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| Work Item |
| Work Item Title: | IPE-based Device Management with FlexContainer |
| Document Number | WI-xxxx |
| Supporting Members or Partner type 2 | Orange, Hansung University, Exacta GSS, Deutsche Telekom, Nokia |
| Date: | 2021-09-14 |
| Abstract: | Propose a work item for Device Management (DMG) with IPE-based approach with FlexContainer |
| 'Template Version: January 2019 (do not modify) |

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1 Title (abbreviation)

IPE-based Device Management with FlexContainer (IPE-DM)

2 Justification

In Release 4, SDT (Smart Device Template) (WI-0081) was extended to include device management functions in addition to the existing services. This justified extension creates a new way to perfom device management compared to the existing Device Management (DMG) Common Service Function (CSF) model using <mgmtObj>.

In order not to live with 2 solutions for the same purpose, in Release 4, a work item (WI-0099) was created to study a possible transition phase allowing implementation using DMG <mgmtObj> to migrate towards SDT model. The study done in TR-0067 concluded that such a migration was not possible and thus, DMG <mgmtObj> should stay as is.

With the WI-0099 study, raised a new vision on the way the Device Management should be designed with more abstract APIsand independently from any external DMG technology, relying on IPE guidelines.

This Release 5 Work Item proposes to define an IPE-based Device Management that will be more future-proof and applicable to any kind of existing or future IoT networks.

3 Intended Output

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| Tick all the appropriate cases  |  |
| X | Change request(s) to existing Technical Specification(s) |
| X | Change request(s) to existing Technical Reports(s) |
| X | New Normative Technical Specifications(s) |
|  | New Permanent Technical Reports(s) |
|  | New Temporary Technical Reports(s) |

4 Impact

4.1 oneM2M Work Items

None

5 Scope

The scope of the Work Item is to specify the IPE-based Device Management (IPE-DM)

6 Schedule and impacted specifications

Provide the schedule of tasks to be performed;

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| New Specifications (if any) |
| DocumentType | DocumentNumber\* | Title | Schedule (TP No.) | Lead WG | Impacted WGs | Comments |
| Start  | Change Control  | Freeze | Approval |
| TR |  |  |  |  |  |  |  |  |  |
| TS/TR | NEW | IPE-based Device Management with FlexContainer | TP 51 | TP 56 | TP 57 | TP 58 | RDM | SDS |  |

\* The first versions will be assigned by the secretariat (WPM Secretary)

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| CRs to existing specifications (if any) |
| ImpactedTS/TR |  | Subject of the CR | Approved at plenary# | Impacted WGs | Comments |
| TS-0001 |  | Enhancements to TS-0001 |  | SDS |  |
| TS-0004 |  | Enhancements to TS-0004 |  | SDS |  |
| TS-0023 |  | Enhancements to TS-0023 |  | RDM |  |
| TBC |  |  |  |  |  |

7 Work Item Rapporteur(s)

Marianne Mohali, Orange, Marianne.mohali@orange.com

8 History

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| Document history |
| V0.0.1 | 2021-09-14 | Initial proposal |
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