PROTECTION AND CONTROL OF SECURED INFORMATION BY MEANS OF A PRIVACY ENHANCED DASHBOARD

PROJECT GOAL

In the current scenario of widespread use of digital services, and despite the overall awareness of legal requirements by the entities that process data, end-users remain worried about data privacy, data protection, digital identities and data ethics.

POSEIDON aims at developing a transparent ecosystem for personal data protection, in line with the EU’s General Data Protection Regulation (GDPR) with respect to digital security.

TECHNOLOGIES

BLOCKCHAIN  SMART CONTRACTS  CLOUD COMPUTING

POSEIDON is a project funded by the European Commission. This project has received funding from the European Union’s Horizon 2020 program under Grant Agreement n°786713.
The platform developed by the project will be assessed in four different pilot deployments (Italy, France, Spain and Malta), in public, private and mixed contexts.

- **Italian pilot**: Aims at enhancing e-services for public officials.
- **Maltese pilot**: Focuses on helping businesses to better sponsor and offer their services to customers.
- **Spanish pilot**: Aims to improve e-Government services for the citizens of Santander.
- **French pilot**: Is aimed at simplifying e-services for French citizens.
ARCHITECTURE

PoSeIDon platform includes different roles (end users, data processors) and components (dashboard, permissioned blockchain, identity provider, Data Processor API module, risk management module, and data privacy analyser).

All relevant information will be available to users via a user-friendly web dashboard which allows to track Personal Identifiable Information (PII), manage PII access permissions, and view the risk level stemming from their data exposure.

In order to reduce identity fraud and protect the privacy of users, access to the dashboard will be available only through eID accounts, in line with the eIDAS Regulation.

The solution is based on smart contracts and permissioned blockchain: while smart contracts meet the need for data confidentiality and inviolability, and access control for data subjects, blockchain technology enables secure PII management and exchange.

PRIVACY SUPPORT

PoSeID-on provides ample support for encryption (and privacy) between the involved actors (data subjects, data processors, administrators). PII data exchanges (e.g., between data processors, or between data subjects and data processors) are made through a message bus, but PII is encrypted in such a way that its content is not accessible, even to PoSeID-on administrations. PII in cleartext form pertaining to non-public transactions is not stored in the PoSeID-on platform, as well as transaction permissions. In short, no single party has access to relationship mappings outside its own membership.
POSEID-ON WILL COMBINE EXPERTISE, EXPERIENCE AND SKILLS OF PARTNERS ON PERSONAL DATA PROTECTION AND REGULATION NEEDS AS WELL AS TECHNOLOGICAL SERVICES DEVELOPMENT AND DELIVERY.

CONSORTIUM

THIRD PARTIES

SOGEI
MEF’S THIRD PARTY

CIAOTECH
PNO’S THIRD PARTY

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