

Project no: 100204

**p-SHIELD**

pilot embedded Systems architecture for multi-Layer Dependable solutions

Instrument type: Capability Project

Priority name: Embedded Systems (including RAILWAYS, HEALTH, CRUISE LINERS AND FLOW-METERS)

**D7.1.1: Web Site**

Due date of deliverable: M2  
Actual submission date: M2

Start date of project: 1<sup>st</sup> June 2010

Duration: 12 months

CWIN

Project co-funded by the European Commission within the Seventh Framework Programme (2007-2012)		
Dissemination Level		
<b>PU</b>	Public	X
<b>PP</b>	Restricted to other programme participants (including the Commission Services)	
<b>RE</b>	Restricted to a group specified by the consortium (including the Commission Services)	
<b>CO</b>	Confidential, only for members of the consortium (including the Commission Services)	



## Pilot SHIELD

pilot embedded Systems  
arcHitecturE for multi-Layer Dependable solutions



SEVEN FRAMEWORK  
PROGRAMME



## Pilot SHIELD

pilot embedded Systems  
archItecturE for multi-Layer Dependable solutions



### Document Authors and Approvals

Authors		Date	Signature
Name	Company		
Przemek Osocha	SESM		
Mohammad M. R. Chowdhury	CWIN		
Reviewed by			
Name	Company		
Josef Noll	MAS		
Spase Drakul	THYIA		
Approved by			
Name	Company		
Spase Drakul	THYIA		

### Modification History

Issue	Date	Description
Draft A	1 September 2010	Web site established
Issue 1	15 February 2011	Document supporting Web page established
Issue 2	15 March 2011	Incorporates comments from issue 1 review



**Pilot SHIELD**

pilot embedded Systems  
architecturE for multi-Layer Dependable solutions



SEVEN FRAMEWORK  
PROGRAMME

## Contents

<b>1</b>	<b>Introduction .....</b>	<b>7</b>
<b>2</b>	<b>Requirements for Web Site .....</b>	<b>7</b>
<b>3</b>	<b>The pSHIELD.eu Web Site .....</b>	<b>7</b>
<b>3.1</b>	<b>Project Information .....</b>	<b>7</b>
<b>3.2</b>	<b>Partner description .....</b>	<b>8</b>
<b>3.3</b>	<b>List of public deliverables .....</b>	<b>9</b>
<b>3.4</b>	<b>Applicability and dissemination .....</b>	<b>9</b>
<b>3.5</b>	<b>Contact.....</b>	<b>10</b>
<b>4</b>	<b>Conclusions.....</b>	<b>10</b>

## Figures

Figure 1 – Project Information on pSHIELD Web Site .....	8
Figure 2 – Partner description on pSHIELD Web Site.....	8
Figure 3 – Page on Web Site where public deliverables will be added.....	9
Figure 4 – Dissemination activities on pSHIELD collaboration platform.....	9
Figure 5 – The contact page on the pSHIELD Web Site.....	10



**Pilot SHIELD**

pilot embedded Systems  
archItecturE for multi-Layer Dependable solutions



SEVEN FRAMEWORK  
PROGRAMME

## Glossary

ESs	Embedded Systems
SPD	Security Privacy Dependability



## Pilot SHIELD

pilot embedded Systems  
architecturE for multi-Layer Dependable solutions



SEVEN FRAMEWORK  
PROGRAMME

*This Page is intentionally left blank*

# 1 Introduction

The scientific and technical works of the project are going to be performed by the partners from several countries. To facilitate the effective cooperation between the partners, the project should enable an easy-to-use document repository platform and a collaboration platform supporting knowledge management and visualization. It is also required that the project should satisfy the public interests providing overview of the project and its partners, disseminating the scientific outcome of the project. A Web site of research project should be responsible for these activities.

This document describes the pSHIELD Web site mentioning how the Web site satisfies the requirements for collaboration between the partners and public interests.

The Web page is operational at <http://www.pshield.eu>

## 2 Requirements for Web Site

It is required that the Web site of the project should contain the following information about the project:

- **Project description:** the Web site must provide the project descriptions including some key facts and data about the project.
- **Partner description:** project's Web site should contain the name and descriptions of project partners.
- **List of public deliverables:** the Web site should also provide publicly available deliverables of the project.
- **Applicability and Dissemination:** the applicability of the project's scientific results should be clarified on the Web site. Besides, ongoing and planned dissemination activities should be visible on the Web site.
- **Contact:** The Web site should have the provision to contact with the responsible people of the project.

## 3 The pSHIELD.eu Web Site

The Web site was established according to the requirements pointed out in section 2. So far, all elements except the Dissemination are included. It is possible to provide confidential or pSHIELD Internal information on the Web Site. To facilitate this, a log-in provision has been added on the Web Site but due to limited time period of the project no confidential information has been added yet. For details on the Web site, please visit <http://www.pshield.eu>

### 3.1 Project Information

The project description including the main information has been provided as follows on the pSHIELD Web site. More information about the project can be provided on request.



Figure 1 – Project Information on pSHIELD Web Site

### 3.2 Partner description

The partners of pSHIELD project have been listed into three different groups: industrial partners, research centres and Universities. The link of Web site of each partner has been added on this page. The page looks as follows:



Figure 2 – Partner description on pSHIELD Web Site



### 3.3 List of public deliverables

The deliverables completed so far (both public and internal) are under the review process. After the mid-term review when the deliverables are going to be accepted they will appear on the pSHIELD Web site. Following link has been created to add this list:

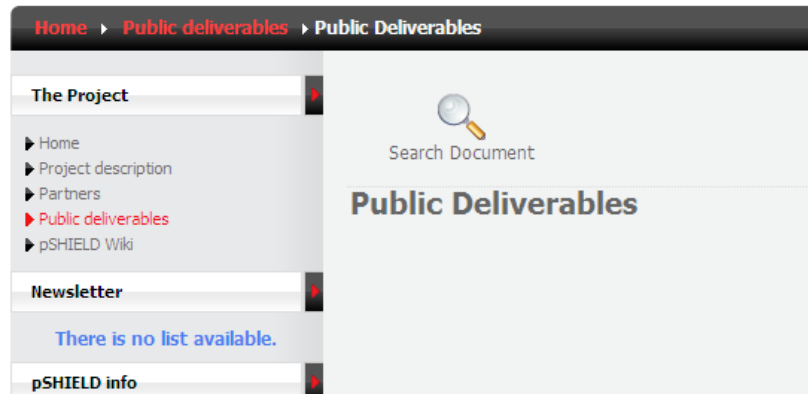


Figure 3 – Page on Web Site where public deliverables will be added

### 3.4 Applicability and dissemination

The pSHIELD Web site will contain examples on the applicability of project's results. This information will be updated on the Web site afterwards. However, the collaboration platform already contains overview of possible applicability.

Dissemination is an activity being expected in the second half of the project, thus the ongoing and planned dissemination activities are so far collected on the collaboration platform, which is described detailed in D1.1.1. The following figure shows snapshot of the dissemination page from the collaboration platform:

**pSHIELD Dissemination** [edit]

pSHIELD has dissemination activities towards the three main areas

- Targeted Industrial Dissemination
- Workshops and Exhibitions
- Industrial publications
- Scientific dissemination

**Targeted Industrial Dissemination** [edit]

**Industrial Contacts** [edit]

From the Norwegian side, the main focus is on bringing pSHIELD sensors into a standardised machine-to-machine (M2M) and machine-to-business (M2B) environment. Movation is member of ETSI and Artemis, and through these ones foster interoperability as e.g. ETSI TS102.690 "Functional architecture for an M2M platform". Movation has the main focus on bringing pSHIELD results to the sensor and Telecom industry in Norway. A close cooperation of the pSHIELD partners Movation and CWIN is established with Telenor Objects, resulting in the first implementation of a mobile IoT platform foreseen for demonstrations with the Norwegian Rail Authorities. CWIN concentrates on the extensions of the platform towards sensor description and access, both based on semantic technologies.

- pSHIELD collaboration meeting between CWIN, Telenor Objects, JBV (the Norwegian National Rail Administration) and SINTEF, May 12 2010.



**Upcoming** [edit]

- 5. April 2011, Presentation of "Security, Privacy and Dependability" of embedded systems to the National Hospital "Rikshospitalet". The goal of this meeting is to elaborate the applicability of pSHIELD integrated sensors for eHealth purposes, together with Telenor Objects.

RIKSHOSPITALET

Attachment of user guide relating to the information on the organization's activities, operations and technology development.

- 29. April 2011, Prototypical implementation of pSHIELD embedded platform with Telenor Objects integration on a train of the National Rail Authority (Jernbaneverket). This prototypical implementation will be used to demonstrate the interworking of sensors onboard the train with the Telecom M2M platform "Shepherd" of Telenor Objects.

JBV Measurement locomotive (left) and use case for "Shepherd" platform of Telenor Objects (right)

**Workshops and Exhibitions** [edit]

- Przemyslaw Osocha (SESM), Yen Pham (CWIN), "p.S.H.I.E.L.D.-pilot embedded Systems architectureE for multi-Layer Dependable solutions", ARTEMIS Spring Event at Embedded World 2011, 1-3 March 2011, Nuremberg, Germany
- Przemyslaw Osocha (SESM), Yen Pham (CWIN), "Demonstrating Security, Privacy and Dependability for Sensors to Systems", ARTEMIS IA Co-summit 2010 Project Exhibition, 26-27 October 2010, Ghent, Belgium
- "pSHIELD and security in embedded systems", Internal Seminar, Critical Software, Coimbra, Portugal, 08 October 2010

**Industrial publications** [edit]

- Giuseppe Maritelli, Fabrizio de Seta, "pSHIELD for Embedded System Security", EDlink 37 (Elsag Datamat Company Magazine), Rome, 2010.

**Scientific dissemination** [edit]

Figure 4 – Dissemination activities on pSHIELD collaboration platform

## 3.5 Contact

It is possible to contact the responsible people of the project by filling out a Web form on the Web site. Following figures depicts this provision:



The screenshot shows a contact form titled "Contact us pSHIELD Project". It includes contact information: "FAX +39 081 8180 404" and "http://www.pshield.eu". There is a blue icon of a telephone handset and an envelope with an @ symbol. The form fields are: "Enter your Name:" (text input), "E-mail address:" (text input), "Message Subject:" (text input), and "Enter your Message:" (text area). At the bottom, there is a checkbox labeled "E-mail a copy of this message to your own address." and a red "Send" button.

Figure 5 – The contact page on the pSHIELD Web site

## 4 Conclusions

The pSHIELD project contains three different Web space: Web site, collaboration platform and document repository. Among them Web site and collaboration platform have public visibility and document repository is only intended for pSHIELD members. Hence pSHIELD Web site which is a public Web site has no link towards document repository but contain information and link to the collaboration platform. The later is used for effective knowledge management, day-to-day collaboration and visualization. The detailed has been described in D1.1.1.

This document described the different elements of the pSHIELD Web site. The Web site fulfils the requirements of the project and is expected to satisfy public interests through providing project and partner information, and deliverable and dissemination details. The collaboration platform besides enhancing the cooperation between the partners also presents knowledge about the project and presents outcome of the project. According to the requirements, some of the information have not been updated yet on the Web site as those are either not yet approved by the reviewer or substantial amount of information is not present till today.