Collaboration continues to boost the IIoT at oneM2M and IIC joint workshop

Progress has been made towards the global adoption of the Industrial Internet of Things (IIoT) and machine-to-machine (M2M) technologies across a range of verticals at the oneM2M and the Industrial Internet Consortium (IIC) joint workshop, held in Reston, Virginia on February 8, 2018.

Attended by a variety of companies interested in exploring an interoperable horizontal approach to enable scalable IIoT deployments, the workshop highlighted how oneM2M and IIC can jointly promote the digital economy by preventing fragmentation and harmonising various aspects of the IoT. This will overcome complex challenges within the ecosystem and set best practices for adoption.

"The IIC Liaison Working Group is focused on building out the IIoT ecosystem through coalitions that bring together organisations developing horizontal technologies with organisations focused on verticals, to accelerate the adoption of Industrial IoT. Hosting joint workshops allows further collaboration to achieving that goal," said Wael William Diab, IIC Chair of the Liaison Working Group, IIC Steering Committee Secretary and Senior Director at Huawei. "oneM2M brings tremendous expertise through its horizontal communication platform. The recent joint workshop that IIC hosted in Reston identified several areas of joint focus and work."

Ways to enable oneM2M use cases to be embedded into IIC tools were among the areas explored by oneM2M's Technical Plenary Working Group 1 and the IIC's Use Case Task Group and Business Strategy and Solution Lifecycle Working Group. Discussions were also held on how the oneM2M platform can be integrated into some of the existing or new IIC testbeds.

How oneM2M's specifications can be applied beyond big infrastructure implementations was also clarified, including deployments as software stacks on smaller devices, supporting light applications for industrial manufacturing and process control environments.

Josef Blanz, Vice-chair of oneM2M's Technical Plenary, said: "The actions and outcomes following the workshop highlight the benefits collaboration can deliver across the IIoT ecosystem. The productive and positive discussions which took place between our members outlined how oneM2M and the IIC can combine resources and skill sets to not only deliver value across the M2M and IIoT sectors, but to advance the global adoption of the IoT."

The new security challenges and requirements posed by the IIoT were another key topic, with the two organisations addressing how they can combine their strengths by utilizing the security and trust-enabling functions outlined in the IIC Security Framework and specified by oneM2M, to provide a security architecture which will enable a trustworthy, safe and secure handling of data collected or processed by IIoT devices.

Going forward, the two organisations plan to publish a joint white paper which addresses the architecture mapping of the IoT ecosystem, including how oneM2M can be a tool to implement important IIC concepts.

Following the success of the workshop, oneM2M and IIC will continue their collaboration and further strengthen their partnership through participation in future events including developer/hackathon events, oneM2M industry days, additional workshops and IoT Solutions World Congress 2018. These will address how the two organisations can align oneM2M's specifications with IIC's concepts to deliver value across the IIoT and M2M sectors.

About the Industrial Internet Consortium

The Industrial Internet Consortium is the world's leading membership program transforming business and society by accelerating the Industrial Internet of Things (IIoT). The IIC delivers a trustworthy IIoT in which the world's systems and devices are securely connected and controlled to deliver transformational outcomes. The Industrial Internet Consortium is a program of the Object Management Group (OMG). For more information, visit www.iiconsortium.org.

About oneM2M

The purpose and goal of oneM2M is to develop technical specifications which address the need for a common M2M Service Layer that can be readily embedded within various hardware and software, and relied upon to connect the myriad of devices in the field with M2M application servers worldwide. For more information, visit www.onem2m.org.