

Specific Targeted Research Projects

SOLDER

Spectrum OverLay through aggregation
of heterogeneous DispERsed Bands

FP7 Contract Number: 619687



WP5 – EXPLOITATION AND DISSEMINATION

D5.1 Website

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Abstract This deliverable presents a brief overview of the SOLDER website (www.ict-solder.eu) and provide a short description of the content of the web page.

Keywords Website, Web Page, SOLDER.

Authors

Name	Organisation	Email
Traverso Sylvain	TCS	Sylvain.traverso@thalesgroup.com

Document History

Revision	Date	Modification	Authors

Executive Summary

This deliverable presents a brief overview of the SOLDER website (www.ict-solder.eu) and provide a short description of the content of the web page.

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1. Introduction

The project website is the space to promote the SOLDER project and communicate about it to the rest of the world. Moreover, it will facilitate the publishing of the results and the dissemination in general. The EC and the office of the Project Officer will be able to monitor news and developments within the SOLDER framework.

This document is a public deliverable D5.1 about the SOLDER project Website in order to ensure that the project website is up and running. It gives a brief overview of the public webpage content supported by the screenshots.

Notably, the webpage went public on the 27th of November 2013.

2. SOLDER Website Structure

In order to produce a public SOLDER website the work was carried out in two phases. The first phase focused on outlining major criteria for the public website such as: general outline, pages layout, menu/submenus, functionality, design, etc. The second phase focused on the actual production of the public webpage. A unique domain www.ict-solder.eu was purchased for that purpose and the webpage was built using Word Press platform.

This section presents the outline of the SOLDER website and briefly describes what pages contain. The website has the following pages: **Home**, **Project**, **Dissemination**, **News**, **Private** and **Contacts**. The navigation menu appears at the top of each page and makes it easy for visitors to find the information. Some of the items in the navigation menu have submenus which are visible when hovering over with a cursor.

2.1 Home

The page “Home” is the front space of the website. It briefly introduces SOLDER project, gives some key facts and Project ID card. Finally, it displaces a calendar with the main events related to SOLDER.

At the moment of writing the report the front page of the website looked like this:



Figure 1: SOLDER Website Home page.

2.2 Project

The page “Project” is structured in such a way that it provides a brief overview and basic information about the SOLDER project. Further, it presents the project’s expected impacts, work packages breakdown, the SOLDER partners, and finally SOLDER related links (see figure 2).



SOLDER
Spectrum Overlay through Aggregation of heterogeneous DisPERsed Bands

Supported by European Union

HOME PROJECT DISSEMINATION NEWS PRIVATE CONTACTS

EXPECTED IMPACTS

Motivati WORKPACKAGES

PARTNERS

4G mobile con data rates, which could be compared with those pro

RELATED LINKS: Several key technologies played a significant role towards this end. A new element to this success is the carrier aggregation (CA) technology, which has been first described in 3GPP LTE-Advanced system. In particular, CA can achieve the highest data rates through dynamic utilization of multiple continuous or non-continuous spectrum bands. This technique will satisfy larger bandwidth demands of emerging services while maintaining higher spectrum utilization factors. The need for an efficient CA deployment is also related to another key aspect of the beyond 4G mobile wireless communications, known as heterogeneous networks (HetNets) and heterogeneous radio access technologies (h-RATS). Considering this kind of heterogeneity, the CA of heterogeneous spectrum bands (HetBands) should be accomplished of micro, pico and femto cells. The main objective of the SOLDER is to provide the aggregation of such HetBands enhancing thereby the overall composite capacity and quality of service at the user equipment (UE). More specifically, the main objectives of the SOLDER project are the following:

1. To design and develop physical layer techniques for efficient CA over HetNets and h-RATS; new transceiver architecture, aggregation algorithms and diversity techniques in non-continuous multi-carrier communications.
2. To provide efficient medium access control over the HetNets and h-RATS with aggregation capabilities through link adaptation and scheduling approaches. To

2G 3G 4G

SOLDER: Cognitive radio application in mobile cellular networks

ETSI-RRS WG3
 DSA
 IEEE DySPAN-5C
 IEEE 1900.4
 IEEE 1900.4a
 IEEE 1900.7
 IEEE 802.22

Figure 2: SOLDER Website Project page.

2.3 Dissemination

The page “Dissemination” provides all SOLDER deliverables and publications, gives some standards & regulations SOLDER related links and finally a list of open source software that will be available (see figure 3).

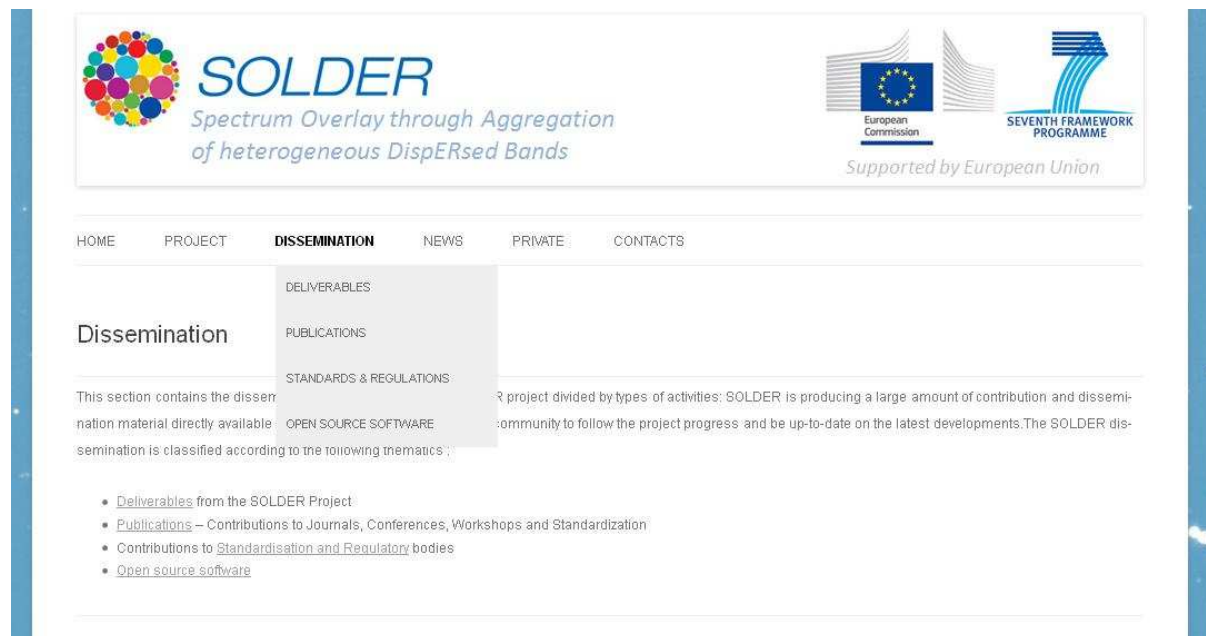


Figure 3: SOLDER Website Dissemination page.

2.4 News

The page “News” provides recent news related to SOLDER activities (figure 4).

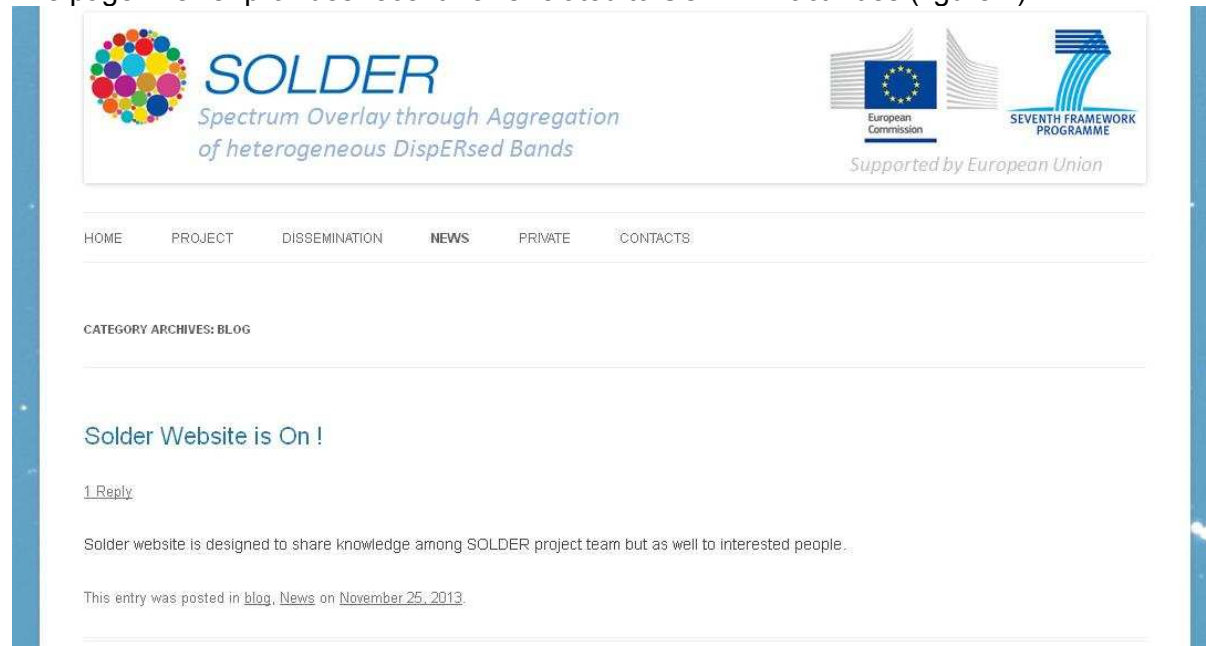


Figure 4: SOLDER Website News page.

2.5 Private

The page “Private” is dedicated to the reviewers and is password protected (figure 5).

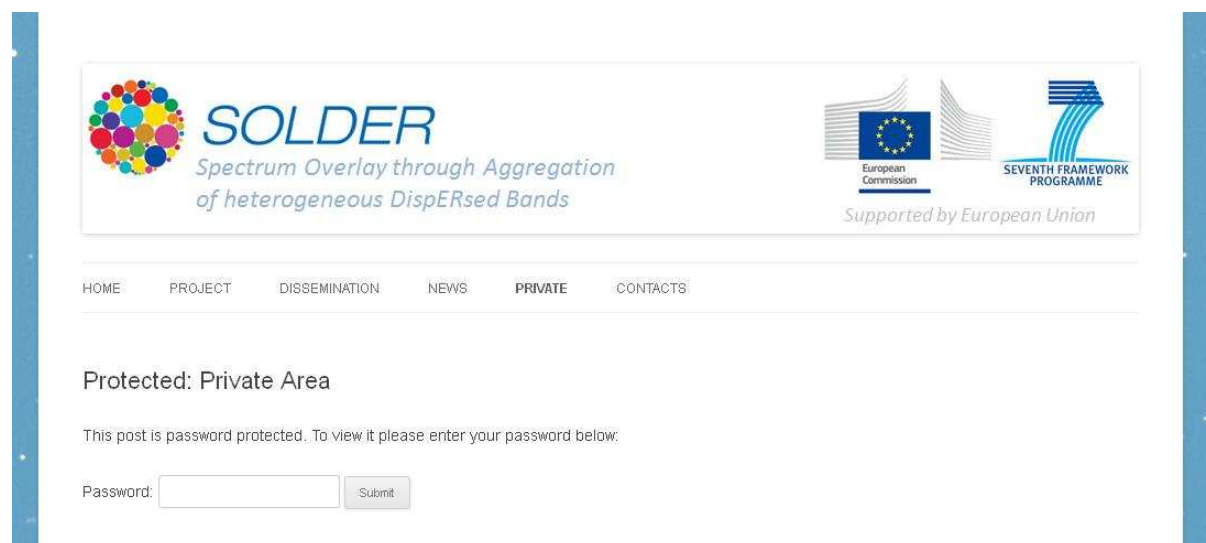


Figure 5: SOLDER Website Private page.

2.6 Contacts

The page “Contacts” provides contact information of the project coordinator for those who are interested to inquire about SOLDER, and contact information of the webmaster (figure 6).



Figure 6: SOLDER Website Contacts page.

3. Conclusions

This document presents a brief overview of the SOLDER project website supported by the screenshots. The webpage is being continuously updated and improved to make it more user-friendly and attractive.