



# Reference Release Definition for LWM2M\_SWMGMT

Approved Version 1.0 – 01 Mar 2018

---

**Open Mobile Alliance**

OMA-RRELD-LWM2M\_SWMGMT-V1\_0-20180301-A

Use of this document is subject to all of the terms and conditions of the Use Agreement located at <http://www.openmobilealliance.org/UseAgreement.html>.

Unless this document is clearly designated as an approved specification, this document is a work in process, is not an approved Open Mobile Alliance™ specification, and is subject to revision or removal without notice.

You may use this document or any part of the document for internal or educational purposes only, provided you do not modify, edit or take out of context the information in this document in any manner. Information contained in this document may be used, at your sole risk, for any purposes. You may not use this document in any other manner without the prior written permission of the Open Mobile Alliance. The Open Mobile Alliance authorizes you to copy this document, provided that you retain all copyright and other proprietary notices contained in the original materials on any copies of the materials and that you comply strictly with these terms. This copyright permission does not constitute an endorsement of the products or services. The Open Mobile Alliance assumes no responsibility for errors or omissions in this document.

Each Open Mobile Alliance member has agreed to use reasonable endeavors to inform the Open Mobile Alliance in a timely manner of Essential IPR as it becomes aware that the Essential IPR is related to the prepared or published specification. However, the members do not have an obligation to conduct IPR searches. The declared Essential IPR is publicly available to members and non-members of the Open Mobile Alliance and may be found on the “OMA IPR Declarations” list at <http://www.openmobilealliance.org/ipr.html>. The Open Mobile Alliance has not conducted an independent IPR review of this document and the information contained herein, and makes no representations or warranties regarding third party IPR, including without limitation patents, copyrights or trade secret rights. This document may contain inventions for which you must obtain licenses from third parties before making, using or selling the inventions. Defined terms above are set forth in the schedule to the Open Mobile Alliance Application Form.

NO REPRESENTATIONS OR WARRANTIES (WHETHER EXPRESS OR IMPLIED) ARE MADE BY THE OPEN MOBILE ALLIANCE OR ANY OPEN MOBILE ALLIANCE MEMBER OR ITS AFFILIATES REGARDING ANY OF THE IPR'S REPRESENTED ON THE “OMA IPR DECLARATIONS” LIST, INCLUDING, BUT NOT LIMITED TO THE ACCURACY, COMPLETENESS, VALIDITY OR RELEVANCE OF THE INFORMATION OR WHETHER OR NOT SUCH RIGHTS ARE ESSENTIAL OR NON-ESSENTIAL.

THE OPEN MOBILE ALLIANCE IS NOT LIABLE FOR AND HEREBY DISCLAIMS ANY DIRECT, INDIRECT, PUNITIVE, SPECIAL, INCIDENTAL, CONSEQUENTIAL, OR EXEMPLARY DAMAGES ARISING OUT OF OR IN CONNECTION WITH THE USE OF DOCUMENTS AND THE INFORMATION CONTAINED IN THE DOCUMENTS.

© 2018 Open Mobile Alliance All Rights Reserved.

Used with the permission of the Open Mobile Alliance under the terms set forth above.

# Contents

- 1. SCOPE.....4
- 2. REFERENCES .....5
  - 2.1 NORMATIVE REFERENCES.....5
  - 2.2 INFORMATIVE REFERENCES.....5
- 3. TERMINOLOGY AND CONVENTIONS .....6
  - 3.1 CONVENTIONS .....6
  - 3.2 DEFINITIONS.....6
  - 3.3 ABBREVIATIONS .....6
- 4. RELEASE VERSION OVERVIEW .....7
  - 4.1 VERSION 1.0 FUNCTIONALITY .....7
- 5. DOCUMENT LISTING FOR LWM2M SWMGMT 1.0 .....8
- 6. OMNA CONSIDERATIONS .....9
- 7. API CONSIDERATIONS .....10
- APPENDIX A. CHANGE HISTORY (INFORMATIVE).....11
  - A.1 APPROVED VERSION HISTORY .....11

# Figures

No table of figures entries found.

# Tables

- Table 1: Listing of Documents in LWM2M SWMGMT 1.0 .....8

# 1. Scope

The scope of this document is limited to the Reference Release Definition of LWM2M\_SWMGMT 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](http://www.ietf.org/rfc/rfc2119.txt)
- [SWMGMT\_TS] “Lightweight M2M – Software management Object”, Version 1.0, Open Mobile Alliance, OMA-TS-LWM2M\_SwMgmt-V1\_0, [URL:http://www.openmobilealliance.org/](http://www.openmobilealliance.org/)

### 2.2 Informative References

- [OMADICT] “Dictionary for OMA Specifications”, Version 2.9, Open Mobile Alliance™, OMA-ORG-Dictionary-V2\_9, [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.

### 3.2 Definitions

<b>Minimum Functionality Description</b>	Description of the guaranteed features and functionality that will be enabled by implementing the minimum mandatory part of the Enabler Release.
<b>Reference Release</b>	A set of specifications and/or white papers which form a formal deliverable of OMA. The release can be referenced or otherwise used to support implementable enabler releases, but it cannot by itself be implemented in products.

### 3.3 Abbreviations

<b>LwM2M</b>	Lightweight Machine to Machine (refers to this OMA enabler)
<b>OMA</b>	Open Mobile Alliance
<b>OMNA</b>	Open Mobile Naming Authority
<b>RRELD</b>	Reference Release Definition

Kindly consult [OMADICT] for more abbreviations used in this document.

## 4. Release Version Overview

The present Reference Release enables remote software management in M2M devices.

### 4.1 Version 1.0 Functionality

V1.0 of the specification covers:

- 1) Software download
- 2) Software installation
- 3) Software deinstallaton
- 4) Software activation
- 5) Softare deactivation
- 6) Update state and result reporting

## 5. Document Listing for LWM2M SWMGMT 1.0

This section is normative.

Doc Ref	Permanent Document Reference	Description
<b>Technical Specification</b>		
[SWMGMT_TS]	OMA-TS-LWM2M_SwMgmt-V1_0-20180301-A	Technical Sepcification for LWM2W SWMGMT
<b>Supporting Files</b>		
[LWM2M_Software_Component_XML]	OMA-SUP-XML_LWM2M_Software_Component-V1_0-20180301-A	XML document for LightweightM2M object software management Software Component Working file in LWM2M_XML directory: File: LWM2M_Software_Component-v1_0.xml Path: <a href="http://www.openmobilealliance.org/tech/profiles">http://www.openmobilealliance.org/tech/profiles</a>
[LWM2M_Software_Management_XML]	OMA-SUP-XML_LWM2M_Software_Management-V1_0-20180301-A	XML document for LightweightM2M object software management Software Management Working file in LWM2M_XML directory: File: LWM2M_Software_Management-v1_0.xml Path: <a href="http://www.openmobilealliance.org/tech/profiles">http://www.openmobilealliance.org/tech/profiles</a>

**Table 1: Listing of Documents in LWM2M SWMGMT 1.0**



## 6. OMNA Considerations

The present Reference Release consists of a new LwM2M Object. This LwM2M Object will be registered with the OMNA LwM2M Object registry.

## 7. API Considerations

Not Applicable.

## Appendix A. Change History (Informative)

### A.1 Approved Version History

Reference	Date	Description
OMA-RRELD-LWM2M_SWMGMT-V1_0-20180301-A	01 Mar 2018	Status changed to Approved by BoD Doc Ref # OMA-DM-2018-0014- INP_LwM2M_Object_Software_Management_V1_0_RRP_Final_Approval