EU Cybersec Month: KONFIDO is innovating eHealth security

The European funded KONFIDO project is working on an innovative architecture that enables secure exchange, processing, and storage of health related data. Meet Kenneth and his healthcare professionals who can authenticate themselves with their national issued eID and get secure access to health records in another country.

KONFIDO addresses the challenges of secure storage and exchange of eHealth data, protection and control over personal data, and security of health related data gathered by mobile devices.

The objective is to make cross-border interoperation of eHealth services provided by individual countries possible, while allowing each participating entity (private and public actors, as well as empowered citizens) to enforce specific policies for protection and control of personal health related data.

Secure access

For example: Kenneth (65 years old) lives in Copenhagen, Denmark, and suffers from Chronic Obstructive Pulmonary Disease (COPD) and chronic heart failure. He is planning to spend ten days in Barcelona, Spain, with his family but is concerned about a potential exacerbation. His doctor informs him that, thanks to the technology developed in KONFIDO and which has been deployed nationally in both Denmark and Spain, he can securely grant access to healthcare professionals in Barcelona to view part of his medical record.

When needed, Kenneth and the healthcare professionals in Barcelona can authenticate themselves with their national issued eID. Using KONFIDO's novel security mechanisms, Kenneth can be confident that data generated from any potential clinical intervention in Barcelona, including data coming from using a self-management mHealth app, will be securely transmitted and registered to his medical record in Denmark. This information will also be securely shared with the Danish specialist that is taking care of Kenneth, who can follow-up on the incident.

The KONFIDO project takes a holistic approach – i.e. one targeting all the architectural layers of an IT infrastructure, and specifically: storage, dissemination, processing, and presentation. It builds on and extends the results of a best of breed selection of successful EU-funded projects, notably: epSOS, STORK, DECIPHER, EXPAND, and ANTILOPE.

More information on Cordis and on the project website.

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The Horizon 2020 KONFIDO project is working to advance digital security of eHealth technology. In order to identify barriers and facilitators of cross-border data exchange, they have launched a survey. You can have your say until 19 November 2017.

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