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| CHANGE REQUEST |
| Meeting ID:\* | PRO 33 |
| Source:\* | Bob Flynn, Convida Wireless; Flynn.bob@convidawireless.com |
| Date:\* | 2018-01-09 |
| Reason for Change/s:\* | mgmtObj updates |
| CR against: Release\* | Release 3 |
| CR against: WI\* | [x]  Active <WI-0052> [ ]  MNT maintenance / < Work Item number(optional)>Is this a mirror CR? Yes [ ]  No [x] mirror CR number: (Note to Rapporteur - use latest agreed revision)[ ]  STE Small Technical Enhancements / < Work Item number (optional)>Only ONE of the above shall be ticked |
| CR against: TS/TR\* | TS-0004 Version 3.5.0 |
| Clauses \* |  |
| Type of change: \* | [ ]  Editorial change[ ]  Bug Fix or Correction[x]  Change to existing feature or functionality[ ]  New feature or functionalityOnly ONE of the above shall be ticked |
| Impacted other TS/TR(s) | <TS/TR number>, <Version Number>, and <Description on which aspect should be reflected in this TS/TR> |
| Post Freeze checking:\* | This CR contains only essential changes and corrections? YES [x]  NO [ ] This CR may break backwards compatibility with the last approved version of the TS? YES [x]  NO [ ]  |
| Template Version: January 2017 (Do not modify) |

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GUIDELINES for Change Requests:

Provide an informative introduction containing the problem(s) being solved, and a summary list of proposals.

Each CR should contain changes related to only one particular issue/problem.

In case of a correction, and the change apply to previous releases, a separate “mirror CR” should be posted at the same time of this CR

Mirror CR: applies only when the text, including clause numbering are exactly the same.

Companion CR: applies when the change means the same but the baselines differ in some way (e.g. clause number).

Follow the principle of completeness, where all changes related to the issue or problem within a deliverable are simultaneously proposed to be made E.g. A change impacting 5 tables should not only include a proposal to change only 3 tables. Includes any changes to references, definitions, and acronyms in the same deliverable.

Follow the drafting rules.

All pictures must be editable.

Check spelling and grammar to the extent practicable.

Use Change bars for modifications.

The change should include the current and surrounding clauses to clearly show where a change is located and to provide technical context of the proposed change. Additions of complete clauses need not show surrounding clauses as long as the proposed clause number clearly shows where the new clause is proposed to be located.

Multiple changes in a single CR shall be clearly separated by horizontal lines with embedded text such as, start of change 1, end of change 1, start of new clause, end of new clause.

When subsequent changes are made to content of a CR, then the accepted version should not show changes over changes. The accepted version of the CR should only show changes relative to the baseline approved text.

## Introduction

Protocol contribution to reflect changes in ARC-2017-0192R01-mgmtObj\_objectID\_attribute

*“This contribution adds a new mgmtSchema attribute of a <mgmtObj> resource that contains a URI of its corresponding schema. This has been agreed by MAS as part of the TR-0031 work on LWM2M Interworking enhancements. This is also aligned with the definition of a <flexContainer> resource which allows a URI to be used in its containerDefinition attribute.”*

### -----------------------Start of change 1-------------------------------------------

#### Introduction

The <mgmtObj> resource contains management data which represents individual M2M management functions. It represents a general structure to map to technology specific data models. There are multiple specializations of <mgmtObj>; these are defined in the Annex D. Each of these specializations has its own schema file. There is no separate schema file just for <mgmtObj>, however the XML schema types for the specializations all conform to the pattern described in this clause.

Table 7.4.15.1‑1: Universal/Common Attributes of <mgmtObj> resource

|  |  |
| --- | --- |
| Attribute Name | Request Optionality  |
| Create | Update |
| @resourceName | O | NP |
| resourceType  | NP | NP |
| resourceID | NP | NP |
| parentID | NP | NP |
| accessControlPolicyIDs | O | O |
| creationTime | NP | NP |
| expirationTime | O | O |
| lastModifiedTime | NP | NP |
| labels | O | O |
| *dynamicAuthorizationConsultationIDs* | O | O |

Table 7.4.15.1‑2: Resource Specific Attributes of <mgmtObj> resource

|  |  |  |  |
| --- | --- | --- | --- |
| Attribute Name | Request Optionality  | Data Type | Default Value and Constraints |
| Create | Update |
| mgmtDefinition | M | NP | m2m:mgmtDefinition | No default |
| objectIDs | O | NP | list of xs:anyURI | No default |
| objectPaths | O | NP | list of xs:anyURI | No default |
| description | O | O | xs:string | No default |
| mgmtLink | O | O | m2m:mgmtLinkRef | No default |
| mgmtSchema | O | NP | xs:anyURI | No default |
| [objectAttribute] | O | O | Name and data type are defined in the specification document or XSD file identified by the value of mgmtSchema attribute. | No default |

Table 7.4.15.1‑3: Child resources of <mgmtObj> resource

|  |  |  |  |
| --- | --- | --- | --- |
| Child Resource Type  | Child Resource Name | Multiplicity | Ref. to Resource Type Definition |
| <subscription> | [variable] | 0..n | Clause 7.4.8 |

### -----------------------End of change 1-------------------------------------------

### -----------------------Start of change 2-------------------------------------------

* + 1.
1.
2.

### -----------------------End of change 2-------------------------------------------

### -----------------------Start of change 3-------------------------------------------

### -----------------------End of change 3-------------------------------------------

CHECK LIST

* Does this Change Request include an informative introduction containing the problem(s) being solved, and a summary list of proposals.?
* Does this CR contain changes related to only one particular issue/problem?
* Have any mirror CRs been posted?
* Does this Change Request make **all** the changes necessary to address the issue or problem? E.g. A change impacting 5 tables should not include a proposal to change only 3 tables?Does this Change Request follow the drafting rules?
* Are all pictures editable?
* Have you checked the spelling and grammar?
* Have you used change bars for all modifications?
* Does the change include the current and surrounding clauses to clearly show where a change is located and to provide technical context of the proposed change? (Additions of complete clauses need not show surrounding clauses as long as the proposed clause number clearly shows where the new clause is proposed to be located.)
* Are multiple changes in this CR clearly separated by horizontal lines with embedded text such as, start of change 1, end of change 1, start of new clause, end of new clause.?