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| CHANGE REQUEST |
| Meeting ID:\* | ARC/ MAS |
| Source:\* | NTT, NTT DOCOMO |
| Date:\* | 2017-07-10 |
| Contact:\* | Kei Harada(harada.kei@lab.ntt.co.jp), NTT,Hiroyuki Maeomichi(maeomichi.hiroyuki@lab.ntt.co.jp), NTT,Takashi Yoshikawa(yoshikawatak@nttdocomo.com), NTT DOCOMO |
| Reason for Change/s:\* | To change the deviceLabel description to accept the key-value style |
| CR against: Release\* | R3 |
| CR against: WI\* | [x]  Active <WI-0056> [ ]  MNT maintenance / < 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 V3.6.0 |
| Clauses \* | D.8 |
| Type of change: \* | [ ]  Editorial change[ ]  Bug Fix or Correction[ ]  Change to existing feature or functionality[x]  New feature or functionalityOnly ONE of the above shall be ticked |
| Impacted other TS/TR(s) | TS-0023 |
| 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 [ ]  NO [x]  |
| 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

This contribution proposed to change the deviceLabel description to accept the key-value style.

There are proposals about the separator we should use and the character set at the head of key-value list to help the parser.

R01: Add the sentence about URN formats and change the example.

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

# D.8 Resource *deviceInfo*

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



Figure D.8-1: Structure of *[deviceInfo]* resource

The *[deviceInfo]* resource shall contain the child resources specified in table D.8-1.

Table D.8-1: Child resources of *[deviceInfo]* resource

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

The *[deviceInfo]* resource shall contain the attributes specified in table D.8-2.

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) | 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. |
| *deviceLabel* | 1 | RO | Unique device label assigned by the manufacturer. This attribute is a specialization of *[objectAttribute]* attribute.The value of the attribute typically exposes the device’s serial number that is specific to a manufacturer and possibly further restricted within the manufacturer by a *deviceType* or model. This attribute shall be formatted as either single value-only string or a string format that contains a list of key-value pairs.When this attribute contains a list of key-value pairs, the list of key-value pairs is identified by a “|”(vertical line) character as the first character in the string. Within the list of key-value pairs, each key and value shall be separated by “:”(colon) and each pairs shall be separated by “ (SPACE(U+0020))”.An example for the key-value string about OMA DWAPI is “|systemID:0123 serviceID:xyz”.When using reserved characters (e.g., SPACE, “:”, “%”, or “|”) within a key or value element, the reserved characters are escaped by identifying the ascii value of the character with a percent escape character preceeding the ascii value.For example if the previous examples systemID key’s value included a SPACE character the string is represented as “|systemID:01%2023 serviceID:xyz”.It is also possible to use a URN scheme to represent multiple key/value pairs. When using URNs the URN values are defined as a single value-only string. |
| *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. |

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