



Reference Release Definition for LWM2M_DevCapMgmt

Approved Version 1.0.3 – 16 Jun 2020

Open Mobile Alliance
OMA-RRELD-LWM2M_DevCapMgmt-V1_0_3-20200616-A

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1. Scope

The scope of this document is limited to the Reference Release Definition of LWM2M_DEVCAPMGMT according to OMA Release process and the Enabler Release specification baseline listed in section 5.

2. References

2.1 Normative References

- [DEVCAPMGMT_TS] “Lightweight M2M – Device Capability management Object”, Version 1.0, Open Mobile Alliance, OMA-TS-LWM2M DevCapMgmt-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)

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

Minimum Functionality Description	Description of the guaranteed features and functionality that will be enabled by implementing the minimum mandatory part of the Enabler Release.
Reference Release	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

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

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

4. Release Version Overview

The present Reference Release enables remote device capability management in M2M devices.

4.1 Version 1.0 Functionality

V1.0 of the specification covers:

- 1) Device Capability Enablement
- 2) Device Capability Disablement
- 3) Device attachment of removable hardware
- 4) Device detachment of removable hardware
- 5) Conditional notification when Device Capability State is modified

4.1.1 Version 1.0.1 Functionality

4.1.2 Version 1.0.2 Functionality

4.1.3 Version 1.0.3 Functionality

5. Document Listing for LWM2M_DevCapMgmt

This section is normative.

Doc Ref	Permanent Document Reference	Description
Technical Specification		
[DEVCAPMGMT_TS]	OMA-TS-LWM2M_DevCapMgmt-V1_0_3-20200616-A	Technical Sepcification for LWM2M_DevCapMgmt
Supporting Files		
[LWM2M_DevCapMgmt_XML]	OMA-SUP-XML_LWM2M_DevCapMgmt-V1_0_1-20200616-A	XML document for LightweightM2M Device Capability Management Object Working file in LWM2M_XML directory: File: LWM2M_DevCapMgmt-v1_0_1.xml Path: http://www.openmobilealliance.org/tech/profiles

Table 1: Listing of Documents in LWM2M_DevCapMgmt

6. OMNA Considerations

The present Reference Release consists in 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_DevCapMgmt-V1_0-20150512-A	12 May 2015	Status changed to Approved by TP TP Ref # OMA-TP-2015-0080- INP_LWM2M_DevCapMgmt_V1_0_RRP_for_final_Approval
OMA-RRELD-LWM2M_DevCapMgmt-V1_0_1-20151123-A	23 Nov 2015	Status changed to Approved by TP TP Ref # OMA-TP-2015-0202- INP_LWM2M_DevCapMgmt_V1_0_1_RRP_for_Notification
OMA-RRELD-LWM2M_DevCapMgmt-V1_0_2-20170308-A	08 Mar 2017	Status changed to Approved by TP TP Ref # OMA-TP-2017-0021R01- INP_LWM2M_DevCapMgmt_1.0.2_for_Final_Approval_Notification
OMA-RRELD-LWM2M_DevCapMgmt-V1_0_3-20200616-A	16 Jun 2020	Status changed to Approved by DMSE WG DMSE WG Ref # OMA-DM&SE-2020-0018- INP_LWM2M_DevCapMgmt_V1_0_3_RRP_for_Final_Approval