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## ONE M<sub>2</sub>M TECHNICAL SPECIFICATION

Document Number	oneM2M-TS-0011-Definitions and Acronyms-V1.0.0
Document Name:	Definitions and Acronyms
Date:	2014-August 01
Abstract:	This TS contains a collection of specific technical terms (definitions and acronyms) used within oneM2M .

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The present document has not been subject to any approval process by the oneM2M Partners Type 1. Published oneM2M specifications and reports for implementation should be obtained via the oneM2M Partners' Publications Offices.

17 About oneM2M

18 The purpose and goal of oneM2M is to develop technical specifications which address the  
19 need for a common M2M Service Layer that can be readily embedded within various  
20 hardware and software, and relied upon to connect the myriad of devices in the field with  
21 M2M application servers worldwide.

22 More information about oneM2M may be found at: <http://www.oneM2M.org>

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## 12 Scope

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114 The present document contains a collection of specialist technical terms, definitions and acronyms referenced within the  
115 oneM2M specifications.

116 Having a common collection of definitions and acronyms related to oneM2M documents will:

- 117 - ensure that the terminology is used in a consistent manner across oneM2M documents.
- 118 - provide a reader with convenient reference for technical terms that are used across multiple documents.

119 This document provides a tool for further work on oneM2M technical documentation and facilitates their  
120 understanding. The definitions and acronyms as given in this document are either externally created and included here,  
121 or created internally within oneM2M by the oneM2M TP or its working groups, whenever the need for precise  
122 vocabulary is identified or imported from existing documentation.

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## 123 2 References

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

### 127 2.1 Normative references

128 Not applicable.

### 129 2.2 Informative references

- 130 [i.1] oneM2M-TR-0005-Roles\_and\_Focus\_Areas
- 131 [i.2] ITU-T Recommendation X.800 (1991), security architecture for open system interconnection for  
132 CCIT applications
- 133 [i.3] ITU-T Recommendation X.800 Amd.1 (1996), Security architecture for open systems  
134 interconnection for CCITT applications. Amendment 1: Layer Two Security Service and  
135 Mechanisms for LANs.
- 136 [i.4] ISO/IEC 27001 (2005), Information technology – Security techniques Information security  
137 management systems Requirements.
- 138 [i.5] ISO/IEC 27002 (2005), Information technology – Security techniques –Code of practice for  
139 information security management.
- 140 [i.6] IETF RFC 4949 (2007), Internet Security Glossary, Version 2
- 141 [i.7] NIST SP800-57 Part 1, 7/2012 – Recommendation for Key Management – General, Rev3
- 142 [i.8] NIST SP800-57 Part 1, 5/2011 – Recommendation for Key Management – General, Rev3
- 143 [i.9] ISO/IEC 13888-1: 2009-07-15 (3<sup>rd</sup> ed) Information technology — Security techniques — Non-  
144 repudiation — Part 1: General
- 145 [i.10] ISO/IEC 24760-1: 2011-12-15 (1<sup>st</sup> edition), Information technology – security techniques – a  
146 framework for identity management – part 1: terminology and concepts
- 147 [i.11] ISO/IEC 27004: 2009-12-15 (1<sup>st</sup> edition), Information technology — Security techniques —  
148 Information security management — Measurement.

- 149 [i.12] ISO/IEC 9798-1: 2010-07-01 (3<sup>rd</sup> edition), Information technology — Security techniques —  
150 Entity authentication —. Part 1: General.
- 151 [i.13] ISO/IEC TR 15443-1:2012, Information technology – Security techniques – Security assurance  
152 framework – Part 1: Introduction and concepts

---

## 153 3 Definitions

### 154 3.0 General Information

155 NOTE 1: Whenever in this document a term “M2M Xyz” (e.g. M2M System, M2M Solution, ...) is used, then the  
156 prefix “M2M” should indicate that – unless otherwise indicated – the term identifies an entity Xyz that  
157 complies with oneM2M specifications.

158 NOTE 2: For better readability of the present document the prefix “M2M” is ignored when definitions are  
159 alphabetically ordered.

### 160 3.1 0-9

161 <void>

### 162 3.2 A

163 **Access Control Attributes:** Set of parameters of the originator, target resource, and environment against which there  
164 could be rules evaluated to control access.

165 NOTE: An example of Access Control Attributes of Originator is a role. Examples of Access Control Attributes  
166 of Environment are time, day and IP address. An example of Access Control Attributes of targeted  
167 resource is creation time.

168 **Access Control Policy:** Set of privileges which represents access control rules defining allowed entities for certain  
169 operations within specified contexts that each entity must comply with to grant access to an object.

170 **Access Control Role:** Security attribute associated to an entity defining the entity’s access rights or limitations to  
171 allowed operations.

172 NOTE: One or more operations can be associated to an Access Control Role. An Access Control Role can be  
173 associated to one or more entities and an entity can assume one or more Access Control Roles.

174 **Access Decision:** Authorization reached when an entity’s Privileges are evaluated.

175 **Abstraction:** the process of mapping between a set of Device Information Models and an Abstract Information Model  
176 according to a specified set of rules.

177 **Abstract Information Model:** Information Model of common functionalities abstracted from a set of Device  
178 Information Models.

179 **Analytics:** Processing which makes use of data to provide actions, insights and/or inference.

180 **M2M Application:** applications that run the service logic and use M2M Common Services accessible via a set of  
181 oneM2M specified open interfaces. Specification of M2M Applications is not subject of the current oneM2M  
182 specifications.

183 **Application Dedicated Node:** is a Node that contains at least one Application Entity and does not contain a Common  
184 Services Entity. There may be zero or more ADNs in the Field Domain of the oneM2M System.  
185 Example of physical mapping: an Application Dedicated Node could reside in a constrained M2M Device.

186 **Application Entity:** represents an instantiation of Application logic for end-to-end M2M solutions.

187 **M2M Application Infrastructure:** equipment (e.g. a set of physical servers of the M2M Application Service Provider)  
188 that manages data and executes coordination functions of M2M Application Services. The Application Infrastructure  
189 hosts one or more M2M Applications. Specification of Application Infrastructure is not subject of the current oneM2M  
190 specifications.

191 **M2M Application Service:** an M2M Application Service is realized through the service logic of an M2M Application  
192 and is operated by the User or an M2M Application Service Provider.

193 **Application Service Node:** is a Node that contains one Common Services Entity and contains at least one Application  
194 Entity. There may be zero or more ASNs in the Field Domain of the oneM2M System.  
195 Example of physical mapping: an Application Service Node could reside in an M2M Device.

196 **M2M Application Service Provider:** is an entity (e.g. a company) that provides M2M Application Services to the  
197 User.

198 **M2M Area Network:** Is a form of an Underlying Network that minimally provides data transport services among M2M  
199 Gateway(s), M2M Device(s), and Sensing&Actuation Equipment. M2M Local Area Networks can use heterogeneous  
200 network technologies that may or may not support IP access. An M2M Area Network technology is characterized by its  
201 physical properties (e.g. IEEE\_802\_15\_4\_2003\_2\_4GHz), its communication protocol (e.g. ZigBee\_1\_0) and  
202 potentially a profile (e.g. ZigBee\_HA).

203 **Authentication** [i.8]: A process that establishes the source of information, or determines an entity's identity.

204 **Authorization** [i.2]: The granting of rights, which includes the granting of access based on access rights.

## 205 3.3 B

206 <void>

## 207 3.4 C

208 **M2M Common Services:** is the set of oneM2M specified functionalities that are widely applicable to different  
209 application domains made available through the set of oneM2M specified interfaces.

210 **Common Services Entity:** represents an instantiation of a set of Common Service Functions of the M2M  
211 environments. Such service functions are exposed to other entities through reference points.

212 **Common Services Function:** is an informative architectural construct which conceptually groups together a number of  
213 sub-functions. Those sub-functions are implemented as normative resources and procedures. A set of CSFs is contained  
214 in the CSE.

215 **Confidentiality** [i.2]: The property that information is not made available or disclosed to unauthorized individuals,  
216 entities, or processes.

217 **Credentials:** Data objects which are used to uniquely identify an entity and which are used in security procedures.

## 218 3.5 D

219 **Data:** In the context of oneM2M the term "Data" signifies digital representations of anything. Data can or cannot be  
220 interpreted by the M2M System and/or by M2M Applications. See also Information.

221 **M2M Device:** physical equipment with communication capabilities, providing computing and/or sensing and/or  
222 actuation services. An M2M Device hosts one or more M2M Applications or other applications and can contain  
223 implementations of CSE functionalities. Example of physical mapping: A M2M Device contains an Application Service  
224 Node or an Application Dedicated Node.

225 **Device Information Model:** Information Model of the native protocol (e.g. ZigBee) for the physical device.

226 **Dynamic Device/Gateway Context:** Dynamic metrics, which may impact the M2M operations of M2M  
227 Devices/Gateways.

228 **3.6 E**

229 **Encryption** [i.7]: The process of changing plaintext into ciphertext using a cryptographic algorithm and key.

230 **Event**: An interaction or occurrence related to and detected by the M2M System.

231 **Event Categories**: The set of indicators that specify the treatment of Events for differentiated handling, based on  
232 policies.

233 **3.7 F**

234 **Field Domain**: consists of M2M Devices, M2M Gateways, Sensing and Actuation (S&A) Equipment and M2M Area  
235 Networks.

236 **3.8 G**

237 **M2M Gateway**: physical equipment that includes, at minimum, the entities and APIs of a Middle Node.

238 **3.9 H**

239 <void>

240 **3.10 I**

241 **Identification** [i.10]: Process of recognizing an entity in a particular domain as distinct from other entities.

242 NOTE 1 The process of identification applies verification to claimed or observed attributes.

243 NOTE 2 Identification typically is part of the interactions between an entity and the services in a domain and to  
244 access resources. Identification may occur multiple times while the entity is known in the domain.

245 **Information**: In the context of oneM2M “Information” signifies data that can be interpreted by the M2M System.  
246 Information has a defined syntax and semantic within the M2M System. See also Data.

247 **Information Model**: An abstract, formal representation of entities that may include their properties, relationships and  
248 the operations that can be performed on them.

249 **Infrastructure Domain**: consists of Application Infrastructure and M2M Service Infrastructure

250 **Infrastructure Node**: is a Node that contains one Common Services Entity and contains zero or more Application  
251 Entities. There is exactly one Infrastructure Node in the Infrastructure Domain per oneM2M Service Provider. Example  
252 of physical mapping: an Infrastructure Node could reside in an M2M Service Infrastructure.

253 **Integrity** [i.4], [i.5]: Safeguarding the accuracy and completeness of information and processing methods.

254 **3.11 J**

255 <void>

256 **3.12 K**

257 **Key** [i.7]: A parameter used in conjunction with a cryptographic algorithm that determines its operation in such a way  
258 that an entity with knowledge of the key can reproduce or reverse the operation, while an entity without knowledge of  
259 the key cannot.



260 **3.13 L**

261

262 **3.14 M**

263 **Middle Node:** is a Node that contains one Common Services Entity and contains zero or more Application Entities.  
264 There may be zero or more Middle Nodes in the Field Domain of the oneM2M System.

265 The CSE in a Middle Node communicates with one CSE residing in a Middle Node or in an Infrastructure Node and  
266 with one or more other CSEs residing in Middle Nodes or in Application Service Nodes. In addition, the CSE in the  
267 Middle Node can communicate with AEs residing in the same MN or residing in an ADN.

268 Example of physical mapping: a Middle Node could reside in an M2M Gateway.

269 **Mutual Authentication** [i.12]: Entity authentication that provides both entities with assurance of each other's identity.

270 **3.15 N**

271 **Network Operator:** is an entity (e.g. a company) that operates an Underlying Network.

272 **Node:** logical entity that is identifiable in the M2M System.

273 **3.16 O**

274 **oneM2M System:** The oneM2M System is the system developed by the oneM2M global initiative that enables  
275 deployable M2M Solutions.

276 **3.17 P**

277 **Privacy** [i.3]: The right of individuals to control or influence what information related to them may be collected and  
278 stored and by whom and to whom that information may be disclosed.

279 **Privilege:** Qualification given to an entity that allows a specific operation (e.g. Create/Retrieve/Update/Delete, etc.) on  
280 a specific resource within a specified context.

281 **3.18 Q**

282 <void>

283 **3.19 R**

284 **Repudiation:** Denial by an entity of a claimed event or action.

285 NOTE: This definition applies to the security context only.

286 **Role-Based Access Control** [i.4]: permissions attributed to an Access Control Role granting access to an object.

287 **3.20 S**

288 **Secure** [i.13]: Not vulnerable to most attacks, are able to tolerate many of the attacks that they are vulnerable to, and  
289 that can recover quickly with a minimum of damage from the few attacks that successfully exploit their vulnerabilities.

290 **Security** [i.6]: A system condition that results from the establishment and maintenance of measures to protect the  
291 system.

292 **Security Bootstrapping:** The remote Security Provisioning for a service of a device deployed in the field.

293 **Security Pre-Provisioning:** The Security Provisioning performed prior to device deployment, e.g. during  
294 manufacturing.

295 **Security Provisioning:** The process of configuring a device to enable access to a service provided by a target entity,  
296 such as communication services or M2M Services. This involves putting in the device and target entity the security  
297 Credential that will be used for Mutual Authentication.

298 **Sensing and Actuation (S&A) Equipment:** equipment that provides functionality for sensing and/or influencing the  
299 physical environment by interacting with one or more M2M Application Services. Sensing and Actuation Equipment  
300 can interact with the M2M System, however does not host an M2M Application. The specification of S&A Equipment  
301 is not considered in the current oneM2M specifications. S&A Equipment may, but does not need to, be co-located with  
302 an M2M Device.

303 **Sensitive Data:** is a classification of stakeholder's data that is likely to cause its owner some adverse impact if either:  
304 - It becomes known to others when not intended,  
305 - It is modified without consent of the affected stakeholder

306 **M2M Service:** consists of one or more M2M Application Services and one or more M2M Common Services.

307 **M2M Service Administrative State of a M2M Device:** indicates whether the M2M Service is enabled by the M2M  
308 Service Provider to be run for this device.

309 **M2M Service Infrastructure:** physical equipment (e.g. a set of physical servers) that provides management of data and  
310 coordination capabilities for the M2M Service Provider and communicates with M2M Devices. An M2M Service  
311 Infrastructure may communicate with other M2M Service Infrastructures. An M2M Service Infrastructure contains a  
312 CSE. It can also contain M2M applications.

313 **M2M Service Operational Status of a M2M Device:** indicates whether the M2M Service is currently running for this  
314 device.

315 **M2M Service Provider:** is an entity (e.g. a company) that provides M2M Common Services to a M2M Application  
316 Service Provider or to the User.

317 **M2M Service Subscriber:** One of the M2M Stakeholders that subscribes to M2M Service(s).

318 **M2M Service Subscription:** An agreement between a provider and a subscriber for consumption of M2M Services for  
319 a period of time. An M2M Service Subscription is typically a commercial agreement.

320 **M2M Session:** A service layer communication relationship between endpoints managed via M2M Common Services  
321 consisting of session authentication, connection establishment/termination, transmission of information and  
322 establishment/termination of Underlying Network services.

323 **M2M Solution:** A set of deployed systems satisfying all of the following criteria:  
324 1. It satisfies the end-to-end M2M communication requirements of particular users; and  
325 2. Some part of the M2M Solution is realized by including services compliant to oneM2M specifications.

326 **M2M Stakeholder:** entities who facilitate and/or participate in the legitimate operation of the M2M system. Examples  
327 of stakeholders, in alphabetical order, are: M2M Application Service Provider; Manufacturer of M2M Devices and/or  
328 M2M Gateways; Manufacturer of M2M system and its components; M2M Device/Gateway Management entities; M2M  
329 Service Provider; Network Operator; User/Consumer of the M2M solution etc.

330 **Static Device/Gateway Context:** Static metrics, which may impact the M2M operations of M2M Devices/Gateways

## 331 3.21 T

332 **Thing:** an element which is individually identifiable in the oneM2M system.

333 **Trust** [i.9]: A relationship between two elements, a set of activities and a security policy in which element x trusts  
334 element y if and only if x has confidence that y will behave in a well defined way (with respect to the activities) that  
335 does not violate the given security policy.

336 **3.22 U**

337 **Underlying Network:** Functions, networks, busses and other technology assisting in data transportconnectivity  
338 services.

339 **User:** An entity which utilizes the services of the M2M Solution. The User may or may not be a subscriber to an M2M  
340 Application Service or an M2M Service. The User may or may not be identifiable in the M2M System.

341 **3.23 V**

342 **Verification** [i.11]: Confirmation, through the provision of objective evidence, that specified requirements have been  
343 fulfilled.

344 **Virtual Device:** a logical device (implemented as software) that acts similar to physical M2M device and provides  
345 derived data. E.g. average temperature of a room, number of vehicles that passed during the last minute.

346 **3.24 W**

347 <void>

348 **3.25 X**

349 <void>

350 **3.26 Y**

351 <void>

352 **3.27 Z**

353 <void>

---

354 **4 Acronyms**

355 **4.1 0-9**

356 3GPP...3<sup>rd</sup> Generation Partnership Project

357 **4.2 A**

358 ACL... Access Control List

359 ADN...Application Dedicated Node

360 AE...Application Entity

361 API...Application Programming Interface

362 ASN...Application Service Node

363 **4.3 B**

364 BBF... Broad Band Forum

365 **4.4 C**  
366 CHA...Continua Health Alliance  
367 CPU... Centralized Processing Unit  
368 CSE... Common Services Entity  
369 CSF...Common Services Function

370 **4.5 D**  
371 DM...Device Management

372 **4.6 E**

373 **4.7 F**

374 **4.8 G**  
375 GBA... Generic Bootstrapping Architecture  
376 GSM...Global System for Mobile communications  
377 GSMA...GSM Association

378 **4.9 H**

379 **4.10 I**  
380 IN...Infrastructure Node  
381 IP...Internet Protocol

382 **4.11 J**

383 **4.12 K**

384 **4.13 L**

385 **4.14 M**  
386 M2M ... Machine to Machine  
387 MN...Middle Node  
388 MSISDN... Mobile Subscriber Integrated Services Digital Network-Number  
389 MTC... Machine Type Communications

390

## 4.15 N

391

NSE... Network Service Entity

392

## 4.16 O

393

OMA... Open Mobile Alliance

394

## 4.17 P

395

## 4.18 Q

396

QoS... Quality of Service

397

## 4.19 R

398

RBAC... Role-Based Access Control

399

## 4.20 S

400

S&A ... Sensing and Actuation

401

SDO... Standards Developing Organization

402

SMS... Short Message Service

403

## 4.21 T

404

TR... Technical Report

405

TS... Technical Specification

406

## 4.22 U

407

UICC... Universal Integrated Circuit Card

408

USIM... Universal Subscriber Identity Module

409

USSD... Unstructured Supplementary Service Data

410

## 4.23 V

411

## 4.24 W

412

WAN... Wide Area Network

413 4.25 X

414 4.26 Y

415 4.27 Z

416

417  
418  
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# History

*This clause shall be the last one in the document and list the main phases (all additional information will be removed at the publication stage).*

Publication history		
V.1.1.1	<dd Mmm yyyy>	<Milestone>

420  
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Draft history (to be removed on publication)		
V.0.0.1	26 Feb 2013	oneM2M-REQ-2013-0178R01 applied – initial skeleton TR
V.0.0.2	28 Feb 2013	oneM2M-REQ-2013-0139R05 applied – adds definitions and references
V.0.0.3	15 Apr 2013	Applied the following CRs: oneM2M-REQ-2013-0242R01 Subscription Term Update oneM2M-REQ-2013-0278-CR_change_text_of_section_1
V.0.0.4	10 June 2013	Applied the following CR: oneM2M-REQ-2013-0277R02-Security_Terminology_Update applied editorial changes
V.0.1.0	21 June 2013	Applied the following CR: oneM2M-TP-2013-0285R01- CR_to_TR_0004_Definitions_and_Acronyms_V0_0_3 applied editorial changes
V.0.2.0	09 Aug 2013	Applied the following CRs: oneM2M-REQ-2013-0335R03-Definition_of_Local_Context oneM2M-REQ-2013-0350R05-Clarify_OSR-019_and_OSR-021 – defines Data and Information) oneM2M-REQ-2013-0362-Update_to_Security_Terminology oneM2M-REQ-2013-0377R01- MAS_related_CR_to_TR_0004_Definitions_and_Acronyms_V0_0_3 oneM2M-REQ-2013-0383-Definition_of_stakeholder oneM2M-REQ-2013-0384R03- Input_Requirements_for_Correlation_of_Service_Statuses oneM2M-REQ-2013-0387R01-Definition_of_User oneM2M-REQ-2013-0388R02-CR_Definitions_from_REQ-2013-0351R03 oneM2M-ARC-2013-0314R01- Missing_definitions_for_WG1_work_progress_continued oneM2M-ARC-2013-0353R01-Definition_of_physical_objects applied editorial changes (upper case letters for definitions)
V.0.3.0	18 Oct 2013	Applied the CR oneM2M-TP-2013-0352- CR_to_TR_0004_Definitions_and_Acronyms.doc, aligned TR with latest template (copyright statement frontpage, new page 2)

V.0.4.0	13 Dec 2013	Applied the following CR oneM2M-TP-2013-0383-CR_to_TR_0004_Definitions_and_Acronyms and applied editorial changes to sections 2.2 (reference) and 3 (alphabetical order)
V.0.4.1	22 Feb 2014	According to TP decision at TP#9 (Mobile, AL) to change the WI-0003 in TP-2014-0028-CR_to_WI-0003-VocabPrinciples-V1_2 the TR was transformed into a TS.
V.0.5.0	11 Feb 2014	The following CR was applied after approval by MAS, review by TP and approval by REQ: MAS-2014-0333R01-CR_on_definition_of_M2M_Area_Network.doc.  Additionally an Editor`s note was added highlighting the need for a definition for the term M2M Gateway.
V.0.6.0	12 Jun 2014	Applied the following CRs: REQ-2014-0443R02-Change_Privilege_Definition REQ-2014-0444R01-Terminology_change_of_M2M_System REQ-2014-0445R01-Definition_change_of_Subscriberr REQ-2014-0448-CR_to_TS-011_add_acronyms_to_section_4 REQ-2014-0454-Access_Control_Policy_Definition
V.0.7.0	29 Jul 2014	The following CR was applied: REQ-2014-0455R03-Proposed_resolution_for_Editors_notes_on_M2M_Gateway_and_node_relation

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