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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



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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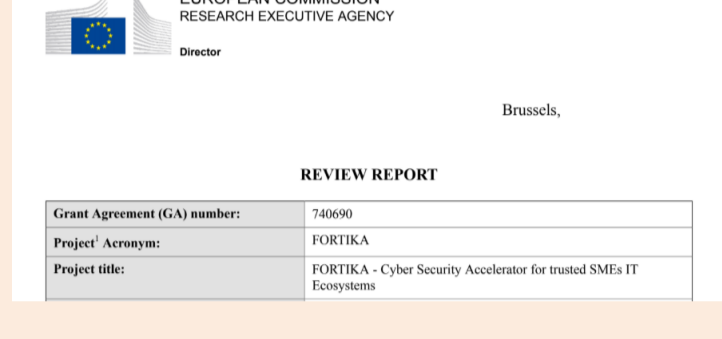
## FORTIKA - Cyber Security Accelerator for trusted SMEs IT Ecosystems

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### EU's Review and Accepted Deliverables

After FORTIKA's first successful review meeting that took place in July 2018 in Brussels, we are happy to announce the official acceptance of all submitted deliverables by the EU. This press release presents all public deliverables accepted, along with a short summary for each one



See more: <https://www.fortika-project.eu/>

### Work Package 1 Deliverables

#### Data Management Plan | Open Research Data Pilot

This document presents the 1st version of the project's Data Management Plan (DMP). The DMP provides an analysis of the various datasets that will be produced by the project. In this DMP we are discussing about the categorization, manipulation and inclusion of data sets in the FORTIKA project.

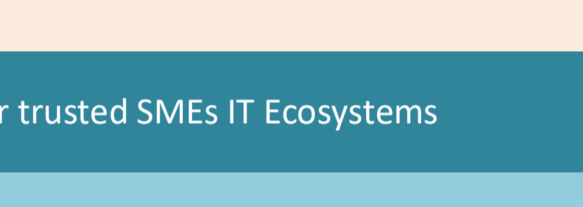


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## FORTIKA - Cyber Security Accelerator for trusted SMEs IT Ecosystems

### Work Package 2 Deliverables

#### Ethics Manual and Guidelines for information security in SMEs | Report

This report contains all related important issues, focusing on the day-to-day practical and technical, rather than strictly legal, issues that FORTIKA data processing partners have to face successfully. This involves both the present situation in their respective countries, as well as the new situation that is to become effective with the new GDPR.

### Work Package 3 Deliverables

#### SMEs Cyber Security threats digest and analysis | Report

The current report, Identifies the cyber security threats for SMEs and proposes a threat taxonomy for SMEs, Reviews existing standards on cybersecurity and finds applicability to FORTIKA, Discusses the market offering on cybersecurity solutions for SMEs, Overviews other research initiatives on cybersecurity for SMEs. The state on the art related to cyber security threats, has been evolving over the last years going from standalone threats that could affect only a single target, to a wider scenario where threats could be replicated and expanded to other networks via the Internet.

#### Use Cases definition and requirements document | Report

This report provides a high-level view on FORTIKA accelerator as a smart and robust HW security layer providing robust and cost-effective mitigation mechanisms to SME's potential threat. This document is the first document within the series of deliverables of Work Package 3 within the project FORTIKA.

#### FORTIKA requirements and guidelines | Report

The current document describes the requirements capturing methodology applied in FORTIKA. This first iteration of the system requirements includes a detailed discussion of the needs and wishes of the pilots hosting partners in terms of the threats they are facing and the necessary countermeasures.

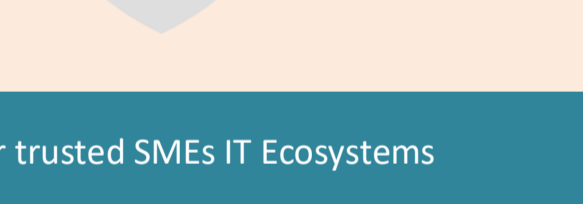


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## FORTIKA - Cyber Security Accelerator for trusted SMEs IT Ecosystems

### Work Package 3 Deliverables

#### FORTIKA Architecture | Report

This report outlines the conceptual architecture of the system, in order to provide a holistic view on the architecture, its building blocks, components, interdependencies among components and related constraints such as development methodology. It also describes the functional and technical specifications of the components that comprise the FORTIKA system architecture, defining the functional, development, and deployment view of the system.

#### Use Cases definition and requirements document | Report

This deliverable D3.5 provides detailed definition of FORTIKA use cases, scenarios and related threats related to the consolidated use cases. Additionally, this document provides a high-level view on the use of FORTIKA gateway accelerator as a smart and robust hardware security layer providing robust and cost-effective mitigation mechanisms to SME's within defined use cases and scenarios mitigating potential threat.

### Work Package 7 Deliverables

#### Marketing, Dissemination plan and Dissemination Material | Report

This document is the first deliverable on reporting FORTIKA's dissemination strategy and expected results. The document presents a systematic approach towards understanding and utilising the proper tools and means to inform all related communities and interested parties, of FORTIKA's goals and vision.

#### Report on Dissemination Activities, Public Participation and Awareness | Report

The deliverable D7.2, is a report on Dissemination Activities, Public Participation and Awareness and its main task is to provide a clear view of the dissemination efforts during the first Year of the project. The dissemination activities of FORTIKA are targeting in three main areas Public, Scientific and Industry.



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## FORTIKA - Cyber Security Accelerator for trusted SMEs IT Ecosystems

### Work Package 7 Deliverables

#### A set of standards stemming from the application of cybersecurity technologies on SMEs | Report

The goal of this report is to provide SMEs with a practical, concise, and up-to-date overview of the most important standards for cybersecurity, both at the European and the global level, together with the most important EU regulations and directives. This is the first version of the report on synergies with EU cybersecurity eco-system and analysis, with two more to follow during the next two years of the FORTIKA project as separate deliverables according to the respective Grant Agreement.

See more at <https://fortika-project.eu>

For more detailed information about the deliverables, please contact project's dissemination manager at

[fortika@pasiphae.eu](mailto:fortika@pasiphae.eu)



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