Strong and growing oneM2M implementation base

Industry-driven Open source implementations

Examples of Commercial implementations /demos

5 interop. events so far
oneM2M Use Case examples

• Connecting many “things” to enable horizontal information flows
• Enabling collaboration between multiple users in common spaces: oneTRANSPORT for smart cities and rural transport
• Plant Dust collector Use case: Improving energy efficiency in plant facilities
• Gas Meters Use case: Providing interoperability across millions of nodes
• Smart City Use case: Expanding services through data sharing and public datasets
Connecting “things” requires a horizontal IoT platform

Source: Boost LPWA Revenue Through oneM2M, https://www.brighttalk.com/webcast/11949/298821
Application of oneM2M in a collaborative, multi-user setting

Overview of Scope and Local-authority Participants in oneTRANSPORT™

Source: oneTRANSPORT.io
oneM2M platform supporting multiple users and use-cases

Citizen and transport service applications cut across geographic and operational boundaries

oneM2M™ Standards-based Horizontal IoT Platform & Data Marketplace

Data sourced from over 300 public & private-sector connected assets

Source: IIC Journal of Innovation, Intelligent Transport Solutions for Smart Cities & Regions (June 2017), www.oneTRANSPORT.io
oneM2M simplifies data sharing and avoids vendor lock-in

Enable Business Decisions

- oneM2M satisfies the requirement for a standards-based & data type agnostic mechanism for sharing data
  - oneM2M information model enables publication and discovery of data from a diverse set of data providers and data consumers
  - Avoids vendor lock-in – sensor/data providers can interface directly without doing any systems integration

- oneM2M services and APIs being used:
  - Application Entity Registration
  - Access Controls
  - Data Management
  - Resource Discovery
  - Subscriptions & Notifications
  - HTTP Protocol Binding
Improving energy efficiency via optimal operation of plant facilities

Reducing Power Consumption by 30~60% through Smart Dust Collector Solution based on Mobius Platform
Providing Interoperability, millions of node compatibility

<Gas Meter Data Model>

Gas Meter

Telco NW Platform

Gas AMI Platform

Gas AMI Mgmt. System

Legacy Network

SKT LoRa

LGU+ NB-IoT

LoRa

N/S

OpenAPI (oneM2M)

N/S

Bridge (oneM2M)

Http

oneM2M

Common Platform

Open API (oneM2M)

Http

Gas AMI Portal

Gas Meter Data Model

<Gas AMI Portal>
Expanding services through data sharing and public datasets

Open Smart City Platform

Global Connectivity

Service/Application

- Smart-Parking
- Smart-Energy
- Smart-Safety
- Local Service

Domestic Connectivity

U-City

Public Open API

Government

1. Request services
2. Provide services
3. Service control

1. Data collection/analysis
2. Data transmission

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## oneM2M deployments cover multiple application sectors

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Published Specifications

IoT Standards

oneM2M is the global standards initiative for
Machine to Machine Communications and
the Internet of Things

Specifications available at http://onem2m.org/technical/published-documents