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| CHANGE REQUEST | |
| Meeting ID:\* | RDM#48 |
| Source:\* | Cyrille Bareau, Orange, [cyrille.bareau@orange.com](mailto:cyrille.bareau@orange.com)  Marianne Mohali, Orange, [marianne.mohali@orange.com](mailto:marianne.mohali@orange.com) |
| Date:\* | 2020-12-14 |
| Reason for Change/s:\* | See the introduction. |
| CR against: Release\* | Release 4 |
| CR against: WI\* | Active WI-0084  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 4.6.1 |
| Clauses \* | Clauses 5.2.2, 5.8.1, 6.4, 6.5.1 |
| 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 |
| Other TS/TR(s) impacted | N/A |
| 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 2020 (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

This CR fills a gap for the entities (device, subdevices, modules, actions) defined in the Device Management clause: these were not assigned a specific domain. We therefore introduce a new domain, called “management”, for these entities.

### \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* Start of change 1 \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

### 5.2.2 Description rules for Module Classes and Device models

* Rule 4: Definition of the Domain:
* The Domains are specified as “org.onem2m.[domain]”, 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 element is defined.
* The sub-domains for Devices, SubDevices, ModuleClasses and Actions shall be specified as "org.onem2m.[domain].device", “org.onem2m.[domain].subdevice”, “org.onem2m.[domain].moduleclass”, and “org.onem2m.[domain].action” respectively.

### \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* End of change 1 \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

### \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* Start of change 2 \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

## Device Management

### Introduction

The entities that are specified in this section allow performing classical Device Management (DM) functions: rebooting a device, upgrading it, reading / setting its configuration, monitoring its logs, checking its memory or battery status, managing its firmware or its software modules, etc. They belong to the “management” domain.

In the case of a NoDN, it is the IPE in charge of exposing the device to oneM2M that creates / implements these modules. It may rely on external Device Management techniques like e.g. LwM2M (from OMA) or USP (from BBF), or any other technique, proprietary or standardized, that allows performing at least some DM functions, for instance a reboot.

### \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* End of change 2 \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

### \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* Start of change 3 \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

## containerDefinition values

### Introduction

Each specialization has a containerDefinition attribute which can be used as a unique identifier and contains the information of the resource. In this clause, the detailed values of containerDefinition attributes in every specializations for the harmonized information model are given.

### Device models

Depending on the domain, the containerDefinition attribute of specializations for device models shall have the values that comply with the following rule.

* Rule: “org.onem2m.[domain].device.[device 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 device is defined.

For example, the containerDefinition attribute of the specialization for the “deviceAirConditioner” device of the “home” domain shall be “org.onem2m.home.device.deviceAirConditioner” the containerDefinition attribute of the specialization for the “flexNode” of the “management” domain shall be “org.onem2m.management.device.flexNode”.

### ModuleClasses

Depending on the domain, the containerDefinition attribute of specializations for module classes shall have the values that comply with the following rule.

* Rule: “org.onem2m.[domain].moduleclass.[moduleclass 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 module class is defined.

For example, the containerDefinition attribute of the specialization for the “alarmSpeaker” module class of the “common” domain shall be “org.onem2m.common.moduleclass.alarmSpeaker”, the containerDefinition attribute of the specialization for the “dmAgent” module class of the “management” domain shall be “org.onem2m.management.moduleclass.dmAgent”.

### 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.[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.

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

### 6.4.5 SubDevices

Depending on the domain, the containerDefinition attribute of specializations for sub-devices shall have the values that comply with the following rule.

- Rule: “org.onem2m.[domain].subdevice.[subDevice 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 sub-device is defined.

For example, the containerDefinition attribute of specialization for “subDevicePowerOutlet” of the “common” domain shall be “org.onem2m.common.subdevice.subDevicePowerOutlet”, the containerDefinition attribute of the specialization for the “dmAreaNwkInfo” of the “management” domain shall be “org.onem2m.management.subdevice.dmAreaNwkInfo”.

### \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* End of change 3 \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

### \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* Start of change 4 \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

### Introduction

The present clause specifies how to name the files which define data types in XSD for Device and SubDevice models, ModuleClasss, and Actions.

The following table defines the short names for XML name spaces and file name prefix:

|  |  |  |  |
| --- | --- | --- | --- |
| **Domain** | **XML Name Space** | **Domain Prefix** | **URI** |
| Agriculture | xmlns:agd | AGD | http://www.onem2m.org/xml/protocols/agriculturedomain |
| City | xmlns:cid | CID | http://www.onem2m.org/xml/protocols/citydomain |
| Common | xmlns:cod | COD | http://www.onem2m.org/xml/protocols/commondomain |
| Health | xmlns:hed | HED | http://www.onem2m.org/xml/protocols/healthdomain |
| Home | xmlns:hod | HOD | http://www.onem2m.org/xml/protocols/homedomain |
| Industry | xmlns:ind | IND | http://www.onem2m.org/xml/protocols/industrydomain |
| Management | xmlns:mad | MAD | http://www.onem2m.org/xml/protocols/managementdomain |
| Railway | xmlns:rad | RAD | http://www.onem2m.org/xml/protocols/railwaydomain |
| Vehicular | xmlns:ved | VED | http://www.onem2m.org/xml/protocols/vehiculardomain |

### \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* End of change 4 \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*