

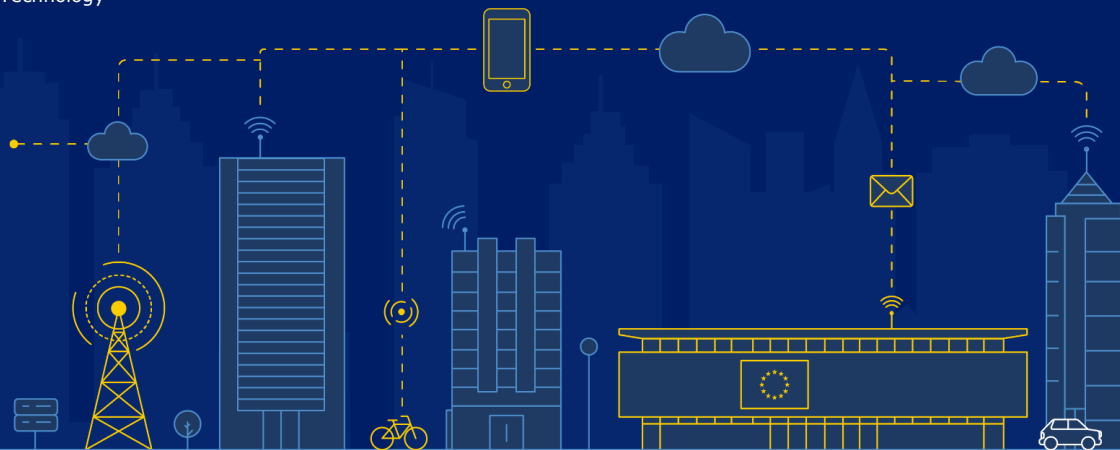


# PEPPOL – AS4 Migration

## Connecting Europe Facility

**DIGIT**  
Directorate-General  
for Informatics

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



---

# Agenda

---

What are the CEF Building Blocks

---

CEF eDelivery AS4 Migration Support

---

Grants available from INEA

---



**What are**

the CEF building blocks?

The **Digital Single Market** powered by new EU-wide regulations will enable convenient **cross-border** online digital services.



Submitting tax declarations online



Enrolling in a foreign university



Remotely opening a bank account



Setting up a business in another Member State



Authenticating an online payment



Bidding to an online call for tender cross borders

... and many, many more.

# The Tallinn Vision

Public Administrations must deliver high quality, user-centric digital public services for citizens and seamless cross-border public services for businesses.


---

# Tallinn Declaration

## Seven Principles

1. Digital-by-default
2. Once only
3. Trustworthiness and security
4. Openness and transparency
5. Interoperability by default
6. Horizontal enabling policy steps
7. User centricity



A background network diagram consisting of numerous blue circles of varying sizes connected by thin lines, representing a complex digital or organizational network.

# How is the Commission helping **PAs and businesses** build digital services which comply to EU regulations?

## **Standards.**

The Connecting Europe Facility's mission is to support projects to use basic components, based on standards, that will ensure systems can communicate with each other.

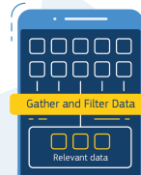
We call these basic digital components

## **Building Blocks + Grants**

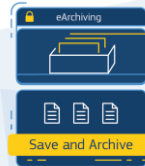
# Digital Europe's building blocks are designed to help you build **digital services people can trust**



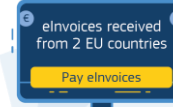
**Big Data Test Infrastructure**



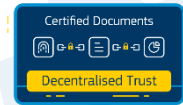
**Context Broker**



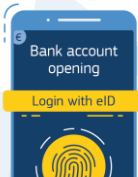
**eArchiving**



**eInvoicing**



**European Blockchain Services Infrastructure**



**eID**



**eDelivery**



**eSignature**



**eTranslation**

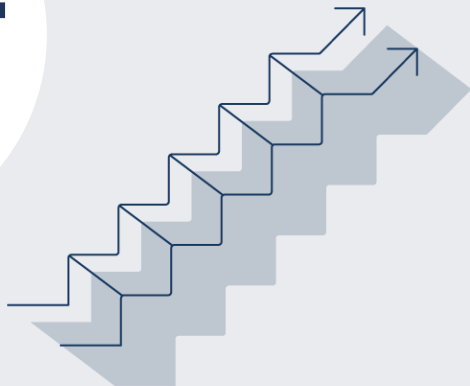
# How many projects have used the building blocks?



**120+**  
projects

[View Dashboard](#)

Growing potential cases are bringing us closer to fulfilling the dream.



# Connecting Europe together

**Co-develop and partner**  
With other parties



**Build**  
The solution from scratch based on a European standard



**Buy**  
A compliant solution from the market



**Reuse**  
A sample software available on CEF website

**European Standards**



# CEF eInvoicing and eDelivery Success Stories

We want to **share your experience** with CEF eInvoicing and eDelivery services

And **promote CEF** eInvoicing and eDelivery to help others understand how they can be used!

## What kind of stories do we share?

- Public administration implementation stories
- Service providers stories – How did they help a public administration realize a project?
- Industry specific stories

Read all the Connecting Europe success stories on CEF Digital

[View >](#)

CEF Digital Connecting Europe

CEF Digital > Success Stories

## Connecting Europe Success Stories

Hear from the teams that have successfully used CEF Building Blocks in government and business.

If you've recently used a CEF Building Block, we would like to hear your story. Send us an email.

**Latest**

- News
- Event calendar
- Digital Infrastructures
- Media library
- Success stories

**Follow us**

Subscribe to our newsletter

email address

Subscribe

**eInvoicing**

Scotland aims to eliminate millions of paper invoices with eInvoicing

Oct 04, 2018

eInvoicing

LEARN MORE

**eSignature**

CEF eSignature facilitates the first electronic signature on an EU regulation!

Sep 27, 2018

eSignature

LEARN MORE

# eDelivery onboarding-race



PHASE

COMMITMENT GATE

## SET UP

PHASE	PROSPECTING	ELICIT requirements	DESIGN eDelivery infrastructure	SELECT eDelivery solutions	DEPLOY eDelivery solutions	OPERATE eDelivery solutions	
CEP DSIs	<ul style="list-style-type: none"> <li>EU Student eCard <b>NEW</b></li> <li>DG CNECT</li> <li>Platform on Disinformation <b>NEW</b></li> <li>DG CNECT</li> </ul>		<ul style="list-style-type: none"> <li>eHealth (AS4)</li> <li>DG SANTE</li> </ul>		<ul style="list-style-type: none"> <li>eHealth (SMP)</li> <li>DG SANTE</li> <li>EESSI</li> <li>DG EMPL</li> <li>eTranslation</li> <li>DGT</li> </ul>	<ul style="list-style-type: none"> <li>ODR</li> <li>DG JUST</li> <li>eProcurement (*)</li> <li>GROW   DIGIT</li> <li>BRIS</li> <li>DG JUST</li> <li>e-Justice   eCodex</li> <li>DG JUST</li> <li>ELRC</li> <li>DGT</li> <li>eInvoicing</li> <li>DG GROW</li> </ul>	
Other Policy Projects	<ul style="list-style-type: none"> <li>Customs Single Window</li> <li>DG TAXUD</li> <li>ECRIS</li> <li>DG JUST</li> <li>Central Clearance Import</li> <li>DG TAXUD</li> <li>Inland Waterway Transport</li> <li>DG MOVE</li> <li>CISE</li> <li>DG MARE</li> <li>Exchange of road-safety-related traffic offences</li> <li>DG MOVE</li> <li>ODOCAR</li> <li>DG MOVE</li> </ul>	<ul style="list-style-type: none"> <li>eTransport Docs</li> <li>DG MOVE</li> <li>NIVA project</li> <li>REA/AGRI/CNECT <b>NEW</b></li> <li>FLUX TL</li> <li>DG MARE</li> <li>Single Digital Gateway</li> <li>DG GROW</li> </ul>	<ul style="list-style-type: none"> <li>Maritime Single Window</li> <li>DG MOVE</li> </ul>	<ul style="list-style-type: none"> <li>ICS2</li> <li>DG TAXUD</li> <li>TAPAS</li> <li>DG TAXUD</li> <li>SPEED2</li> <li>DG TAXUD</li> <li>IRI</li> <li>DG JUST</li> <li>TACHOnet</li> <li>DG MOVE</li> </ul>	<ul style="list-style-type: none"> <li>DECIDE (upgrade)</li> <li>SG</li> <li>EUDAMED 3</li> <li>DG GROW</li> <li>eEvidence</li> <li>DG JUST</li> </ul>	<ul style="list-style-type: none"> <li>EPREL</li> <li>DG ENER</li> <li>PNR (regulated)</li> <li>DG HOME</li> <li>EU-CEG</li> <li>DG SANTE</li> </ul>	
Member State led projects (including CEP grants)		<ul style="list-style-type: none"> <li>Global Interoperability Framework</li> <li>EESPA</li> </ul>	<ul style="list-style-type: none"> <li>Utdatapjektet</li> <li>DIGG</li> <li>X-Road</li> <li>NIIS</li> <li>Dutch Energy Market</li> <li>NEDU</li> </ul>	<ul style="list-style-type: none"> <li>EDI4STEEL</li> <li>TNO (NL) <b>NEW</b></li> </ul>	<ul style="list-style-type: none"> <li>eDelivery national gateway</li> <li>AMA (PT) <b>NEW</b></li> <li>eDelivery national gateway in CY</li> <li><b>NEW</b></li> <li>AS4 Interoperability SP in IE and SE</li> <li><b>NEW</b></li> <li>UP-Access upgrade to AS4 of SP in BE, DE, ES, IT</li> <li><b>NEW</b></li> <li>eDelivery national gateway in RO</li> <li><b>NEW</b></li> </ul>	<ul style="list-style-type: none"> <li>NOBLE project (Postal Services)</li> <li>TOOP (once-only)</li> <li>Slovenia Supreme Court's communications</li> <li>Laurentius</li> <li>e-Impact (CEF Transport)</li> <li>Development of NL eDelivery gateway</li> <li>RINIS</li> <li>PEPPOL (upgrade to AS4)</li> <li>IADAATPA</li> <li>Pangeanic's consortium</li> <li>e-Boks</li> <li>Nets and PostNord</li> <li>Logistics Single Window</li> <li>Safety and Maritime services (PT)</li> <li>eDeliveryLT in LT <b>NEW</b></li> </ul>	<ul style="list-style-type: none"> <li>APSM eIUS svetovanje <b>NEW</b></li> <li>Multiple Access to eDelivery (MADE)</li> <li>UC3M (SP) <b>NEW</b></li> <li>AS4EU upgrade to AS4 of SP in BE, IT, IE and UK <b>NEW</b></li> </ul>
Other institutions	<ul style="list-style-type: none"> <li>European Aviation Safety Agency</li> <li>European Anti-Fraud Office</li> <li>Eurojust</li> <li>IMMC</li> <li>Parliament</li> <li>European Citizens' Initiative</li> </ul>	<ul style="list-style-type: none"> <li>EMSA</li> <li>SafeSeaNet</li> </ul>	<ul style="list-style-type: none"> <li>OSS system</li> <li>European Agency for Railways</li> </ul>		<ul style="list-style-type: none"> <li>CIXP</li> <li>The European Council</li> <li>eDocX2017</li> <li>DG HOME (EMCDDA)</li> <li>PCN system</li> <li>European Chemicals Agency</li> </ul>	<ul style="list-style-type: none"> <li>ENTSOG (Gas operators)</li> </ul>	

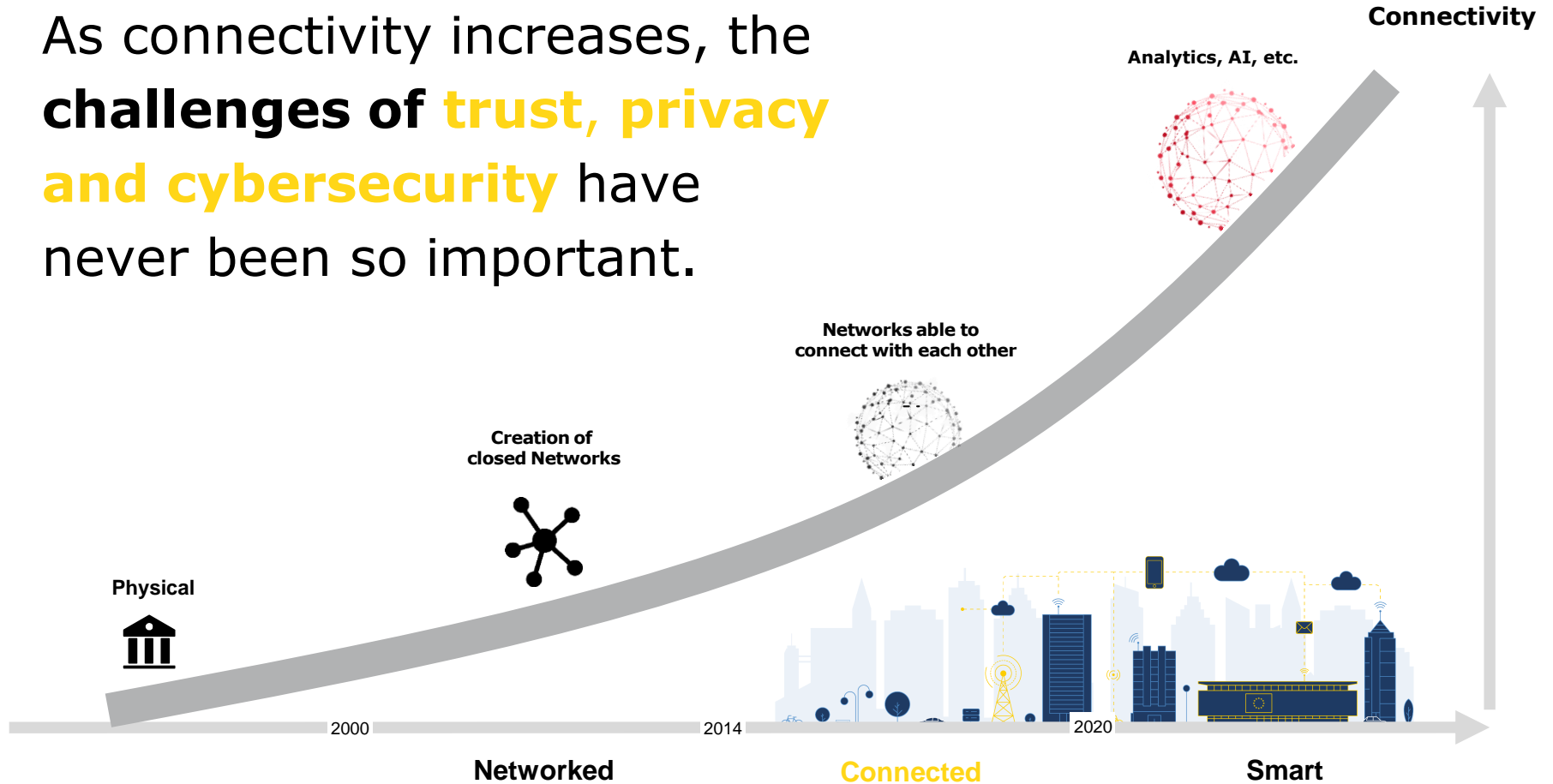
(\*) Also part of PEPPOL

Pilot/PoC projects



# **CEF eDelivery AS4 Migration Support**

As connectivity increases, the challenges of **trust, privacy and cybersecurity** have never been so important.



---

## Goals of eDelivery (AS4)



### Interoperability

Implementing common technical specifications that enable diverse organisations to exchange data and documents



### Security

Promoting an atmosphere of trust among all parties in the message exchange network



### Scalability & Performance

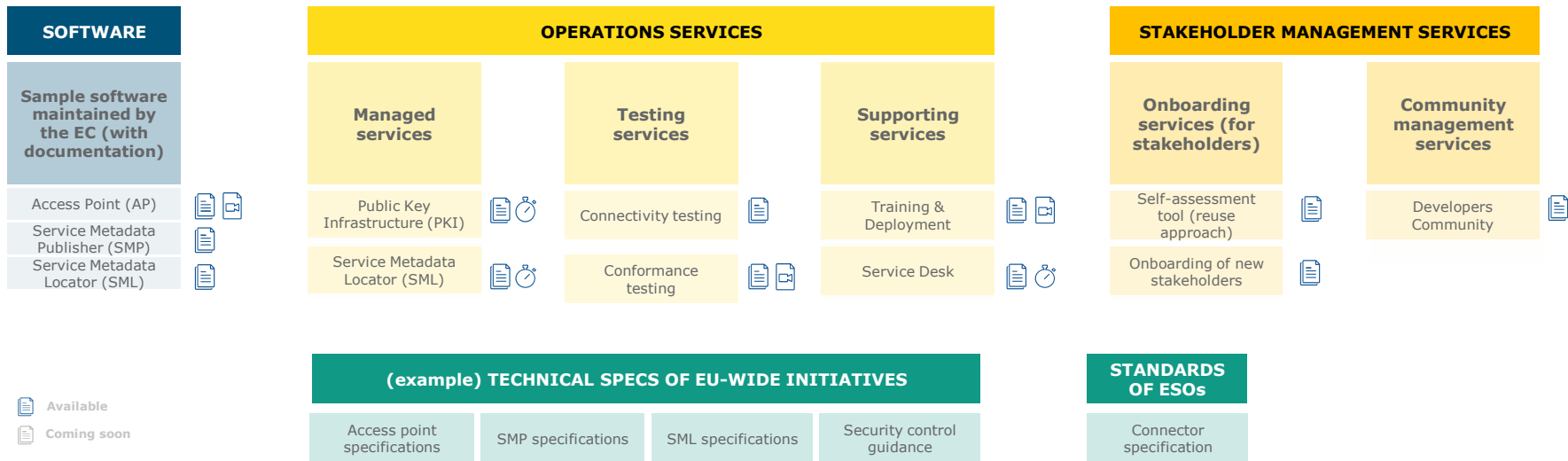
Enabling the number of parties in the data exchange network to grow as well as the number of exchanged messages



### Legal Assurance & Accountability

Promoting a high level of transparency and confidence among all participants in the message exchange network

# CEF eDelivery Service offering



## Service offering Description (SoD)

All services are described in an SoD describing its purpose, the users for which it is for, its benefits and the process to obtain it



## Service Level Arrangements (SLA)

Documents that describe Service Level Targets to be reached when delivering Building Block Services.



## eLearning, videos, success stories

Some services feature multimedia such as eLearnings, instructional videos or success stories to help grasp what the service is about

## CEF Digital platform

CEF eDelivery service offering, and more about the building block, can be found online

[CEF Digital >](#)

# eDelivery AS4 conformant solutions

- Access Point software
  - eDelivery AS4 conformant solutions**
  - Access Point specifications
  - SMP software
  - SMP specifications
  - SML software
    - SML service
  - SML specifications
  - PKI Service
    - Security Controls guidance
    - Connector specifications
    - Onboarding & stakeholders follow-up
    - eDelivery Conformance testing
    - eDelivery Connectivity testing
    - Cost estimation tool
    - Self-assessment tool
    - eDelivery Service Desk
  - Training and Deployment
    - eDelivery Developers Community
    - Trust Models Guidance





## eDelivery AS4 conformant solutions

This page lists the solutions that have passed or are in the process of passing the conformance testing according to the eDelivery AS4 profile:

- Axway
- B2BRouter
- Babelway
- Bizbrains
- Domibus (EC sample implementation)
- eefacta Server
- EESSI AS4.NET
- Edicom ASx Server
- Data Interchange
- DCS EIP
- Flame
- Holodeck B2B
- IBM
- iFenix
- Laurentius
- Mendelson
- Navitasoft - IP Systems AS4-IP
- Nota
- OXALIS
- Pagero
- phase4
- RSSBUS
- SEEBURGER
- ViaAdValvas Gateway
- ADES
- Integration Cloud

A document listing all vendors supporting AS4, including the ones that have not gone through the CEF conformance testing process, is available at bottom of this page.

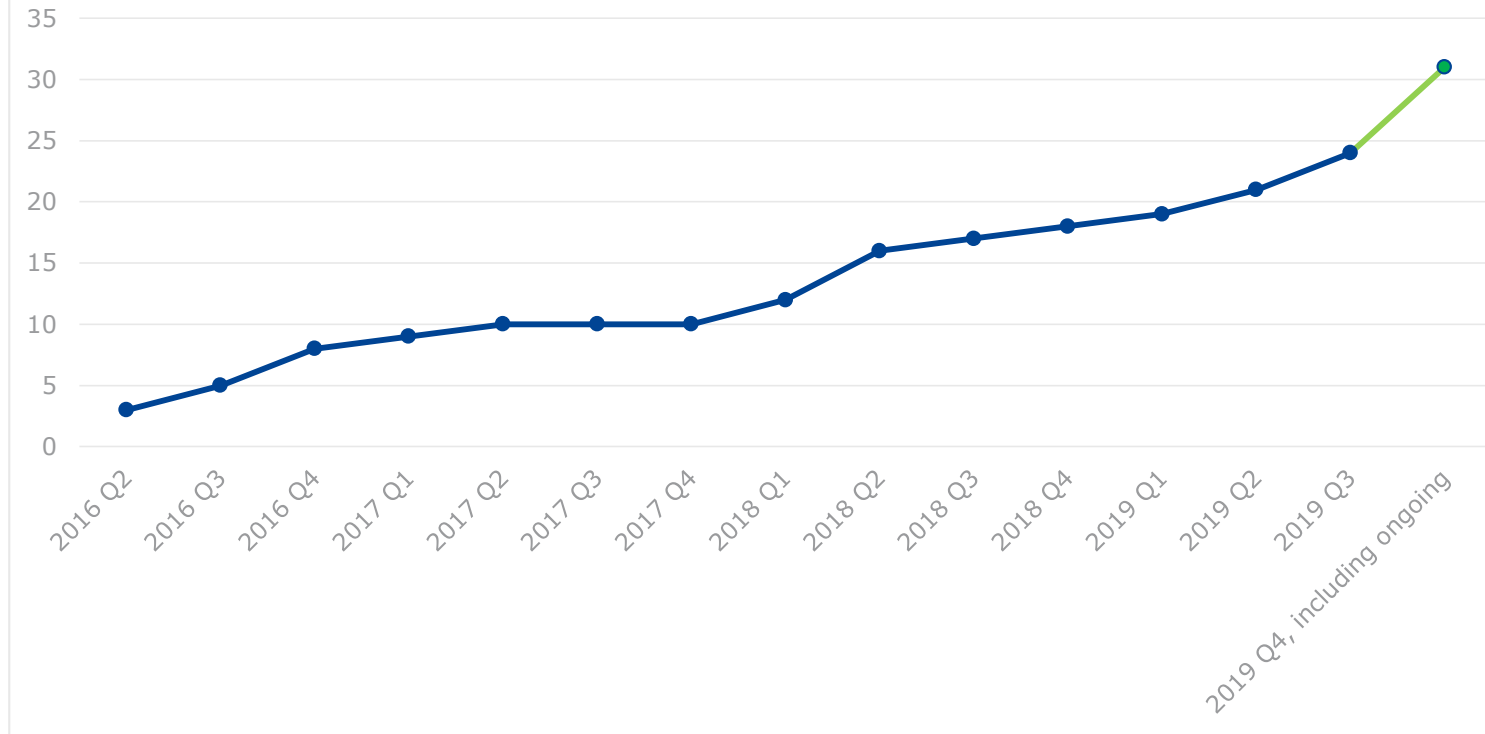
### LEGEND

 Common Profile	 Four Corner Topology
 Dynamic Sender	 Dynamic Receiver

More information on CEF Digital

[Conformant Solutions >](#)

## eDelivery AS4 conformant solutions evolution







# Grants available from INEA



## Funding opportunities

For implementing the building blocks

# How does CEF support projects to use the building blocks?

In two ways:

- **One**, it provides free services to help you implement them in your system. There are a range of services across the building blocks but services typically include training, sample software, testing services.
- **Two**, CEF provides grant funding. You can apply for grant funding to pay for the implementation of a building block in your system. More information on how you can apply, grant winners and on-going projects is available via INEA's website.

[Visit INEA Website](#)

Call 1 14 February – 14 May 2019	Indicative budget
Automated Translation	€ 4M
eID & eSignature	€ 5M
eDelivery	€ 1M
eInvoicing	€ 6.2M
Europeana	€ 2M
EU Student eCard	€ 1M

Call 2 4 July – 14 November 2019	Indicative budget
Public open data	€ 5M
Cybersecurity	€ 10M
eProcurement	€ 3M
eHealth	€ 5M
European eJustice	€ 3M
European Platform on Skills and Jobs	€ 1M

More information: <https://ec.europa.eu/inea/>

## CEF eProcurement Call 2019-2

---

Call publication	04 July 2019
Deadline for the submission of proposals	<b>14 November 2019</b> (17:00 Brussels time)
Budget	Indicative 1 Million EUR
Co-funding rate	75%
Indicative duration of the actions	12 months

---

To be informed about the 2020 calls, monitor <https://ec.europa.eu/inea/en/connecting-europe-facility/cef-telecom/apply-funding>

### What is covered?

- Deploying access points and/or operating access points for one year.
- Deploying SMPs and/or operating SMPs for one year.
- Upgrade of data exchange solutions (Commercial Off-the-Shelf, Open-Source Software and other) to support (and therefore fully comply with), the CEF eDelivery standards (*which can also cover interoperability testing with new or existing conformant solutions*).

Proposals addressing eDelivery activities (a) and (c) can cover the transition from the AS2 to the AS4 message exchange protocol within the PEPPOL eDelivery network or any other similar initiative.

---

# Call for action

Check out the eDelivery AS4 profile

<https://ec.europa.eu/cefdigital/wiki/display/CEFDIGITAL/Access+Point+specifications>

Check out the Conformance Testing service

<https://ec.europa.eu/cefdigital/wiki/display/CEFDIGITAL/eDelivery+Conformance+testing>

Get listed as a conformant solution

<https://ec.europa.eu/cefdigital/wiki/display/CEFDIGITAL/eDelivery+AS4+conformant+solutions>

Apply for Grants to upgrade your solution

<https://ec.europa.eu/inea/en/connecting-europe-facility/cef-telecom/apply-funding>



**For questions or support contact:**

**[CEF-EDELIVERY-SUPPORT@ec.europa.eu](mailto:CEF-EDELIVERY-SUPPORT@ec.europa.eu)**

# Ready to get started?

Reach out to us to learn more!

Or visit our website [www.ec.europa.eu/cefdigital](http://www.ec.europa.eu/cefdigital)

