

# DEVICE MANAGEMENT IOT CHARTER

## UTILITY INTEROPERABILITY WG

### (DM IOT UTILITY INTEROP WG)

#### 1. DESCRIPTION AND GOALS

Device Management IOT Utility Interoperability WG (DM-IOT Utility Interop WG)

OMA LwM2M is increasingly important to an industry segment consisting of Utility companies including Electric, Gas, Energy and Water utilities and their suppliers. We believe that at least 80% of the current implementations of LwM2M are found in this industry segment. Industry participants are deploying LwM2M solutions based on disparate implementations of the Specification. Many of the Utility implementers and end users of the specification require improvements in the interoperability of the LwM2M specification and its Objects.

The DM-IOT Utility Interop WG is the successor to the DM IOT Utility Outreach WG. It shall be a technical WG that is based on the utility segment requirements and use cases developed by the DM IOT Utility Outreach WG. The DM IOT Interop WG will seek to identify requirements unique to the utility segment and pass relevant contributions to the DMSE / IPSO WGs and will create interoperability requirements and test cases for the industry segment.

#### 2. SCOPE

The primary scope of the DM-IOT Utility Interop WG shall be to:

- Create segment-specific technical requirements and segment-specific test cases for Interop.
- Organize events to validate those technical requirements during interoperability test at sponsoring facility

#### 3. CRITERIA FOR SUCCESS

The success of the Working Group is measured by:

- Active participation of new and existing members in the WG.
- Develop segment-specific contributions from the new contributors to be sent to the DMSE / IPSO WGs.
- Develop test cases for use in Test events and self-test environments.
- Regular Interoperability test events, both in-person and remote.
- Register interoperability testing for up to 50 new devices in 12 months
- Publish results of interoperability tests
- Encourage industry to create certification programs for devices for the LwM2M specification for the benefit of utility segment implementers within 18 months.

#### 4. DURATION

The DM-IOT Utility Interop WG is proposed to be a standing committee within OMA SpecWorks for as long as its mission is relevant. As a standing committee, the Working Group Charter is subject to review as required by the OMASpecWorks governing processes.

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## 5. RESOURCE REQUIREMENTS

The Working Group requires the following resources from the OMA SpecWorks and members:

- Contractor staff assistance in arranging meetings as outlined in section 8.
- Contractor provisioning on email and website services for member access as outlined in section 8.
- Read/write access to the working group website for the group members.
- OMA SpecWorks liaison services as outlined in section 6.
- Setting and configuring new Groups.io, and GitHub groups.
- Updates and new sections of the OMA Website and Github pages.
- Commitment by the member representatives to donate their time and expertise to the work of this group.
- Staff Support of Test Events and technical support of tools needed to support the test events.
- Staff support of the WG.

## 6. LIAISON/COLLABORATION WITH EXTERNAL ORGANISATIONS

The Working Group will likely cooperate with external standards and organizations' industry consortia. Examples of each are outlined below:

### ***Standards Organizations:***

Significant standards organizations have work efforts or are involved in device management & IoT activities relevant to the scope of this charter. OMA SpecWorks DM-IOT Utility Interop WG has or intends to pursue liaison relationships with these organizations.

### ***Industry Consortia:***

There are significant consortia that have work efforts or are involved in device management & IoT activities relevant to the scope of this charter. OMA SpecWorks DM-IOT Utility Interop WG has or intends to pursue liaison relationships with these organizations.

Wi-SUN Alliance, DLMS, uCiFi, OMS Group, G3-PLC, Open ADR others TBD. There may be demand to apply to JTC1 as a PAS Submitter for the resulting Specifications.

## 7. COORDINATION WITH OTHER OMA ACTIVITIES

The DM IOT Interop WG will interface with all OMA SpecWorks Working Groups and subgroups working on external interfaces or exposing services.

## 8. MEETINGS AND COMMUNICATION

The Working Group expects to hold the following:

- Potential for F2F meetings of the WG to be held at a sponsoring facility.
- Conference calls to be held at a frequency required to achieve the goals and objectives, using a bridge number provided by the OMA SpecWorks. The group will keep minutes of each conference call.
- General communication will be via email exploders with archiving provided by the OMA SpecWorks.
- Group progress and processes will be communicated via group web pages provided by the OMA SpecWorks contractor staff and at OMA Board calls.

## 9. MEMBERSHIP

The DM-IOT Utility Interop WG is open to all OMA Sponsor, Full, Associate and Supporter member companies as specified by OMA SpecWorks membership rules and benefits.