



*Integrated cyber-physical security for health services*

## **SAFECARE NEWSLETTER**

**Please find below short updates of SAFECARE's latest developments, discussions, reports and interesting upcoming events.**

### **Management team in a nutshell**

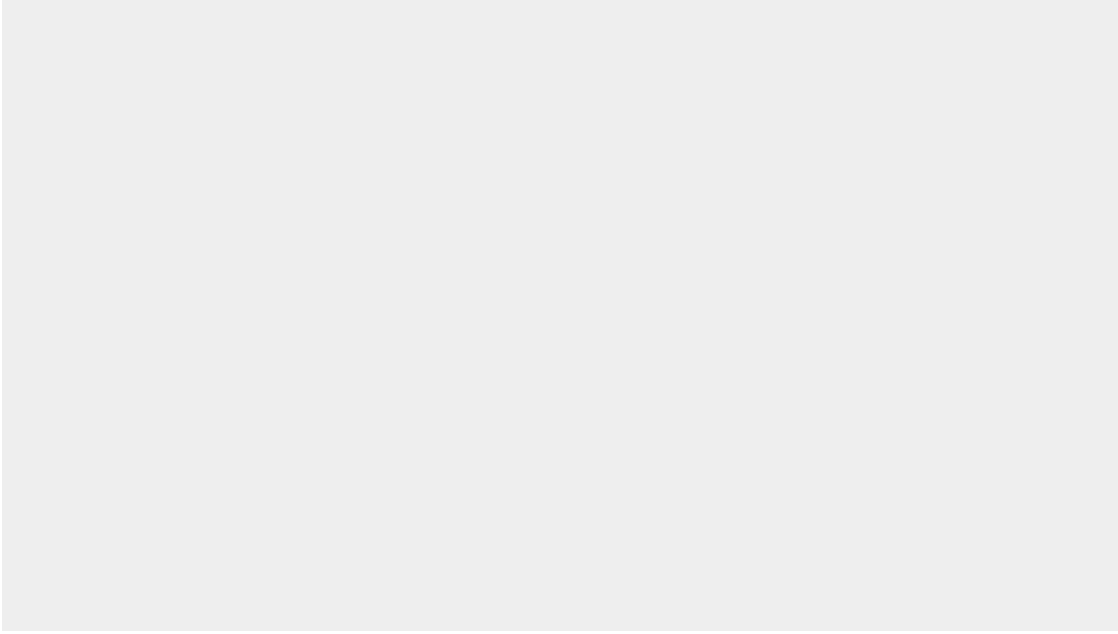
The SAFECARE (SAFEguard of Critical heAlth infrastructuRE) project was officially launched in September 2018. After more than 6 months of activity our project has come to life and our teams have rapidly gotten to know and work with each other thanks to our kickoff meeting and to our on-going focus group workshops.

Due to the technical and organizational complexities involved in our project, communications between all project members has been the key to our success thus far. I would like to acknowledge and thank the dedication of all participants who have contributed in the crucial tasks involved in the building of the overall project (and deliverables).

Although there is still a long way to go, I am happy to report that we are actively moving forward very quickly. The project management must therefore remain highly responsive to the needs of each task force in order to maintain and enhance the quality of our exchanges and innovations.

This initial phase of the project has allowed us to establish a management and organizational system composed of the 8 Work Packages leaders among whom 3 of them assist me in coordinating: Isabel Praça (ISEP) as Scientific Coordinator, Louis Jallet (CSS) as Technical Coordinator and Elodie Reuge (EOS) as Communications and Organizational Coordinator. This team offered major support in the preparation of the overall project from its inception.

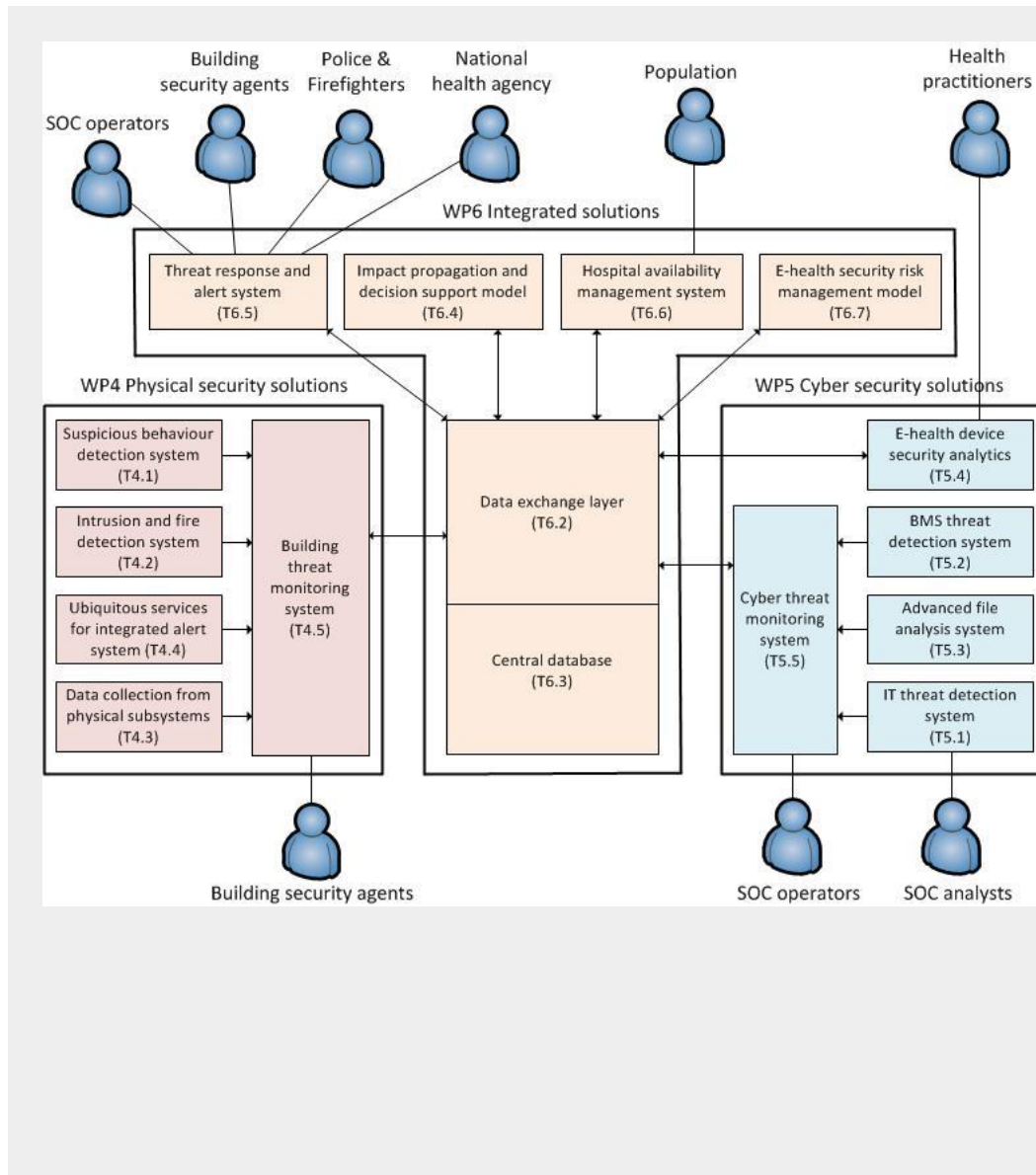
SafeCare coordinator  
Philippe Tourron



## Project Status

Below is an illustration of the main outcomes of SAFECARE for each Work package. The list of Work Packages and the Global architecture and interconnections are described in the following figures as a reminder.

WP Number	WP Title	Lead beneficiary	Start month	End month
WP1	Ethic requirements	1- AP-HM	1	36
WP2	Project Management	1 – AP-HM	1	36
WP3	Risk assessment and requirements	6 – ISEP	1	36
WP4	Physical security solutions	14 - Milestone	6	26
WP5	Cyber security solutions	2- CCS	6	26
WP6	Integrated cyber-physical security solutions	9 – ISMB	6	26
WP7	Tests and demonstrations	10 – CSI	18	33
WP8	Dissemination, exploitation and standardization	12 – EOS	1	36



## Work Package 1

The WP on Ethics requirements was requested by the European Commission in the development phase, before signing the Grant Agreement. With such themes related to the healthcare, it is legitimate and fundamental to raise questions relating to ethics while at the same time, carrying out a risk analysis on privacy for the patients. It aims to consolidate information into deliverables originally planned for another WPs (including consents, responding to GDPR concerns). The consortium has been able to produce the first 3 deliverables of this period. Nevertheless, the partners will have to improve the coordination between themselves in order to facilitate the work to be done under the WP1.

The first approach to the analysis of privacy has been made. The latter is to be completed over the following months in order to take into account the particularities of the tool under construction within the framework of the SAFECARE project. Significant work on authorizations has been done by the entire consortium but the final approval before demonstration on-site still needs to be obtained. The next deliverable will be the annual report of the Ethics board which is to be prepared by all the partners.

## **Work Package 2**

The Work Package dedicated to Project Management organizes WP Leaders meetings every two weeks to review the status of each WP. At this time, the difficulties and the possible needs for arbitration by the coordinator are reported. In general, it is mainly a question of allowing each WP Leader to access the necessary information in order to best organize the planning of her/his WP and to define interfaces with other WPs. These meetings allow the organization to submit the deliverables as per DoA at the right level of quality and in keeping with the deadlines. They also contribute in the planning of the focus groups and events. 2 deliverables were completed on time (The initial Quality plan and the Financial Report). Some difficulties were experienced for the Financial Report, in terms of recovering the needed information. This point will be taken into consideration for the next financial deliverables.

## **Work Package 3**

WP3 deals with risk analysis and requirements. This WP started working on the first day of project execution with the Kick-off of tasks 3.1 (Identification of critical assets in health infrastructure), 3.3 (Requirement analysis) and 3.6 (Study of ethical and privacy constraints related to the health environment). Up to now, work about critical assets, requirements analysis, SoA of security and know vulnerabilities and ethics, privacy and confidentiality constraints has been delivered. All these tasks are crucial to achieving the SAFECARE project goal to provide solutions that will improve physical and cyber security to prevent attacks, to promote incident responses and mitigate the impacts.

## **Work Package 4**

WP4 concerns physical security solutions and kicked off in February 2019. Current tasks address the specification of functionalities for suspicious behavior detection, intrusion and fire detection, and the mobile service for integrated alerting. The process of collecting information of current provision of, and historical data, from cameras, fire detection devices and access control system is being carried out. The participants are also working on mapping out how the systems will interact, both within the physical security systems scope, and within the larger integration (WP6), in collaboration with WP5 on cybersecurity. A task on the building threat monitoring system, which is the basis of interaction with the rest of the architecture, will start in April 2019, and data collection from ICS, SCADA and smart building sensors will start in May 2019.

## Work Package 5

The WP5 about Cyber security solutions has officially started in February 2019 during the Focus Group in Turin in January 2019.

The task T5.4 started in February 2019, with the objectives to provide a device security analytics solution. The task is led by Philips and its main contributors are CSI, Enovacom, AMC, Airbus and KU Leuven. First a specification of the e-health devices security analytics will be delivered, then the prototype will be achieved.

All other WP5 tasks will start in May 2019

## Work Package 6

The WP6 about Integrated cyber-physical security solutions has just started at M6. The contributors of this WP will meet every 2 weeks for periodic calls in order to contribute to the development and achievement of the main objectives of this WP as the realization of :

- The central database
- A communication system between modules developed in other WPs
- Models for impact propagation and cascading effects
- Software modules for improving the availability and security of health services

## Work Package 7

N/A (The WP7 about Tests and demonstrations will start at M18)

## Work Package 8

The WP8 (Dissemination, exploitation and standardization D8.1) started at M1. The first deliverable of the project, the Dissemination and Communication strategy, has been submitted at M3 (and will be updated at M13). The implementation of the strategy will be carried out under the T8.2 and several activities are already in place :

- Web presence ([SAFECARE Website](#))
- Social media presence ([SAFECARE Project LinkedIn](#) and [SAFECARE Twitter](#))
- Material design for flyers
- Events participation (see below)
- Events organization (such as the Focus Groups and the first awareness event)
- Newsletters

## Past and Upcoming Events

- 19/10/2018 : Presentation of SAFECARE at the conference *Forum biomedical « l'Avenir de l'e-sante »*, in Marseille (France) by AP-HM
- 24-25/10/2018 : Networking for SAFECARE at the *Internet of things security conference*, in The Haag (The Netherlands) by BEIA
- 24/10/2018 : Networking for SAFECARE at the *European Brokerage Event on Resilience from disaster*, in Paris (France) by BEIA
- 11/2018: Presentation of SAFECARE at the *European Cyber Week (ECW)*, in Rennes (France) by Airbus
- 14/11/2018: Networking for SAFECARE at the *4th eHealth Security Workshop*, in Rotterdam (The Netherlands) by ISEP
- 5-6/12/2018: Networking at the *Security Research Event*, in Brussels (Belgium) by EOS and ISEP
- 6/12/2018 : Presentation of SAFECARE at the SAYSO 2<sup>nd</sup> Public Workshop, in Brussels (Belgium) by EOS and KEMEA
- 15-16/01/2019: First Focus Group, in Marseille (France) with all the partners
- 23/01/2019 : Presentation of SAFECARE at the *International Security forum (FIC) : « Are SCADAs and cyber-physical systems 'unsecure' by design ? »* in Lille (France) by AP-HM ([Please see the link of the conference](#))
- 29-30/01/2019 : Second Focus Group, in Turin (Italy) with all the partners
- 25-24/02/2019 : Presentation of SAFECARE at the *Milestone Integration Platform Symposium (MIPS)*, in Nashville (US) by Milestone
- 18/03/2019: Presentation of SAFECARE at the *Evènement national H2020 Sécurité des Infrastructures Critiques* in Paris (France) by AP-HM and Airbus
- 25-27/03/2019 : Presentation of SAFECARE at MIPS EMEA, Copenhagen, (Denmark) by Milestone
- 2-5/04/2019: Presentation of SAFECARE at MIPS APAC, in Bali (Indonesia) by Milestone

