

# Introducing **one M2M**

The **global standards initiative** for Machine-to-Machine (M2M) and the Internet of Things (IoT) will turn the concepts of smart cities, connected homes and industrial interoperability into a reality.

**It is creating the global framework** that makes it easier, cheaper and more reasonable to implement the IoT. By creating the economic drivers that make possible affordable and interchangeable solutions, **oneM2M will accelerate the transition to the next age of the connected world.**

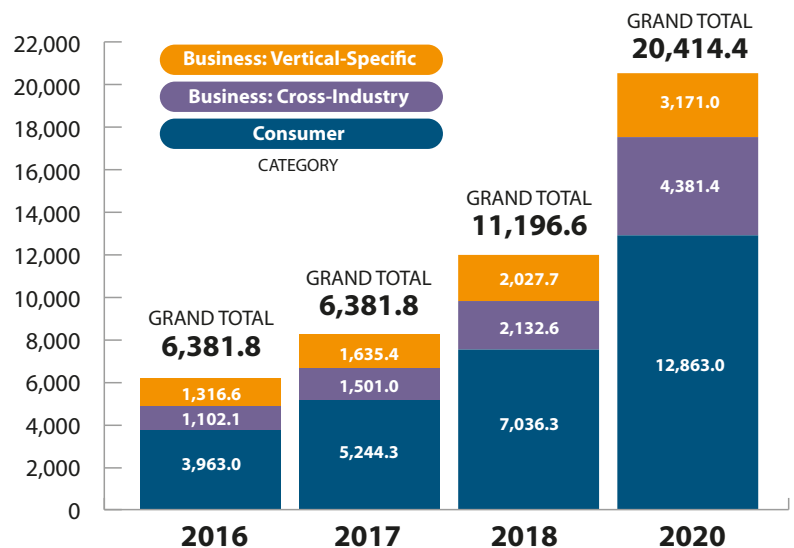
## M2M is the evolution of the Internet



We are living in the **age of the Internet of People**, where the use of social media has grown exponentially following the introduction of new devices and apps. The integration of sensors, tags and big data is ushering in the **age of M2M**, with identification, tracking, monitoring and automation opening up the IoT. It will all be powered by M2M communications.

Financially, there is a strong case for producing global specifications, as the IoT offers unprecedented business opportunities for new devices and services. If these opportunities are to be fully utilised, however, common global standards are necessary to reduce complexity, facilitate the roll-out of new devices and services, and boost economies of scale.

**IoT Units installed Base by Category**  
(MILLIONS OF UNITS)



\*Source: GARTNER, November 10, 2015 Projected IoT growth rate



### In a nutshell

The IoT continues to experience exponential growth. According to analysts\*, the number of connected devices has grown by 30 percent since 2015 to reach 6.4 billion connected objects in use worldwide in 2016. That number will more than triple to 20.8 billion connected IoT devices by 2020.

The IoT is going to be

# BIG

(though nobody  
really knows  
how big...)

**\$300  
BILLION**

SERVICE REVENUES  
IN 2020

IN 2010  
**26  
BILLION**  
"UNITS" WERE  
SHIPPED

**\$1.9  
TRILLION**

GLOBAL ECONOMIC  
VALUE IN 2020



SMART  
HOME



CONNECTED  
CARS



E-HEALTH



SMART  
CITIES



INDUSTRIAL  
IoT



AGRICULTURE

ENERGY  
MONITORING



HOME  
SECURITY



PETS



WEARABLES



WASTE  
MANAGEMENT



## What is oneM2M?



**oneM2M** is the global standards initiative for M2M communications and the IoT. Led by eight of the world's leading ICT standards development organisations with more than 200 member companies, oneM2M has a unique institutional framework with regular Technical Plenary sessions taking place to progress work and a build a road map for future specification releases. The organisation provides a necessary framework for interoperability between the many M2M and IoT technologies being introduced.

**oneM2M** is accelerating the globally agreed-upon, access-independent, end-to-end specifications for an M2M and IoT communications and management system that can be readily embedded within various hardware and software.

**oneM2M** is experiencing major growth and progress towards connecting billions of devices in the field with worldwide M2M application servers that power the IoT.

## oneM2M helps:



- ▶ Reduce market fragmentation and standardisation overlap across vertical market segments
- ▶ Simplify developments of IoT applications and the integration of services
- ▶ Leverage network interoperability for enhanced reach of services and expanded business opportunities
- ▶ Enhance IoT security and reliability



Source: Gartner, March 2014

## oneM2M for all IoT sectors

oneM2M's architecture, standards and specifications are designed to be applied to many different industries and take into account the specific needs of each sector, including:

- ▶ eHealth and telemedicine
- ▶ Enterprise automation
- ▶ Transportation
- ▶ Energy
- ▶ Public services

## oneM2M specifications

- ▶ A common set of service layer capabilities
- ▶ An access-independent view of end-to-end services
- ▶ Open/standard interfaces, APIs and protocols
- ▶ CoAP, HTTP, MQTT and Websockets bindings
- ▶ Semantic interoperability
- ▶ Security, privacy and charging
- ▶ Reachability and discovery of applications
- ▶ Interoperability, including test specifications
- ▶ Interworking with AllJoyn, OCF and OMA Lightweight M2M technologies
- ▶ Identification and naming of devices and applications
- ▶ Management using OMA and Broadband Forum Device Management
- ▶ Industrial domain enablement
- ▶ Home domain enablement
- ▶ Data language interoperability
- ▶ Dynamic authorisations
- ▶ End-to-end security

Complete oneM2M specifications can be found at [onem2m.org](http://onem2m.org)

**oneM2M** is a global initiative created by eight of the world's leading ICT standards bodies:



[www.arib.or.jp/english](http://www.arib.or.jp/english)



[www.atis.org](http://www.atis.org)



[www.ccsa.org.cn/english](http://www.ccsa.org.cn/english)



[www.etsi.org](http://www.etsi.org)



[www.tiaonline.org](http://www.tiaonline.org)



[www.tsdsi.org](http://www.tsdsi.org)



[www.tta.or.kr/English](http://www.tta.or.kr/English)

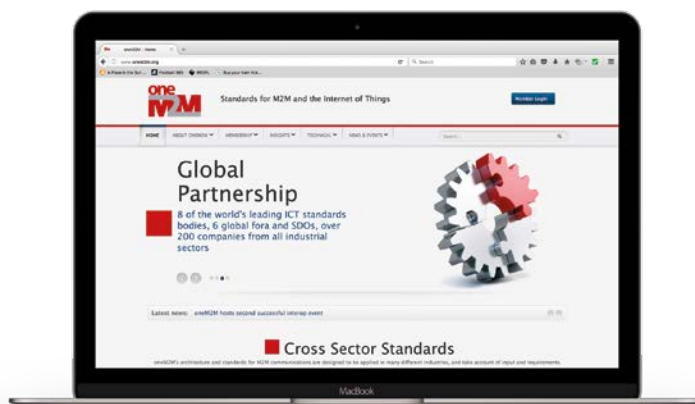


[www.ttc.or.jp/e/](http://www.ttc.or.jp/e/)

These are joined by Broadband Forum, CEN, CENELEC, GlobalPlatform, New Generation M2M Consortium – Japan and the Open Mobile Alliance (OMA), as well as 200 companies from a wide cross section of related industrial sectors.

Additional information and the current list of oneM2M members can be found at:

**[www.onem2m.org](http://www.onem2m.org)**





**oneM2M** is open to new members and partners which would like to become part of an important global technology project that will shape the future of the world we live in.

Membership of oneM2M is open to members of ARIB, ATIS, CCSA, ETSI, TTA, TSDSI, TTA and TTC.

To join oneM2M as a </insert organisation> member, please contact </insert contact details for your organisation here>

If you are not already a </insert organisation> member, please contact </insert contact details for your organisation here>



@oneM2M



[bit.ly/oneM2Mlinkedin](http://bit.ly/oneM2Mlinkedin)



[bit.ly/oneM2MYoutube](http://bit.ly/oneM2MYoutube)