



Horizon 2020 Program

Dynamic countering of cyber-attacks

SU-ICT-2018



Cyber security 4.0: Protecting the Industrial Internet of Things

D6.1: Project Website[†]

Abstract: This deliverable presents the work performed in WP6/Task6.2 “Communication strategy triggering awareness and new business opportunities” with respect to design and development of the C4IIOT website to public use. Since the purpose of WP6 is supervising the integrity and consistency of all dissemination efforts for growing awareness on the project, the core objective of this deliverable is to develop the underlying infrastructure so as to effectively set up the C4IIOT on-line presence for reaching out to the widest possible audiences and offer a constant source of information for all type of dissemination efforts.

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List of Abbreviations

EC European Commission

WP Work Package

M Month

URL Uniform Resource Locator

Executive Summary

This document reports on the work executed in WP6/Task6.2 “Communication strategy triggering awareness and new business opportunities” in terms of design and development of the C4IIoT website. In brief, the document provides an overview of the project’s website, its structure and main features.

1 Introduction

Deliverable D6.1 of C4IIoT describes the initial set up of the project's website which will serve as a collaboration tool for knowledge, experience and best practice sharing, as well as results consolidation and dissemination support.

The purpose of deliverable D6.1 is to set up the C4IIoT website which will act as the focal point for web-based dissemination and communication activity by mainly providing information about C4IIoT both for technical and non-technical audiences. The website is foreseen to incrementally provide project information and achievements and stimulate contacts with other users.

Chapter 2 presents an outline of the website infrastructure and technical components. More specifically, the website structure is presented and features with respect to the underlying platform are described.

The third chapter of this document outlines the content of the public pages of the site including screenshots from each page.

Chapter 4 outlines the website's statistics as they are derived via google analytics platform.

Finally, chapter 5 concludes the present document with a brief outline of future action and updates regarding the C4IIoT website.

2 Website Infrastructure

2.1 Overview

C4IIOT website has been designed and developed by AEGIS. The developing activities started in M1 (June 2019) and by the beginning of M2 (July 2019) it was already ready for full operation.

The design of the site was based on the ease of access and navigation to it by the end user. In addition, the presentation of the website's content (including project's objectives, consortium, etc.) follows a user-friendly approach.

2.2 URL

The following URL has been acquired by the C4IIOT consortium and is intended to be used by Internet users for accessing the project website which is publicly available from July 1st, 2019:

<https://www.c4iiot.eu/>

2.3 Technical Details

Table 1 below outlines Technical Details with reference to C4IIOT website:

Table 1: C4IIOT Website Technical Details

C4IIOT Website Technical Details	
Domain	https://www.c4iiot.eu/
Servers/hosting	Linux based Apache 2.2.15
Content Management System (CMS)	WordPress Version 5.5.2
PHP Version	5.6.25
MySQL Version	5.1.73

2.4 Website Structure

The C4IIOT website has a simple structure as it is illustrated in Figure 1. The project's website consists of a public domain where the visitors are able to gather information with respect to the project, download the project's publicly available dissemination material (like

accepted deliverables, brochures and other informative documents or publications) and find information about the C4IIoT Consortium.

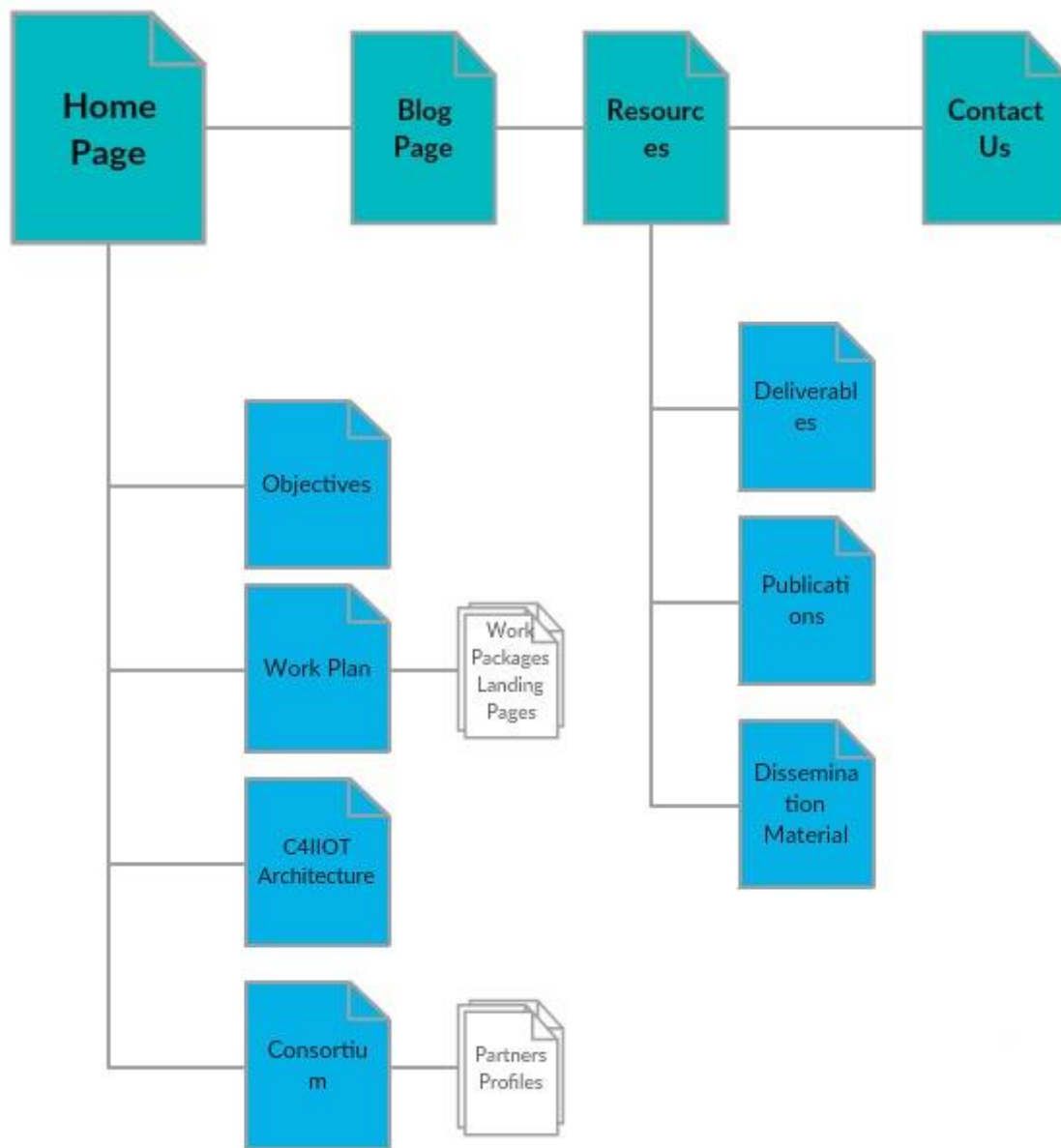


Figure 1: C4IIoT Website Structure Diagram

2.5 Graphic Design

With respect to its look and design, the C4IIoT website takes full advantage of the project's logo schematic and colour pallet.



Figure 2: C4IIoT Logo

The design scheme utilized is linked to the graphic identity of the project. Moreover, the website is fully responsive and fully compliant to all relevant W3C guidelines.

3 Website Content

The C4IIOT website is consisted of 4 main pages:

- Homepage: providing a concise description of the project at a glance;
- Blog Page: Providing posts with news and dissemination events alongside with articles related to the project and written by the C4IIOT consortium members;
- Resources: where users can download C4IIOT-related publications, public deliverables or project dissemination material and
- Contact: where visitors can communicate with the website administrators

The following subsections outline all the pages mentioned above including a screenshot for each page

3.1 Homepage

The homepage consists of separate sections with basic project information. These sections are namely Project statement, work plan, objectives and resources. There is also a carrousel slider section with consortium members' logos. The footer section of C4IIOT homepage lists details about the received funding alongside with links to the project's social media accounts A snapshot of the C4IIOT website homepage is presented in figure 3 below.



Figure 3: C4IIoT Homepage Screenshot

3.1.1 Homepage subpages

The C4IIoT homepage includes four subpages namely Objectives (figure 4), Work Plan (figure 5), C4IIoT Architecture (figure 6) and Consortium (figure 7). The Objectives subpage outlines the project's objectives while the Work Plan subpage includes core information on the project's Work Plan and links to its work packages as identified at the DoW.



Figure 4: Objectives subpage screenshot

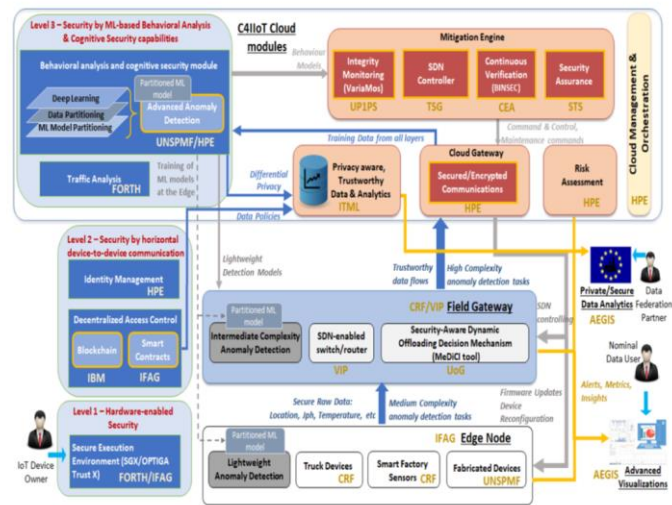


Figure 5: Work plan subpage screenshot

Figure 6 depicts the C4IIoT Architecture subpage content which is a graphical presentation of the architecture of the C4IIoT platform. The fourth subpage named Consortium includes a figure placing the project's members on the map followed by partners logos with link to each partner's corresponding profile landing page.



The C4IIoT Architecture



The edge nodes layer

- IoT devices
- Support security routines in the early stage of the project

The gateway layer

- Intermediate layer
- SDN
- Offloading/outsourcing decision mechanism

The cloud layer

- Security services
- Behavioural analysis and cognitive security module
- Mitigation engine



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Figure 6: C4IIoT Architecture subpage screenshot



Figure 7: Consortium subpage screenshot

3.2 Blog Page

The Blog Page consists of three sections: news, events and articles. Each section will include relative posts with contribution by all partners. Website administrators will be responsible for uploading the relative content under the corresponding section. Figure 8 depicts a screenshot of the Blog Page subpage at its current state:




Figure 8: Blog Page Screenshot

3.3 Resources

The Resources Page of the C4IIoT website consists of three subpages namely: Deliverables, Publications and Dissemination Material. Website visitors can view and/or download corresponding content from each subpage.

3.3.1 Deliverables

The first subpage of the Resources page includes separate tabs with basic information and link for every deliverable of every work package of the project. A screenshot of the Deliverables subpage can be seen in figure 9 below:



Home Blog Page Resources Contact us





Deliverables

The C4IIoT Deliverables will be uploaded to this webpage.

WP1 WP2 **WP3** WP4 WP5 WP6 WP7

Deliverables For Work Package 3

Deliverable No.	Deliverable Title	Type	Dissemination Level
D3.1	Behavioural analysis and cognitive security framework	Demonstrator	Public
D3.2	Mitigation engine	Demonstrator	Public
D3.3	Level-2 and Level-3 security mechanisms of C4IIoT	Demonstrator	Public
D3.4	Cyber assurance and protection in an industrial cloud infrastructure	Demonstrator	Public

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Figure 9: Deliverables subpage screenshot

3.3.2 Publications

The publications subpage is divided in two tabs of different publication categories each including a table of all publications related to the project. Figure 10 depicts the publications subpage screenshot on its current status:

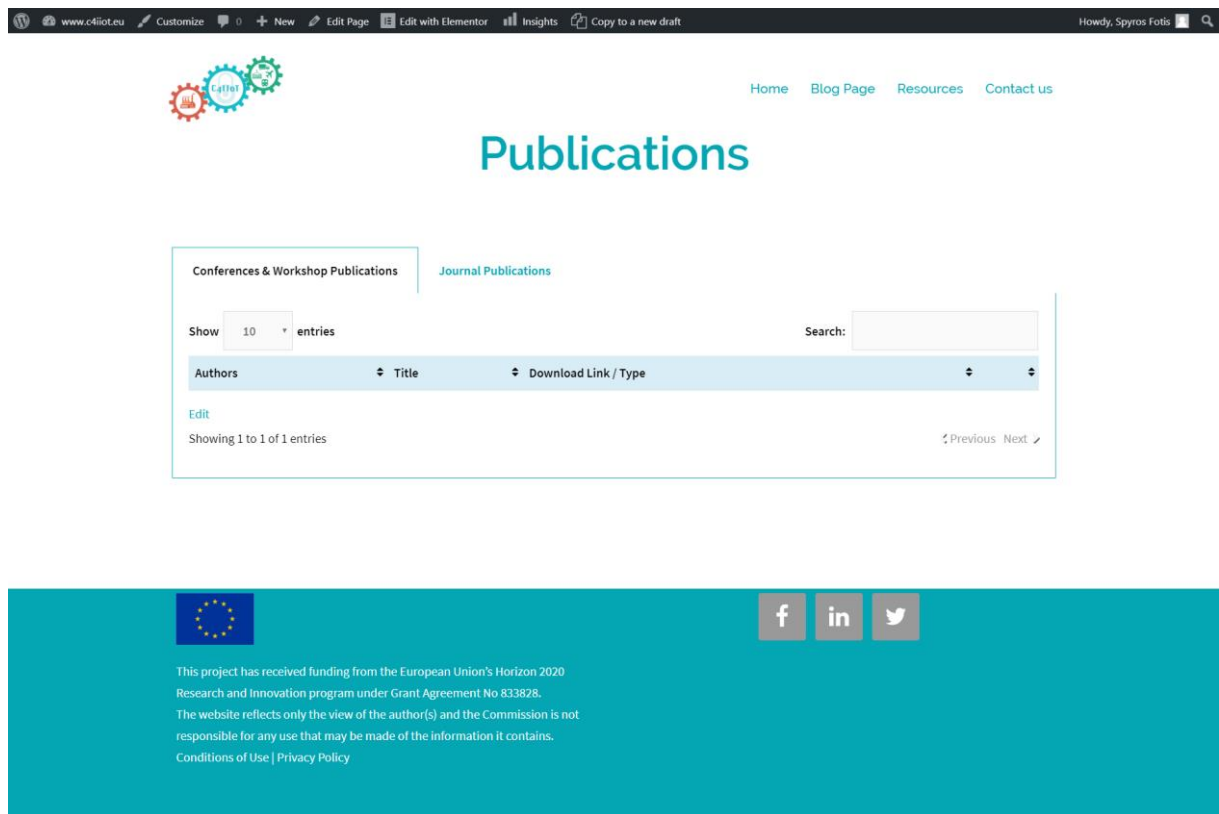


Figure 10: Publications subpage screenshot

3.3.3 Dissemination Material

The Dissemination Material subpage (figure 11) includes one section of three distinctive tabs. Each tab will include basic information and downloadable links to dissemination material of different type.

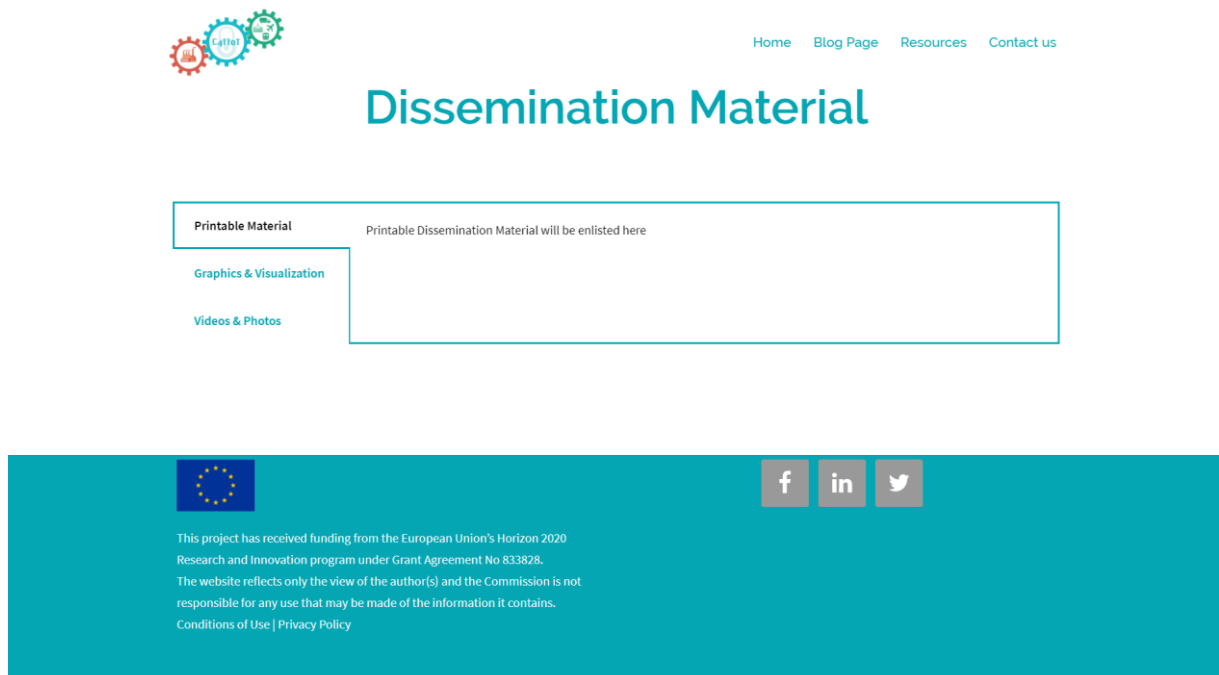


Figure 11: Dissemination Materials subpage screenshot

3.4 Contact

The final main landing page of the C4IIoT is the contact page (figure 12) which includes a contact form alongside with links to the main C4IIoT social media accounts on Facebook, LinkedIn and Twitter.

The screenshot shows the 'Contact Us' page of the C4IIoT website. At the top left is the C4IIoT logo, and at the top right are navigation links: Home, Blog Page, Resources, and Contact us. The main heading is 'Contact Us'. Below it is a contact form with the following fields: 'Your Name (required)', 'Your Email (required)', 'Subject', and 'Your Message'. A 'SEND' button is located below the message field. To the right of the form is a 'Follow Us' section with icons for Facebook, Twitter, and LinkedIn. The footer is a teal-colored bar containing the European Union flag, social media icons for Facebook, LinkedIn, and Twitter, and the following text: 'This project has received funding from the European Union's Horizon 2020 Research and Innovation program under Grant Agreement No 833828. The website reflects only the view of the author(s) and the Commission is not responsible for any use that may be made of the information it contains. Conditions of Use | Privacy Policy'.

Figure 12 Contact Page screenshot

4 Website Statistics

The C4IIoT consortium will utilize the Google Analytics platform as a means to monitor activity of the project website and measure progress and impact. Google Analytics is an effective tool in terms of tracking web site traffic and get significant quantity of useful data with respect to dissemination impact in the sense of raise of public awareness.

The C4IIoT website has been registrant to Google Analytics Platform on July 15th, 2019, as shown in figure 11. Thus, safe conclusions on reach and visibility will be reached after the end of M8 and will be reported to future deliverables.

The screenshot displays the Google Analytics 'Account Settings' page for an account named 'C4IIoT'. The interface includes a left-hand navigation menu with options like 'Account Settings', 'User Management', 'All Filters', 'Change History', and 'Trash Can'. The main content area is titled 'Account Settings' and is divided into several sections:

- Basic Settings:** Includes 'Account Id' (partially obscured), 'Account Name' (set to 'C4IIoT'), and 'Country of Business' (set to 'Greece').
- Data Sharing Settings:** Contains a paragraph explaining data security and a list of recommended sharing options:
 - ☒ **Google products & services** (RECOMMENDED): Share data to improve Google's products and services.
 - ☒ **Benchmarking** (RECOMMENDED): Contribute anonymous data to an aggregate data set.
 - ☒ **Technical support** (RECOMMENDED): Let Google technical support access data for troubleshooting.
 - ☒ **Account specialists** (RECOMMENDED): Give Google marketing specialists access to data for optimization tips.
 - ☐ **Give all Google sales experts access**: Provide access for in-depth analysis and recommendations.
- Data Processing Amendment:** A section explaining GDPR compliance, stating that the amendment was accepted on July 15, 2019. It includes a 'Review Amendment' button and a 'MANAGE DPA DETAILS' link.

At the bottom of the page, there are 'Save' and 'Cancel' buttons.

Figure 13 C4IIoT Google Analytics account registration

5 Conclusions and future plans

The C4IIoT website aims to act as a powerful tool for boosting information flow between all entities involved. It will also be used to disseminate targeted information to relevant interested parties. Considering the fact that the project website has been publicly accessible since the early stage of the project, it is anticipated that several updates will be implemented as a result of adaptation to constantly effective online dissemination activity and emerging project results. To this end, revisions regarding the usability of the website with respect to the end-user will be made in addition to updates with contribution of content by all consortium members.