

SMART SANTANDER Final Testbed Manual

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

Keyword list: *Testbed Manual, Tutorial with video support*

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Table of Contents

ACRONYMS AND ABBREVIATIONS.....	4
1. INTRODUCTION.....	5
2. TARGET GROUP	5
3. FORMAT OF THE MANUAL	5
4. STRUCTURE OF THE MANUAL.....	5
5. TECHNICAL REALIZATION.....	9
6. REFERENCES.....	10

Acronyms and Abbreviations

API	Application Programming Interface
IDAS	Intelligence Data Advanced Solution
PDF	Portable Document Format
REST	Representational State Transfer
WSN	Wireless Sensor Network

1. INTRODUCTION

The SmartSantander consortium decided to create the testbed manual in an online format [<http://www.smartsantander.eu/index.php/wiki>]. Over the project, the wiki has been updated in order to contain the procedures for using the newly developed functionalities. With the aim of enhancing the description guidelines on how to use the testbed, the feedback of the different groups performing the experiments on top of SmartSantander has been taken into account.

This deliverable refers to the most up to date online version of the final testbed manual and represents a short description of it.

2. TARGET GROUP

The group targeted by the 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 D2.3 [D2.3] and D3.1 [D3.1].

3. FORMAT OF THE MANUAL

As it was previously mentioned, 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.

As the wiki evolves together with the testbed, users always have the most up to date version of the manual available without having to refer to different testbed manual versions in several static documents.

Reinforcing this objective, the wiki includes dynamic content like a slide show (<http://www.smartsantander.eu/downloads/Deliverables/smartsantander-tutorial.pdf>) and has embedded a link to a video tutorial (<http://youtu.be/xFwoThcDw4A>)

4. STRUCTURE OF THE MANUAL

With the aim of providing easier navigation to the users through the wiki web pages, the contents of the final online manual has been reorganized giving the document more structure regarding previous versions of the manual. Furthermore, new sections have been created; such web pages contain information provided by the second open call experimenters explaining how to interact with the components of the SmartSantander framework in order to run their experiments on top it.

This final version of the manual also updates the previous version of the manual enhancing some descriptions of several sections (web pages) and provides the procedures for using the newly developed functionalities that were not available when the previous version was generated D5.6 [D5.6]

The aim is that this version of the manual will be more tutorial in nature. In fact, the tutorial prepared for the SenZations summer school and even a video is available on the online manual.

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

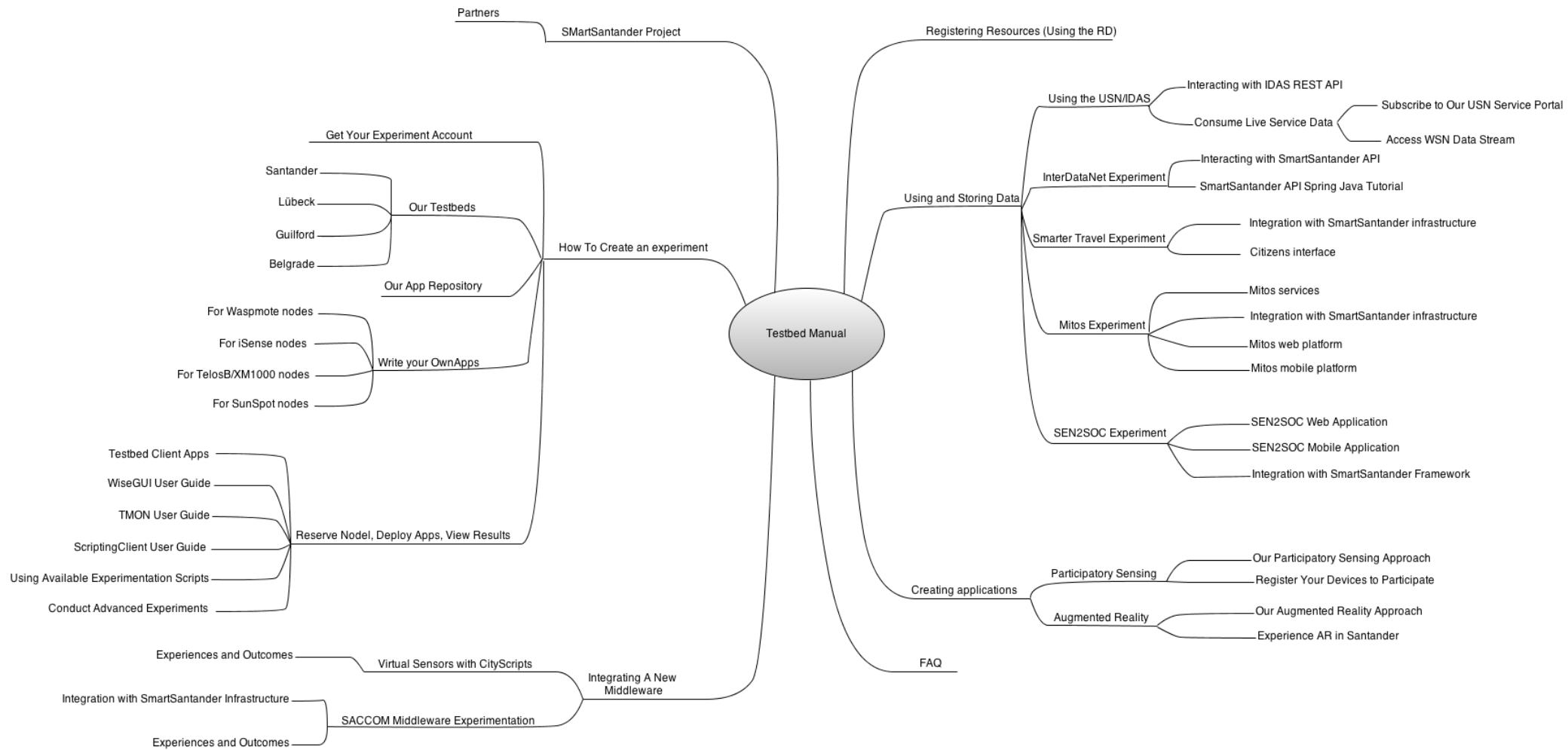


Figure 1 Structure of the testbed manual

The following figure shows a screenshot of the home page of the final testbed manual:



Figure 2 Screenshot of <http://www.smartsantander.eu/index.php/wiki>

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 other reference pages or manuals.

6. REFERENCES

- [D2.3] “Final component design”- SmartSantander Deliverable, April 2013
- [D3.1] “Initial integration of existing components”- SmartSantander Deliverable, May 2011
- [D5.6] “Updated Testbed Manual”- SmartSantander Deliverable, November 2012
- [PMWIKI] <http://www.pmwiki.org/wiki>
- [WISEBED] FP7 WISEBED, www.wisebed.eu
- [SENSEI] FP7 SENSEI, D5.3 <https://ncit-cluster.grid.pub.ro/trac/Sensei-WP5-Public>