e-SENS
Electronic Simple European Networked Services

ISSE 2016 Conference
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e-SENS, eIDAS and Trust Models

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Agenda

1. The e-SENS Project
2. e-Identity
3. e-Delivery
4. Trust Models
THE E-SENS PROJECT AND ITS CONTEXT
The e-SENS Large Scale Project

Public administrations, agencies, companies from 22 countries

interoperable IT solutions

public services in Europe

cross-border access

Connecting Europe Facility

TEN-TELE Regulation
eIDAS Regulation
Re-using technical solutions

Cross domain re-usable building blocks

e-Identity  e-Delivery

e-Documents  e-Signatures

making justice faster.eu

making procurement better.eu

making access smarter.eu

making healthcare better.eu

making business easier.eu
eGovernments services in various Domains

- eProcurement
- eHealth
- eJustice
- Citizen Lifecycle
- Business Lifecycle

[Image of various business and citizen lifecycle stages]
eIDAS possibilities showcased and piloted in e-SENS

eIDAS Regulation N°910/2014

TRUSTWORTHY - CONVENIENT - CROSS-BORDER - SEAMLESS

eIDAS: HOW IT WILL BENEFIT YOUR BUSINESS?

BEFORE
- Danger of uncertified website
- The Swedish SME is not authenticated, might be fake
- Exchange of physical documents...

NOW
- Creation of the e-document
- E-signature (Swedish company legally valid)
- Document authenticated
- E-seals

A SWEDISH COMPANY WANTS TO PARTICIPATE IN A PUBLIC CALL FOR TENDER IN CROATIA

E-COMMERCE
- More
- Sharing economy
- Financial banking
- Transport
- Health
- Procurement
- Invoicing
- E-payments
- Trust service providers
- Cross-border recognition of eID means

23 JUL 2014
- Adoption of eIDAS regulation
29 SEP 2015
- Voluntary recognition of eID means
1 JULY 2016
- EID interoperability infrastructure available under connecting Europe facility (CEF)
1 JULY 2016
- Cross-border recognition of eID means
29 SEP 2018

LESS DOCUMENT STORAGE
- 1 - 2 weeks
- 1 - 3 days
- 1 - 4 days
- 1 - 7 days

LESS TIME
- Hours - few days
- Euro cost
- €50 - €100
- £10 - €20
LSP family, e-SENS and CEF

e-SENS is European Commission co-financed initiative

It is also based on the developments of former Large Scale Pilots

The e-SENS results are fed into the Digital Service Infrastructure of the Connecting Europe Facility
What are the CEF DSIs

Digital Service Infrastructure

A. Core Service Platforms
B. Grants (Generic Services)

Sectorial

Europeana
Safer Internet
Open Data
ODR
eHealth
eProcurement
EESSI
eJustice Portal
BRIS

Building Block

eID
eSignature
eDelivery
eTranslation
eInvoicing
CyberSecurity

List of Building Block projects funded by CEF

List of sector-specific projects funded by CEF

(*) A Building Block is a package of technical specifications, services and sample software that can be reused in different policy domains.

CEF PRINCIPLES

# Cross-border use
# Deliver services by digital means
# Have sufficient maturity
# Contribute to EU policies
# Plan to become sustainable
# Comply, as much as possible, based on market-driven open standards and technical specifications

# Be reusable in different domains/sectors
# Be reusable by other DSIs
E-IDENTITY
e-Identity in e-SENS

Identify patients
Register a business
Attend online courses
Use farmers’ portal

Sign after cross-border authentication
Record matching
Access any eServices

e-SENS will face challenges in digital world

Solutions for e-ID usage in contemporary environment
- modular mobile e-ID
- cloud based solutions

http://www.esens.eu/
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<th>Project</th>
<th>Version</th>
<th>Owner</th>
<th>Solution provider</th>
<th>Activity</th>
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<td></td>
<td>DG CONNECT</td>
<td>MS consortium</td>
<td>2009 - 2012</td>
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<td>MS consortium</td>
<td>2014 - 2017</td>
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Source: EC
**CEF eID: the journey towards eIDAS**

**From proof of concept:**
- pilots by Member States: STORK & e-SENS
- integration by the Commission: ISA ECAS – STORK

**To deployment:**
- **CEF eID:** Commission providing eIDAS compliant sample implementation, coordination and support with Member States
- **eIDAS Nodes:** Member States implementing national eIDAS Nodes to make their eID scheme available across borders

- Countries who have received CEF grants for implementing an eIDAS Node
- Countries who have expressed the intention to implement an eIDAS Node

Source: EC
eID Opportunities for industry

⚠️ Service Providers
- Identify and authenticate citizens of all EU countries
- Retrieve trusted attributes

⚠️ Identity and Attribute Providers
- Provide a service through your country so that your eID schemes can be used across borders

⚠️ No need to run an eIDAS node
- MS provide out-of-the-box services

WORK WITH YOUR NATIONAL AUTHORITIES !!
Still using STORK?
E-DELIVERY
The 4-corner model of e-Delivery
e-Delivery in e-SENS

Submit an electronic tender
Retrieve business documents
Send electronic invoices
Send confirmation of insurance
Exchange legal documents

Connect service providers
Connect national providers of registered e-mail
Connect administrations with citizens and businesses

e-Delivery is an electronic communication protocol, that allows exchanging data electronically - via gateway intermediaries.

What can be e-Delivered?
- e-Documents
- e-Signature
- Metadata

Tested solutions are based on previous LSP projects

- e-Delivery
- eCODEX
- SPeCS
- PEPPOL
e-Delivery opportunities for industry

- Deploy an Access Point and become a provider
- Exchange documents in a secure and reliable way
- Connect with other providers and establish communities
- Develop e-Delivery solutions as a vendor
- Apply for grants through the CEF Programme

USE THE BUILDING BLOCK!
TRUST MODELS
Direct Trust – Mutual Key Exchange

e-Justice, eConfirmation
Community Trust using dedicated PKI

eProcurement, eHealth (pre-production only)
Trust Federation using Trust Lists

eHealth, eTendering
Security Token Services for Trust Brokerage

Interconnecting national e-Delivery infrastructures

[Diagram showing interconnection of trust domains and security tokens]
Multi-domain Trust
Establishment and Brokerage

- Trusted Services in a multi-domain and cross-border ecosystem
- Different trust models co-exist in different domains
- A trust meta-model is necessary for aligned policies
Thank you for your attention!

Visit e-SENS: www.esens.eu

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LinkedIn: groups/EU-eSENS-4998775

Contact us: esens.info@lists.esens.eu

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