

eDelivery

eDelivery is the SPOCS building block responsible for the safe delivery of electronic documents in different formats, as well as end-to-end acknowledgment receipts.

SPOCS eDelivery - It's all about Gateways, Evidences and Trusted Service Lists!

The SPOCS eDelivery defines a protocol to interconnect different eDelivery systems in Europe. This protocol is based on three key components:

SPOCS Gateways: A gateway is a service that converts back-and-forth from the different message formats and transport protocols used by Member States eDelivery systems to the SPOCS Interconnect Protocol. The main operations provided by SPOCS gateways are: appropriate message conversion and reliable routing; provision of message transport evidences; and mutual authentication of nodes involved in message transfers.

SPOCS Evidences: An Evidence is a message carrying only information raised during the message routing. They serve as control, proof or notification of the dispatched message flow. In a nutshell, evidences provide for a valid proof of end-to-end message delivery.

SPOCS TSLs: The establishment of trust and routing in the Interconnect Protocol is achieved by using the so-call SPOCS Trusted Service Lists (TSLs), which are based on the TSLs as defined by ETSI TS 102 231 v3.1.2

Main functionalities eDelivery

- Conversion between different eDelivery message and transport protocol formats
- Provision of Trust
- Evidence of end-to-end delivery



eDocuments

eDocuments is the SPOCS building block responsible for the processing and validation of electronic documents in different formats.

SPOCS eDocuments - It's all about OCDs!

Nearly every transaction in SPOCS requires having eDocuments involved. Either a service provider is going to provide electronic documents to a Point of Single Contact or a service provider receives electronic documents from a Point of Single Contact. Nevertheless, electronic documents may be of any format and may be issued by various entities, for example, by public authorities, by private organizations or service-providers. Therefore, the SPOCS eDocuments building block introduces a multi-layered eDocument container format: the Omnifarious Container for eDocuments (OCD).

Main functionalities eDocuments

- OCD creation, extraction and validation
- Visualization of Digital Signatures

Further information

SPOCS Pilots website: www.eu-spocs.eu
For further questions please contact us at communication@eu-spocs.eu



@EUSPOCS



SPOCS EU



SPOCS project



Doing business in other EU countries is getting simpler

Businesses seeking to expand into other countries often struggle to comply with all the regulations they need to follow. Applying for licenses, permits and completing other administrative procedures in another country can be very complicated.

SPOCS (www.eu-spocs.eu) is a large-scale pilot project launched by the European Commission in May 2009 that aims to overcome these obstacles.

SPOCS – Simple Procedures Online for Cross-border Services (www.eu-spocs.eu) aims at providing seamless cross-border electronic procedures for setting up a business in another EU country in the context of the Services Directive. The project builds on solutions developed in Member States as they implement the Services Directive. Building on compliance with the Services Directive, SPOCS is also about competitiveness. Furthermore, SPOCS will also benefit from the achievements of other similar pan-European projects such as PEPPOL on eProcurement and STORK on eIdentity.

SPOCS building blocks

Syndication

eSafe

eDocuments

eServices

eDelivery

SPOCS building blocks

The SPOCS pan-European interoperability layer is composed of 5 building blocks focusing on answering the following key questions related to electronic procedures in Points of Single Contacts portals:

1. **Syndication:** How to inform the end user of my PSC which documents should be provided?
2. **eServices:** How to improve the usability of my PSC by including cross-border electronic services?
3. **eSafe:** How can the service provider safely store and retrieve documents?
4. **eDelivery:** How to exchange electronic documents in an asynchronous manner?
5. **eDocuments:** How to represent, sign and exchange electronic documents?

Interested in SPOCS? How can you participate?

All interested parties have the opportunity to influence developments, provide feedback and make proposals by participating in one of the following groups while registering to the **SPOCS site** (www.eu-spocs.eu):

- > Member States - PSCs
- > Large Scale Pilots
- > IT Industry and Standards Bodies
- > Business Representatives and End Users
- > Local Government

Syndication & eServices

The Syndication and eServices software building blocks support mapping of equivalent documents required by application processes in member states, which eases the burden on Points of Single Contacts (PSCs) of identifying the relevant documents from foreign administration's procedural descriptions.

SPOCS Syndication - It's all about MIDBs!

Content syndication is the set of mechanisms to distribute public information (or meta information describing this information) on eGovernment services between information systems of governmental authorities.

SPOCS eServices - It's all about the Interoperability Layer!

The eServices building block aims at establishing interoperability between the PSCs, Service Catalogues (SCs) and electronic Services Directories (eSDs). This interoperability is achieved by the common specifications, guidelines, open modules and semantics. Together, these open modules provide for the eServices Interoperability Layer.

The building blocks provide the following functionalities:

Load and Update MIDB: Information of the Services Catalogue (SC) and eServices Directory (eSD) is extracted and inserted into the local instance of the MIDB (Meta Information Database)

Syndication: Information is transferred (syndicated) to the MIDBs of the other Member States, and the information of other Member States is syndicated to the local MIDB.

Search for information: PSC searches for relevant foreign services and eServices in its local MIDB, based on flexible search criteria. PSC retrieves detailed information for specific services and eServices.

Main functionalities Syndication & eServices

- Syndication of service and eService information
- Support of mapping of equivalent documents
- Search for service, eService and related information

eSafe

eSafe is the building block providing the cross-border integration of electronic safes in Europe, with the necessary security.

SPOCS eSafe - It's all about PUSH or PULL!

SPOCS eSafe enables access to secure storages solutions by authorized parties, using an integration protocol that is based on well-established standard protocols such as HTTP or Web services, and also is inspired on the proven EPS e-payment standard for integrating payment activities in foreign portals. The communication is SSL/TLS secured. The SPOCS eSafe specification is open to be extended for multiple transport mechanisms, such as SPOCS eDelivery.

Two main aspects are addressed by this module:

Document Transfer Payload: the OCD container (SPOCS eDocuments) is used, the integrity and authenticity is guaranteed by making use of digital signatures.

eSafe Interoperability: Two principles of eSafe integration are identified and specified in detail:

PUSH: the Service Provider (SP) delivers via her eSafe electronic documents directly to a PSC, while interacting on the PSC platform.

PULL: the SP grants the PSC permission / access information to her eSafe to retrieve (PULL) e-documents.

Main functionalities eSafe

- Interoperability protocol for eSafes
- Retrieval of documents with the PUSH principle