SECONDO

A Security ECONomics service platform for smart security investments and cyber insurance pricing in the beyonD 2020 netwOrking era

SECONDO Newsletter
Issue 13│MAY 2023

WE INTRODUCE YOU TO THE **thirteenth SECONDO** NEWSLETTER!

We are pleased to present you the thirteenth issue of the SECONDO Project Newsletter.

Cyber insurance is crucial for Small and Medium Enterprises (SMEs) in the European Union (EU) due to the escalating threat landscape in the digital age. SMEs are increasingly becoming targets of cyberattacks, ranging from ransomware to data breaches, posing significant financial and reputational risks. With the EU's General Data Protection Regulation (GDPR) in place, the legal and financial consequences of failing to protect sensitive customer information can be severe. Cyber insurance offers SMEs a safety net by providing financial coverage for the costs associated with data breaches, including legal fees, notification expenses, and potential regulatory fines. Moreover, it facilitates the implementation of robust cybersecurity measures by encouraging businesses to adopt preventive measures and risk management strategies. As SMEs play a vital role in the EU economy, the resilience of these entities against cyber threats is integral to the overall cybersecurity posture of the region, making cyber insurance an essential component of their risk management strategy.

The SECONDO consortium continues to work with all objectives and tasks as well as with all core elements to provide solid outcomes which are leading towards the completion of the project.

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PROJECT COORDINATION

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PROJECT DETAILS
Project number: 823997
Project Website: secondo-h2020.eu
Project start: 1st January 2019
Duration: 60 Months
Total cost: EUR 1 600 800
EC Contribution: EUR 1 600 800

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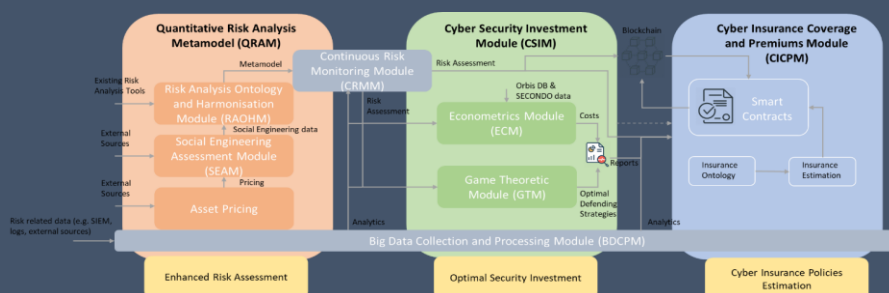### Issue 13│MAY 2023

What's New!

Currently, the SECONDO researcher having submitted the Deliverable D6.1 entitled "Platform integration" focus on delivering the final technical deliverable of the SECONDO project, the deliverable D6.2 entitled "Platform assessment".

The robustness and effectiveness of the SECONDO platform are evident through a meticulous evaluation process, where each module underwent individual assessment, ensuring its functionality and reliability. These modules were thoroughly scrutinized to meet predefined criteria and standards, verifying their capability to perform designated tasks seamlessly. Following this, a rigorous integration testing phase was executed to ascertain the interoperability of these modules. The integration process aimed at validating that the modules work cohesively, seamlessly exchanging information and executing tasks without any conflicts.

Furthermore, the communication channels between modules underwent extensive testing to guarantee smooth and error-free data transfer. This meticulous testing process involved scenarios that simulated real-world conditions to validate the platform's resilience under various circumstances. Issues such as data integrity, security, and latency were meticulously addressed to ensure a robust communication framework.

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What's New!

In addition to functionality and communication, the platform's performance was rigorously evaluated, with a focus on resource consumption. The CPU and RAM utilization of each module were measured under diverse workloads to gauge their efficiency and scalability. This performance evaluation not only identified potential bottlenecks but also provided insights into optimizing resource allocation for enhanced system efficiency.

The comprehensive assessment, integration, communication testing, and performance evaluation collectively underscore the platform's readiness for deployment. The thoroughness of these processes ensures a high level of confidence in the platform's stability, reliability, and efficiency, providing a solid foundation for its successful implementation in real-world scenarios.

The current phase of research has transitioned to a pivotal stage where the focus is squarely on evaluating the platform's efficacy in a real-life scenario. Having meticulously assessed individual modules, scrutinized their integration, and rigorously tested their communication and performance, researchers are now directing their efforts towards practical application. This involves subjecting the platform to real-world conditions and scenarios to gauge its responsiveness, adaptability, and overall functionality in a dynamic environment. By simulating authentic use cases and scenarios, researchers aim to validate the platform's ability to address challenges that may arise in practical implementations, ensuring that it not only meets theoretical benchmarks but also performs optimally when faced with the complexities and nuances of real-world scenarios. This phase marks a crucial step in bridging the gap between theoretical development and practical applicability, solidifying the platform's credentials for real-world deployment.

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IWAPS 2023

The IWAPS 2023 is co-organized from the following European Commission (Horizon 2020 Programme) projects: SECONDO, INCOGNITO, ERATOSTHENES, PHYSICS, EVOLVED-5G, aerOS, ENTRUST, TRUSTEE, CHRISS, OASEES, FAME, COBALT, RESCALE.

This workshop aims to strengthen security and privacy through research and relevant activities in the models and design of secure, privacy-preserving and trust architectures, investments in cyber-defense, data analyses, fusion platforms, protocols, algorithms, services, and applications for next generation systems and solutions. We especially encourage security and privacy solutions that employ innovative machine learning techniques to tackle the issues of inspecting large data volumes, cyberattacks, and variety problems that are systemic in IoT platforms, theoretical and practical challenges related to the design of privacy-preserving AI systems and algorithms and will have strong multidisciplinary components, including soliciting contributions about policy, legal issues, and societal impact of privacy and affect the cyber risk of the participating entities.

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IWAPS 2023

The 2023 IWAPS will bring together researchers, engineers, and practitioners to present and discuss latest advances and innovations in theories, infrastructure, schemes, and applications for secure computation, privacy technologies, security economics, human computer interaction, as well as to identify emerging research topics and define the future trends.

WORKSHOP CHAIRS:
- Aristeidis Farao, University of Piraeus, Greece
- Raisia Gorbunov, InQbit Innovation SRL, Romania
- Konstantinos Loupos, Inlecom Innovation, Greece
- Aggeliki Panou, University of Piraeus, Greece
- Ilias Politis, InQbit Innovation SRL, Romania
- Antonio Skarmeta, Universidad de Murcia, Spain
- Christos Xenakis, University of Piraeus, Greece
- Apostolis Zarras, Foundation for Research and Technology, Greece

KEYNOTE SPEKAER:
Dr. Dimitris Tsolkas holds a Ph.D. degree from the Department of Informatics and Telecommunications, National and Kapodistrian University of Athens (NKUA). He is currently a Senior Research Fellow at NKUA and he also leads research and development activities in Fogus Innovations & Services P.C, SME, Greece. He has long experience in Research & Development (R&D) as well as in project management, through his participation in a plethora of EC-funded projects. He has made vast contributions to the 5GPPP Technology Board (TB) and the 5GPPP/5GIA Working Groups (WGs), as well. His research record counts more than 60 articles in high quality journals, books, and conferences; while his current research interests target wireless networks and systems, with emphasis on architectural and resource management aspects in mobile communication networks.

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KEYNOTE

The 3GPP Common API framework (CAPIF) – open-source implementation and innovation potential: During the last decades, the use of Application Programming Interfaces (APIs) has served as a bridge between mobile operators and start-ups in emerging markets. Operators have begun to consider whether to open their APIs, starting from APIs related to mobile messaging, operator billing etc. In addition, the recently witnessed convergence of IT and Telecom worlds has contributed a lot to putting APIs in the epicenter of network programming and service provisioning. A representative example that proves this statement is the 5G Service Based Architecture (SBA), which has been designed based on the flexibility that HTTP/2 Restful APIs to provide interaction among 3GPP network functions. In this context, and in order to avoid duplication and inconsistency among the various API specifications that 3GPP has released, the specification of a common API framework (CAPIF) has been considered. In the framework of EVOLVED-5G project (https://evolved-5g.eu/), Fogus Innovation & Services P.C. and Telefonica Spain have developed and provide as an open-source product the Core Function of the CAPIF (namely the CCF), together with ready to use templates for compliant API service provide/consume entities. In the invited presentation, we will delve into the concept of network core openness through the exposure of CAPIF compliant APIs, and we will discuss the innovation potential that emerges by enabling a secure and interoperable interaction of third-party applications with network functions

Dr. Dimitris Tsolkas
National and Kapodistrian University of Athens (NKUA), Greece, and Fogus Innovations & Services P.C, SME, Greece.

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