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| CHANGE REQUEST | |
| Meeting:\* | ARC#28.1 |
| Source:\* | C-DOT |
| Date:\* | 2017-03-28 |
| Contact:\* | Moode Giribabu Naik ([moode@cdot.in](mailto:moode@cdot.in)) , Poornima ([poornima@cdot.in](mailto:poornima@cdot.in)) |
| Reason for Change/s:\* | See the introduction |
| CR against: Release\* | Release 3 |
| CR against: WI\* | Active <Work Item number>  MNT maintenace / < Work Item number(optional)>  STE Small Technical Enhancements / < Work Item number (optional)>  Only ONE of the above shall be ticked |
| CR against: TS/TR\* | TS-0001 v2\_12\_2 |
| Clauses/Sub Clauses\* | 9.6.15 |
| Type of change: \* | Editorial change  Bug Fix or Correction  Change to existing feature or functionality  New feature or functionality  Only ONE of the above shall be ticked |
| Post Freeze checking:\* | This CR contains only essential changes and corrections? YES  NO  This CR may break backwards compatibility with the last approved version of the TS? YES  NO  This CR is a mirror CR? YES  if YES, please indicate the document number of the original CR: : NO |
| Template Version:27 May 2015 (Dot 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 separated “mirror CR” should be posted at the same time of this CR

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 sections need not show surrounding clauses as long as the proposed section number clearly shows where the new section 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

This CR proposes changes in the attributes of specialized resource [firmware]. In TS-0004 following attribute updateStatus have the update Optionality “O” which implies that it can be updated either by AE or CSE.

Table D.2.1‑2: Resource specific attributes of [firmware]

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Attribute Name | Request Optionality | | Data Type | Default Value and Constraints |
| Create | Update |
| mgmtDefinition | M | NP | See clause 7.4.15 | 1001 (firmware) |
| objectIDs | O | NP | See clause 7.4.15 |  |
| objectPaths | O | NP | See clause 7.4.15 |  |
| description | O | O | See clause 7.4.15 |  |
| version | M | O | xs:string |  |
| firmwareName | M | O | xs:string |  |
| URL | M | O | xs:anyURI |  |
| update | M | O | xs:boolean |  |
| updateStatus | NP | O | m2m:actionStatus |  |

So, In TS-0001 [firmware] resource’s attribute updateStatus should be RW which implies that it can be updated by AE or CSE.

This CR proposes changes in the attributes of specialized resource [battery]. In TS-0004 following attributes batteryLevel and batteryStatus have the update Optionality “O” which implies that it can be updated either by AE or CSE.

Table D.7.1‑2: Resource specific attributes of [battery]

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Attribute Name | Request Optionality | | Data Type | Default Value and Constraints |
| Create | Update |
| mgmtDefinition | M | NP | See clause 7.4.15 | 1006 (battery) |
| objectIDs | O | NP | See clause 7.4.15 |  |
| objectPaths | O | NP | See clause 7.4.15 |  |
| description | O | O | See clause 7.4.15 |  |
| batteryLevel | M | O | xs:unsignedInt | Range: 0-100  Unit: percent |
| batteryStatus | M | O | m2m:batteryStatus |  |

So, In TS-0001 [battery] resource’s attributes batteryLevel and batteryStatus should be RW which implies that it can be updated by AE or CSE.

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

# D.2 Resource *firmware*

The *[firmware]* resource is used to share information regarding the firmware on the device. The *[firmware]* resource is a specialization of the *<mgmtObj>*resource.



Figure D.2-1: Structure of *[firmware]* resource

The *[firmware]* resource shall contain the child resources specified in table D.2-1.

Table D.2-1: Child resources of *[firmware]* resource

| Child Resources of *[firmware]* | Child Resource Type | Multiplicity | Description |
| --- | --- | --- | --- |
| *[variable]* | *<subscription>* | 0..n | See clause 9.6.8 where the type of this resource is described. |
| *[variable]* | *<semanticDescriptor>* | 0..n | See clause 9.6.30 |

The *[firmware]* resource shall contain the attributes specified in table D.2-2.

Table D.2-2: Attributes of *[firmware]* resource

| Attributes of  *[firmware]* | Multiplicity | RW/ RO/ WO | Description |
| --- | --- | --- | --- |
| *resourceType* | 1 | RO | See clause 9.6.1.3. |
| *resourceID* | 1 | RO | See clause 9.6.1.3. |
| *resourceName* | 1 | WO | See clause 9.6.1.3. |
| *parentID* | 1 | RO | See clause 9.6.1.3. |
| *expirationTime* | 1 | RW | See clause 9.6.1.3. |
| *accessControlPolicyIDs* | 0..1 (L) | RW | See clause 9.6.1.3. |
| *creationTime* | 1 | RO | See clause 9.6.1.3. |
| *lastModifiedTime* | 1 | RO | See clause 9.6.1.3. |
| *labels* | 0..1(L) | RW | See clause 9.6.1.3. |
| *mgmtDefinition* | 1 | WO | See clause 9.6.15. Has fixed value *"firmware"* to indicate the resource is for firmware management. |
| *objectIDs* | 0..1 (L) | RW | See clause 9.6.15. |
| *objectPaths* | 0..1 (L) | RW | See clause 9.6.15. |
| *description* | 0..1 | RW | See clause 9.6.15. |
| *version* | 1 | RW | The version of the firmware. This attribute is a specialization of *[objectAttribute]* attribute. |
| *name* | 1 | RW | The name of the firmware to be used on the device. This attribute is a specialization of *[objectAttribute]* attribute. |
| *URL* | 1 | RW | The URL from which the firmware image can be downloaded. This attribute is a specialization of *[objectAttribute]* attribute. |
| *update* | 1 | RW | The action that downloads and installs a new firmware in a single operation. The action is triggered by assigning value "TRUE" to this attribute. This attribute is a specialization of *[objectAttribute]* attribute. |
| *updateStatus* | 1 | RW | Indicates the status of the update. This attribute is a specialization of *[objectAttribute]* attribute. |

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

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

# D.7 Resource *battery*

The *[battery]* resource is used to share information regarding the battery. The *[battery]* resource is a specialization of the *<mgmtObj>* resource.



Figure D.7-1: Structure of *[battery]* resource

The *[battery]* resource shall contain the child resources specified in table D.7-1.

Table D.7-1: Child resources of *[battery]* resource

| Child Resources of *[battery]* | Child Resource Type | Multiplicity | Description |
| --- | --- | --- | --- |
| *[variable]* | *<subscription>* | 0..n | See clause 9.6.8 where the type of this resource is described. |
| *[variable]* | *<semanticDescriptor>* | 0..n | See clause 9.6.30 |

The *[battery]* resource shall contain the attributes specified in table D.7-2.

Table D.7-2: Attributes of *[battery]* resource

| Attributes of  *[battery]* | Multiplicity | RW/  RO/  WO | Description |
| --- | --- | --- | --- |
| *resourceType* | 1 | RO | See clause 9.6.1.3. |
| *resourceID* | 1 | RO | See clause 9.6.1.3. |
| *resourceName* | 1 | WO | See clause 9.6.1.3. |
| *parentID* | 1 | RO | See clause 9.6.1.3. |
| *expirationTime* | 1 | RW | See clause 9.6.1.3. |
| *accessControlPolicyIDs* | 0..1 (L) | RW | See clause 9.6.1.3. |
| *creationTime* | 1 | RO | See clause 9.6.1.3. |
| *lastModifiedTime* | 1 | RO | See clause 9.6.1.3. |
| *labels* | 0..1(L) | RW | See clause 9.6.1.3. |
| *mgmtDefinition* | 1 | WO | See clause 9.6.15. This attribute shall have the fixed value *"battery"*. |
| *objectIDs* | 0..1 (L) | RW | See clause 9.6.15. |
| *objectPaths* | 0..1 (L) | RW | See clause 9.6.15. |
| *description* | 0..1 | RW | See clause 9.6.15. |
| *batteryLevel* | 1 | RW | The current battery level. This attribute is a specialization of *[objectAttribute]* attribute. |
| *batteryStatus* | 1 | RW | Indicates the status of the battery. This attribute is a specialization of *[objectAttribute]* attribute. |

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

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 only include a proposal to change only 3 tables. Includes any changes to references, definitions, and acronyms in the same deliverable?
* 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 sections need not show surrounding clauses as long as the proposed section number clearly shows where the new section 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.?