D4.3: Online knowledge base on lessons learned, solutions and user feedback report

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<td>Authors</td>
<td>Dejan Drajic, Srdjan Krco (DNET)</td>
</tr>
<tr>
<td>Reviewers</td>
<td>Nathalie Stembert (SD), Cesco Reale (AS), Kai Zhang (Martel)</td>
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EXECUTIVE SUMMARY

This deliverable is a result of the work done in the context of Task T4.3 Online knowledge base on lessons learned, solutions and user feedbacks. It represents a short description of the developed knowledge base. It will constitute the interactive part of the online platform. The knowledge base will be maintained and regularly updated in order to capture, mutualise and capitalise on experiences and lessons learned. At the end of the project, the knowledge base and online platform will be formally transferred to the IoT Forum who has agreed to maintain and update knowledge base.
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<td>AG</td>
<td>Activity Group</td>
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<td>CSA</td>
<td>Coordination and Support Action</td>
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<td>IoT</td>
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<td>LSP</td>
<td>Large Scale Pilot</td>
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<td>RIA</td>
<td>Research and Innovation Action</td>
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SECTION 1 - INTRODUCTION

Deliverable D4.3 summarizes the initial work carried out in Task T4.3 - Online knowledge base on lessons learned, solutions and user feedbacks.

This task is responsible to develop and manage an online knowledge base platform to collect lessons learned, solutions and user feedbacks. It will constitute the interactive part of the online platform. The prime objective of this task is to enable the community to share and mutualise lessons learned and to capitalise the acquired experience in order to support and accelerate the progress on the learning curve. At the end of the project, the platform will be then transferred to the IoT Forum to further develop it beyond the duration of the project.

We’ve evaluated several potential solutions (some custom made and open source solutions), and decided to set up a WiKi to serve as the basis for a knowledge base. The IoT European Large-Scale Pilots Programme Knowledge Base is a “wiki-alike” online encyclopaedia of articles on vital topics related to EU LSP pilots, conclusions, lessons learned, solutions and User feedbacks M3-M36. Activity Group (AG) communications will be used for coordination between the projects in order to collect all relevant materials like specific solutions, materials, lessons learned etc. The current version of the knowledge base is preliminary version, the tool is initially set-up, and in the coordination with the other projects the focus of the future work is on the creation and shaping of the content of the knowledge base.

In the next sections, the knowledge base is presented in more detail.
After evaluation of several potential solutions for development of the online knowledge base, we've concluded that an optimal solution (used extensively, free, has the required functionality) is to set up a Wiki to serve as the basis for a knowledge base under the u4iot domain.

The knowledge base is available at this URL: [http://knowledge-base.u4iot.eu/](http://knowledge-base.u4iot.eu/) [1].

![Figure 1: Knowledge base web portal home page](image)

The portal contains short descriptions of all involved projects and general information about the knowledge base. The 5 LSP projects (ACTIVAGE, MONICA, IoF2020, AUTOPILOT, SYNCHRONICITY) will maintain pages related to their projects.
In addition to project information, site contains a link to the IoT European Large-Scale Pilots Program home page. Updating and maintenance of the U4IoT specific information will be done by U4IoT project consortium, under the lead of DNET.

Knowledge base portal contains the following information:

- **Home** → the homepage of the knowledge base.
- **Help** → links to a manual with instructions on how to use the knowledge base.
- **IoT European Large-Scale Pilots Program** → links to the IoT European Large-Scale Pilots Program home page.
- **Login** → username & password input field for logging into the knowledge base.

There is also a SEARCH button that allows search of the knowledge base by specific criteria, defined by user.

By following the HELP link, you will get a detailed description about:

- How to become a **NEW USER**.
- How to **EDIT** the knowledge base.

**NEW USER:**

If a LSP partner wants to contribute to the IoT European Large-Scale Pilots Programme Knowledge Base the following steps have to be taken:

First, “a request to contribute” has to be send by email to the email address knowledge.base@u4iot.eu, with the request to access the Knowledge Base website. The email has to contain the following details:

**Email subject:** The IoT European Large-Scale Pilots Programme Projects – Knowledge Base request to edit

**Information in the email body:**

- Full name
- User name (a unique nickname that will be used when contributing to the knowledge base; bear in mind that this user name is not editable, and once it is chosen, it cannot be modified)
- Email address
- Point of interest: contribution / subject / category / project

After the request has been processed, email confirmation containing additional information and credentials will be send. Once a LSP partner
received this email from our administrator, they will be able to personalize the account by changing their password.

**EDITING:**

Every New User becomes an Editor and has the right to add and edit Posts and Categories. Please acknowledge that all Users (Editors) have the right to view, edit and delete posts from other Users.

Consequently, we (administrators of Knowledge base) advise to respect another Users’ work. Do not disrupt the community and the mission of the European Large-Scale Pilots Programme Knowledge Base. Collaborate in “good faith”.

**Figure 2 displays the instructions on how to publish and edit posts.**

![Figure 2: How to add a new post](image)

The procedure for adding or editing a post is as follows:

In the **Post section** choose the option **Add New**.

Each post has a: **Title** (1) and **Content Field** (3).

In the **Content Field** (with integrated Editor) text content, media and links can be added.
The **Add Media** button (2) allows to add media content directly into a post. Adding media content can also be done by using an URL of corresponding media. Media content can be: image, file, etc.

To save the post press the **Publish** button (5) on the right-hand side.

**Post Categories** (4) are related to the projects joined in The IoT European Large-Scale Pilots Programme. Main categories are named by the projects themselves.

These are the root categories for other, more specific themes related to the specific projects.

Each project Category can have its specific Subcategories (explained additionally in **Add Category** section).

A post related to all the European Large-Scale Pilot Projects, can be published in the Category **General**.

To make Post visible it is necessary to relate it to one of the **Categories (4)** listed. In case that the listed Categories don’t match the corresponding needs, a **New Category** (in the right sidebar) can be added and assigned to the post.

There is advised to assign posts to one **Category** only.

![Figure 3: Post Category](image-url)
A Post Category (4) can be added to a post by following these steps:

In Post section choose Categories.

Each Category has a Name (1), Slug (2), Parent Category (3), Description (4).

It is recommended to enter a Name and Slug (see figure 4 below).

![Figure 4: Filling in the post](image)

Subcategories / Add Category section

Categories have a hierarchy and can be assigned in the Parent Category field.

The Subcategory (Child Category) depends on the existing/created Parent Categories:

A Subcategory title must contain the name of the Parent Category with the specifically determined topic (for example: Parent Category: U4IoT; Subcategory: Privacy U4IoT).

To save the Category settings press the Add New Category button.
CONCLUSIONS

This document has provided background and a short description of the approach taken to create U4IoT online Knowledge base platform page. An overview of the design and the structure of the overall Knowledge base web portal are provided.
REFERENCES