

Work Item	Work Item
Work Item Title:	SDT based Information Model and Mapping for Vertical Industries - SIMVI
Document Number	WI-0104 V0_0_1
Supporting Members or Partner type 2	Hansung University, Deutsche Telekom, Orange, Exacta GSS
Date:	2021-03-05
Abstract:	The purpose of this Work Item is to enable the continuation of contributions of Information Models including ModuleClasses and Device models from various domains for TS-0023.
Template Version:23 February 2015 (Do not modify)	Template Version:23 February 2015 (Do not modify)

**oneM2M Copyright statement** No part may be reproduced except as authorized by written permission. The copyright and the foregoing restriction extend to reproduction in all media. All rights reserved.

## 1 Title (Acronym)

SDT based Information Model and Mapping for Vertical Industries (SIMVI).

## 2 Justification

Previous contributions to the Information Model of TS-0023 were done under the umbrella of WI-0084. Through the WI, numbers of contributions submitted, many vertical domains and their information models are suggested, discussed and added. To continued this in Release 5, a new Work Item is needed. Moreover, additional ModuleClasses and Device models are discussed and developed to cover use cases of the existed domains and beyond. (e.g. Smart City, Smart Railway, Smart Energy, SmartAutomotive, Urban Air Mobility, etc.)

## 3 Intended Output

**Tick all the appropriate cases**

Check	Case
X	Change request(s) to existing Technical Specification(s) Change request(s) to existing Technical Reports(s)

Check	Case
	New Normative Technical Specifications(s)
	New Permanent Technical Reports(s)
	New Temporary Technical Reports(s)

## 4 Impact

### 4.1 oneM2M Work Items

It is expected that contributions will have impact on the following Work Items:

- WIs with contributions to TS-0023 may be impacted by this work item.
- WI-0081 Smart Device Template 4.0

## 5 Scope

The purpose of the Work Item is to enable the continuation of the work done in the previous WI-0017 Home Domain Enablement and WI-0084 SIMVI. This includes:

- Enable the examination and discussion of further existed domain information models in TS-0023.
- Enable the mapping of contributed information models to oneM2M ModuleClasses and Device models via the Smart Device Template.
- Provide the basis for further discussions to improve existing ModuleClass and Device specifications in TS-0023.
- Enhancing the available catalog of ModuleClasses descriptions and Device models.
- Allow to continue to specify additional ModuleClasses and Device models needed in other vertical domains (e.g. Smart City, Metering, Automotive, Railway, etc).
- Introducing and mapping SDT4 ProductClass to TS-0023

This Work Item will provide normative parts, via CRs to TS-0023. The release 5 version of TS-0023 will inherit the release 4 content.

## 6 Schedule and impacted specifications

Provide the schedule of tasks to be performed;

### 6.1 New Specifications (if any)

Document Type	Document Number	Document Title	Schedule				Lead WG	Impacted WGs	Comments
			Schedule (TP No.) Start	Change Control	Schedule (TP No.) Freeze	Schedule (TP No.) Approval			
TS			TP n	TP x	TP y	TP z			
TS/ TR									

\* Optional for first versions (i.e. before it will be assigned by the secretariat)

## 6.2 CRs to existing specifications (if any)

Impacted TS/TR	CR number (when known)	Subject of the CR	Approved at plenary#	Impacted WGs	Comments
TS-0023		CRs on in- formation model updates or enhance- ments of existed domains	TP 56	WG1	
TS-0023		CRs on Module- Classes and Device descrip- tions for other domains	TP 56	WG1	

## 7 Work Item Rapporteur(s)

Andrew Min-gyu Han (Hansung University, andyhan@hansung.ac.kr), Andreas Kraft (Deutsche Telekom, andreas.kraft@t-systems.com), Marianne Mohali (Orange, marianne.mohali@orange.com)

## 8 History

Document history	Document history	Document history
V0.0.1	2021-02-09	Initial proposal as TP-2021-0031
V0.0.1	2021-03-05	Uploaded as a permanent document following approval of TP-2021-0031