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Architecture Part 2:
Study for the merging of architectures proposed for consideration by oneM2M

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Contents

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Foreword

This Technical Report (TR) has been produced by ETSI Partnership Project oneM2M (oneM2M).

1 Scope

The present document provides an evaluation of existing M2M-related Architecture work undertaken by the founding partners of oneM2M, including: the Association of Radio Industries and Businesses (ARIB) and the Telecommunication Technology Committee (TTC) of Japan; the Alliance for Telecommunications Industry Solutions (ATIS) and the Telecommunications Industry Association (TIA) of the USA; the China Communications Standards Association (CCSA); the European Telecommunications Standards Institute (ETSI); and the Telecommunications Technology Association (TTA) of Korea. Common Functional Entities and Reference Points are identified, as well as critical differences. New functionality will not be considered as part of this study.

The present document is intended to ensure a common understanding of existing M2M Architectural approaches, in order to facilitate future normative work resulting in oneM2M Technical Specifications.

The present document has been prepared under the auspices of the oneM2M Technical Plenary, by the oneM2M Architecture Working Group.

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 reference document (including any amendments) applies.

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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] oneM2M Drafting Rules.

[i.2] ATIS Machine to Machine (M2M) Committee.

[i.3] ETSI Machine to Machine (M2M) Committee.

[i.4] IETF draft-ietf-core-coap: "Constrained Application Protocol (CoAP)".

[i.5] OMA Lightweight M2M.

[i.6] OMA-DM (OMA): "OMA Device Management".

[i.7] Fielding, R.T., (2000), Dissertation: "Architectural Styles and the Design of Network-based Software Architectures, Chapter 5 - Representational State Transfer (REST)". University of California Irvine.

[i.8] TIA TR-50 - M2M: "Smart Device Communications".