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Contents

Foreword	Intelle	ellectual Property Rights			
2 References 2.1 Normative references 2.2 Informative references 3 Definition of terms, symbols and abbreviations 3.1 Terms 3.2 Symbols 3.3 Abbreviations 4 Conventions 5 Introduction to the M2M ecosystem 5.1 Functional requirements 6.1 Overall System Requirements 6.2 Management Requirements 6.3 Semantics Requirements 6.3.1 Ontology Related Requirements 6.3.2 Semantics Annotation Requirements 6.3.3 Semantics Mashup Requirements 6.3.4 Semantics Reasoning Requirements 6.3.5 Semantics Reasoning Requirements 6.3.6 Data Analytics Requirements 6.6 Operational Requirements	Forev	word	4		
2.1 Normative references 2.2 Informative references 3 Definition of terms, symbols and abbreviations 3.1 Terms 3.2 Symbols 3.3 Abbreviations 4 Conventions 5 Introduction to the M2M ecosystem 5.1 Functional roles description 6 Functional Requirements 6.1 Overall System Requirements 6.2 Management Requirements 6.3 Semantics Requirements 6.3.1 Ontology Related Requirements 6.3.2 Semantics Annotation Requirements 6.3.3 Semantics Query Requirements 6.3.4 Semantics Requirements 6.3.5 Semantics Requirements 6.3.6 Data Analytics Requirements 6.5 Charging Requirements 6.6 Operational Requirements 6.7 Communication Management Requirements 6.8 LWM2M Interworking Requirements 6.7 Non-Functional Requirements (informative) 20 Annex A (informative): Requirements for the next release	1	Scope	5		
3 Definition of terms, symbols and abbreviations. 3.1 Terms. 3.2 Symbols. 3.3 Abbreviations. 4 Conventions. 5 Introduction to the M2M ecosystem. 5.1 Functional roles description. 6 Functional Requirements. 6.1 Overall System Requirements. 6.2 Management Requirements. 6.3 Semantics Requirements. 6.3.1 Ontology Related Requirements. 6.3.2 Semantics Annotation Requirements. 6.3.3 Semantics Query Requirements. 6.4 Security Requirements. 6.5 Semantics Reasoning Requirements. 6.6 Data Analytics Requirements. 6.6 Operational Requirements. 6.7 Charging Requirements. 6.8 Charging Requirements. 6.9 Charging Requirements. 6.1 Onnonication Management Requirements. 6.2 Charging Requirements. 6.3 Communication Management Requirements. 6.4 Security Requirements. 6.5 Charging Requirements. 6.6 Operational Requirements. 6.7 Communication Management Requirements. 6.8 LWM2M Interworking Requirements. 6.9 Non-Functional Requirements (informative). 6.1 Onnonication Management Requirements. 6.2 Charging Requirements. 6.3 Communication Management Requirements. 6.4 Security Requirements. 6.5 Charging Requirements. 6.6 Operational Requirements. 6.7 Communication Management Requirements. 6.8 LWM2M Interworking Requirements. 6.9 Communication Management Requirements. 6.1 Charging Requirements. 6.2 Charging Requirements. 6.3 Communication Management Requirements. 6.4 Security Requirements. 6.5 Charging Requirements. 6.6 Operational Requirements. 6.7 Communication Management Requirements. 6.8 LWM2M Interworking Requirements. 6.9 Charging Requirements. 6.1 Charging Requirements. 6.2 Charging Requirements. 6.3 Charging Requirements. 6.4 Charging Requirements. 6.5 Charging Requirements. 6.6 Charging Requirements. 6.7 Communication Management Requirements. 6.8 LWM2M Interworking Requirements. 6.9 Charging Requirements. 6.1 Charging Requirements. 6.2 Charging Requirements. 6.3 Charging Requirements. 6.4 Charging Requirements. 6.5 Charging Requirements. 6.6 Charging Requirements. 6.7 Charging Requirements. 6.8 LWM2M Interworking Requirements. 6	_				
3.1 Terms. 3.2 Symbols. 3.3 Abbreviations. 4 Conventions. 5 Introduction to the M2M ecosystem. 5.1 Functional roles description. 6 Functional Requirements. 6.1 Overall System Requirements. 6.2 Management Requirements. 6.3 Semantics Requirements 6.3.1 Ontology Related Requirements 6.3.2 Semantics Annotation Requirements 6.3.3 Semantics Query Requirements 6.3.4 Semantics Mashup Requirements 6.3.5 Semantics Requirements 6.3.6 Data Analytics Requirements 6.4 Security Requirements 6.4 Security Requirements 6.6 Operational Requirements 6.7 Communication Management Requirements 6.8 LWM2M Interworking Requirements 7 Non-Functional Requirements (informative) 20 Annex A (informative): Requirements for the next release	2.2	Informative references	5		
3.2 Symbols 3.3 Abbreviations 4 Conventions 5 Introduction to the M2M ecosystem 5.1 Functional roles description 6 Functional Requirements 6.1 Overall System Requirements 6.2 Management Requirements 6.3 Semantics Requirements 6.3.1 Ontology Related Requirements 6.3.2 Semantics Annotation Requirements 6.3.3 Semantics Query Requirements 6.3.4 Semantics Mashup Requirements 6.3.5 Semantics Reasoning Requirements 6.3.6 Data Analytics Requirements 6.4 Security Requirements 6.5 Charging Requirements 6.6 Operational Requirements 6.7 Communication Management Requirements 6.8 LWM2M Interworking Requirements 7 Non-Functional Requirements (informative) 20 Annex A (informative): Requirements for the next release		taran da antara da a			
3.3 Abbreviations					
5 Introduction to the M2M ecosystem. 5.1 Functional roles description. 6 Functional Requirements. 6.1 Overall System Requirements. 6.2 Management Requirements. 6.3 Semantics Requirements. 6.3.1 Ontology Related Requirements. 6.3.2 Semantics Annotation Requirements. 6.3.3 Semantics Query Requirements. 6.3.4 Semantics Mashup Requirements. 6.3.5 Semantics Reasoning Requirements. 6.3.6 Data Analytics Requirements. 6.3.6 Data Analytics Requirements. 6.3.6 Operational Requirements. 6.7 Charging Requirements. 6.8 LWM2M Interworking Requirements. 6.9 Charging Requirements. 6.9 Charging Requirements. 6.10 Operational Requirements. 6.11 Operational Requirements. 6.12 Charging Requirements. 6.13 Charging Requirements. 6.14 Security Requirements. 6.5 Charging Requirements. 6.6 Operational Requirements. 6.7 Communication Management Requirements. 6.8 LWM2M Interworking Requirements. 6.9 Non-Functional Requirements (informative). 7 Non-Functional Requirements (informative). 8 Requirements for the next release. 9 20 Annex A (informative): Requirements for the next release.		·			
5.1 Functional roles description 6 Functional Requirements 6.1 Overall System Requirements 6.2 Management Requirements 6.3 Semantics Requirements 6.3.1 Ontology Related Requirements 6.3.2 Semantics Annotation Requirements 6.3.3 Semantics Query Requirements 6.3.4 Semantics Mashup Requirements 6.3.5 Semantics Reasoning Requirements 6.3.6 Data Analytics Requirements 6.4 Security Requirements 6.5 Charging Requirements 6.6 Operational Requirements 6.7 Communication Management Requirements 6.8 LWM2M Interworking Requirements 7 Non-Functional Requirements (informative) Requirements for the next release 22 Annex A (informative): Requirements for the next release	4	Conventions	6		
6 Functional Requirements	5	Introduction to the M2M ecosystem.	7		
6.1 Overall System Requirements	5.1	· · · · · · · · · · · · · · · · · · ·			
6.2 Management Requirements	6				
6.3.1 Ontology Related Requirements		Overall System Requirements	8		
6.3.1 Ontology Related Requirements		Management Requirements	15		
6.8 LWM2M Interworking Requirements 20 7 Non-Functional Requirements (informative) 20 Annex A (informative): Requirements for the next release 27		Semantics Requirements	16		
6.8 LWM2M Interworking Requirements 20 7 Non-Functional Requirements (informative) 20 Annex A (informative): Requirements for the next release 27		Ontology Related Requirements	16		
6.8 LWM2M Interworking Requirements 20 7 Non-Functional Requirements (informative) 20 Annex A (informative): Requirements for the next release 27		Semantics Annotation Requirements	17		
6.8 LWM2M Interworking Requirements 20 7 Non-Functional Requirements (informative) 20 Annex A (informative): Requirements for the next release 27		Semantics Query Requirements	17		
6.8 LWM2M Interworking Requirements 20 7 Non-Functional Requirements (informative) 20 Annex A (informative): Requirements for the next release 27		Semantics Mashup Requirements	18		
6.8 LWM2M Interworking Requirements 20 7 Non-Functional Requirements (informative) 20 Annex A (informative): Requirements for the next release 27		Semantics Reasoning Requirements	18		
6.8 LWM2M Interworking Requirements 20 7 Non-Functional Requirements (informative) 20 Annex A (informative): Requirements for the next release 27		Data Analytics Requirements	18		
6.8 LWM2M Interworking Requirements 20 7 Non-Functional Requirements (informative) 20 Annex A (informative): Requirements for the next release 27		Security Requirements	19		
6.8 LWM2M Interworking Requirements 20 7 Non-Functional Requirements (informative) 20 Annex A (informative): Requirements for the next release 27	6.5	Charging Requirements	23		
6.8 LWM2M Interworking Requirements 20 7 Non-Functional Requirements (informative) 20 Annex A (informative): Requirements for the next release 27		Operational Requirements	24		
7 Non-Functional Requirements (informative)	6.7	Communication Management Requirements	24		
7 Non-Functional Requirements (informative)	6.8	LWM2M Interworking Requirements	26		
•	7				
·	Anne	ex A (informative): Requirements for the next release	27		
History	Histo	28			

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

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1 Scope

The present document contains an informative functional role model and normative technical requirements for one M2M.

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.

Referenced documents which are not found to be publicly available in the expected location might be found at https://docbox.etsi.org/Reference/.

NOTE: While any hyperlinks included in this clause were valid at the time of publication, ETSI cannot guarantee their long term validity.

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

[1] ETSI TS 122 368: "Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Service requirements for Machine-Type Communications (MTC); Stage 1 (3GPP TS 22.368)".

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.

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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.

NOTE: Available at http://www.onem2m.org/images/files/oneM2M-Drafting-Rules.pdf.

[i.2] ETSI TS 118 111: "oneM2M; Common Terminology (oneM2M TS-0011)".

[i.3] oneM2M TR-0008: "Security".

[i.4] BBF TR-069 (November 2013): "CPE WAN Management Protocol" Issue: 1 Amendment 5.

3 Definition of terms, symbols and abbreviations

3.1 Terms

For the purposes of the present document, the terms given in ETSI TS 118 111 [i.2] apply.

3.2 **Symbols**

Void.

3.3 **Abbreviations**

For the purposes of the present document, the abbreviations given in ETSI TS 118 111 [i.2] and the following apply:

AΕ **Application Entity** Application Program Interface API **BBF BroadBand Forum** Continua Health Alliance **CHA** Communication Management and Delivery Handling **CMDH CPU** Central Processing Unit **CSE** Common Services Entity DM Device Management Generic Bootstrapping Architecture **GBA** Global System for Mobile communications Association **GSMA** GW Gateway HGI Home Gateway Initiative **HSM** Hardware Security Module IΡ Internet Protocol aption Framework the Little Hands of the Littl Framework Leading Module

Lessage Service

Lusted Platform Module

Universal Integrated Circuit Card

UMTS Subscriber Identity Module

Unstructured Supplementary Service P

Wide Area Network

Wireless Local Area Network Machine Type Communications MTC **OEM** OMA **OSR OWL** QoS **RDF** SIM **SMS TPM UICC USIM**

WAN WLAN

Conventions 4

USSD

The keywords "shall", "shall not", "should", "should not", "may", "need not" in the present document are to be interpreted as described in the oneM2M Drafting Rules [i.1].

NOTE: According to one M2M Drafting Rules [i.1] in order to mandate a feature in the one M2M System but allow freedom to the individual deployment whether to use it or not subsequently requirements are often formulated like:

- "The oneM2M System shall support a mechanism [function, capability...] to ..."; or
- "...shall be able to ...".

This does not mandate usage of the required feature in a M2M Solution.

5 Introduction to the M2M ecosystem

5.1 Functional roles description

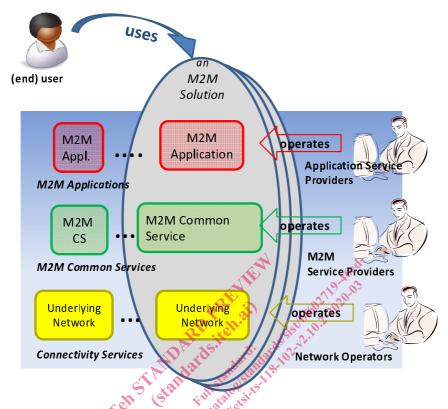


Figure 1: Functional Roles in the M2M Ecosystem

- 1) The *User* (individual or company aka: end-user) fulfils all of the following criteria:
 - Uses an M2M solution.
- 2) The Application Service Provider fulfils all of the following criteria:
 - Provides an M2M Application Service.
 - Operates M2M Applications.
- 3) The M2M Service Provider fulfils all of the following criteria:
 - Provides M2M Services to Application Service Providers.
 - Operates M2M Common Services.
- 4) The Network Operator fulfils all of the following criteria:
 - Provides *Connectivity* and related services for *M2M Service Providers*.
 - Operates an *Underlying Network*. Such an Underlying Network could e.g. be a telecom network.

Any of the above functional roles may coincide with any of the other roles. These functional roles do not imply business roles or architectural assumptions.

6 Functional Requirements

6.1 Overall System Requirements

Table 1: Overall System Requirements

Requirement ID	Description	Release
OSR-001	The oneM2M System shall allow communication between M2M Applications by using multiple communication means based on IP access.	Implemented in Rel-1
OSR-002a	The oneM2M System shall support communication means that can accommodate devices with constrained computing (e.g. small CPU, memory, battery) or communication capabilities (e.g. 2G wireless modem, certain WLAN node).	Implemented in Rel-1
OSR-002b	The oneM2M System shall support communication means that can accommodate devices with rich computing capabilities (e.g. large CPU, memory) or communication (e.g. 3/4G wireless modem, wireline).	Implemented in Rel-1
OSR-003	The oneM2M System shall support the ability to maintain application-to-	Not
See REQ-2015-	application communication in coordination with an application session for those	implemented
0626R01	M2M Applications that require it.	
OSR-004	The oneM2M System shall support session-less application communications for those M2M Applications that require it.	Implemented in Rel-1
OSR-005	The oneM2M System shall be able to expose the services offered by telecommunications networks to M2M Applications (e.g. SMS, USSD, localization, subscription configuration, authentication (e.g. Generic Bootstrapping Architecture), etc.), subject to restriction based on Network Operator's policy.	Partially implemented (see note 9)
OSR-006	The oneM2M System shall be able to reuse the services offered by Underlying Networks to M2M Applications and/or M2M Services by means of open access models (e.g. OMA, GSMA OneAPI framework). Examples of available services are: IP Multimedia communications. Messaging Location. Charging and billing services. Device information and profiles. Configuration and management of devices. Triggering, monitoring of devices. Small data transmission. Group management. (See note 1).	Partially implemented (see note 10)
OSR-007	The oneM2M System shall provide a mechanism for M2M Applications to interact with the Applications and data/information managed by a different M2M Service Provider, subject to permissions as appropriate.	Implemented in Rel-1
OSR-008	The oneM2M System shall provide the capability for M2M Applications to communicate with an M2M Device (i.e. application in the device) without the need for the M2M Applications to be aware of the network technology and the specific communication protocol of the M2M Device.	Implemented in Rel-1 (see note 11)
OSR-009	The oneM2M System shall support the ability for single or multiple M2M Applications to interact with a single or multiple M2M Devices/Gateways (application in the device/gateway) (see note 2).	Implemented in Rel-1
OSR-010	The oneM2M System shall support mechanisms for confirmed delivery of a message to its addressee to those M2M Applications requesting reliable delivery to detect failure of message within a given time interval.	Implemented in Rel-1
OSR-011a	The oneM2M System shall be able to request different communication paths, from the Underlying Network based on Underlying Network Operator and/or M2M Service Provider policies, routing mechanisms for transmission failures.	Implemented in Rel-1 (see note 12)
OSR-011b	The oneM2M System shall be able to request different communication paths from the Underlying Network based on request from M2M Applications.	Not implemented
OSR-012	The oneM2M System shall support communications between M2M Applications and M2M Devices supporting M2M Services by means of continuous or non-continuous connectivity.	Implemented in Rel-1

Requirement ID	Description	Release
OSR-013	The oneM2M System shall be aware of the delay tolerance acceptable by the	Implemented
	M2M Application and shall schedule the communication accordingly or request	in Rel-1
	the Underlying Network to do it, based on policies criteria.	
OSR-014	The oneM2M System shall be able to communicate with M2M Devices, behind	Implemented
OCD 045	an M2M Gateway that supports heterogeneous M2M Area Networks.	in Rel-1
OSR-015	The oneM2M System shall be able to assist Underlying Networks that support different communication patterns including infrequent communications, small	Partially implemented
	data transfer, transfer of large file and streamed communication.	(see note 13)
OSR-016	The oneM2M System shall provide the capability to notify M2M Applications of	Implemented
	the availability of, and changes to, available M2M Application/management	in Rel-1
	information on the M2M Device/Gateway, including changes to the M2M Area	
000 047	Network.	
OSR-017	The oneM2M System shall be able to offer access to different sets of M2M Services to M2M Application Providers. The minimum set of services are:	Implemented in Rel-1
	Connectivity management.	III Kel-1
	Device management (service level management).	
	Application Data management.	
	In order to enable different deployment scenarios, these services shall be made	
	available by the oneM2M System, individually, as a subset or as a complete set	
	of services.	
OSR-018	The oneM2M System shall be able to offer M2M Services to M2M Devices	Implemented
	roaming across cellular Underlying Networks, subject to restriction based on Network Operator's policy (see note 3).	with some limitations
	interwork Operator's policy (see note 5).	(see note 14)
OSR-019	The oneM2M System shall support the capabilities for data repository (i.e. to	Implemented
	collect/store) and for data transfer from one or more M2M Devices or M2M	in Rel-1
	Gateways, for delivery to one or more M2M Gateways, M2M Services	
	Infrastructure, or M2M Application Infrastructure, in ways requested by the M2M	
	Application Infrastructure as listed below action initiated either by an M2M Device, M2M Gateway, M2M	
	Services Infrastructure, or M2M Application Infrastructure;	
	when triggered by schedule or event;	
	for specified data.	
OSR-020	The oneM2M System shall be able to support policies and their management	Implemented
000 004	regarding the aspects of storage and retrieval of data/information.	in Rel-1
OSR-021	The oneM2M System shall be able to provide mechanisms to enable sharing of data among multiple M2M Applications.	Implemented in Rel-1
OSR-022	When some of the components of a M2M Solution are not available (e.g. WAN	Implemented
00.1.022	connection lost), the oneM2M System shall be able to support the normal	in Rel-1
	operation of components of the M2M Solution that are available.	
OSR-023	The oneM2M System shall be able to identify the M2M Services to be used by	Implemented
000 004	M2M Service Subscriptions (see note 4).	in Rel-1
OSR-024	The oneM2M System shall be able to identify the M2M Devices used by M2M Service Subscriptions.	Implemented in Rel-1
OSR-025	The oneM2M System shall be able to identify the M2M Applications used by	Implemented
00.1.020	M2M Service Subscriptions.	in Rel-1
OSR-026	If provided by the Underlying Network, the oneM2M System shall be able to	Implemented
	associate the M2M Device used by M2M Service Subscriptions with the device	in Rel-1
OCD 007	identifiers offered by the Underlying Network and the device.	NIc 4
OSR-027	The oneM2M System shall provide a generic mechanism to support transparent exchange of information between the M2M Application and the Underlying	Not implemented
	Network, subject to restriction based on M2M Service Provider's policy and/or	mibiemented
	Network Operator's policy (see note 5).	
OSR-028	The oneM2M System shall enable an M2M Application to define trigger	Not
	conditions in the oneM2M System such that the oneM2M System autonomously	implemented
	sends a series of commands to actuators on behalf of the M2M Application	
OSR-029	when these conditions are met. The oneM2M System shall be able to support sending common command(s) to	Implemented
03N-029	each actuator or sensor via a group.	in Rel-1
OSR-030	The oneM2M System shall be able to support the management (i.e. addition,	Implemented
	removal, retrieval and update) of the membership of a group.	in Rel-1
OSR-031	The oneM2M System shall be able to support a group as a member of another	Implemented
000 000	group.	in Rel-1
OSR-032	The oneM2M System shall be able to support Event Categories (e.g. normal,	Implemented
	urgency) associated with data for M2M Applications when collecting, storing and reporting that data (see note 6).	in Rel-1
	ומווע וכסטונווע נומנ עמנמ נסכב ווטנב טו.	i

SR-033 Based on the Dynamic Device/Gateway Context of the MZM Gateway andrón Device and the defined Event Categories, the oneMZM System shall provide the capability to dynamically adjust the scheduling of reporting and notification of the MZM Device/Gateway (see note 17). OSR-034 The oneMZM System shall support seamless replacement of MZM Devices as well as MZM Gateways (e.g. redirecting traffic, connection, recovery, etc.). The oneMZM System shall support the exchange of non-MZM Application related relevant information (e.g. Device/Gateway classes) between MZM Device/Gateway and MZM Service Infrastructure for the purpose of efficient communication facilitation. Fins includes the capability for an MZM Device to report its device class to MZM Service Infrastructure and for the MZM Service Infrastructure information and Device of the MZM Service Infrastructure capabilities. OSR-037 The oneMZM System should provide mechanisms to accept requests from implemented in frastructure in inform MZM Application or expensive providers for compute/analytics services. OSR-037 The oneMZM System should provide mechanisms to accept requests to send data, in a manner independent of the Underlying Network, to the MZM Applications of a group of MZM Devices of the MZM Application or expensive providers for compute/analytics services requests on the manner of the purpose of the purp	Requirement ID	Description	Release
the capability to dynamically adjust the scheduling of reporting and notification of the M2M Device/Gateway (see note 17). OSR-034 The oneM2M System shall support seamless replacement of M2M Devices as well as M2M Gateways (e.g. redirecting traffic, connection, recovery, etc.). The oneM2M System shall support the exchange of non-M2M Application related relevant information (e.g. Device/Gateway dasses) between M2M Device of the report its device class to M2M Service Infrastructure for the purpose of efficient communication facilitation. This includes the capability for an M2M Device to report its device class to M2M Service Infrastructure and for the M2M Service Infrastructure to infram M2M Device to the M2M Service Infrastructure to infrastructure to infrastructure to infrastructure in		Based on the Dynamic Device/Gateway Context of the M2M Gateway and/or	Partially
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Devices/Gateways.			