

Enabler Release Definition for Lock and Wipe Management Object

Candidate Version 1.0 – 17 Mar 2009

Open Mobile Alliance OMA-ERELD-LAWMO-V1_0-20090317-C

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1. Scope

The scope of this document is limited to the Enabler Release Definition of LAWMO 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

[SCRRULES] "SCR Rules and Procedures", Open Mobile AllianceTM, OMA-ORG-SCR_Rules_and_Procedures,

URL: http://www.openmobilealliance.org/

2.2 Informative References

[OMADICT] "Dictionary for OMA Specifications", Version 2.7, Open Mobile AllianceTM,

OMA-ORG-Dictionary-V2_7,

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.

Device see [OMADICT]

Factory Reset The act to reset the device to its initial factory state.

Fully Lock Device To render the device fully inoperable from unauthorised usage except for functions mandated by law (e.g.

emergency calls) and participating LAWMO sessions as well as other data sessions that aid in the

recovery of the device.

LAWMO Operations Lock Device, Unlock Device, Wipe Device's Data and Factory Reset operations which may be invoked on

a Lock and Wipe MO.

Lock Device To render the device fully or partially inoperable from unauthorised usage according to which lock level is

chosen.

Two lock levels are defined: Partially Lock Device and Fully Lock Device.

Partially Lock Device To render the device inoperable from unauthorised usage except for receiving incoming calls, functions

mandated by law (e.g. emergency calls), and participating in LAWMO sessions as well as other data

sessions that aid in the recovery of the device.

Unlock Device To re-enable all Device functionalities previously locked by Lock Device operation.

Wipe Device's Data

The act to permanently erase personal and/or enterprise-related data from the device.

3.3 Abbreviations

DM Device Management

ERELD

ERDEF Enabler Requirement Definition

LAWMO Lock and Wipe Management Object

Enabler Release Definition

OMA Open Mobile Alliance

4. Release Version Overview

The mobile device is becoming a pocketable private information database which contains various user data and enterprise-related data. There are several scenarios user may need to remotely lock and/or wipe the device as follows:

- If the device was lost or stolen, there is a risk of data being compromised either maliciously or by accident. User may request to lock the device and wipe all the data from the device. If the device is returned, the user can also request to unlock the device.
- If the device was hand over or sold to other users, the owner may request to clean all user and enterprise-related data in the device or reset it to factory state.

There are more use cases and scenarios that may require LAWMO Operations, such as Lock/Unlock Device, Wipe Device's Data and Factory Reset.

This specification collects the use cases and corresponding requirements to develop a standardized approach to fulfil the above market needs.

4.1 Version 1.0 Functionality

The LAWMO Enabler V1.0 introduced following functionalities:

- Support a mechanism to Fullly Lock the Device
- Support a mechanism to Partially Lock the Device
- Support a mechanism to Unlock the Device
- Support a mechanism to Wipe data from the Device
- Support a mechanism to Factory Reset the Device
- Support a mechanism to specify whether the user is to be informed of LAWMO operations performed in the Device
- Support a mechanism to notify the result of LAWMO Operations except Factory Reset to DM Server.

5. Document Listing for LAWMO

This section is normative.

Doc Ref	Permanent Document Reference	Description				
Requirement Document						
[LAWMO_RD]	OMA-RD-LAWMO-V1_0-20080610-C	Requirement Document for LAWMO Enabler				
Architecture Docu	ument					
[LAWMO_AD]	Architecture Document for LAWMO Enabler					
Technical Specific	Technical Specifications					
[LAWMO_TS]	OMA-TS-LAWMO-V1_0-20090317-C	Technical Specification for LAWMO Enabler				
Supporting Files						
[LAWMO_DDF]	OMA-SUP-MO_LAWMO-V1_0-20090127-C	DDF parameters for the LAWMO Enabler				
		Working file in DDF directory: file: mo_lawmo-v1_0.ddf path: http://www.openmobilealliance.org/tech/ddf/				

Table 1: Listing of Documents in LAWMO Enabler

6. OMNA Considerations

The OMNA portal needs to add and maintain the following MO into MO registry:

1	MO Identifier	 0	10101011	MO DDF	MO Spec
	llrn.oma.mo.oma-	DM WG			OMA-TS-LAWMO-V1_0-20090225-D

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:lawmo:1.0	OperationComplete	Used to claim that the alert message conveys the result of LAWMO operation	DM WG		OMA-TS-LAWMO-V1_0- 20090225-D	urn:oma:mo:oma- lawmo:1.0	1 1 1 1

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 LAWMO - Client Requirements

This section is normative.

Item	Feature / Application	Requirement
OMA-ERDEF-LAWMO-C-001-< <m o="">></m>	LAWMO Client	

Table 2: ERDEF for LAWMO Client-side Requirements

9. ERDEF for LAWMO - Server Requirements

This section is normative.

Item	Feature / Application	Requirement
OMA-ERDEF-LAWMO-S-001-< <m o="">></m>	LAWMO Server	

Table 3: ERDEF for LAWMO 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	09 Apr 2008	All	Initial baseline draft
OMA-LAWMO-V1_0	25 Nov 2008	5	Document list updated
	11 Jan 2008	All	Editorial clean up prior to Candidate Approval
			Incorporated agreed CRs:
			OMA-DM-LAWMO-2008-0027
			OMA-DM-LAWMO-2008-0028R02
Candidate Versions	27 Jan 2009	n/a	Status changed to Candidate by TP
OMA-LAWMO-V1_0			TP ref# OMA-TP-2009-0010-
			INP_LAWMO_V1_0_ERP_for_Candidate_Approval
Draft Versions	25 Feb 2009	5	Document list updated
OMA-LAWMO-V1_0		6	Updated with agreed CR:
			OMA-DM-LAWMO-2009-0002
	09 Mar 2009	5	Document list updated
	11 Mar 2009	5	Document list updated
Candidate Versions	17 Mar 2009	n/a	Status changed by TP
OMA-LAWMO-V1_0			TP ref# OMA-TP-2009-0118-
			INP_LAWMO_V1_0_ERP_for_notification