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| Work Item |
| Work Item Title:\* | Group Operation Enhancement |
| Document Number\* | WI-00xx-Group\_Operation\_Enhancement-V0\_0\_1 |
| Supporting Members or Partner type 2\* | Huawei Technologies |
| Date:\* | 2015-03-14 |
| Abstract:\* | Proposal of a work item to deliver CRs to enhance the group operation in oneM2M. |

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Title

Group Operation Enhancement

Output

Technical Reprot:

* Analyse group related use cases and requirements.
* Analyse if the current group mechanism can fulfil the use cases and requirements.
* Potential new features to be brought to oneM2M.

Change Requests:

* CRs to correct the currently existing inconsistencies and mistakens.
* CRs to bring new group operation features based on new use cases and requirements.

Impact

Impact on other Technical Specifications and Technical Reports

TR0001will be impacted with new use cases.

TS0002 will be impacted with new group related requirements.

TS0001 and TS0004 may be impacted with new resource types and procedures.

Impact on other oneM2M Work Items;

None

Scope

In the current TS0001 and TS0004, group for oneM2M is defined for fan out operations to multiple devices. But group can be used in many other ways as well. In M2M system, as the amount of device connected with the system is very large, group is very important to organize devices that are intended with the same functionality together.

According to the solution delivery experience, group opertion is of great importance for M2M system. And there are new use cases and requirements pertaining to group operations.

As a result, the scope of the proposed new WI includes:

* Call for and analyse use cases and requirements on group operations.
* Analyse if the current group mechanism can fulfil the use cases and requirements.
* Analyse the potential group related new features to be brought to oneM2M.
* Change Requests to architecture and protocol specification to contribute the new features needed.

Schedule

Provide the schedule of tasks to be performed;

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| --- | --- | --- | --- | --- | --- |
| DocType | Spec Number | Title | Milestone dates | Primary Responsible | Notes |
| Start  | Change Control  | Freeze | Approval |
| TR | 00xx | Group operation in M2M | TP#17 | TP#20 | TP#21 | TP#22 | WG2 |  |
| TS | 0002 | Requirements | N/A | N/A | N/A | N/A | WG1 | CRs to bring in new requirements |
| TS | 0001 | Functional Architecture | N/A | N/A | N/A | N/A | WG2 | CRs to bring in new resource types, attributes and related procedures |
| TS | 0004 | Service Layer Core Protocol | N/A | N/A | N/A | N/A | WG3 | CRs to bring in data types, procedure description etc related to architecture. |
| TR | 0001 | Use Cases Collection | N/A | N/A | N/A | N/A | WG1 | CRs to bring in new use cases |

Supporters

Huawei Technologies Co., Ltd.

Work Item Rapporteurs.

Jiaxin Yin (Huawei Technologies Co., Ltd.)

History

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| **Document history** |
| <Version> | <Date> | <Milestone> |
| V0.0.1 | 14 March 2015 | Initial proposal |