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| CHANGE REQUEST |
| Meeting ID:\* | RDM 41 |
| Source:\* | Leila Le Brun, Orange (leila.lebrun@orange.com); Cyrille Barreau (cyrille.bareau@orange.com) |
| Date:\* | 2019-07-05 |
| Reason for Change/s:\* | To add unit to temperatureAlarm DataPoint  |
| CR against: Release\* | Rel-4 |
| 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)[x]  STE Small Technical Enhancements / < Work Item number (optional)>Only ONE of the above shall be ticked |
| CR against: TS/TR\* | TS-0023 v4.1.0 |
| Clauses \* | TS-0023 clause 5.3.1.88, clause 5.3.87 and new clause 5.6.38 |
| 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 |
| Other TS/TR(s) impacted | <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 [ ]  NO [x]  |
| Template Version: January 2019 (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.

If this is a correction, and the change applies to previous releases, a separate “mirror CR” should be posted at the same time as 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. Include any changes to references, definitions, and abbreviations in the same deliverable.

Follow the drafting rules.

All pictures must be editable.

Check spelling and grammar.

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 proposed new clause is 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 the 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

Currently there is no unit for the *tempretrureAlarm* Module Class. It means that the temperature can be only one unit (Celsius for example). Adding unit will allow to cover the devices which provide temperature in the temperatureAlarm in Farenheit or in Celsius.

Note that *temperature* Module Class contains already *unit* parameter, therefore the only change for *temperature* Module Class consist in changing the data type of *unit* parameter putting it as enum .

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

#### temperature

This ModuleClass provides capabilities to represent the current temperature and target temperature of devices such as an air conditioner, refrigerator, oven etc.

Table 5.3.1.87-1: DataPoints of temperature ModuleClass

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Name | Type | R/W | Optional | Unit | Documentation |
| currentTemperature | xs:float | R | false |  | The current temperature. |
| targetTemperature | xs:float | RW | true |  | The desired temperature to reach. |
| unit | hd:enumTemperatureUnit | RW | true | C or F or K | Default value is ‘C’ |
| minValue | xs:float | R | true |  | Minimum value of “targetTemperature”. |
| maxValue | xs:float | R | true |  | Maximum value of “targetTemperature”. |
| stepValue | xs:float | R | true |  | Step value allowed for “targetTemperature”. |

**-----------------------End of change 1------------------------------------------**

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

#### temperatureAlarm

This ModuleClass provides the capabilities to indicate the detection of abnormal temperatures and raises an alarm if the triggering criterion is met.

Table 5.3.1.88-1: DataPoints of temperatureAlarm ModuleClass

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Name | Type | R/W | Optional | Unit | Documentation |
| alarm | xs:boolean | R | false |  | This data point indicates the status of detection of an abnormal temperature. “True” indicates an abnormal temperature, “False” indicates a normal temperature. |
| unit | hd:enumTemperatureUnit | RW | true | C or F or K | Default value is ‘C’ |
| temperature | xs:float | R | true | Defined in the datapoint ‘unit’ | To report the value of the temperature.  |
| temperatureThreshhold | xs:integer | RW | true | Defined in the datapoint ‘unit’ | The threshhold to trigger the alarm. |

**-----------------------End of change 2------------------------------------------**

**-----------------------Start of change 3------------------------------------------**

### 5.6.38 hd:enumTemperatureUnit

Used for the “unit” data point related to “temperature” and “temperatureAlarm” ModuleClass which contains temperature, indicating the units of the temperature.

Table 5.6.38‑1: Interpretation of hd:enumWaterFlowStrength

|  |  |  |
| --- | --- | --- |
| Value | Interpretation | Note |
| 1 | C | Celsius |
| 2 | F | Farenheit |
| 3 | K | Kelvin |
| NOTE: See clause 5.3.1.88 "temperatureAlarm" and clause 5.3.1.87 “temperature”. |

**-----------------------End of change 3------------------------------------------**