



# Reference Release Definition for LWM2M\_DevCapMgmt

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Open Mobile Alliance

OMA-RRELD-LWM2M\_DevCapMgmt-V1\_0\_4-20201208-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: <a href="http://www.openmobilealliance.org/">http://www.openmobilealliance.org/</a>
[RFC2119]	"Key words for use in RFCs to Indicate Requirement Levels", S. Bradner, March 1997, URL: <a href="http://www.ietf.org/rfc/rfc2119.txt">http://www.ietf.org/rfc/rfc2119.txt</a>

Table: 2.1.-1 Normative References

### 2.2. Informative References

[OMADICT]	"Dictionary for OMA Specifications", Version 2.9, Open Mobile Alliance™, OMA-ORG-Dictionary-V2_9, URL: <a href="http://www.openmobilealliance.org/">http://www.openmobilealliance.org/</a>
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Table: 2.2.-1 Informative References

## 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.

Table: 3.2.-1 Definitions

### 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

Table: 3.3.-1 Abbreviations

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

#### 4.1.4. Version 1.0.4 Functionality

## 5. Document Listing for LWM2M\_DevCapMgmt

This section is normative.

Doc Ref	Permanent Document Reference	Description
[DEVCAPMGMT_TS]	OMA-TS-LWM2M_DevCapMgmt-V1_0_4-20201208-A	Technical Specification for LWM2M_DevCapMgmt
[LWM2M_DevCapMgmt_XML]	OMA-SUP-XML_15-V2_0-20201208-A	XML document for LightweightM2M Device Capability Management Object OMNA LwM2M Registry: File: 15.xml Path: <a href="https://github.com/OpenMobileAlliance/lwm2m-registry">https://github.com/OpenMobileAlliance/lwm2m-registry</a>

Table: 5.-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
OMA-RRELD-LWM2M_DevCapMgmt-V1_0_4-20201208-A	08 Dec 2020	Status changed to Approved by DMSE WG DMSE WG Ref # 08 Dec 2020 Conference Call

Table: A.1-1 Approved Version History