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.

|  |  |  |  |
| --- | --- | --- | --- |
| ***Name of use case*** | ***Short description*** | ***Actors*** | ***General remarks*** |
| 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

# 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)*** | ***Require-ment,  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