided rudimentary connectivity configuration and which as since been replaced by the ConnMO Reference Release [ConnMO]
- Nonce Resynchronization

4.2 Version 1.3

The DM V1.3 Enabler supports the following additional functionalities:

- Support for SIP Push for sending notification message,
- Specify for mandatory support for bootstrap/TNDIS
- Support for rich information in notification message including expiration, reason for session, etc.
- Improved discovery of optional DM functionalities supported by the DM Client.

4.3 Version 2.0

The DM V2.0 Enabler supports the following additional functionalities:

- Improved mechanism for multiple management authorities dealing with a single client.
- Support for management of devices that lie outside the management domain of the service providers,
- Support application interaction with the DM client's management objects.
- Support DM functionality on devices with more than one access technology/operating system/environment.
- Improved protocol and representation.

5. Document Listing for Device Management 2.0

This section is normative.

Doc Ref	Permanent Document Reference	Description
Requirement Document		
[DMRD]	OMA-RD-DM-V2_0-20100309-C	Requirement Document for DM 2.0 Enabler
[DMRD]	OMA-RD-DM-V1_3-20100525-C	Requirement Document for DM 1.3 Enabler
Architecture Document		
[DMAD]	OMA-AD-DM-V2_0-20100720-C	Architecture Document for DM 2.0 Enabler
[DMAD]	OMA-AD-DM-V1_3-20100525-C	Architecture Document for DM 1.3 Enabler
Technical Specifications		
Supporting Files		

Table 1: Listing of Documents in DM V2.0 Enabler

6. OMNA Considerations

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 DM 2.0 - Client Requirements

This section is normative.

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

Table 2: ERDEF for DM 2.0 Client-side Requirements

9. ERDEF for DM 2.0 - Server Requirements

This section is normative.

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

Table 3: ERDEF for DM 2.0 Server-side Requirements

Appendix A.

(Informative)

A.1 Approved Version History

Reference	Date	Description
N/A	N/A	No prior version

A.2 Draft/Candidate Version 2.0 History

Document Identifier	Date	Sections	Description
Draft Versions OMA-ERELED-DM-V2_0	16 Nov 2009	All	Baseline to v2.0. (agreed in OMA-DM-DM20-2009-0051) Added OMA-RD-DM-V1_3-20090901-C to the list of documents for RD formal review by REQ
	08 Feb 2010	5	Changes to OMA-RD-DM-V2.0 Section 5 updated to reflect this
Candidate Version OMA-ERELED-DM-V2_0	09 Mar 2010	N/A	Status changed to Candidate by TP TP ref#: OMA-TP-2010-0100- INP_DM_V2_0_RD_for_Candidate_Approval
Draft Versions OMA-ERELED-DM-V2_0	12 May 2010	5	Added AD to list of documents
	31 May 2010	5	Updated list of documents
	25 Jun 2010	5	Updated list of documents
Candidate Version OMA-ERELED-DM-V2_0	20 Jul 2010	N/A	Status changed to Candidate by TP TP ref#: OMA-TP-2010-0283- INP_DM_V2_0_AD_for_Candidate_Approval