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FORTIKA - Cyber Security Accelerator for trusted SMEs IT Ecosystems

THE PROJECT

The FORTIKA project aims to provide SMEs with an embedded, smart and robust hardware security layer enhanced with an adaptive security service management ecosystem (FORTIKA marketplace). The project will explore the capabilities of the secure-by-design FPGA SoC platform, as a CPU enhancement module. The long-term goal of the FORTIKA project is to provide a low-cost, dynamic, security layer for small and medium-sized businesses, individually tailored to meet each beneficiary's requirements.

CHALLENGES

- ✓ Exposure of small-sized businesses to cyber security risks and threats
- ✓ Inability to respond to cyber security incidents
- ✓ Costly efforts to identify, acquire, use and maintain appropriate cyber security solutions

AMBITION

- ✓ Hardware enabled middleware security layer as add-on to existing network gateways
- ✓ Resilient overall cyber security solution that can be easily tailored and adjusted to the versatile and dynamically changing needs of small businesses

KEY TECHNOLOGIES

- ✓ FPGA accelerator
- ✓ Bring Your Own Device(BYOD)/Bring Your Own Technology (BOYT) Access Control
- ✓ Attribute-Based Access Control (ABAC)
- ✓ Social Engineering Attacks Recognition System (SEARS)
- ✓ Risk analysis, modelling and level assessment
- ✓ Real-time Network Traffic Analysis
- ✓ Homomorphic Encryption
- ✓ Data Minimization



Visit: <http://fortika-project.eu>

- <https://www.facebook.com/groups/1077584985707469>
- <https://twitter.com/H2020Fortika>
- <https://www.linkedin.com/groups/13534953>
- <https://www.youtube.com/channel/UCSCaHEyJARMVOrsZANvbSRw>

This project has received funding from the European Union's Horizon 2020 Research and Innovation Programme under grant agreement No 740690.

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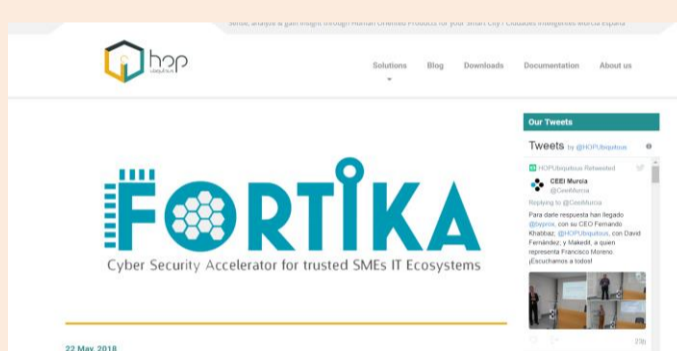
IN THIS ISSUE

- ✓ HOPU's Dissemination Activities
- ✓ UoM's Dissemination Activities
- ✓ CERTH's Dissemination Activities
- ✓ TECHINSPIRE's Dissemination Activities

HOPU's Dissemination Activities

HOPU, which has a strong background in security for end-devices, networks management and innovative security mechanisms created an article in their blog in order to explain their contribution in the FORTIKA Project as well as and some publications in social media sites.

See more: <http://www.hopu.eu/contribution-in-the-project-fortika-by-hop-ubiquitous>



HOPU also participated in the **Smart City Summit & Expo** in Taipei presenting how could our technologies help grow secure smart cities all around the world with face to face meetings.

See more: <https://en.smartcity.org.tw/index.php/en-us/>



In Addition, HOPU participated in the **IoTWeek** which took place in Bilbao from 4 to 7 of June, where they promoted and showcased our project.

See more: <https://iotweek.org/>



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UoM's Dissemination Activities

University of Macedonia published a paper about Social Engineering Attacks in the ARES conference's proceedings



See more: <http://www.fortika-project.eu/content/publications>

CERTH's Dissemination Activities



CERTH presented an overview of our project to the "Concertation Meeting in the European observatory of research and innovation in the field of cybersecurity and privacy" on 26/04/2018 in Brussels.

See more: <https://www.cyberwatching.eu/concertation-meeting-brussels>

TECHINSPIRE's Dissemination Activities

TECHINSPIRE published a research paper titled "R-PEKS: RBAC Enabled PEKS for Secure Access to Cloud Data" to the IEEE TDSC Journal and we are waiting the review report



See more: <https://ieeexplore.ieee.org/xpl/RecentIssue.jsp?punumber=8858>

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