5th Newsletter

July 2024

WELCOME

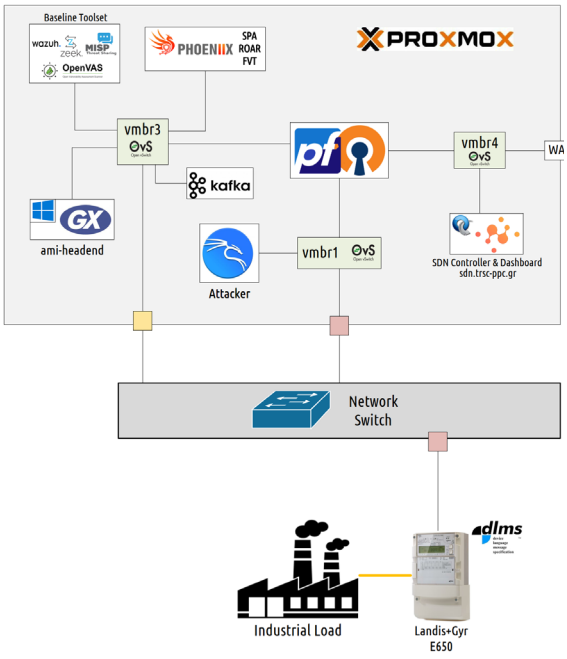
In April 2024 took place the mid-term review of the PHOENI2X project. This fifth Newsletter presents the project's main achievements over the last four months of the project. From the technical point of view, we have focused on the definition of the new functionalities for the final version of the PHOENI2X framework, including the baseline components, the AI-assisted Situational Awareness, Prediction & Response enablers, and the Coordinated Response & Preparedness enablers. The new functionalities of the PHOENI2X framework will be demonstrated in the context of the three use cases of the project: energy, transport and healthcare.

Review the past editions of the PHOENI2X newsletter to discover the technical advancements, as well as the events and news of the project during its first period of life. Stay tuned to our website, and Twitter, @Phoeni2xProject, where key project results will be published periodically.

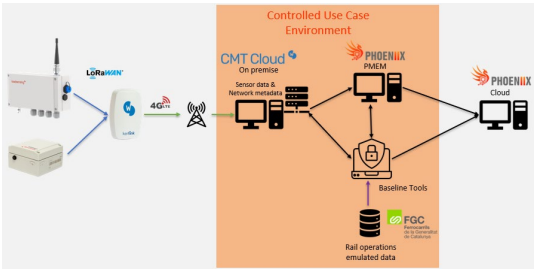
PHOENI2X PILOTS

The three critical infrastructures of the project (energy, transport and health) provided a testbed for the integration of the PHOENI2X framework, enabling the demonstration of main PHOENI2X functionalities including AI-assisted orchestration, automation & response for business continuity, recovery, incident response, and information exchange.

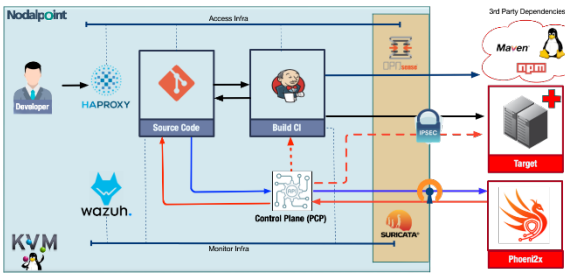
Energy



Transport



Health



This project has received funding from the Horizon Europe Research and Innovation programme under Grant Agreement No101070586.

The energy use case aims to demonstrate the PHOENI2X framework on an attack and response scenario that takes place on an energy infrastructure, replicating an Advanced Metering Infrastructure (AMI), considering three sub-scenarios: Prevention and Preparedness, Attack Phase; and Post Attack Phase. The transport use case takes place on a transport infrastructure on the OT system for safety monitoring of a railway section. Finally, in the health use case, the testbed has been designed and implemented in order to simulate a supply chain attack on the Healthcare supply chain infrastructure. In this use case the PHOENI2X integrated platform works in tandem with the use case infrastructure demonstrate the following scenarios: baseline activity, use of a vulnerable library, unauthorized commit and removal of a code branch.

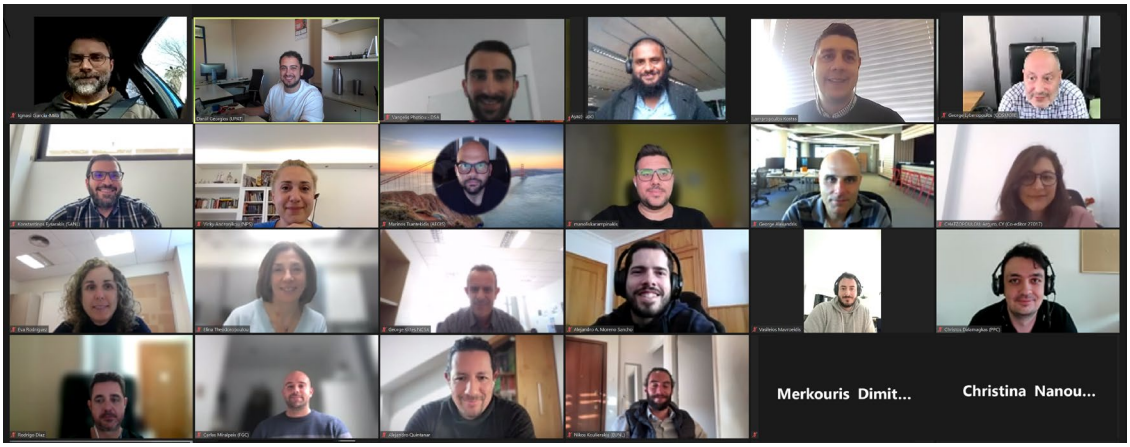
PHOENI2X NEWS AND EVENTS

PHOENI2X Mid-term review

On April 5, we held the mid-term review of the PHOENI2X project. During the review we presented the main achievements of the project in our first 18 months highlighting:

- PHOENI2X Framework architectural design
- PHOENI2X Baseline Establishment
- PHOENI2X AI-assisted Situational Awareness, Prediction & Response enablers
- PHOENI2X Coordinated Response & Preparedness enablers
- PHOENI2X Use Cases
    - Energy
    - Transport
    - Health
- PHOENI2X Integration, Testing & Use Case Validation
- PHOENI2X Dissemination, Exploitation, Standardisation & Sustainability

Very fruitful and successful meeting including demos of each one of the three use cases.



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Organization of the 2024 IEEE CSR Workshop on Information and Operational Technology Security (IOSEC2024)

PHOENI2X, jointly with JCOP, CUSTODES, CONSOLE, synapse and NGSOC EU-funded projects, participates in the organisation of the **IEEE CSR Workshop on Information and Operational Technology Security (IOSEC2024)**, in conjunction with the 2024 IEEE International Conference on Cyber Security and Resilience (IEEE CSR 2024).

The IOSEC workshop will bring together experts from academia, industry, and government to explore the commonalities of security problems and solutions for advancing the collective science and practice of IT and OT security, focussing on:

- Security architectures and frameworks for enterprises, SMEs, public administration, or critical infrastructures
- Threat modelling, detection, analysis, classification and profiling
- Artificial intelligence (AI)/machine learning (ML) and generative AI in cybersecurity
- Vulnerability risk assessment and management › Intrusion detection and prevention
- Secure and resilient software development
- Privacy enabling technologies
- Cybersecurity certification and standardization
- Cyber threat intelligence and collaborative defence
- Advancements in tools, processes, and approaches for security operations centers

The IOSEC Workshop will take place in London, UK, the 4th September 2024.

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6th PHOENI2X Plenary Meeting

The PHOENI2X 6th Plenary meeting was celebrated the 1st and 2nd of July, 2024, in Barcelona, Spain. The meeting was hosted by Worldsensing, and its main objectives were to discuss the new requirements for the final version of the PHOENI2X framework and to define the objectives of the project in its final year.

The first day's discussions revolved around the new functionalities that the PHOENI2X enablers will provide to the final version of the PHOENI2X framework, focussing on: (i) AI-assisted Situational Awareness, Prediction & Response; and (ii) Coordinated Response & Preparedness. The second half of the day was dedicated to dissemination, exploitation, standardisation and sustainability. WP6 partners worked on the stakeholders' questionnaire engagement, as well as innovation management.

The second day of the plenary meeting was focussed on the project use cases: (i) energy; (ii) transport; and (iii) healthcare. Use case owners presented the current status of the testbeds and the next steps to integrate the new PHOENI2X functionalities. In this session also was discussed future demonstrators that will be used to prove new PHOENI2X framework functionalities in the project use cases. The meeting concluded with an open discussion and wrap-up of the 6th plenary meeting.

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PHOENIIX

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