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Identity Management Solutions Promoting Self-Sovereign Identity

| CONSENTIS foundational building blocks

CONSENTIS has made significant progress in advancing privacy-preserving data-sharing solutions through the development of foundational building blocks. These include Self-Sovereign Identity (SSI) components, innovative consent management mechanisms, and Privacy-Enhancing Technologies (PETs) for secure personal data management and exchange. These achievements are documented in deliverables D4.1, D4.2 and D4.3, which were officially released at the end of April 2026.

| Consent Management Mechanism

CONSENTIS released Deliverable D4.2, which describes the project's consent management layer leveraging smart contracts to enable transparent, accountable, and user-centric consent handling. This approach is particularly relevant in complex, cross-organisational data-sharing environments, where trust and clarity are essential.

Smart contracts serve as the central enforcement layer for consent lifecycle management. They anchor consent decisions on a tamper-proof distributed ledger, verify whether data access requests comply with the consent granted by the data subject, record each access attempt to ensure auditability, and support cryptographically authenticated consent revocation.

The deliverable provides detailed insights into the system's key components, including:

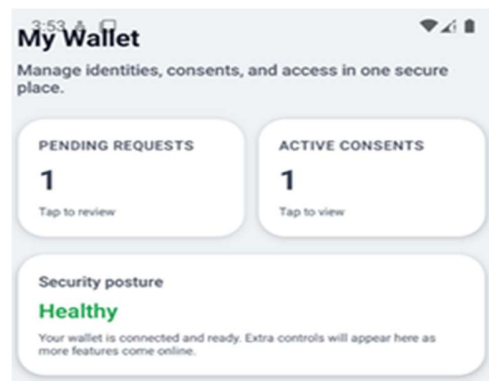
- Smart contract logic that governs consent operations
- The Smart Contract Generator, which enables flexible and automated contract creation
- Application-layer logic and orchestration that support seamless consent workflows within the Consent Management Platform (CMP)

CONSENTIS has released Deliverable D4.1, which presents the implementation of key Self-Sovereign Identity (SSI)-based components advancing the project's vision of user-centric and privacy-preserving digital identity management.

This deliverable introduces several core building blocks of the CONSENTIS framework, including:

- The CONSENTIS Identity Wallet, offering users intuitive tools to manage their digital identities, review and grant consent, and monitor how their data is used
- A privacy-preserving Discovery Mechanism, enabling the secure discovery of identity-related data across domains without exposing sensitive identifiers
- Supporting SSI and Consent Management Platform (CMP) agents, which orchestrate identity and consent workflows across multiple stakeholders

These solutions can be seamlessly integrated with external ecosystems such as the European Digital Identity Wallet (EUDI), while remaining aligned with evolving EU digital identity frameworks.



| Privacy and Data Control mechanisms including Privacy-Enhancing Technologies (PETs) for data sharing

CONSENTIS has released Deliverable D4.3, which outlines the technical solutions that enable privacy-preserving disclosure of health data within the CONSENTIS framework. The deliverable places particular emphasis on the use of Privacy-Enhancing Technologies (PETs), secure data transfer mechanisms, and application-layer components that ensure data exchange remains fully aligned with user consent.

In the current implementation, the functionality originally envisioned as a standalone Privacy and Data Usage Control module is realized through an extended Consent Management Platform (CMP) Agent.

This component operates as the control plane for privacy- and consent-aware data transfers, facilitating secure interactions between the insurance domain and the National Health Registry (NHR).

| Plenary Meeting in Athens

On March 11–12, 2026, the plenary meeting of CONSENTIS was successfully held in Athens, hosted by Karavias. An in-depth discussion took place on progress since the previous plenary meeting, key achievements and the current status of WP4, WP5, and WP7, as well as plans for the next phase of the project and the Midterm Review.



NEXT PLENARY MEETING
TO BE HELD IN OCTOBER 2026
IN CYPRUS
HOSTED BY ITML

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Disclaimer

This project received funding under Grant Agreement No 101168011.

The project is supported by the European Cybersecurity Competence Centre.



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