

Use-case description template

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Abstract

Please include an abstract of not more than 10 lines here.

The purpose of this template is to ease the preparation of detailed description of potential use scenarios for the FIRE facilities. Panlab/PII, OneLab/Onelab2 and Federica will be invited to provide example scenarios, with the objective to allow the representatives of the other domains in the Future Internet Assembly understand how to use the FIRE facilities.

Representatives of the other domains will be invited to respond with appropriate scenarios as well, with the objective to enable the providers of the FIRE facilities understand the future requirements of their “customers” allowing them to consider these in the deployment of the facilities.

Table of Contents

Table of Contents	2
1 Executive summary	3
2 Targeted users.....	4
3 Description	5
3.1 Interfacing with the user	5
3.2 Platform set up	5
3.3 Results acquisition	5
3.4 Charging	5
4 Expected impact	6
4.1 Research on the Future Internet	6
4.2 The market.....	6
4.3 Evolution of an independent entity.....	6

<Name of use-case>

1 Executive summary

(Provide an outline description of the use-case, maximum half page)

2 Targeted users

(In this section please provide information about the actors and stakeholders)

- A list of primary actors
List the Actor who's goal is being satisfied by this Use Case and has the primary interest in the outcome of this Use Case
- A list of supporting actors
List the Actors who have a supporting role in helping the Primary Actor achieve his or her goal (optional)
- A list of stakeholders and their interests
A list of the various entities who may not directly interact with the system but they may have an interest in the outcome of the use case. Identifying stakeholders and interests often helps in discovering hidden requirements which are not readily apparent or mentioned directly by the users during discussions.

Example

Indicate target users. Select one or more from the following list:

- SMEs
- Industry
- Academic users
- Operators
- Legal entities/authorities

Then further specify the user, e.g. Industry- network manufacturers or networking components manufacturers or terminal manufacturers, etc.

3 Description

Give a detailed description of the use-case taking into account the aspects indicated by the sub-sections below. Feel free to introduce additional sections in case there are additional aspects to be highlighted.

3.1 Interfacing with the user

Please provide information at least on the following:

- **Goal** – in the description of the use case a statement should be included about the business goal of the initiating actor. In the case of academic/scientific use the goal can be formulated as an objective to verify a scientific claim.
- **Actors** – List of actors involved in use case. Lists the actors involved in the use case. Optionally, an actor may be indicated as primary or supporting. Implicitly the system under discussion is also an actor, but is not listed separately.

3.2 Platform set up

Please provide information at least on the following:

- **Pre-conditions or assumptions** – Conditions that must be true for the use case to terminate successfully. Each assumption should be stated in a declarative manner, as a statement that evaluates to true or false. If an assumption is false then it is unspecified what the use case will do. The fewer assumptions that a use case has then the more robust it is.
- **Trigger** – The event that starts this use case.
- **Steps** – Interactions between the actors and the system that are necessary to achieve the goal. The steps should be presented as a sequence of interactions necessary to successfully meet the goal. The interactions between the system and the actors are structured into one or more steps which are expressed in natural language. A step completes when all its component interactions have completed. There may be concurrent steps.
- **Non-functional requirements** – Such requirements and related statements may include but are not limited to performance, reliability, fault tolerance, security, user interface etc. Each requirement should be expressed in natural language or an appropriate formalism.

3.3 Results acquisition

Please provide information at least on the following:

- **Post-conditions** – Statements concerning the result of the execution, namely conditions that express success or failure of a use case. Similarly to the pre-conditions, the post-conditions should be expressed in a declarative manner, allowing for a true/false evaluation.
 - **Success end condition** – The successful end condition of the use case where the primary actor's goal is met.
 - **Failure end condition** – The failure end condition of the use case if the primary actor's goal has not been met.
 - **Minimal Guarantee** – The guarantee or assurance that this use case provides to all actors and stakeholders to protect their interest regardless of whether the use case ends with success or failure.

3.4 Charging

Please provide information on the anticipated changing model if appropriate

4 Expected impact

Explain significance of the use-case and impact potential on

1. Research on the future Internet (FIRE, GENI...)
2. The future ICT and telecommunications market
3. The evolution of a facility in the form of an independent entity (maximum 1 page).

4.1 Research on the Future Internet

e.g. contribution to the FIRE initiative, etc.

4.2 The market

e.g. development of NGN networks and services evolution.

4.3 Evolution of an independent entity

e.g. how the use-case contributes to achieving self-sustainability of the facility, promoting attractiveness of the service offering toward large user groups, securing income, etc.