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| CHANGE REQUEST |
| Meeting ID:\* | RDM 51 |
| Source:\* | Bob Flynn (Exacta GSS); bob.flynn@exactagss.com |
| Date:\* | 29 Nov 2021 |
| Reason for Change/s:\* | Issues identified in TDE  |
| CR against: Release\* | Rel-4 |
| CR against: WI\* | [x]  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-0023 v4.8.0 |
| 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 |
| Other TS/TR(s) impacted | None |
| 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 [ ]  |
| Template Version: January 2019 (do not modify) |

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# Introduction

During preparation of test purposes for TDE, , the following issues were identified. Change 1

1. Resource mapping for Action, requires multiple schema definitions:
	1. Rule: “org.onem2m.[domain].action.[action name]”, where [domain] is one of the following names: “agriculture”, “city”, “common”, “health”, “home”, “industry”, “railway”, “vehicular” and “management”. The name is chosen according to the domain in which the action is defined.
	2. Since actions can appear in more than a single domain, e.g. binarySwitch, it is required to have duplicated schema definitions
	3. Proposal: Change the rule to eliminate [domain] from the schema definition:

Rule: “org.onem2m.[domain].action.[action name]”, where [domain] is one of the following names: “agriculture”, “city”, “common”, “health”, “home”, “industry”, “railway”, “vehicular” and “management”. The name is chosen according to the domain in which the action is defined.

1. The audioVolume module class has actions for “upVolume” and “downVolume”. Should there be a “mute” action? Change 2
2. The table caption for deviceHumidifier is not correct. Change 3
3. Propose to add a “test” action to smokeSensor moduleClass. Change 4
4. Propose to reuse actions when possible, Change TBD
	1. televisionChannel module has actions called “upChannel” and “downChannel”, which could reuse “incrementNumberValue” and “decrementNumberValue”.
	2. Timer module has actions “activateClockTimer” and “deactivateClockTimer” which could be refactored to use “start” and “stop” and be used in several modules
5. dmFirmware module uses “toggle” action, which has the same name as used in binarySwitch, but with different behavior. Propose to align the behaviors. Change TBD
6. There are multiple forms of “reset” which can be refactored: rainGauge, textMessage, numberValue, Change TBD

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

### 6.4.4 Actions

Depending on the domain, the containerDefinition attribute of specializations for actions shall have the values

that comply with the following rule.

* Rule: “org.onem2m.action.[action name]”.

For example, the containerDefinition attribute of the specialization for “activateClockTimer” action in the “timer” module class shall be “org.onem2m.action.activateClocktimer”, the containerDefinition attribute of the specialization for the “activate” action of the “dmSoftware” module class shall be “org.onem2m.action.activate”.

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

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

## audioVolume

This ModuleClass provides capabilities to control and monitor volume

Table 5.3.1.8-1: Actions of audioVolume

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Return Type | Name | Argument | Optional | Documentation |
| none | upVolume | none | true | Increase the volume by the amount of the stepValue up to the maxValue. |
| none | downVolume | none | true | Decrease the volume by the amount of the stepValue down to 0. |
| none | Mute | None | True | Set the volume to 0. |

Table 5.3.1.8-2: DataPoints of audioVolume

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Name | Type | R/W | Optional | Unit | Documentation |
| volumePercentage | xs:integer | RW | false |  | The rounded percentage of the current volume in the range of [0, maxValue]. 0 percentage shall mean no sound produced. |
| stepValue | xs:integer | R | true |  | Step value used by the “UpVolume” and “DownVolume” actions. |
| maxValue | xs:integer | R | true |  | Maximum value allowed for Volume. maxValue is 100 by default if “maxValue” is not provided. |
| muteEnabled | xs:boolean | RW | false |  | The current status of the mute enablement. "True" indicates enabled (that is, no sound), and "False" indicates not enabled (that is, sound is played). |

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

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

##  deviceHumidifier

A humidifier is a device that is used to monitor or control the state of a humidifying appliance.

Table 5.5.4.16-1: Modules of deviceHumidifier Device model

|  |  |  |  |
| --- | --- | --- | --- |
| Module Instance Name | Module Class Name | Multiplicity | Description |
| binarySwitch | binarySwitch | 1 | See clause 5.3.1.12. |

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

### -----------------------Start of change 4-------------------------------------------

#### smokeSensor

This ModuleClass provides the capabilities to indicate the detection of smoke and raising an alarm if the triggering criterion is met.

Table 5.3.1.82-1:: Actions of smokeSensor ModuleClass

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Return Type | Name | Argument | Optional | Documentation |
| none | mute | none | true | Mute the smoke sensor alarm. |
| none | test | none | true | Turn on the alarm |

Table 5.3.1.82-2: DataPoints of smokeSensor ModuleClass

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Name | Type | R-W | Optional | Unit | Documentation |
| alarm | xs:boolean | R | false |  | The alarm is indicated as follows:“True” indicates that smoke has been detected, “False” indicates a normal status, that means that smoke is not detected. |
| detectedTime | m2m:timestamp | RW | true |  | The date and time the smoke is detected. |
| smokeThreshhold | xs:integer | RW | true | ppm | The threshhold to trigger the alarm.  |
| currentValue | xs:integer | R | true |  | The current data value of the smoke sensor. |
| sensorFault | xs:boolean | R | true |  | “True” indicates the sensor fault status of smoke sensor. “False” indicates the sensor fault of smoke sensor has beenis eliminated. |
| lowVoltage | xs:boolean | R | true |  | “True” indicates the low voltage status of smoke sensor. “False” indicates the low voltage alarm of smoke sensor has beenis eliminated. |
| dismantled | xs:boolean | R | true |  | “True” indicates the smoke sensor is dismantled. “False” indicates the dismantled alarm of smoke sensor has beenis eliminated. |
| powerOn | xs:boolean | R | true |  | “True” indicates the smoke sensor is powered on. “False” is invalid. |

### -----------------------End of change 4-------------------------------------------

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

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