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| **Terms of Reference** |
| Committee | Sustainability Sub-Committee (SSC) |
| Chair: | Dale Seed – Convida Wireless |
| Secretary: | Karen Hughes, ETSI / Victoria Mitchell, TIA |
| Date: | 2/16/2021 |
| Details: | Proposal for Terms of Reference for oneM2M Sustainability Sub-Committee |
| Intended purpose ofdocument: | [x]  Decision[ ]  Discussion[ ]  Information[ ]  Other <specify> |
| Template Version:23 February 2015 (Dot not modify) |

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### Sustainability: the role of IoT and standardization

While the topic of sustainability has multiple facets, its growing importance in policymaking, commercial and operational domains is undeniable. IoT has a significant role to play in enabling sustainability via improved access to data from widely dispersed machines and sensors through to interoperable systems for sharing data along supply chains and resource distribution networks. In the future, there will also be a requirement for the technologies used in IoT systems to be sustainable in their own right.

oneM2M has a significant role to play as a standard that enables sustainability and because some of its functional capabilities improve the sustainability of IoT deployments. oneM2M standards are based on the principles of interoperability, scalability, modularity, and re-use, both of new and existing technologies. oneM2M is integral in sustainability-related usage scenarios such as smart streetlights, intelligent transport, smart city, and waste management. Capabilities that exist in oneM2M technical specifications address issues related to power management through the intelligent timing of communications as well as interworking, which permits brownfield sites to integrate new technologies and to acquire more sustainable operating characteristics.

Many of the issues and opportunities raised by the growing call for sustainability and sustainable technologies fall outside the scope of oneM2M’s TP activities. There is market demand to understand how IoT can enable sustainability, through use-case and case-study examples, as well as the underlying principles for reusable systems that minimize the inefficiencies of building one-off or silo systems. The purpose of establishing a Sustainability Sub-Committee within oneM2M is to address the demand for information and to promote key standardization principles that mitigate the shortcomings of proprietary, and potentially wasteful, approaches. The **Sustainability Sub-Committee** **(SSC)** under the **oneM2M Steering Committee** is the gateway for channeling oneM2M’s role in sustainability and providing an organizing framework for involving market participants that are focused more on the application of standards and less on the creation of standards.

### Sustainability Sub-Committee Objectives

The objectives of the SSC are as follows:

* To create a market-responsive forum to promote the oneM2M standard externally with an emphasis on sustainability.
* To serve as a source of oneM2M content that MARCOM can then promote
* This is to be accomplished by advocating the opportunities and impact of IoT and the importance of oneM2M standards with respect to sustainability.
* The SSC aims to recruit new participants to oneM2M activities, going beyond standardization experts and involving representatives with IoT product management, solutions service providers and operational departmental units.
* As part of the dialog between participants, there may be ideas on sustainability requirements that may be candidates for inclusion in ongoing standardization activities in oneM2M working groups.

### Sustainability Sub-Committee Approach

oneM2M can successfully demonstrate the importance of sustainability and the organization’s commitment to the issue by forming a dedicated sub-committee within oneM2M’s organization structure. This sub-committee will operate with a distinct mandate in comparison with existing and established working group and committees. It will occupy a middle ground between the largely technical activities of the TP and the promotional channels managed by MARCOMs.

In addition to leveraging developments and application examples from existing oneM2M members, the sub-committee will provide a forum to recruit new participants who would not ordinarily participate in oneM2M core standardization activities.

The sub-committee will provide a forum for exchanging ideas and information about IoT and sustainability. It will achieve this by developing and promoting marketing content in the form of webinars, articles, blogs, tweets, and short videos. The initial approach will focus on two content themes. The first will make the case for IoT in enabling sustainability and illustrate this proposition by reference to oneM2M use cases and deployment examples. The second theme will highlight oneM2M principles (e.g., interoperability, scalability, modularity, reuse) and functional capabilities that enable sustainability (e.g., network resource management, messaging scheduling for efficient communications etc.)

### Sustainability Sub-Committee Organization

The proposed terms of reference envisage the sub-committee reporting to the Steering Committee. The SSC will recruit participants, from TP attendees and external colleagues of TP participants, providing a structured framework for members that may not seek to get involved in TP or WG commitments.

The SSC will also provide regular reports to TP and MARCOMs, while working and coordinating closely with MARCOMs to publish generated content.

For administrative purposes, there will be a dedicated mailing list for SSC participants.

Any external collaboration arising from industry bodies, for example, will follow the operating rules of the Industry Liaison Committee.

### Adopted rules of working

In line with the working procedures in all other groups of oneM2M, the SSC will conduct consensus-based decision making and will follow the established oneM2M Methods of Work and Working Procedures. The SSC will not perform any technical work. Any exchange of information on technical issues will be done directly by the TP. The SSC will also closely coordinate with MARCOMs to generate and disseminate content such as press releases, articles, and publications.