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| CHANGE REQUEST | |
| Meeting ID:\* | [PRO 31](http://member.onem2m.org/Application/Meeting/updateMeeting/?meetingId=1145&view=true) |
| Source:\* | Poornima, C-DOT, [poornima@cdot.in](mailto:poornima@cdot.in)  Giribabu Naik Moode, C-DOT, [moode@cdot.in](mailto:moode@cdot.in) |
| Date:\* | 2017-08-02 |
| Reason for Change/s:\* | See the introduction |
| CR against: Release\* | Release 3 |
| CR against: WI\* | Active <Work Item number>  MNT maintenance / < Work Item number(optional)>  Is this a mirror CR? Yes  No  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 v3.3.0 |
| Clauses \* | D.8 |
| 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 |
| 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  NO  This CR may break backwards compatibility with the last approved version of the TS? YES  NO |
| Template Version: January 2017 (Do not modify) | |

**oneM2M Notice**

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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

The CR proposes changes in [deviceInfo] <mgmtObj> resource.

First change is for missing attributes in TS-0004 w.r.t TS-0001 as highlighted below:

Also there are some attributes for which RW/WO/RO is not consistent w.r.t TS-0001 as highlighted below

Model and deviceType attributes can be updated in TS-0004 as they are of type “O” in update request optionalitiy. But as per TS-0001,these are RO attributes. So, these attributes should have “NP” in update request optionalitiy.

Table D.8-2: Attributes of *[deviceInfo]* resource

| Attributes of *[deviceInfo]* | 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 *"deviceInfo"*. |
| *objectIDs* | 0..1 (L) | WO | See clause 9.6.15. |
| *objectPaths* | 0..1 (L) | WO | See clause 9.6.15. |
| *description* | 0..1 | RW | See clause 9.6.15. |
| *deviceLabel* | 1 | RO | Unique device label assigned by the manufacturer. The uniqueness may be global or only valid within a certain domain (e.g. vendor-wise or for a certain *deviceType*). This attribute is a specialization of *[objectAttribute]* attribute. It’s typically used as e.g. device serial number. |
| *manufacturer* | 1 | RO | The name/identifier of the device manufacturer. This attribute is a specialization of *[objectAttribute]* attribute. |
| *manufacturerDetailsLink* | 0..1 | RO | URL to manufacturer's website. This attribute is a specialization of *[objectAttribute]* attribute. |
| *manufacturingDate* | 0..1 | RO | Manufacturing date of device. This attribute is a specialization of *[objectAttribute]* attribute. |
| *model* | 1 | RO | The name/identifier of the device mode assigned by the manufacturer. This attribute is a specialization of *[objectAttribute]* attribute. |
| *subModel* | 0..1 | RO | Device sub-model name. This attribute is a specialization of *[objectAttribute]* attribute. |
| *deviceType* | 1 | RO | The type (e.g. cell phone, photo frame, smart meter) or product class (e.g. X-series) of the device. This attribute is a specialization of *[objectAttribute]* attribute. |
| *deviceName* | 0..1 | RO | Device name. This attribute is a specialization of *[objectAttribute]* attribute. |
| *fwVersion* | 0..1 | RO | The firmware version of the device (see note). |
| *swVersion* | 0..1 | RO | The software version of the device. This attribute is a specialization of *[objectAttribute]* attribute. |
| *hwVersion* | 0..1 | RO | The hardware version of the device. This attribute is a specialization of *[objectAttribute]* attribute. |
| *osVersion* | 0..1 | RO | Version of the operating system (defined by manufacturer). This attribute is a specialization of *[objectAttribute]* attribute. |
| *country* | 0..1 | RO | Country code of the device. It could be manufacturing country, deployment country or procurement country. This attribute is a specialization of [objectAttribute] attribute. |
| *location* | 0..1 | RO | Location where the device is installed. It may be configured via the user interface provided by the ‘presentationURL' property or any other means. This attribute is a specialization of [objectAttribute] attribute. |
| *systemTime* | 0..1 | RO | Reference time for the device. This attribute is a specialization of [objectAttribute] attribute. |
| *supportURL* | 0..1 | RO | URL that points to product support information of the device. This attribute is a specialization of [objectAttribute] attribute. |
| *presentationURL* | 0..1 | RO | To quote UPnP: "the control point can retrieve a page from this URL, load the page into a web browser, and depending on the capabilities of the page, allow a user to control the device and/or view device status. The degree to which each of these can be accomplished depends on the specific capabilities of the presentation page and device". This attribute is a specialization of [objectAttribute] attribute. |
| NOTE: If the device only supports one kind of Software this is identical to *swVersion*. This attribute is a specialization of *[objectAttribute]* attribute. | | | |

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

1. 1. Resource [deviceInfo]
      1. Introduction

The resource [deviceInfo] is used to provide information regarding the device.

The detailed description of the [deviceInfo] resource can be found in clause D.8 of oneM2M TS-0001 [6].

Table D.8.1‑1: Data Type Definition of [deviceInfo]

|  |  |  |
| --- | --- | --- |
| Data Type ID | File Name | Note |
| deviceInfo,  deviceInfoAnnc | CDT-deviceInfo-v3\_3\_0.xsd |  |

Table D.8.1‑2: Resource specific attributes of [deviceInfo]

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Attribute Name | Request Optionality | | Data Type | Default Value and Constraints |
| Create | Update |
| mgmtDefinition | M | NP | See clause 7.4.15 | 1007 (deviceInfo) |
| objectIDs | O | NP | See clause 7.4.15 |  |
| objectPaths | O | NP | See clause 7.4.15 |  |
| description | O | O | See clause 7.4.15 |  |
| deviceLabel | M | O | xs:string |  |
| manufacturer | M | O | xs:string |  |
| manufacturerDetailsLink | O | O | xs:string |  |
| manufacturingDate | O | NP | m2m:timestamp |  |
| model | M | NP | xs:string |  |
| subModel | O | NP | xs:string |  |
| deviceType | M | NP | xs:string |  |
| deviceName | O | NP | xs:string |  |
| fwVersion | M | O | xs:string |  |
| swVersion | M | O | xs:string |  |
| hwVersion | M | O | xs:string |  |
| osVersion | O | O | xs:string |  |
| country | O | O | xs:string |  |
| location | O | O | xs:string |  |
| systemTime | O | O | m2m:timestamp |  |
| supportURL | O | O | xs:anyURI |  |
| presentationURL | O | O | xs:anyURI |  |

### -----------------------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 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.?