



Enabler Release Definition for Gateway Management Object (GwMO)

Candidate Version 1.0 – 31 Aug 2010

Open Mobile Alliance
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1. Scope

The scope of this document is limited to the Enabler Release Definition of GwMO v1.0 according to OMA Release process and the Enabler Release specification baseline listed in section 5.

2. References

2.1 Normative References

- [GwMOAD] “OMA DM Gateway Management Object Architecture, Version 1.0”, Open Mobile Alliance™, OMA-AD-GwMO-V1_0, [URL:http://www.openmobilealliance.org/](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/](http://www.openmobilealliance.org/)
- [GwMOTS] “OMA DM Gateway Management Object Technical Specification, Version 1.0”, Open Mobile Alliance™, OMA-TS-GwMO-V1_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”, "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
ERELED	Enabler Release Definition
OMA	Open Mobile Alliance
OMNA	Open Mobile Naming Authority

4. Release Version Overview

The GwMO enabler allows an OMA-DM Server to manage devices that are not directly accessible to it e.g. 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 (e.g. 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 fan-out 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

5. Document Listing for GwMO

This section is normative.

Doc Ref	Permanent Document Reference	Description
Requirement Document		
[GwMORD]	OMA-RD-GwMO-V1_0-20100831-C	Requirement Document for GwMO Enabler
Architecture Document		
Technical Specifications		
Supporting Files		

Table 1: Listing of Documents in GwMO 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 GwMO - Client Requirements

This section is normative.

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

Table 2: ERDEF for GwMO Client-side Requirements

9. ERDEF for GwMO - Server Requirements

This section is normative.

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

Table 3: ERDEF for GwMO 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-GwMO-V1_0	13 Jul 2010	N/A	Baseline as per OMA-DM-GwMO-2010-0022R01-INP_ERELED_Baseline
	21 Jul 2010	All	Editorial fixes and clean up
Candidate Version OMA-GwMO-V1_0	31 Aug 2010	N/A	Status changed to Candidate by TP TP ref # OMA-TP-2010-0380- INP_GwMO_V1_0_RD_for_Candidate_approval