



one M2M



Introducing oneM2M

The global standards initiative for Machine-to-Machine (M2M) and the Internet of Things (IoT).





Why oneM2M?

oneM2M will turn the concepts of smart cities, connected homes and industrial interoperability into a reality. It is creating the global framework needed to make it easier, cheaper and more reasonable for implementation and adoption of the IoT. This will accelerate the connected world of tomorrow, by delivering the economic drivers that translate into affordable and interchangeable solutions.

The benefits of oneM2M

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.

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

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.

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 clear road map for future specification releases. The organisation provides a necessary framework for interoperability between the many M2M and IoT technologies being introduced.

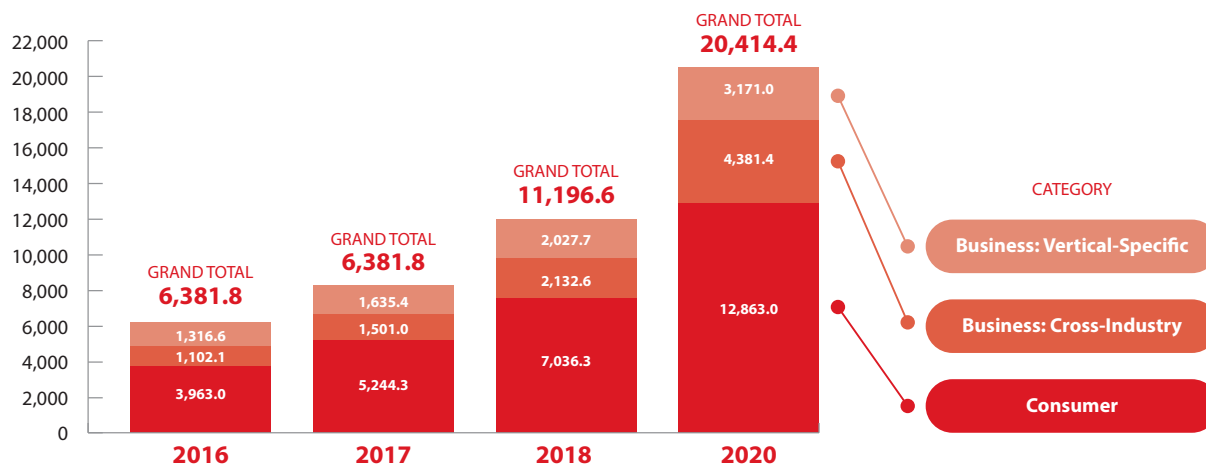
oneM2M is accelerating the globally agreed-upon, access-independent, end-to-end specifications for an M2M and IoT communications and management system that can be readily embedded within various hardware and software. oneM2M is experiencing major growth and progress towards connecting billions of devices in the field with the worldwide M2M application servers that power the IoT.

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

IoT Units installed Base by Category (Millions of Units)



Source: Gartner, 2017

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

In a nutshell

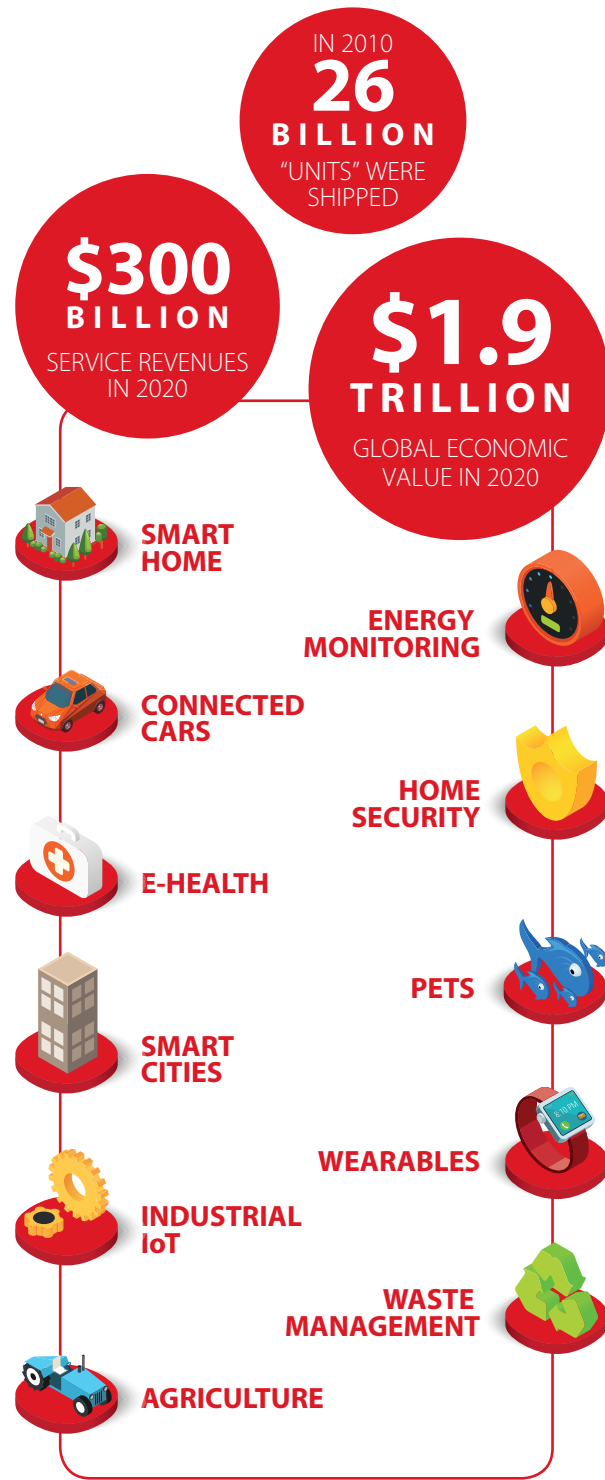
The IoT continues to experience exponential growth. According to analysts*, the number of connected devices has grown by 30 percent since 2015 to reach 6.4 billion connected objects in use worldwide in 2016. That number will more than triple to 20.8 billion connected IoT devices by 2020.

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



The IoT is going to be BIG

(though nobody really knows how big...)



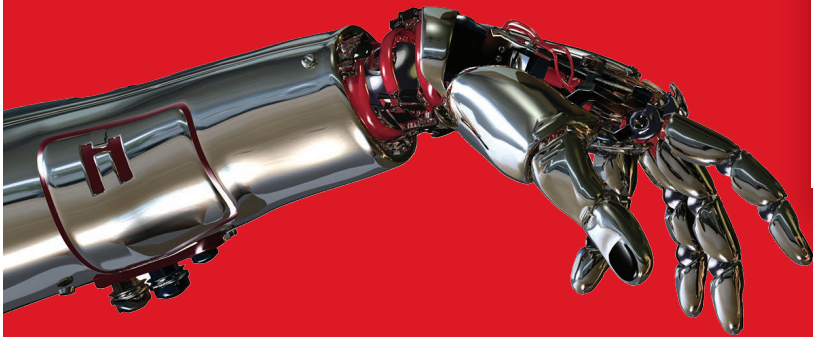
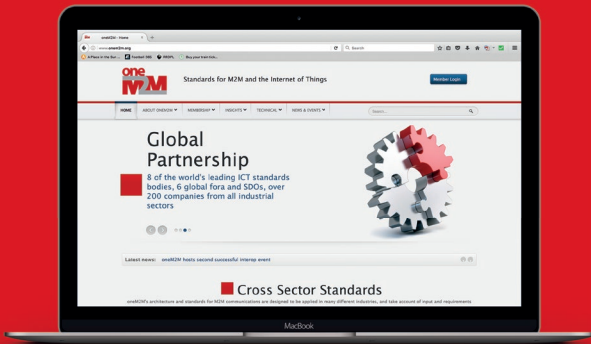
Source: Gartner, March 2014



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.

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

www.onem2m.org



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

All members of TIA and ECP participants in the TIA TR-50 (M2M - Smart Device Communications) committee are welcome to join oneM2M.

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



and more than 200 companies from a wide cross-section of related industrial sectors.

