



# Reference Release Definition for LWM2M\_DevCapMgmt

Approved Version: 2.0.1 - 2024-03-12

Open Mobile Alliance

OMA-RRELD-LWM2M\_DevCapMgmt-V2\_0\_1-20240312-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 2.0.1, Open Mobile Alliance, OMA-TS-LWM2M DevCapMgmt-V2_0_1, URL: <a href="http://www.openmobilealliance.org/">http://www.openmobilealliance.org/</a>
[BCP 14]	"Key words for use in RFCs to Indicate Requirement Levels", B. Leiba, May 2017, URL: <a href="https://www.rfc-editor.org/info/bcp14">https://www.rfc-editor.org/info/bcp14</a>
[RFC2119]	"Key words for use in RFCs to Indicate Requirement Levels", S. Bradner, March 1997, URL: <a href="https://www.rfc-editor.org/rfc/rfc2119.txt">https://www.rfc-editor.org/rfc/rfc2119.txt</a>
[RFC8174]	"Ambiguity of Uppercase vs Lowercase in RFC 2119 Key Words", B. Leiba, May 2017, URL: <a href="https://www.rfc-editor.org/rfc/rfc8174.txt">https://www.rfc-editor.org/rfc/rfc8174.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", "NOT RECOMMENDED", "MAY", and "OPTIONAL" in this document are to be interpreted as described in BCP 14 [RFC2119] [RFC8174] when, and only when, they appear in all capitals, as shown here.

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

#### 4.1.5. Version 2.0.1 Functionality



## 5. Document Listing for LWM2M\_DevCapMgmt

This section is normative.

Doc Ref	Permanent Document Reference	Description
[DEVCAPMGMT_TS]	OMA-TS-LWM2M_DevCapMgmt-V2_0_1-20240312-A	Technical Specification for LWM2M_DevCapMgmt
[LWM2M_DevCapMgmt_XML]	OMA-SUP-XML_15-V2_0_1-20240312-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
OMA-RRELD-LWM2M_DevCapMgmt-V2_0_1-20240312-A	12 Mar 2024	Status changed to Approved by DMSE WG on March 12th.

Table: A.1-1 Approved Version History