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*Integrated cyber-physical security for health services*

## **SAFECARE NEWSLETTER April 2020**

### **Message from SAFECARE Coordinator, Philippe Tourron**

We are at the halfway point of our project and after an intensive phase of supplements following the review of the first year, we have started all the Work Packages and are finalising the description of the risks to be managed and continuing the development of the various software modules.

The period we are living through with the COVID-19 virus is indicative of the need to protect health and the systems that contribute to it. Our SAFECARE project is at the heart of the need for visibility of our ability to protect systems and patient care. Physical attacks (theft of equipment) and cyber (denial of service, ransom) confirm the risks identified in our studies. Our project is therefore more than ever a demonstration of the need to aid caregivers and endusers in the health sector.

This context also strongly impacts the progress of the project. Indeed, as endusers in the health sector are strongly mobilised to manage the COVID-19 crisis (remote working, telemedicine, increased security, digital means to improve the stay of patients and contact with families...), they are therefore less available to contribute to the project. Likewise, all the partners have had to adapt their working methods to ensure continuity.

These exceptional circumstances have led us to request an extension period of 3 months for the entire project, which, after a favourable initial reception from our Project Officer, now requires us to detail the impact on the sequence of our

tasks and the production of our deliverables.

As always, we must remain positive, and this difficult period should allow us to complete the contribution of our project to the protection of critical health systems and to verify certain usage scenarios to help manage future crises. A big thank you to all the partners for their remarkable adaptation to this situation which has made it possible to stay the course and to keep the project management consistent to the progress of the project.

Take care of your health and continue to invest in SAFECARE to protect the health of all patients and healthcare teams!

## **SAFECARE Research Published on Website**

The results of the first year of SAFECARE partners research has been made available online for sharing and study by practitioners in the field. It is available on the website, and includes the first set of deliverables accepted by the European Commission, related to the requirements of healthcare infrastructure security and preliminary designs of the SAFECARE system, as well as scientific papers and articles submitted on the basis of the SAFECARE research,

The research can be found here:

[Deliverables and Publications](#)

[Healthcare infrastructure threat assessment and solution requirements](#)

[Physical security solutions for Healthcare infrastructure](#)

[Cybersecurity solutions for Healthcare infrastructure](#)

[Integrated Cyber-Physical security solutions for Healthcare infrastructure](#)

## **Updates**

[SAFECARE Message of Support for Healthcare Sector in fight against COVID](#) - SAFECARE Partners send their support to all those involved in the fight against COVID-19 and learn from one of partners what actions have been taken to ensure that healthcare infrastructure remains secure.

[Cybercriminality Interview with Philippe Tourron](#) - SAFECARE Coordinator Philippe Tourron recently gave an interview to Belgian newspaper La Libre on the topic of cybercriminality.

[Security Incidents in Healthcare Infrastructure during COVID-19 Crisis](#) -

SAFECARE Partners are tracking the rise in security incidents affecting healthcare infrastructure during the crisis.

[SAFECARE Project Presented at the Mediterranean Security Event 2019](#) - The SAFECARE project was presented at the Mediterranean Security Event 2019 in October.

## SAFECARE Presented at MIPS 2020



### Project Progress

## Physical Security Systems

Research into Physical Security Systems has been progressing well, with the Suspicious Behaviour System, Intrusion and fire detection system, data collection system and mobile service for integrated alerting system and building monitoring system all progressing well. The definitions of the solution have all been completed, with the suspicious behaviour system and intrusion and fire detection system both demonstrated at the Milestone Integration Platform Symposium in Dallas. Other tasks are taking shape, with definitions and requirements established and initial steps taken towards finalising first drafts and implementing required functions.

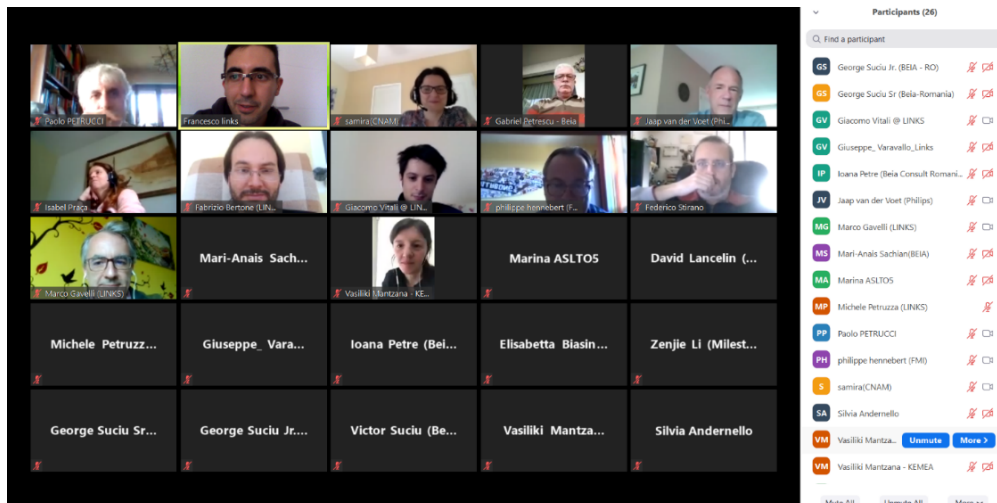
# Cyber Security Systems

Led by researchers from the Airbus Cyber Security team, SAFECARE's partners are progressing well with their work on the cyber aspects of defending healthcare infrastructure. Recently, population of the virtual simulation platform has started and partners have been granted access and explained how to import their tools, virtual machines or containers. [Read more here.](#)

## Integrated Cyber-Physical Solutions

In respect of all the emergency measures to contrast Covid-19 pandemic, people involved in integrated solutions activities are working from home. Regarding its activities, the research has made a lot of progress, all the software has been specified and correspondent deliverables have been submitted.

Currently, we are in the middle of the development phase, close to complete the development of the Data exchange layer prototype. This task, crucial for its role of providing communication among integrated solutions modules and threat detection systems, saw the involvement of physical security researchers, cyber security researchers and integrated solutions researchers in the definition of message structure as well as special APIs to get data from the Central Database.



Together, we also started some connection tests with the Data exchange layer, aiming to be ready for the first official test in Porto. For the other tasks within this WP, despite some issues caused by the actual Covid-19 pandemic, people are making progress: i) the database in its first version is up and running; ii) the ontology to evaluate potential impacts and mitigate cascading effects has been improved thanks to the hard work of the CNAM team and the end users involved in the project; iii) the alerting system is under development to be

integrated with the data exchange layer and to be able to send enriched alerts to the mobile alerting systems (within the Physical Security Solution); iv) the hospital availability management system is under development and its internal structure has been defined and presented; v) the risk management model has been specified.

## Communications and Dissemination

The Communications team has focused on updating the website, redesigning the home page to feature the research more prominently and ensuring that all the research published by the project is available online.

The SAFECARE research was presented at the Mediterranean Security Event and at Milipol 2019 in the second half of 2019, which were attended by industry stakeholders and research practitioners, giving the consortium the chance to engage with a wider audience and seek feedback from potential end-users to help improve the marketability of the final product.

## Upcoming Events

With respect to the COVID-19 Crisis, SAFECARE has postponed indefinitely the Awareness Event in Athens, originally scheduled for the end of May, and participation in physical workshops and events has been suspended.



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