



Internet of Things Standards for SMEs

Massimo Vanetti
Member of oneM2M Technical Committee

**SBS Forum on
ICT Standards for digitisation of SMEs**
Cologne, December 9th, 2016

oneM2M – Introduction

- oneM2M is a global standards initiative for Machine-to-Machine and IoT technologies. Formed in 2012, it consists of eight of the world's preeminent standards development organizations, plus six industry fora and consortia and over 220 industrial members.
- oneM2M specifications provide a framework to support applications and services such as the smart grid, connected car, home automation, public safety and health.
- It is suitable for use in the industrial domain, providing an integration and communication backbone for the “4th industrial revolution”.

Types of Standards – 1/2

- Many industrial standards are tied to technologies that are controlled by large companies or groups of them. In many cases these proprietary standards drive the users towards exclusive adoption of the solutions provided by one large provider.
- IoT projects nearly always involve some form of integration, requiring interaction with several parties at the same time.
- This may lead to limitations in the reuse of previous investments, reduced economies of scale, and a sort of dependency on the entity controlling the standards.

Types of Standards – 2/2

- Some standards are open and not controlled by single big players.
- They are designed to simplify interworking between different technologies and products.
- This is the case for oneM2M, which incorporates interworking directly into its specifications.
- From a technical standpoint, the use of ontologies facilitates interoperability especially in larger projects that must handle data coming from many heterogeneous sources.

The Value of Standards for Digital SMEs

- Standardization benefits become apparent in all cases when a company must take into consideration the need for multiple editions of otherwise similar projects, perhaps using competing platforms from different vendors
- Value comes from the ability to connect and work together with the products from other manufacturers, and the ability to share information across whole systems.
- Standardization helps reducing re-iteration of design and efforts intended to ensure interoperability, allowing SMEs to better concentrate into their core business.

The Value of Standards for User SMEs

- Users too benefit from the existence of standards, because they can design systems tailored to their needs while standing reasonably assured that the various parts fit together even if they come from different providers.
- This is especially the case for industrial domain applications, which are currently largely dominated by proprietary solutions.

Thank you for your attention



Rue Jacques de Lalaingstraat 4
B-1040 Brussels, Belgium
www.sbs-sme.eu
info@sbs-sme.eu

Small Business Standards is co-financed by the European Commission
and the EFTA Member States

