

eDelivery

A European approach
to interoperable
data exchange

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DIGIT, European Commission

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OpenPeppol eInvoicing
and eReporting Conference



eDelivery in Peppol



Why does the EC speak about Peppol's SML?

- Today, Peppol specifications and operations are closely aligned with the eDelivery building block
- eDelivery's SML service is part of Peppol's Critical Infrastructure which must evolve into the future
- This has been a long journey...

eDelivery in Peppol



Early-to-mid 2010s: LSPs

- **Peppol** helped establish the European eInvoicing standard and eProcurement procedures
- **e-CODEX** helped establish the AS4-based 4-corner model
- **e-SENS** helped select several building blocks

eDelivery in Peppol



Mid-to-late 2010s: CEF

- **EC's CEF** (2014-2020) supported:
 - Development of **eDelivery** (and other) building block(s)
 - Upgrade of the **Peppol** network from AS2 to AS4
 - Technical and policy interplay between the two projects



Digital Europe Building Blocks



A **Building Block** is an open and reusable digital solution.

What?

It can take the shape of **frameworks, standards, software products or software as a service (SaaS)**, or any combination thereof.

How?

It promotes the adoption of the same **open standards and technical specifications** by the **different sectors** of the Union for the most basic & common functionalities of their projects or platforms.

Why?

Building Blocks enable interoperability across borders and sectors.



eDelivery

Exchange online data and documents reliably and securely.



eInvoicing

Promote the implementation of the European standard for electronic invoicing across borders.



eSignature

Create and verify electronic signatures between businesses and EU citizens.



eID

Allow citizens to prove who they are across borders, making it easier to access online services in another EU Member State.



Buy

Buy a compliant, interoperable solution from the market.



Reuse

Reuse sample software available through Digital Europe.



Build

Build an EU-compliant solution from scratch based on Building Block standards.

2013

Created and piloted by Member States

Powered by the
**European
Commission**



2024

Available to anyone



Connecting Europe
Facility (2014-2020)



Digital Europe Programme
(2021-2027)

Once-Only
Technical System








And more...











eDelivery Service Offering





SOFTWARE

Sample software maintained by the EC (with documentation)
Access Point (AP)  
Service Metadata Publisher (SMP)  
Service Metadata Locator (SML) 

OPERATIONS SERVICES

Managed services	Testing services	Supporting services
Public Key Infrastructure (PKI)  	Connectivity testing 	Training & Deployment  
Service Metadata Locator (SML)  	Conformance testing 	Service Desk  

STAKEHOLDER MANAGEMENT SERVICES

Onboarding services (for stakeholders)	Community management services
Self-assessment tool	Developers Community
Onboarding of new stakeholders  	Market guide
Cost estimation tool	

TECHNICAL SPECIFICATIONS

Access point specifications	SMP specifications	SML specifications	Security control guidance	Trust models guidance	Guidance on digital certificates
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STANDARDS OF SOs

Standards monitoring



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

Digital Europe platform

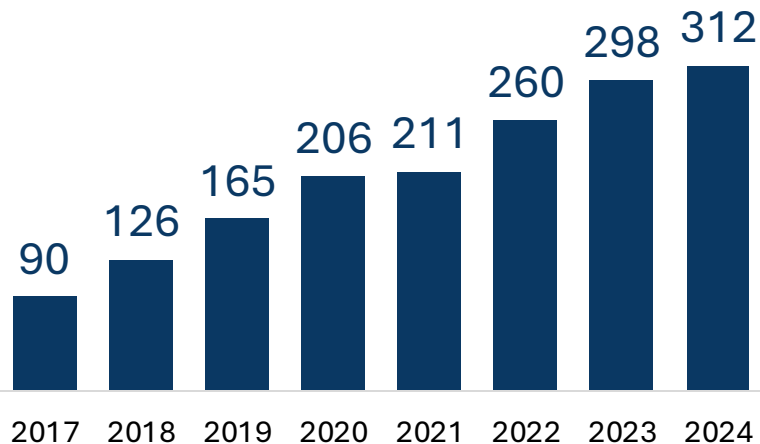
eDelivery service offering, and more about the building block, can be found online

Digital Europe

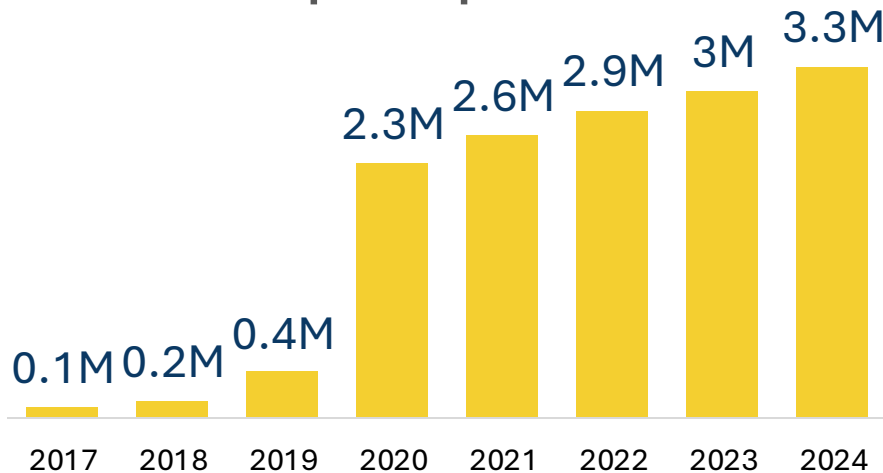
eDelivery SML Service use over time



Number of connected SMPs



Number of registered participants



Why eDelivery in Peppol CIWG?

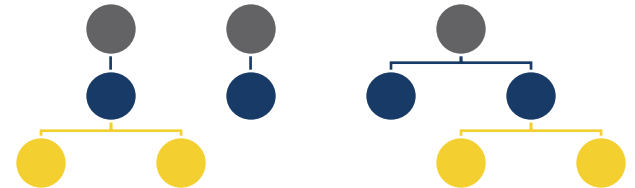


- Peppol's **global growth** will exceed what eDelivery's SML Service can provide in the long run
- eDelivery's SML Service is a **single point of failure**
- eDelivery's SML Service is a **third-party dependency** for Peppol

Why SML Federation?

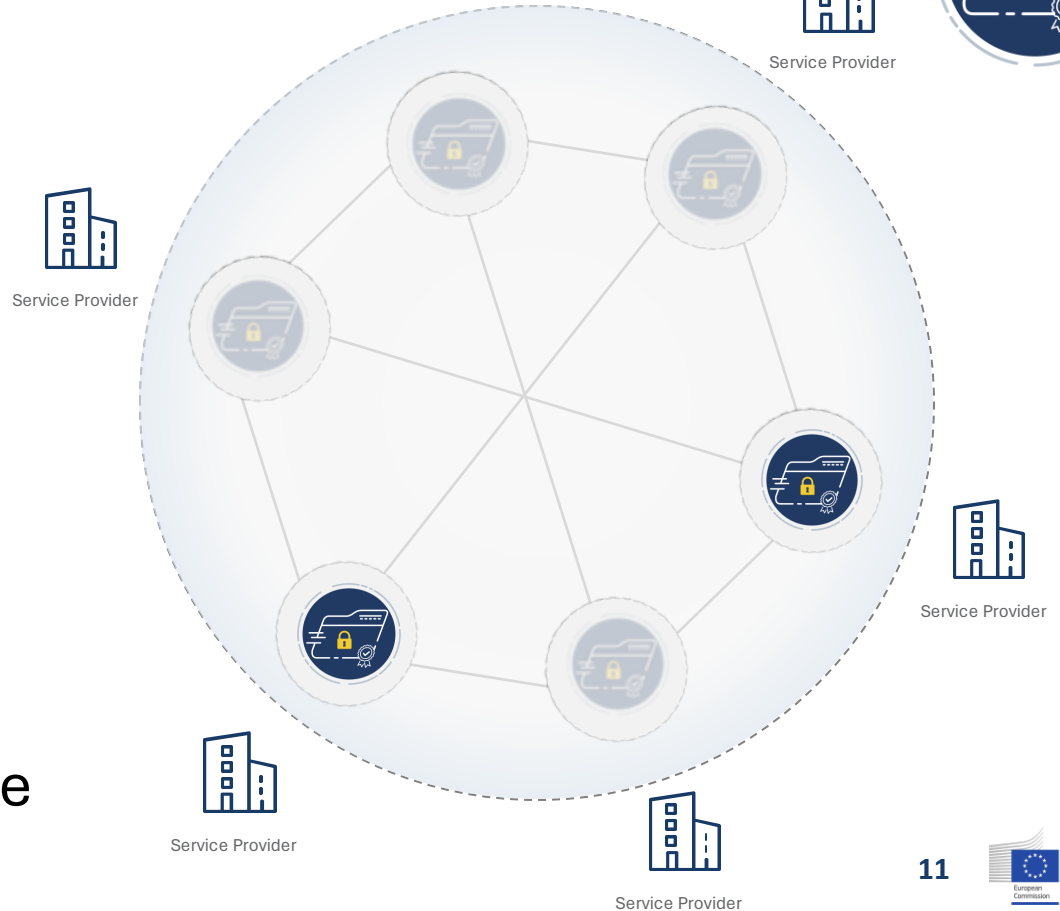


- Peppol's global reach will run into **data sovereignty / jurisdiction issues**
- Publishing all records in a single DNS zone is **difficult to scale**
- Avoid **single point of failure**
- One option to avoid **big bang** migration



Peppol as eDelivery ecosystem

- Largest number of participants
- Largest user of dynamic discovery
- Largest user of eDelivery's SML service



eDelivery as generic infrastructure



Standardised message-exchange API/Interoperability

eDelivery's public API is based on OASIS/ISO ebMS3/AS4, further refined by the eDelivery AS4 profile. Cross-domain and cross-project interoperability is facilitated by using the same standardised protocol.

Vendor and platform agnostic

Specifications are not proprietary or controlled by one vendor alone. Also, eDelivery is available in multiple products and solutions from different vendors to choose from.

Mature solution

eDelivery is already used in production in tens of projects across Europe with varying sizes and needs.



Exchange online data and documents reliably and securely.

Security, accountability and reliability

The eDelivery AS4 profile has built-in secure exchange of data (encrypted) in a reliable way (one-time message delivery with retries).

Scalability

eDelivery solutions can continue to be used even when a number of participants/messages in the network grows.

Payload agnostic

eDelivery is payload/business agnostic. Once created, the network can be reused to support arbitrary new workflows and datasets.

Asynchronous messaging

The eDelivery AS4 profile is asynchronous. Synchronous communication can be emulated through various techniques

eDelivery-powered digital ecosystems



eDelivery-powered digital ecosystems

New in 2024 and upcoming



**Central Electronic System of
Payment information (CESOP)**



Union Database for Biofuels (UDB)



**European Maritime Single
Window environment (EMSWe)**



**electronic Freight Transport
Information (eFTI) Digital
Exchange Environment**



**European Health
Data Space
(HealthData@EU)**

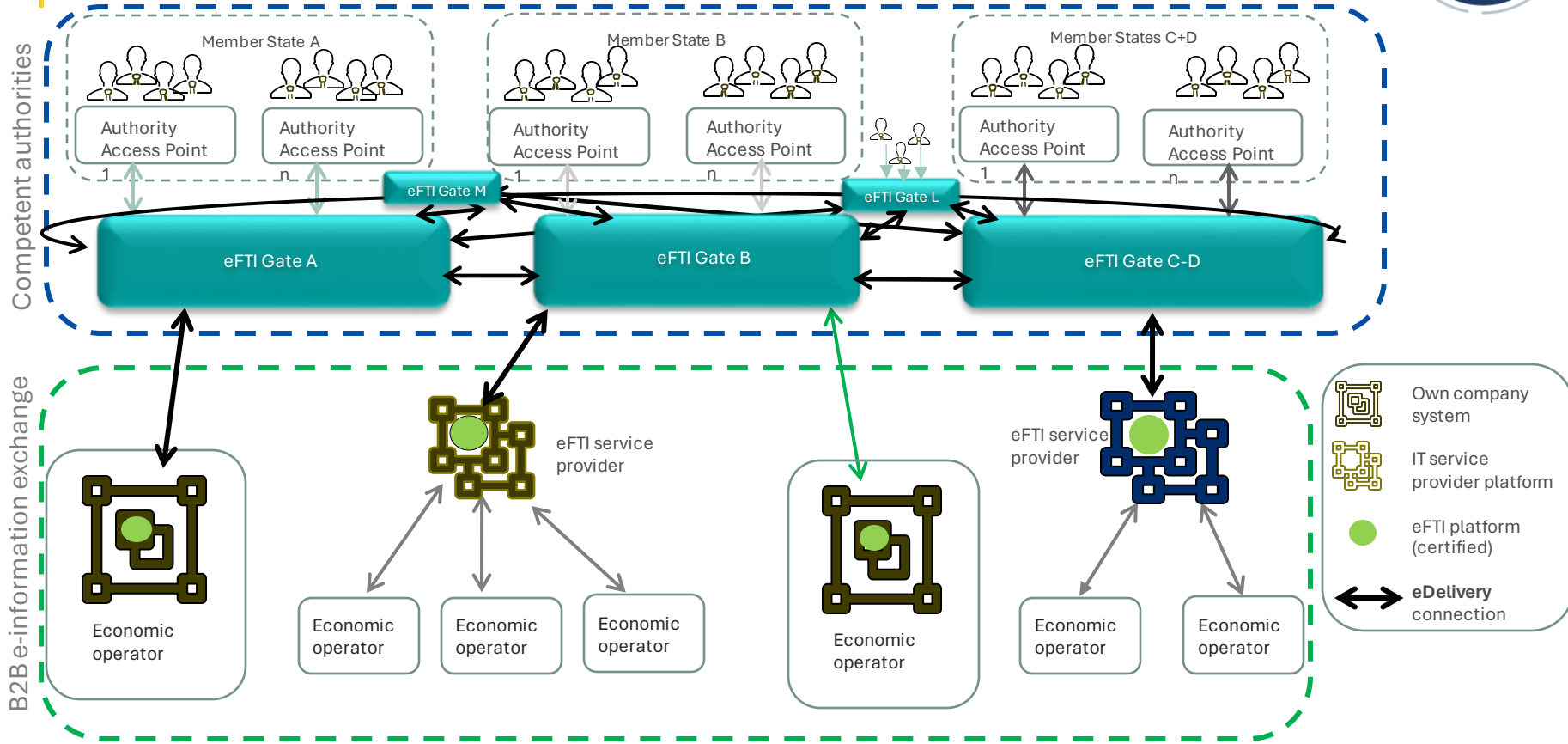
Central Electronic System of Payment information (CESOP)



- **Purpose:** CESOP is designed to enhance EU Member States' abilities to combat VAT fraud through improved transparency in cross-border payments.
- **Functionality:** Payment service providers in the EU must report the recipients of more than 25 cross-border payments per quarter starting from April 2024. This data is centralised in CESOP for analysis.
- **Use:** CESOP makes the data accessible to anti-fraud experts across Member States, aiding in the detection of possible VAT fraud, particularly in e-commerce.
- **eDelivery** used for data transfer from MS authorities to DG TAXUD (first large transfers successful in April).



Electronic Freight Transport Information



Learn more about eDelivery

Stay in touch!



eDelivery User Community

The eDelivery User Community space enables stakeholders to share experiences and best practices on the exchange of electronic data and documents between public administrations, businesses and citizens. Pan-European projects (re)using eDelivery have their own sub-communities within this space.

Register for personalised eDelivery news

[here](https://europa.eu/!8rtpfj)  <https://europa.eu/!8rtpfj>

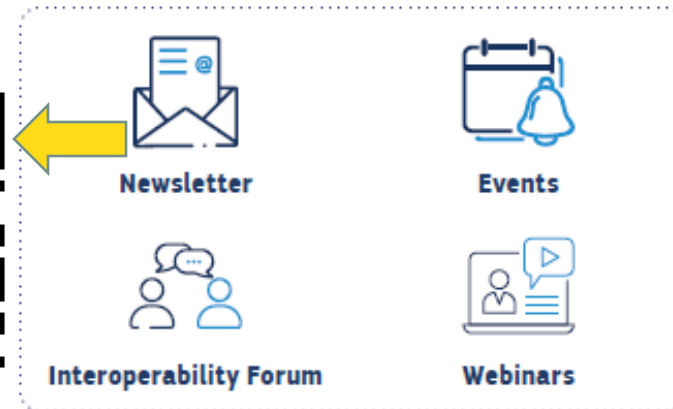
More about eDelivery



@edeliveryBB



[eDelivery events \(DEP\) - YouTube](#)



Have a question?



eDelivery

Exchange data and documents

online reliably and securely



Bogdan Dumitriu



To continue the conversation,
contact our team via email

Emails:

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Thank you

& stay in touch



Thank you



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