Enabler Release Definition for Gateway Management Object (GwMO)

Candidate Version 1.1 – 26 Feb 2013

Open Mobile Alliance

OMA-ERELD-GwMO-V1_1-20130226-C

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1. Scope

The scope of this document is limited to the Enabler Release Definition of Gateway Management Object (GwMO v1.1) according to OMA Release process and the Enabler Release specification baseline listed in section 5.

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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

[SCRRULES] "SCR Rules and Procedures", Open Mobile Alliance™, OMA-ORG-SCR_Rules_and_Procedures, URL:http://www.openmobilealliance.org/

[GwMORD] "OMA DM Gateway Management Object Requirements, Version 1.0 ", Open Mobile Alliance™, OMA-RD-GwMO-V1_0, URL:http://www.openmobilealliance.org/

[GwMORDv1.1] "OMA DM Gateway Management Object Requirements, Version 1.1 ", Open Mobile Alliance™, OMA-RD-GwMO-V1_1, URL:http://www.openmobilealliance.org/

2.2 Informative References

[OMADICT] "Dictionary for OMA Specifications", Version x.y, Open Mobile Alliance™, OMA-ORG-Dictionary-Vx_y, URL:http://www.openmobilealliance.org/

[DMDICT] "OMA Device Management Dictionary, Version 1.0". Open Mobile Alliance™. OMA-SUP-DM_Dictionary-v1_0. URL:http://www.openmobilealliance.org/

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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

ERDEF	Enabler Requirement Definition
ERELD	Enabler Release Definition
OMA	Open Mobile Alliance
OMNA	Open Mobile Naming Authority

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4. Release Version Overview

The GwMO enabler allows an OMADM Server to manage devices that are not directly accessible to it (for example, because the devices are deployed behind a firewall or because the devices do not support the OMA DM protocol). It also enables the management of devices in a Machine to Machine (M2M) ecosystem (for example, fanning out DM commands from a DM Server to multiple End Devices and aggregating responses from multiple End Devices so that a consolidated response is sent back to the DM Server).

4.1 Version 1.0 Functionality

GwMO V1.0 covers:

- Transparent, Proxy, and Protocol Adaptation modes of operation
- Device inventory
- Command fanout and response aggregation
- Storage of configuration data and software image for subtending devices

The following issues are out of scope:

- Device discovery mechanisms
- Management protocol adaptation rules

4.2 Version 1.1 Functionality

GwMO V1.1 covers:

- DM Gateway adaptation to non-OMA DM potocols (
    - ZigBee,
    - KNX,
    - OpenWebNet,
    - Bluetooth
- Hierarchical Architecture
- Other enhancements (proxy mode security enhancements)

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5. Document Listing for GwMO v1.1

This section is normative.

Doc Ref	Permanent Document Reference	Description
Requirement Document		
[GwMO_RD_v1_1]	OMA-RD-GwMO-V1_1-20130226-C	Requirement Document for GwMO v1.1 Enabler
Architecture Document		
Technical Specifications		
Supporting Files		

Table 1: Listing of Documents in GwMO v1.1 Enabler

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6. OMNA Considerations

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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.

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8. ERDEF for GwMO v1.1 - Client Requirements

This section is normative.

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

Table 2: ERDEF for GwMO Client-side Requirements

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9. ERDEF for GwMO v1.1 - Server Requirements

This section is normative.

Item	Feature / Application	Requirement
OMA-ERDEFGwMO-S-001-<<M/O>>	GwMO Server	

Table 3: ERDEF for GwMO Server-side Requirements

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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 1.1 History

Document Identifier	Date	Sections	Description
Draft Versions OMA-ERELD-GwMO-V1_1	14 Jan 2013	All	Initial baseline for RD review.
	19 Feb 2013	5	Updated permanent document reference to reflect new version of RD
Candidate Version OMA-ERELD-GwMO-V1_1	26 Feb 2013	All	Status changed to Candidate by TP TP Ref # OMA-TP-2013-0062-INP_GwMO_V1_1_RD_for_Candidate_approval

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