

**Boost for IoT interoperability as open source foundations and projects use oneM2M standards**

*OpenDaylight, OCEAN, ATIS and Eclipse Foundation are among foundations adopting oneM2M specifications in IoT development projects*

**Sophia Antipolis, France, XX November 2016.** oneM2M, the global standards partnership for Machine-to-Machine (M2M) communications and the Internet of Things (IoT), has revealed its standards are being used by a number of unaffiliated open source foundations and projects, in addition to commercial deployments, as the industry looks to accelerate take up of IoT products and platforms.

Several open source foundations and projects have been actively using oneM2M standards in various applications and services since the group released its first set of specifications in January 2015. oneM2M’s latest set of specifications, Release 2, were published earlier this year.

Among these foundations is the open alliance for IoT standard [OCEAN](http://www.iotocean.org), which was established in January 2015 by the Korean government and research institute KETI. It has now attracted 214 members and develops code for the oneM2M-based IoT server platform project Mobius and IoT device platform &Cube.

oneM2M standards are also being used by the Linux Foundation’s popular OpenDaylight project, where a team is developing a oneM2M-based IoT Data Broker to enable authorised applications to retrieve IoT data uploaded by any device. The [IOTDM](https://wiki.opendaylight.org/view/IoTDM:Main) project has been running since December 2014 and code is already available to download and test.

The Eclipse Foundation’s [OM2M](http://www.eclipse.org/om2m) project, part of Eclipse’s IoT Working Group, offers a flexible oneM2M-based platform to implement horizontal M2M servers, gateways, and devices. It brings forward a modular architecture, running on top of an OSGi container, which is highly extensible via plug-ins. Services are exposed through a lightweight RESTful API supporting HTTP, CoAP, and MQTT bindings combined with XML and JSON formats. In addition to traditional M2M capabilities, OM2M offers advanced features such as Flex Container and Smart Device Template (SDT) to the community. The OM2M project has been running since May 2014 and the third release will be published on December 2017.

Meanwhile, recognising the importance of low-cost and power-efficient IoT clients to support applications like smart cities and wearables, ICT Forum ATIS has started work on “Open Source IoT”, a oneM2M compatible client framework with a focus on constrained hardware.

“The open source community has become extremely important for a number of industries as technology continues to evolve and the IoT is no different,” said Dr. Omar Elloumi, Technical Plenary Chair, oneM2M, and member of Nokia Bell Labs and CTO group. “Use of the oneM2M standards by these groups is an extremely positive step forward for the IoT industry. It is projects like these that are contributing to our ultimate aim of making IoT applications and products interoperable so that they can achieve the goal of truly enhancing users’ daily lives.”

While open source projects using oneM2M specifications are organised and run independently of oneM2M, oneM2M has made a number of resources available to developers to support those implementing oneM2M specifications. The latest Release 2 specifications are available alongside regularly revised and updated Release 1 specifications at: <http://www.onem2m.org/technical/published-documents>

An e-mail list has been established to answer technical questions from developers and provide a direct link to the experts who wrote the oneM2M specifications. XML code and the oneM2M Application ID registry are additional resources available from [oneM2M](http://www.onem2m.com).

Alongside these open source initiatives, the first commercial implementations of oneM2M standards have also grown since the first one was announced in December 2014, with the latest companies to adopt the standard including NEC Corporation, LG subsidiary LG CNS, C-DOT, HPE, InterDigital and Sensinov. To view the full list of commercial deployments, visit: <http://www.onem2m.org/news-events/onem2m-deployment-announcements>.

**ENDS**

**About oneM2M**

oneM2M is the global standards initiative that covers requirements, architecture, API specifications, security solutions and interoperability for Machine-to-Machine and IoT technologies. oneM2M was formed in 2012 and consists of eight of the world's preeminent standards development organizations: ARIB (Japan), ATIS (U.S.), CCSA (China), ETSI (Europe), TIA (U.S.), TSDSI (India), TTA (Korea), and TTC (Japan), together with six industry fora or consortia (Broadband Forum, Continua Alliance, GlobalPlatform, HGI, Next Generation M2M Consortium, OMA) and over 200 member organizations. oneM2M specifications provide a framework to support applications and services such as the smart grid, connected car, home automation, public safety, and health. oneM2M actively encourages industry associations and forums with specific application requirements to participate in oneM2M, to ensure that the solutions developed support their specific needs. For more information, including how to join and participate in oneM2M, see: [www.onem2m.org](http://www.onem2m.org).

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