

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>

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

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Presentation of the FORTIKA project at the H2020 Project Clustering Workshop

Konstantinos Votis from FORTH presented the FORTIKA project at the H2020 Project Clustering Workshop organized by the RECREd project and took place in Athens on 31/1/2018.

The Clustering Workshop joined by over 20 EU funded projects that participated, presenting their objectives and results and shared their implementation experiences.

The project was a helpful forum for opening the discussion between partners and project enabling future synergies and collaborations while on the same time showcasing the wide impact that these projects have not only to industry and service providers but also to EU citizens.



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FORTIKA poster proposal accepted in ETSI Security Week in Sophia Antipolis on 11-15 of June

ETSI security week will take place on 11-15 of June, at Sophia Antipolis in France. During this event, the latest cybersecurity policies, legislative actions, cyberattacks, challenges, solutions and hot technologies will be presented and discussed among the academic and commercial cybersecurity community. Participating community peers will also network and exchange on the state of standardization for cybersecurity.

The FORTIKA poster Paper titled "Accelerating security at the edge: The H2020 FORTIKA Paradigm", will be presented on 12 and 13 of June during the "Future-Proof IoT Security and Privacy" event.



FORTIKA project presented in first Concertation meeting by Cyberwatching EU, in Brussels on April 26th

The FORTIKA project, and its contributions on cybersecurity were presented in the 1st Concertation meeting organised by Cyberwatching EU, which took place in Brussels, on the 26th of April. The FORTIKA Coordinator Dr Dimitrios Tzovaras presented FORTIKA's goals and novel contributions towards addressing cybersecurity issues in SME IT ecosystems. Additionally, liaison with other similar projects was explored.



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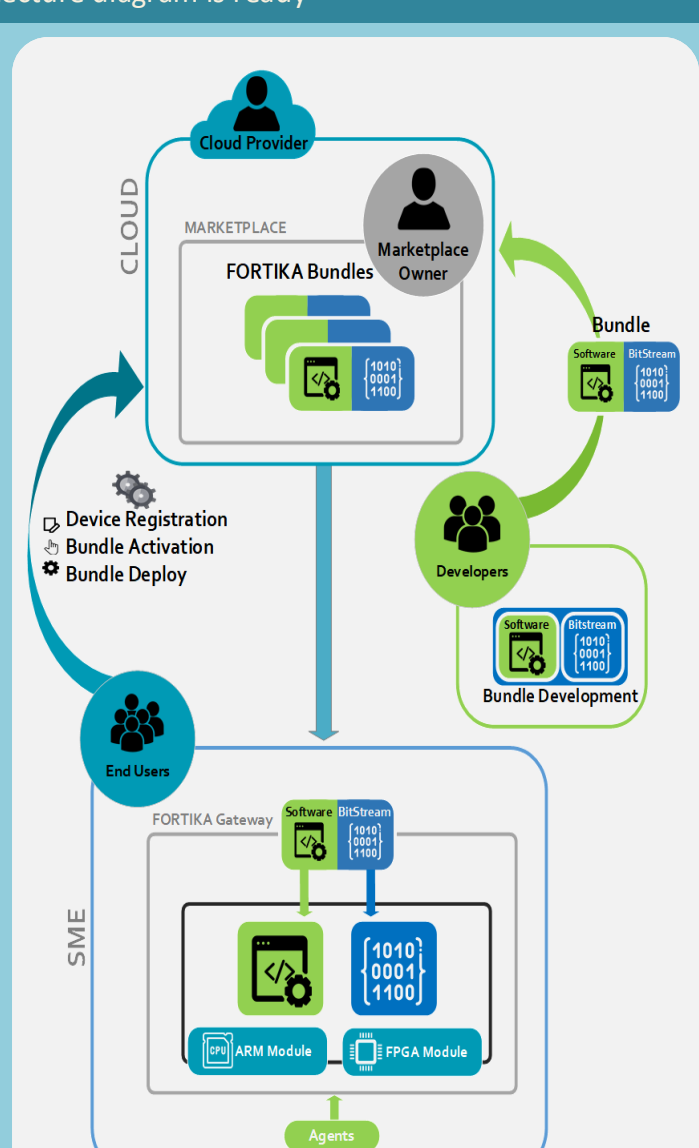
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Conceptual architecture diagram is ready

FORTIKA's high level architecture diagram, was produced for the needs of an internal report, describing the project's requirements and design. This is a conceptual view of the project's architecture which distinguishes the project stakeholders and main systems, and briefly describes the main activities that take place within the basic lifecycle of the project.



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