Taking down digital barriers to cross-border business
HOW?

- Digital Agenda - 100 actions EIS, EIF
- EU 2020 - 7 flagship initiatives
- Services Directive - EUGO
- eGovernment Ministerial Declaration
- Digital Agenda - 100 actions
LSP: Easy access to online public services across the EU

- Use ICT to develop concrete solutions for EU-wide services
- Implement a common solution to interoperability
- Build on existing technical solutions- available infrastructures
- Create common specifications through stakeholder participation
- Results are made public and freely available
- Develop long term sustainability plans
The Core Building Blocks evolved per project

- **e-ID**
  - STORK, STORK 2.0
- **e-Signatures**
  - PEPPOL
- **e-Documents**
  - PEPPOL/SPOCS
- **e-Delivery**
  - PEPPOL/SPOCS/e-CODEX
- **Privacy**
  - epSOS

But the building blocks are used **across** projects
LSPs interoperability activity
WHY SPOCS?

Businesses seeking to expand into other countries often struggle to comply with all the regulations they need to follow.
Doing business in other EU countries is getting simpler.

YES! SPOCS will allow them to do all the administrative procedures online through the Point of Single Contact!
WHAT?

- Greater business opportunities in the public sector
- Less red-tape
- Increased transparency
- Better online services
- Administrative simplification & modernization
- Product innovation based on open specifications and software
- Stimulating demand for IT products and services
What does SPOCS bring for (re-)use in and beyond the Services Directive?
Piloting countries and professions

Nine Member States integrated SPOCS tools with their existing infrastructure and practices

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Two-way and one-way (→) pilots
SPOCS interoperability building blocks

- eDocuments
- Syndication
- eServices
- eSafe
- eDelivery
SPOCS Assets: Building Blocks and Pilots

Overview of Pilot interoperability

Building Blocks
- eServices & Syndication
- eDocuments
- eDelivery
- eSafe
Building Block

eDelivery
• It is a reusable transport solution
  …. That should be the basis of future cross-border services
• It is a plug & play connection solution for
  New countries
  Companies…. Citizens… Public Authorities…
• Based on existing solutions!
Transport across borders

Interoperability layer
- Profiles of transport standards
- Open standards
- Secure & reliable transport
Assignment of requirements (EIF)
Used software standards and involved standardization bodies

Basic Standards SW Stack

ETSI REM Evidences TS 102 640

ebMS 3.0

WS-Reliable Messaging 1.1
WS-Security 1.1
SOAP 1.2

Standardisation bodies

ETSI
OASIS
Building Block

eSignature
Objectives of eSignature

WHY does the eSignature building block exist?
• To provide cross European interoperability of electronic signatures, focussing on the verification process.

WHICH issues does it address?
• Signature validation service which can validate a high number of European digital signatures cross border.
• Quality classification of the digital signatures.

WHAT are the benefits?
• High flexibility of solution: It can be implemented in any scenario with digital signatures.

WHO can benefit and HOW?
• Service providers can easily implement the solution and offer respective services and software.
• Contracting authorities can validate any digital signature.
• Economic operators can use their favoured signature solution.
All Qualified CAs from EU-TSL

- Belgium
- Finland
- Lithuania
- Norway
- Poland
- Austria
- France
- Italy
- Greece
- Spain

- Germany
- Suisse
- Suisse
- Bulgarina
- Czech
- Estonia
- Latvia
- Hungary
- Malta
- Netherlands
- Portugal
- Romania
- Slovakia
- Denmark
- Slovenia
- Sweden
- United Kingdom
- Luxembourg
Infrastructure and Components ready to use

- Open source server software
- Free to use validation client with API for integration
- Own implementation towards XKMS interface (with Toolkit)
Building Block

e-Documents
Objectives

WHY do the e-Document solutions exist?

- To **achieve interoperability** (legal, organizational, semantic, technical) in **cross-border tendering** procedures
- To **provide common understanding** of national regulations
- To **simplify** qualification procedures, especially in cross-border processes, which are **currently paper-based, in-transparent, time consuming** and **complex**

WHICH issues do they address?

- Current procedures in different domains are **heterogeneous in procedures and support systems**, are **based on different laws** in individual Member States, Member States request **evidences in the language of their country**
- **Lack of standardization** and agreed semantics
- **Lack of interoperable data exchange formats** for qualification dossiers
- **Missing common understanding** of national legislations, mapping evidences existing in a country to qualitative selection criteria requested by another country, etc.
Benefits

WHAT are the benefits?

- Reduced transaction costs for economic operators and authorities
- Improved quality and accuracy of qualification information
- Simplified creation and submission of documents across borders
- More reliable and secure electronic document exchange
- Interoperability in the exchange of qualification dossiers and in the IT services to support processes

WHO can benefit and HOW?

- Public authorities, businesses, citizens and IT service providers
- Easier interpretation of laws and information support through transparent criteria-to-evidence mapping across countries
- Support of electronic signatures and signature validation
- Tool-supported creation and submission of documentation
- Ready-to-use software that can be integrated in existing systems
PEPPOL started with a Virtual Company Dossier (VCD) for documents related to public procurement...

SPOCS generalized this into an Omnifarious Container-format for eDocuments (OCD):

- **This is a multi-layered container** format which is able to contain (wrap) any existing eDocument (as they are issued by MS)

- **An OCD is a logical structure** which might be implemented through several technologies.
  - Currently a **PDF and a ZIP** based container are specified
  - Intention: **ZIP for back office** and **PDF for citizens**
There are three layers:

**Payload Layer**
- every eDocument format has to be expected as we have to accept the given documents issued by the Member States.

**Metadata Layer**
- holds meta data of the document described by a common language; provides semantic interoperability.

**Common Authentication Layer**
- in addition to authentication elements (eSignatures) on the payload the whole container can be signed (visible signature).
e-Documents common specification define operations on containers:
  • Mainly creation and verification of containers
→ Open software modules:
  • **Processing Module**: creating containers
  • **Authentication Module**: verifying containers
  • **Extraction Module**: extracting containers
  • Available as **Java API** or **SOAP Web-Service**
  • Licensed under **EUPL**
Building Block

e-Identity
The eID building block’s aim is…

… to build a Pan European eID federated authentication infrastructure where:

• Public Administrations utilize for eID authentication, enabling citizens to transact internally and for cross border services
• Industry and SMEs to generate economic activity and build value for themselves and the economy at large…
What is the eID building block?

it is…
• a common framework for electronic identification
• based on open source common building blocks.

and…
• connect all existing national infrastructures and
• integrate different methods of electronic identification.

STORK complements what’s already there!
eID building block today!
The infrastructure works!
Pilots are running!
Privacy is a core challenge, e.g. looking at the flow of information in e-Health.
Search for a Patient

International Patient suchen

- Staat: Tschechische Republik
- Familienname: Zárubová
- Vorname: Nina
- Patienten Id: 6212122627

Patientenliste

- Zárubová Nina
  - Bohvojova 123, 12000, Kladno, Česká republika
  - 01.02.2001
Confirm Treatment Relationship
Industry has already been involved in different LSP’s…

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epSOS Example
Starter Kit: overall setup

SPOCS Starter Portal: General Information

General Information PDF

SPOCS Software Portal

GUIDE

i.e. SPOCS Deliverables, presentations etc.

SPOCS
Joinup: a new home for SPOCS

• Joinup is a new collaborative platform created by the European Commission and funded by the European Union via the ISA Programme.
• Joinup offers all the required facilities to host open source projects.
• SPOCS is compliant with the open source requirements of Joinup.
SPOCS & Joinup

- SPOCS artifacts are released under the EUPL license
- The licenses of third parties libraries are clearly reported
- SPOCS artifacts and documents will be freely and publicly available on Joinup
- SPOCS source code will be publicly accessible on the Joinup subversion repository
**Starter Kit: from the SPOCS environment to the Joinup facilities**

- **Setup**
  - Definition of the documentation template
  - Definition of the technical infrastructure

- **Validation**
  - Production of the documentation for a single building block
  - Publication on the SPOCS reference environment

- **Rollout**
  - Production of the documentation for the other building blocks
  - Publication on the ref. environment

- **Migration**
  - Migration of sources, documentation and binary artifacts to Joinup
Apache Maven: a project management framework

- Maven has been developed by the Apache Software Foundation to improve the overall quality of software projects.
- Maven assists in the deployment of project artifacts (java library, javadocs and sources) in publicly available repositories, so the reuse of SPOCS artifacts will be greatly simplified and enhanced.
- Maven has been adopted in SPOCS to manage all the software projects.
- Joinup offers all the facilities required to manage the software lifecycle with Maven without placing any additional requirements on the MS infrastructures.
Where we started at….

What we aim to accomplish together…

Taking down digital barriers to cross-border business
Are you playing?
For further information visit our website

www.eu-spocs.eu