e-SENS ELECTRONIC SIMPLE EUROPEAN NETWORKED SERVICES

e-ID

e-Identity's goal is to establish cross-border recognition and validation of national electronic identity schemes to support the requirements of e-Government applications in different domains.

Thus e-SENS permits businesses, citizens and government employees to use their present national e-ID solutions when accessing public administration services in other EU countries. e-SENS provides the framework architecture that defines a set of protocols, formats and data definitions to implement a cross-border authentication architecture.

The e-ID solution benefits from experience gained in this area under the other LSPs, in particular STORK. This building block also addresses additional challenges such as mobile e-ID And takes advantage of colloborating with ongoing projects like Future-ID. It guarantees alignment with the eIDAS regulation, reducing burdens for accessing public administration services in the EU.

e-Signature

e-Signature aims to provide cross-border interoperable components for a secure electronic signature infrastructure in different domains.

The main purpose of such a signature is to bind an e-Document to an entity. The building block consists of e-Signature Creation and Verification services as a core architecture framework.

The e-Signature will follow legal and interoperability frameworks (The eIDAS regulation and the EU e-Signature Standards Framework) and prove that real-life interoperability is possible. e-SENS will also support mobile signature solutions to establish e-Signature services using a mobile signing device.

e-Documents

The e-Document building block is a container component used to wrap business content and handle electronic documents.

It supports different types of e-documents: structured, unstructured, images, binary sequences and other.

It provides support for the implementation of business services that cover the whole document lifecycle, including creation, maintenance, audit trailing, archiving and business rules processing.

The e-Document building block addresses a number of different functions: support for multiple payloads, e-signatures assigned to payloads, e-delivery routing information, and metadata used to describe payloads.

e-Delivery

e-Delivery has the aim of establishing a common transport infrastructure suited to the requirements of cross-border communication between e-Government applications in different domains.

It enables the secure exchange of business data between organisations and citizens using existing national, sectoral or commercial messaging infrastructures.

e-Delivery is based on the concept of a four-corner model, where end-entities exchange messages via gateway intermediaries.

The e-Delivery infrastructure does not replace existing infrastructures, but aims to interconnect existing electronic delivery communities in a transparent way.

Technical Solutions - learn more

Semantics

The semantics building block is mostly focused on semantic interoperability from a legal and official document perspective (evidence, attestation).

Semantic technologies provide many concepts and tools to make machine-understandable descriptions of data, programs, and infrastructure, enabling deeper automatic processing of those items by computers.

The scope of the e-SENS Semantics aims at:

· Creating an e-SENS specific layer of semantic resources, concepts and codes to de-reference syntactic items (terms);

· Creating the services to enable semantic mappings between terms and resources, or between terms. Translations and searches can later be included in this second task.

Architecture

e-SENS aims to provide a coherent European Interoperability Reference Architecture (EIRA) with consolidated reusable ICT building blocks.

The EIRA is a four-view reference architecture for delivery of digital public services in Europe. It defines the required capabilities for promoting interoperability as a set of Solution Architecture Templates, such as e-ID, e-Signature, e-Document, e-Delivery and Semantics. Technical solutions are tested in a real-life environment to enable true transactions across borders in various policy domains. The e-SENS building blocks will provide the foundation for the platform of "core services", for the eGovernment cross-border digital infrastructure foreseen in the Connecting Europe Facility.

Technical Solutions - learn more

Find us on social media!

Info & contact

 #eSENS_EU

 #EU e-SENS

 #Eu.eSENS

 esens.info@lists.esens.eu

 www.esens.eu

 www.buildconnectgrow.eu

The aim of e-SENS is to develop ICT-based solutions for seamless cross-border communication with public authorities. Their real-life testing - piloting - enables actual transactions among public administrations, or between them and European citizens and businesses. Learn how cross-border digital public services can improve your life!

build connect grow .eu

ICT PSP

cip