Enabler Release Definition for Management Policy MO (MgmtPolicyMO)

Approved Version 1.0 – 28 Mar 2017

Open Mobile Alliance
OMA-ERELD-MgmtPolicyMO-V1_0-20170328-A

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1. Scope

The scope of this document is limited to the Enabler Release Definition of Management Policy Management Object (MgmtPolicyMO v1.0) according to OMA Release process and the Enabler Release specification baseline listed in section 5.

2. References

2.1 Normative References

[MgmtPolicyMORD]	"OMA DM Management Policy Management Object Requirements, Version 1.0 ", Open Mobile Alliance™, OMA-RD-MgmtPolicyMO-V1_0, URL: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
[SCRRULES]	"SCR Rules and Procedures", Open Mobile Alliance™, OMA-ORG-SCR_Rules_and_Procedures, URL:http://www.openmobilealliance.org/

2.2 Informative References

[DMDICT]	"OMA Device Management Dictionary, Version 1.0". Open Mobile Alliance™. OMA-SUP-DM_Dictionary-v1_0. URL:http://www.openmobilealliance.org/
[OMADICT]	"Dictionary for OMA Specifications", Version 2.9, Open Mobile Alliance™, OMA-ORG-Dictionary-V2_9, URL: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
ERELD	Enabler Release Definition
OMA	Open Mobile Alliance
OMNA	Open Mobile Naming Authority

4. Release Version Overview

To perform management operations, the DM Server can send the DM commands to the DM Client, and receive the corresponding results from the DM Client. This Request-Response model is the basic characteristics of the DM protocol.

MgmtPolicyMO v1.0 enables a more proactive management approach where the devices are able to perform actions autonomously based on management policies. These policies are pre-defined by the Management Authority and downloaded into the devices via the interface provided by the MgmtPolicyMO. Afterwards the devices will continuously evaluate/monitor the policies and perform necessary actions. If the policy conditions are met, one or more management actions will be triggered. Possible management actions include, but are not limited to: software management, firmware update, parameter configuration update and initiating a diagnostic and troubleshooting procedure.

After execution, DMS will be notified by the DM Client about the policy management results.

4.1 Version 1.0 Functionality

MgmtPolicyMO V1.0 covers:

- Download, update, activation, deactivation and removal of management policy(ies) in the device

- Capability to configure specific management policies, composed of conditions and actions, based on MO objects

- Reporting the results of management policy actions to DMS

5. Document Listing for MgmtPolicyMO V1.0

This section is normative.

Doc Ref	Permanent Document Reference	Description
Requirement Document		
[MgmtPolicyMO_RD_v1_0]	OMA-RD-MgmtPolicyMO-V1_0-20170328-A	Requirement Document for MgmtPolicyMO v1.0 Enabler
Architecture Document		
[MgmtPolicyMO_AD_v1_0]	OMA-AD-MgmtPolicyMO-V1_0-20170328-A	Architecture Document for MgmtPolicyMO v1.0 Enabler
Technical Specification		
[MgmtPolicyMO_TS_v1_0]	OMA-TS-MgmtPolicyMO-V1_0-20170328-A	Technical Specification for MgmtPolicyMO v1.0 Enabler

Table 1: Listing of Documents in MgmtPolicyMO V1.0 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-mgmtpolicymo:1.0	Management Policy MO (MgmtPolicyMO)	DM WG	1.0		OMA-TS-MgmtPolicyMO-V1_0

Table 2: OMNA MO Registry

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-mgmtpolicymo:1.0	policyreport	The alert message conveys the results of the execution of the policy actions	DM WG	1.0	OMA-TS-MgmtPolicyMO-V1_0	urn:oma:mo:oma-mgmtpolicymo:1.0

Table 3: OMNA Alert Type Registry

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 MgmtPolicyMO V1.0 - Client Requirements

This section is normative.

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

Table 4: ERDEF for MgmtPolicyMO Client-side Requirements

9. ERDEF for MgmtPolicyMO V1.0 - Server Requirements

This section is normative.

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

Table 5: ERDEF for MgmtPolicyMO Server-side Requirements

Appendix A.   Change History   (Informative)

A.1   Approved Version History

Reference	Date	Description
OMA-ERELD-MgmtPolicyMO-V1_0-20170328-A	28 Mar 2017	Status changed to Approved by TP TP Ref # OMA-TP-2017-0022-INP_MgmtPolicyMO-V1_0_ERP_for_Final_Approval