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D5.4

SMART SANTANDER Initial Testbed Manual

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Abstract: This deliverable describes the initial testbed manual which is available at http://www.smartsantander.eu/index.php/wiki

Keyword list: Testbed Manual

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Acronyms and Abbreviations

PDF Portable Document Format

WSN Wireless Sensor Network

1. INTRODUCTION

The SmartSantander consortium decided to create the testbed manual (deliverable D5.4) in an online format. This document describes the reasons for this decision (see section 3) and the structure of the online manual (see section 4).

2. TARGET GROUP

The group targeted by the initial testbed manual is testbed users that wish to deploy their own sensor network applications on one of the SmartSantander testbeds. The manual therefore does not contain information about the internals and management of the testbeds. Users aiming to contribute to the testbeds infrastructure or wishing to set up own testbeds are referred to SmartSantander deliverables D2.1 [D2.1] and D3.1 [D3.1].

3. FORMAT OF THE MANUAL

The SmartSantander consortium decided to provide the testbed manual in the form of web pages. Compared to a static document (PDF, Word, ...), in the online format, it is easier to include changes and additions which will be immediately accessible to all testbed users.

The manual will evolve together with the testbed, and users always have the most up to date version available and do not need to refer to different testbed manual versions in several static documents.

Additionally a FAQ (Frequently Asked Questions) section has been created which will be populated by testbed users' questions and SmartSantander partners' answers. This process will be much faster than the distribution of updated physical documents. Online manuals have been used successfully in the projects WISEBED [WISEBED] and SENSEI [SENSEI].

4. STRUCTURE OF THE MANUAL

The following figure shows the structure of the initial testbed manual. The structure is created by web pages referencing each other. The main sections are available in the side bar too for direct access:

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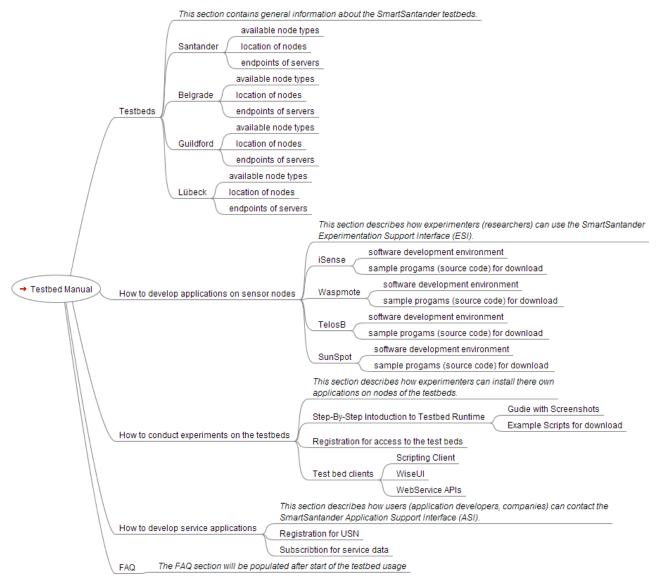


Figure 1 Structure of the initial testbed manual

The following figure shows a screenshot of the home page of the manual: SANTANDER ON FIRE **FUTURE INTERNET RESEARCH & EXPERIMENTATIO** light View Edit History Attach Print SmartSantander Recent Changes - Search Go Testbed Manual HomePage Introduction Testbeds Conduct Experiments SmartSantander Testbed Manual Application Development Welcome to the SmartSantander Testbed Manual! The Introduction provides an overview about the SmartSantander Services experimental facilities. If you need detailed information you find under Testbeds the description of all available testbeds, FAQ sensor node types and sensors. To run own sensor network applications on our testbeds please refer to Conduct Experiments a step-by-step introduction about how researchers can perform experiments on one of the SmartSantander **PmWiki** testbeds. If you are new to the world of sensor network programming please read Application Development here you find Basic Editing information about how to develop applications on the sensor nodes. It includes sample programs as source code. If you Documentation Index just need to consume data you can find under Services the description of the SmartSantander Application Support Interface (ASI). This interface provides services (sensor values) for people that do not want or need to develop their own sensor node applications but just consume sensor data to build applications on top of it. If you have a specific question please also have a look at our FAQ (Frequently asked questions). <u>Edit - History - Print - Recent Changes - Search</u> Page last modified on November 21, 2011, at 10:55 AM SURREY

Figure 2 Screenshot of the home page

5. TECHNICAL REALIZATION

The testbed manual is hosted in a PmWiki [PMWIKI]. This wiki has been made available at the project website http://www.smartsantander.eu/index.php/wiki. We chose a wiki because it is suited for fast direct editing which will help to keep the manual up to date (see also section 0). Another reason for choosing the "wiki format" is that it offers the possibility of inserting links to downloads (source code, binaries, etc.) and to other reference pages or manuals.

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6. REFERENCES

[D2.1] First cycle components design

[D3.1] Initial integration of existing components

[PMWIKI] http://www.pmwiki.org/wiki

[WISEBED] FP7 WISEBED, <u>www.wisebed.eu</u>

[SENSEI] FP7 SENSEI, D5.3 https://ncit-cluster.grid.pub.ro/trac/Sensei-WP5-Public

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