



**DIGIT**  
Directorate-General  
for Informatics

**DG Connect**  
Directorate-General for Communications  
Networks, Content and Technology



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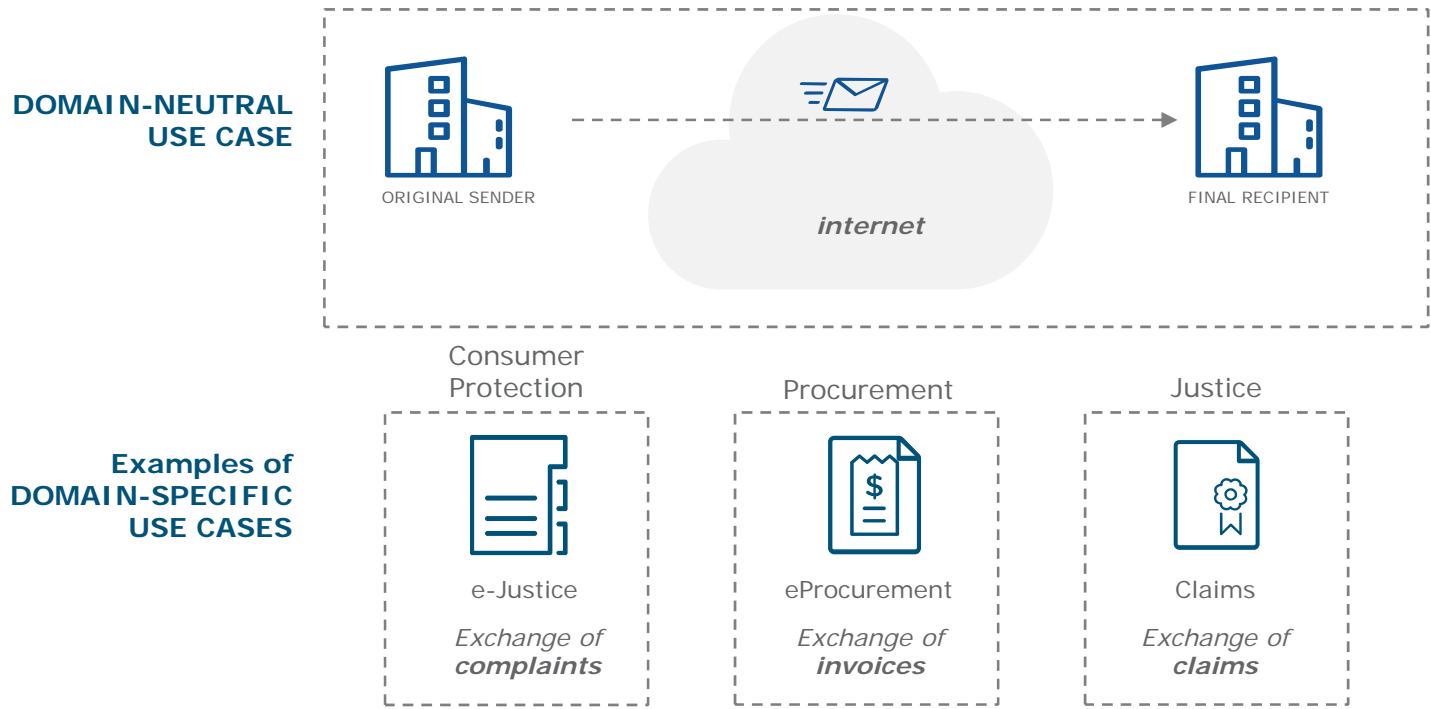
Connecting Europe Facility  
**Introducing CEF eDelivery**

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Christian RASMUSSEN, DG DIGIT

# Introduction to CEF eDelivery

# The eDelivery Use-Case



Risk reduction

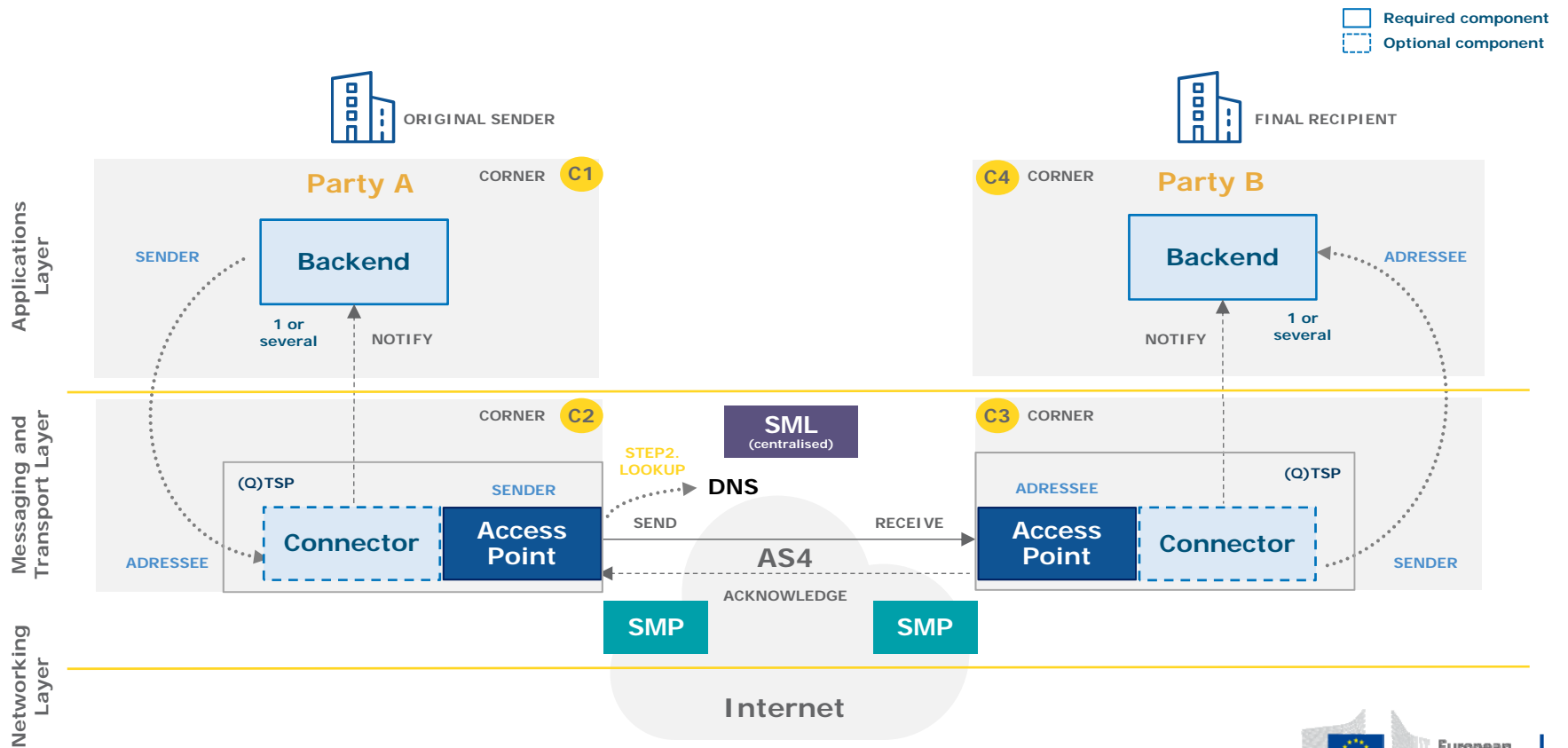


Cost reduction



Improved Process Efficiency

# eDelivery Messaging Infrastructure based on the 4-Corner Model



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# CEF eDelivery specifications

The approach employed by eDelivery is to promote the use of existing technical specifications and standards rather than to define new ones.

The profiling work of e-SENS and PEPPOL on these standards, i.e. constraining configuration choices, is equally taken on board. Even though eDelivery makes software available implementing these specifications, the use of commercial software or other Open Source software projects is also possible.

## COMPONENT

Access Point

Digital Certificates

Connector

Service Metadata Locator (SML)

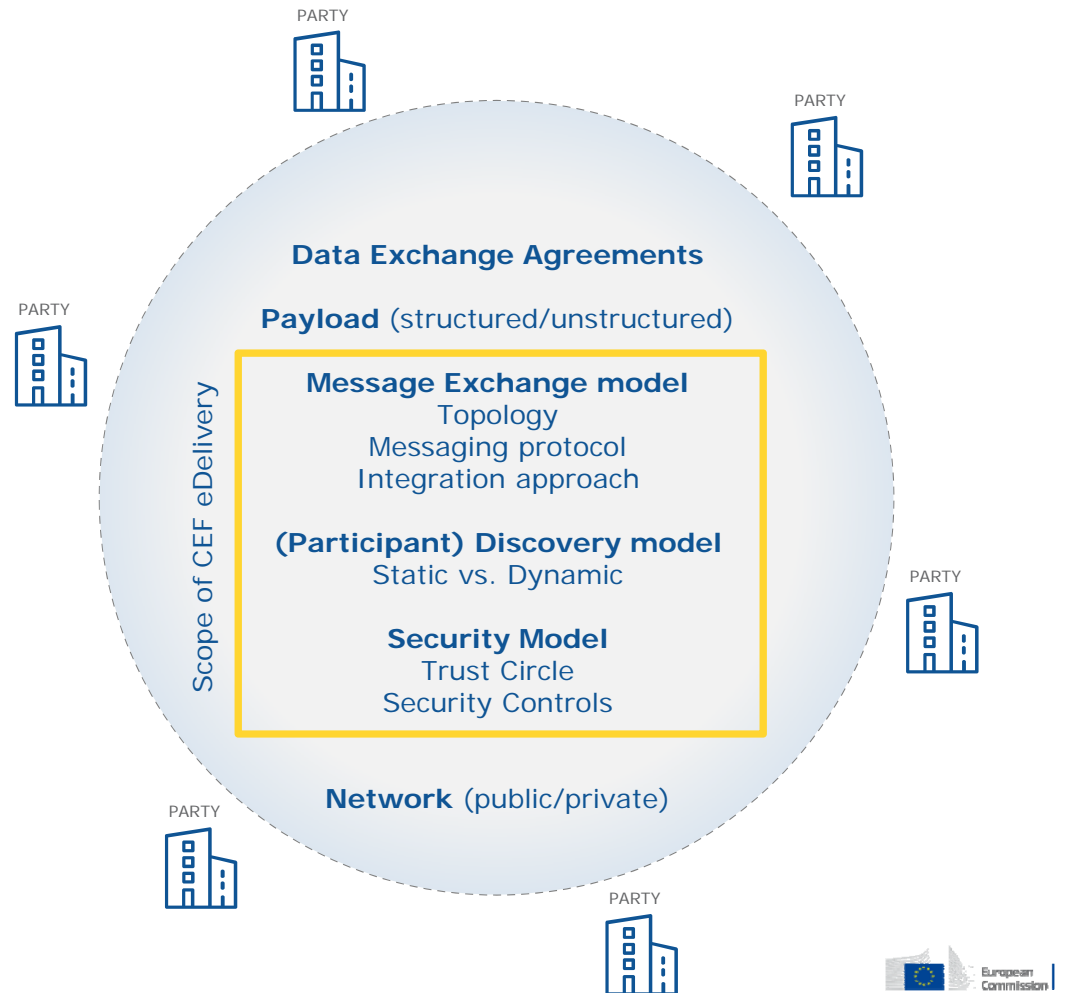
Service Metadata Publisher (SMP)

## KEY SPECIFICATIONS

- e-SENS AS4 profile of the ebMS3/AS4 OASIS Standards
- PEPPOL AS2 profile of AS2 and SBDH (for the eProcurement only)
- ETSI – Electronic Signatures and Infrastructures profile
- ETSI REM for evidences
- e-SENS Profile based on the OASIS BDXL Specification
- e-SENS ebCore Party ID Profile
- e-SENS Profile based on the OASIS BDX-SMP Specification

# A message exchange infrastructure is

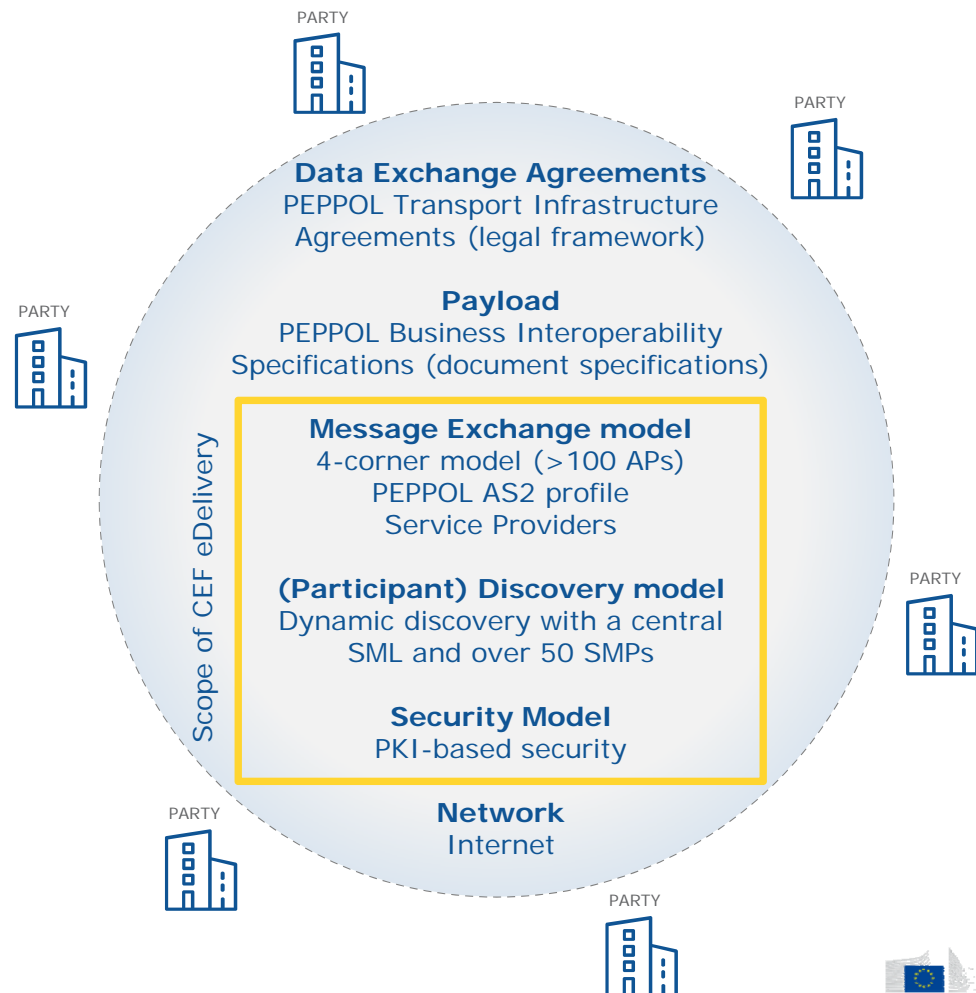
A combination of a message exchange model, discovery model and security model on top of the internet, or of a private network, to exchange structured or unstructured information encapsulated in messages.



## The example of OpenPEPPOL

The Pan-European Public Procurement Online, the LSP of eProcurement, now transferred to the non-profit international association OpenPEPPOL.

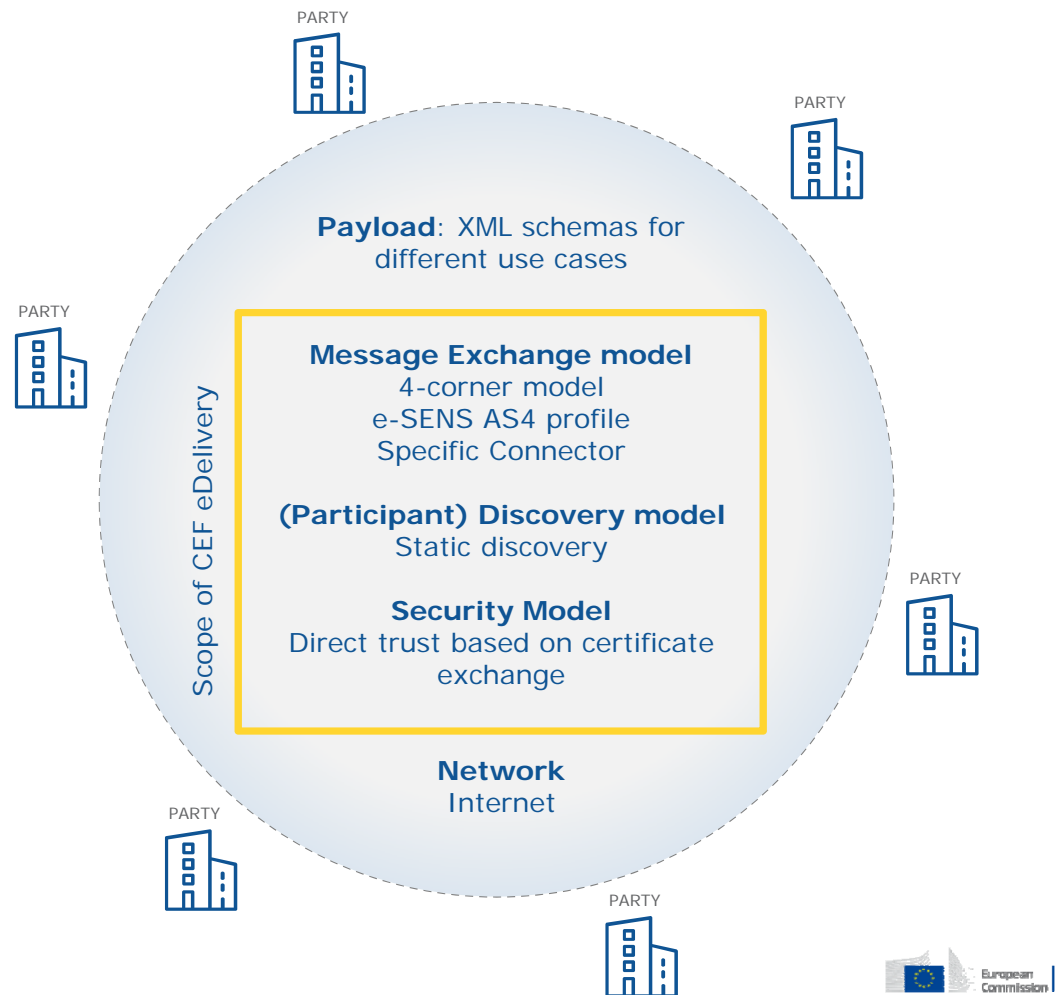
The purpose of OpenPEPPOL is to enable European businesses to easily deal electronically with any European public sector buyers in their procurement processes, thereby increasing opportunities for greater competition for government contracts and providing better value for tax payers' money.



## The example of e-CODEX

The e-Justice Communication via Online Data Exchange, the LSP of eJustice, running until May 2016.



The e-CODEX project improves the cross-border access of citizens and businesses to legal means in Europe and furthermore creates the interoperability between legal authorities within the EU.





# CEF eDelivery is not one size fits all

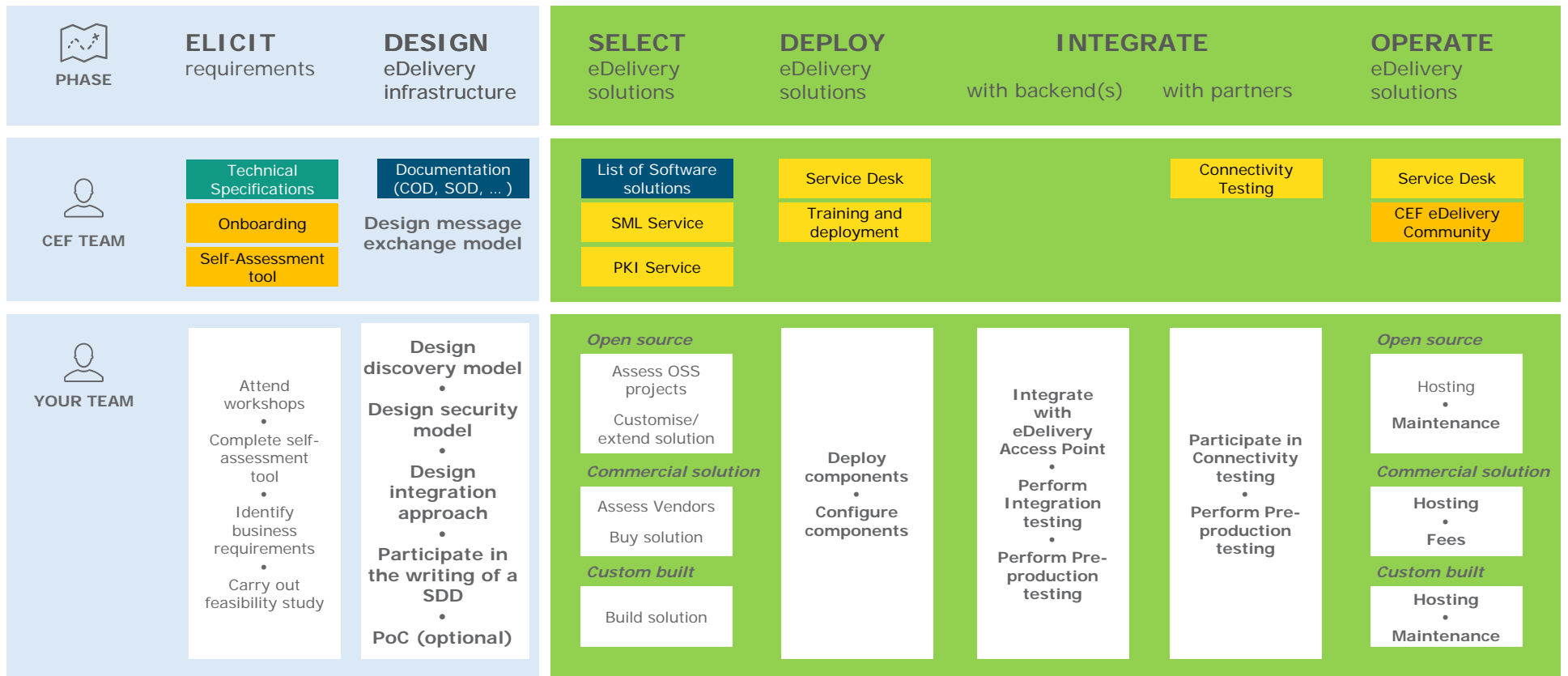
SCOPE OF CEF eDELIVERY

		 <small>PAN-EUROPEAN PUBLIC PROCUREMENT ONLINE</small>	 <small>eCODEX</small>	Your CEF eDelivery implementation
<b>EXCHANGE MODEL</b>	TOPOLOGY	4-corner model	4-corner model	<b>Your choice</b>
	PROTOCOL	PEPPOL AS2 profile	e-SENS AS4 profile	e-SENS AS4 profile recommended
	INTEGRATION APPROACH	Service Providers (Market)	Specific Connector	<b>Your choice</b>
<b>DISCOVERY MODEL</b>		Dynamic	Static	<b>Your choice</b>
<b>SECURITY MODEL</b>	TRUST CIRCLE	PKI	Mutual trust	<b>Your choice</b>
	SECURITY CONTROL	Liberal inner security	Inner security with connector	<b>Your choice</b>

# Roadmap to deploy CEF eDelivery

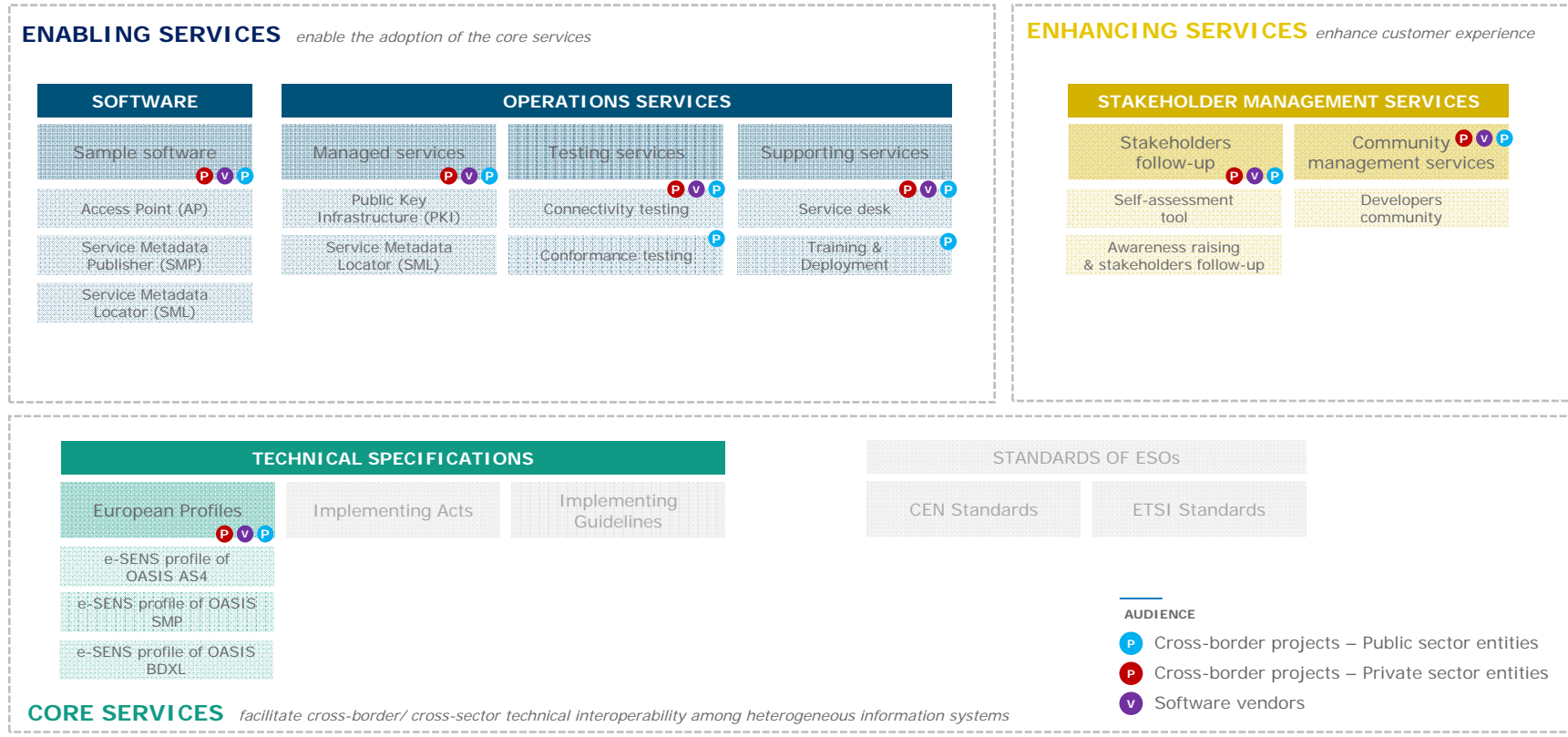
Domain Owner

Participants in eDelivery Messaging Infrastructure



# CEF eDelivery Service Offering

## v3.0













# e-SENS AS4 conformant solutions



The screenshot shows the CEF Digital website with the following content:

- Navigation:** European Commission > CEF Digital Home > CEF building blocks > eDelivery > eDelivery Services > eDelivery Software > Access Point software
- Page Title:** eDelivery
- Menu:** Home, Discover, How it works, Services, Collaboration
- Section:** e-SENS AS4 conformant solutions
- Text:** This page lists the solutions that have passed or are in the process of passing the conformance testing according to the e-SENS AS4 profile:
- Conformant Solutions List:**
  - Domibus (EC sample implementation)
  - Flame
  - Holodeck
  - IBM
  - Laurentius
  - Mendelson
  - RSSBus
- Text:** A full list of other vendors supporting AS4 can be accessed at the bottom of this page.
- Vendor Details:**
  - Domibus \*** (CONFORMANT): Latest release: Download Domibus v3.1.1; Test report: Download (zip); Contact: CEF-EDELIVERY-SUPPORT@ec.europa.eu
  - Flame** (CONFORMANT): Latest release: Download FMS Server and Light Client v5.3; Test report: Download (zip); Contact: info@flamems.com
  - Holodeck B2B** (CONFORMANT): Latest release: Download Holodeck B2B v2.0; Test report: Download (zip); Contact: info@holodeck-b2b.org
- Left Sidebar:**
  - TECHNICAL SPECIFICATIONS: Access Point specifications, Connector specifications, PKI specifications, SML specifications, SMP specifications
  - SOFTWARE: Access Point software, e-SENS AS4 conformant solutions, SML software, SMP software, Security Controls, Connector software
  - MANAGED SERVICES: PKI Service, SML service
  - TESTING SERVICES: eDelivery Conformance testing, eDelivery Connectivity testing
  - SUPPORTING SERVICES: eDelivery Training and Deployment, eDelivery Service desk

## More information on CEF Digital

[Conformant Solutions >](#)

- DOMIBUS 
- EESSI AS4.NET 
- FLAME 
- HOLODECK 
- IBM 
- LAURENTIUS 
- MENDELSON 
- RSSBus 
- ADES 
- INTEGRATION CLOUD 

 Conformant  
 Ongoing



# CEF eDelivery cost estimation tool

eDelivery Cost Model Role: **Analyst & Developer** | **Implementation**

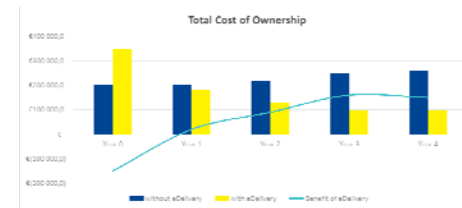
## Cost with eDelivery

Expected costs of scenario with eDelivery

COST CATEGORY	Year 0	Year 1	Year 2	Year 3	Year 4
	Messaging	Messaging	Messaging	Messaging	Messaging
<b>SOFTWARE</b>					
Total cost	€ -	€ -	€ -	€ -	€ -
Decommissioning	€ -	€ -	€ -	€ -	€ -
<b>OPERATION SERVICES</b>					
Total cost	€ -	€ -	€ -	€ -	€ -
<b>STAKEHOLDER MANAGEMENT SERVICES</b>					
Total cost	€ -	€ -	€ -	€ -	€ -
<b>TECHNICAL SPECIFICATION</b>					
Total cost	€ -	€ -	€ -	€ -	€ -
<b>INFRASTRUCTURE</b>					
Total cost	€ -	€ -	€ -	€ -	€ -
<b>OTHER COSTS</b>					
Total cost	€ -	€ -	€ -	€ -	€ -
<b>TOTAL</b>	€ -	€ -	€ -	€ -	€ -

- Assess and quantify **benefits** of eDelivery
- Domain and vendor **independent**
- Compare alternative **scenarios** (with vs. without eDelivery)

eDelivery Cost estimation tool and guide [https://ec.europa.eu/cefdigital/wiki/x/\\_TRAAg](https://ec.europa.eu/cefdigital/wiki/x/_TRAAg)



Estimate your **TCO** (total cost of ownership)



Determine your expected **implementation duration**



# Find out more on CEF Digital

European Commission

CEFDIGITAL

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LATEST

Live Webinar - Tuesday 28th of July: "CEF eDelivery - What's in it For You?"

## The CEF Building Blocks

Supported by the Connecting Europe Facility (CEF), the CEF Building Blocks offer basic capabilities that can be used in any European project to facilitate the delivery of digital public services across borders.

About the Building Blocks

eDelivery


eID

eInvoicing

eSignature

eTranslation

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### Contact us



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