



TECHNICAL SPECIFICATION

**oneM2M;
Functional Architecture
(oneM2M TS-0001 version 1.13.1 Release 1)**

*iTeh STANDARDS PREVIEW
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ReferenceRTS/oneM2M-000001v110

Keywordsarchitecture, IoT, M2M

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Siret N° 348 623 562 00017 - NAF 742 C
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Foreword

This Technical Specification (TS) has been produced by ETSI Partnership Project oneM2M (oneM2M).

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1 Scope

The present document describes the end-to-end oneM2M functional architecture, including the description of the functional entities and associated reference points.

oneM2M functional architecture focuses on the Service Layer aspects and takes Underlying Network-independent view of the end-to-end services. The Underlying Network is used for the transport of data and potentially for other services.

2 References

2.1 Normative references

References are either specific (identified by date of publication and/or edition number or version number) or non-specific. For specific references, only the cited version applies. For non-specific references, the latest version of the referenced document (including any amendments) applies.

The following referenced documents are necessary for the application of the present document.

- [1] ETSI TS 118 111: "oneM2M; Common Terminology (oneM2M TS-0011)".
- [2] ETSI TS 118 104: "oneM2M; Service Layer Core Protocol Specification (oneM2M TS-0004)".
- [3] ETSI TS 118 103: "oneM2M; Security solutions (oneM2M TS-0003)".

2.2 Informative references

References are either specific (identified by date of publication and/or edition number or version number) or non-specific. For specific references, only the cited version applies. For non-specific references, the latest version of the referenced document (including any amendments) applies.

The following referenced documents are not necessary for the application of the present document but they assist the user with regard to a particular subject area.

- [i.1] ETSI TS 118 102: "oneM2M Requirements".
- [i.2] Broadband Forum TR-069: "CPE WAN Management Protocol Issue": 1 Amendment 5, November 2013.
- [i.3] OMA-DM: "OMA Device Management Protocol", Version 1.3, Open Mobile Alliance.
- [i.4] LWM2M: "OMA LightweightM2M", Version 1.0, Open Mobile Alliance.
- [i.5] OMA-TS-MLP-V3-4-20130226-C: "Mobile Location Protocol", Version 3.4.
- [i.6] OMA-TS-REST-NetAPI-TerminalLocation-V1-0-20130924-A: "RESTful Network API for Terminal Location", Version 1.0.
- [i.7] IETF RFC 1035: "Domain names - Implementation and specification".
- [i.8] IETF RFC 3588: "Diameter Base Protocol".
- [i.9] IETF RFC 3596: "DNS Extensions to Support IP Version 6".
- [i.10] IETF RFC 3986: "Uniform Resource Identifier (URI): General Syntax".
- [i.11] IETF RFC 4006: "Diameter Credit-Control Application".
- [i.12] IETF RFC 6895: "Domain Name System (DNS) IANA Considerations".
- [i.13] GSMA-IR.67: "DNS/ENU Guidelines for Service Providers & GRX/IPX Providers".