A Joint Catalogue of EU Solutions for Cybersecurity in Healthcare

TACKLING CYBER RISKS IN CRITICAL HEALTHCARE INFRASTRUCTURE

Context of the Project Group

Healthcare is consistently the highest sector for cyber-attacks. It is both an easy and lucrative target for cybercriminals exploiting the many vulnerabilities in IT systems, networked devices and human error. This is where CUREX, PANACEA and SPHINX come into play. They have joined forces to help healthcare organisations build their resilience to cyber-attacks. With a joint catalogue of EU solutions, the three EU-H2020 projects aim to help healthcare organisations prevent attacks and manage their recovery phases in the face of a successful breach of data.

Key results

◆ Innovative monitoring systems that automatically assess the imminent cybersecurity and privacy risks based on the vulnerabilities detected.

◆ A human-centric approach to cybersecurity focusing on developing secure staff behaviour with tailored awareness-raising and training packages.

◆ Facilitating better informed decision making and quicker responses to cyber-attacks.

◆ Ensuring secure integration and trusted interoperability.

Who benefits?

Healthcare organisations

Medical device manufacturers and providers

National cybersecurity agencies in Europe

Policy makers at EU and national levels

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Challenges

Societal

◆ Ensuring the secure handling of healthcare data while offering a user-centric approach for healthcare actors to better understand cybersecurity threats and the actions they can take to mitigate those threats.

◆ Focusing on the gaps and needs of individual employee groups to identify the most effective strategy for managing cybersecurity and data privacy risks.

◆ Encouraging secure behaviour among healthcare staff by recommending human-centric controls based on evidence-driven techniques, proven psychological theories and user-friendly educational packages.

Scientific and Technological

◆ Regulatory compliance, e.g., secure data sharing within and across hospitals in compliance with GDPR.

◆ Enabling security-by-design approaches to complex IT systems with security requirements tailored to the system and its functionalities coupled with compliance verification to increase conformity levels.

Industrial

◆ Generally poor cyber resilience of healthcare organisations with potentially high economic costs from cyber-attacks on IT systems and harm to patients due to service interruptions.

◆ The complexity of the healthcare ecosystem, which involves a myriad of different actors, connected devices and multi-user equipment.

◆ Technology solutions tailored to the specific challenges of the healthcare sector and regulatory compliance.

◆ Enabling adoption roadmaps and budget allocations with the support of top management.

Meet the Projects

CUREX - (seCUre and pRivate hEalth data eXchange) - Enabling secure and authorized sensitive health data exchange. **www.curex-project.eu**

Grant Agreement No. 826404

PANACEA - (Protection and privAcy of hospital and health iNfrastructures with smArt Cyber sEcurity and cyber threat toolkit for dAta and people) – an integrated solution for cybersecurity in healthcare covering technology, people and processes. **www.panacearesearch.eu**

Grant Agreement No. 826293

SPHINX - (A Universal Cyber Security Toolkit for Health-Care Industry) - Enhancing the cyber protection of Health IT Ecosystem and ensuring the patient data privacy and integrity. **www.sphinx-project.eu**

Grant Agreement No. 826183

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