

**ISO/IEC JTC 1/WG 10**  
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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.

<b><i>Name of use case</i></b>	<b><i>Short description</i></b>	<b><i>Actors</i></b>	<b><i>General remarks</i></b>
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

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

### 1.2 Version management

<i>Version management</i>				
<i>Version No.</i>	<i>Date</i>	<i>Name of author(s)</i>	<i>Changes</i>	<i>Approval status</i>

### 1.3 Scope and objectives of use case

<i>Scope and objectives of use case</i>	
<i>Scope</i>	
<i>Objective(s)</i>	
<i>Related business case(s)</i>	

### 1.4 Narrative of use case

<i>Narrative of use case</i>
<i>Short description</i>
<i>Complete description</i>

### 1.5 Key performance indicators (KPI)

<i>Key performance indicators</i>			
<i>ID</i>	<i>Name</i>	<i>Description</i>	<i>Reference to mentioned use case objectives</i>

### 1.6 Use case conditions

<i>Use case conditions</i>
<i>Assumptions</i>

<b>Prerequisites</b>

### 1.7 Further information to the use case for classification/mapping

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

### 1.8 General remarks

<b>General remarks</b>

## 2 Diagrams of use case

<b>Diagram(s) of use case</b>

## 3 Technical details

### 3.1 Actors

<b>Actors</b>			
<b>Grouping</b>		<b>Group description</b>	
<b>Actor name</b>	<b>Actor type</b>	<b>Actor description</b>	<b>Further information specific to this use case</b>

### 3.2 References

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

## 4 Step by step analysis of use case

### 4.1 Overview of scenarios

<b>Scenario conditions</b>						
<b>No.</b>	<b>Scenario name</b>	<b>Scenario description</b>	<b>Primary actor</b>	<b>Triggering event</b>	<b>Pre-condition</b>	<b>Post-condition</b>

## 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