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| Work Item | |
| Work Item Title:\* | LWM2M Interworking |
| Document Number\* | WI-xxxx-LWM2M\_Interworking-V0\_1\_0 |
| Supporting Members or Partner type 2\* | ALU (TIA, ATIS)  Gemalto (ETSI)  Eurecom (ETSI)  Huawei (CCSA)  LG Electronics (TTA)  InterDigital (ATIS)  Sierra Wireless (ETSI)  Ericsson (ETSI)  KDDI (TTC) |
| Date:\* | 2015-01-21 |
| Abstract:\* | Proposes a work itemto produce a interworking specification between oneM2M IN/MN CSEs and LWM2M Servers and Clients based on the TS-0001 Annex F architecture. |

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Title

LWM2M Interworking Specification

Output

New Technical Specification that specifies the interworking scenarios and solutions

Modification o f TS-0002 to incorporate new requirements discovered during this work.

Impact

Impact on other Technical Specifications and Technical Reports

This work item might have an impact on TS-0002 for new requirements.

This work item would rely on work contained within TR-0007 (Abstraction and Semantics) for the LWM2M Object Translation Proxy.

Impact on other oneM2M Work Items;

The current work item is expected to have impact on WI-0005 (Abstraction & Semantics Capability Enablement) and vice versa.

Scope

Annex F of TS-0001 describes possible interworkings for non-oneM2M Applications

Hybrid Application

CSE(s)

Non oneM2M interface

Mca

Inter-working Proxy

Mca

(note 1)

Hybrid Application

Non oneM2M interface

Mca

Non oneM2M Application

Non oneM2M interface

Inter-working Proxy

Mca

oneM2M native Application

Mca

The objective of the technical specification would be to specify the functionality of the Inter-working Proxy for LWM2M Application.

The LWM2M Interworking Proxy would encompass the following interworking scenarios as described in Annex F of TS-0001:

1. Interworking using containers for transparent transport of encoded non-oneM2M data and commands via Mca.
2. Interworking with full mapping of the semantic of the non-oneM2M data model to Mca.

Note: The scenario where LWM2M application objects are translated into oneM2M Management Objects is not considered part of this work item and is FFS.

Minimally the technical specification is expected to specify the following interworking functionality:

* Discovery and announcement of LWM2M Endpoints and Objects.
* Onboarding of LWM2M Endpoints
* Translation of LWM2M Objects into oneM2M Semantic enabled containers
* Translation of LWM2M Endpoints into oneM2M Application or Node
* Translation of LWM2M Protocol information elements in oneM2M Resources. This would include LWM2M security information elements (e.g., ACLs).

Schedule

Provide the schedule of tasks to be performed;

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| Doc  Type | Spec Number | Title | Milestone dates | | | | Primary Responsible | Notes |
| Start | Change Control | Freeze | Approval |
| TS | 000x | LWM2M Interworking | TP#16 | TP#21 | TP#21 | TP#23 | WG2 | TS is expected to incorporate Architecture Work. |
| TS | 0002 | oneM2M Requirements | TP#16 | N/A | TP#19 | N/A | WG1 | Change Requests to Requirements TS-0002 For LWM2M Interworking Requirements |
| TS | 0001 | oneM2M Architecture | N/A | N/A | N/A | N/A | WG2 | Modifications to the oneM2M Architecture is not expected. |
| TS | 0004 | oneM2M Protocols | N/A | N/A | N/A | N/A | WG3 | Modifications to the oneM2M Protocols is not epected |
| TR | 0001 | oneM2M Use Cases | N/A | N/A | N/A | N/A | WG1 | Modifications to Use cases is not expected |

Supporters

Alcatel-Lucent (TIA, ATIS), Gemalto (ETSI), Eurecom (ETSI) Huawei (CCSA), LG Electronics (TTA), InterDigital (ATIS), Sierra Wireless (ETSI), Ericsson (ETSI), KDDI (TTC)

Work Item Rapporteurs.

Timothy Carey (Alcatel-Lucent)

History

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| **Document history** | | |
| <Version> | <Date> | <Milestone> |
| V0.1.0 | 23 January 2015 | Initial proposal |
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