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USE CASE Templates derived from IEC 62559-2

Version of IoT Use Case Template: v 0.1

Use cases can be displayed in a brief overview table (single row per use case). It can be used to scope the full list of possible use cases as tabular summary. Then, for instance, the most important use cases can be identified and expanded using either the short or long template.

<i>Name of use case</i>	<i>Short description</i>	<i>Actors</i>	<i>General remarks</i>
First use case			
Next use case			
...			

Short template version and use case overview table

Only the following fields are mandatory covering the minimum short version of a use case which is mainly used for a first version of a new use case:

- name of use case,
- author,
- date,
- narrative,
- actors (entities that communicate and interact, can include people, software applications, systems, databases, IoT system etc)

Fuller Use Case template

domain

area of knowledge or activity characterized by a set of concepts and terminology understood by the practitioners in that area

role

role played by an actor in interaction with the system under discussion

scenario

a possible sequence of interactions

1 Description of the Use Case

1.1 Name of use case

Use case identification		
ID	Area/ Domain(s)/ Zone(s)	Name of use case

1.2 Version management

Version management				
Version No.	Date	Name of author(s)	Changes	Approval status

1.3 Scope and objectives of use case

Scope and objectives of use case	
Scope	
Objective(s)	
Related business case(s)	

1.4 Narrative of use case

Narrative of use case	
Short description	
Complete description	

1.5 Key performance indicators (KPI)

Key performance indicators			
ID	Name	Description	Reference to mentioned use case objectives

1.6 Use case conditions

Use case conditions	
Assumptions	

Prerequisites

1.7 Further information to the use case for classification/mapping

Classification information
Relation to other use cases
Level of depth
Prioritisation
Generic, regional or national relation
Nature of the use case
Further keywords for classification

1.8 General remarks

General remarks

2 Diagrams of use case

Diagram(s) of use case

3 Technical details

3.1 Actors

Actors			
Grouping		Group description	
Actor name	Actor type	Actor description	Further information specific to this use case

3.2 References

References						
No.	References type	Reference	Status	Impact on use case	Originator/organisation	Link

4 Step by step analysis of use case

4.1 Overview of scenarios

Scenario conditions						
No.	Scenario name	Scenario description	Primary actor	Triggering event	Pre-condition	Post-condition

4.2 Steps – Scenarios

Scenario								
Scenario name:		No. 1 – ...						
Step No.	Event	Name of process/activity	Description of process/activity	Service	Information producer (actor)	Information receiver (actor)	Information exchanged (IDs)	Requirement, R-IDs

5 Information exchanged

Information exchanged			
Information exchanged, ID	Name of information	Description of information exchanged	Requirement, R-IDs

6 Requirements (optional)

Requirements (optional)		
Categories ID	Category name for requirements	Category description
Requirement R-ID	Requirement name	Requirement description

7 Common terms and definitions

Common terms and definitions	
Term	Definition

8 Custom information (optional)

Custom information (optional)		
Key	Value	Refers to section

Annex A – Domains (tbd further?)

domain

area of knowledge or activity characterized by a set of concepts and terminology understood by the practitioners in that area

Personal and Home

- Healthcare/Wellness
- Building control
- Smart Metering
- Entertainment and gaming

In-vehicle

Smart Cities/Communities

Security

- Surveillance
- Emergency services
- Border control

Intelligent Transport infrastructure and logistics

- Road
- Rail
- Maritime
- Air

Environmental Monitoring

- Temperature, humidity,
- Pollution levels

Healthcare

Enterprise

- Supply Chain
- logistics

Utilities

- Water systems
- Power systems
- Drainage
- Sewage

Agriculture, Fishing, Forestry

Manufacturing and Process control