

eDelivery Interoperability Forum

18 April 2024



Membership in the eDelivery Interoperability Forum



The eDelivery Interoperability Forum is organised in a **membership approach**. You only need to sign up once.



The registration to join as well as the **privacy statement** for the membership are available on the sign-up page:

<https://ec.europa.eu/eusurvey/runner/edeliveryInteroperabilityForum>



Reminder



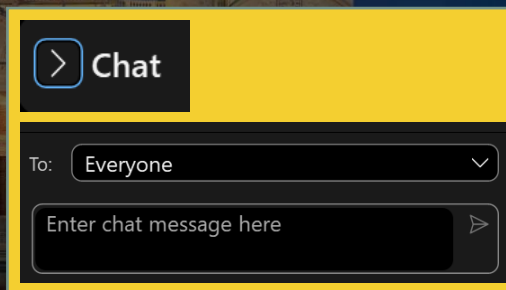
The meeting **is not** being recorded



Place your Qs **in the chat section**



Mute your microphone when you do not speak



Welcome, agenda & policy update

Maya Madrid



eDelivery Interoperability Forum



is...

a platform for the eDelivery BB and for solution and service providers to explore together the technical evolution, market opportunities and market needs around eDelivery

and aims to promote knowledge sharing, provide feedback on challenges, needs and preferences, and facilitate the discussion for the way forward

with the objective to...

keep eDelivery solution and services providers up to date with the evolution of the eDelivery Building Block (e.g., technical specifications)

bring projects and solution/service providers together to facilitate match-making between business needs and service offering

collect input from solution/service providers to guide building block's strategy

convenes...

online for one to two hours

2-4 times / year depending on participation, evolution and needs

The eDelivery symbiosis



Building Block

Promote and facilitate the use of eDelivery in the European digitalisation

Ensure long-term custodianship of eDelivery specifications and baseline services

Provide level playing field for projects/users to learn about solution providers

Solution providers

Provide eDelivery service offerings in response to market needs

Evolve services in line with specifications and provide tailored and user-friendly support

Learn and address customer needs



Interoperability Forum meetings

Where we are today, how we got there and where we will go

Topics

Feedback on the eDelivery Building Block from solution and service providers

Exchange on draft specifications and public consultation

Conformant solutions **presentation**

Upcoming **opportunities**

2023

3 May marked the first meeting of the Forum since 2020.

27 June

28 November

[Check Interoperability Forum archive](#) including agendas, slides and minutes of previous meetings

2024

29 February

18 April

24 October

+ June Interoperability Event

[Check upcoming eDelivery events](#) including Interoperability Forum meetings

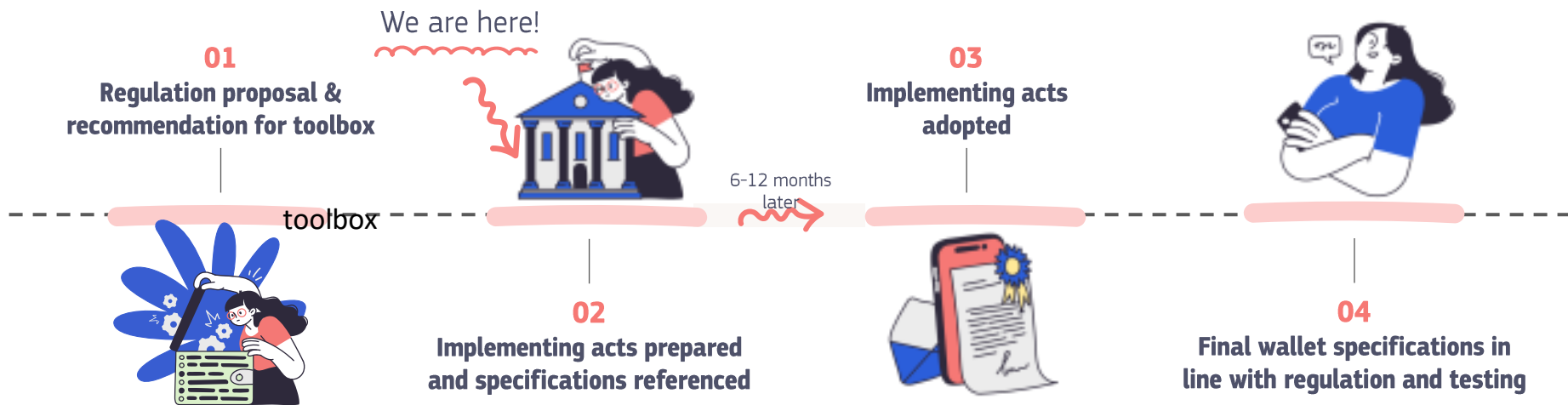
Today's agenda

- 1 Welcome, agenda & policy update**
(by Maya Madrid)
- 2 eDelivery updates**
(by Bogdan Dumitriu)
- 3 Sharing eDelivery user needs**
(by Cosmin Baciu)
- 4 New listing of conformant solutions**
(by Bogdan Dumitriu)
- 5 Presentation of the OOTS**
(by João Rodrigues Frade & Flora Kardos)
- 6 Update on the Interoperability Event**
(by Bogdan Dumitriu)
- 7 Feedback & closing**
(all)





eIDAS (Regulation on a European Identity Framework)



The whole initiative is based on a regulation & implementing acts which mandates the Member States to create a wallet by a given date.

Next steps: Towards EU Digital Identity Wallet



01

**REGULATION
ADOPTED**

Q1 2024

02

**IMPLEMENTING
ACTS ADOPTED**

Q3-Q4 2024

03

**WALLET
AVAILABLE**

Q3-Q4 2026

Q1 2024

- Positive Parliament Vote
- Positive Council Decision



Digital Europe Work Programme



Work Programme 2025-2027

- Under preparation
- Target adoption: before end of 2024
- eDelivery budget: to be confirmed for the three years

Q&A: Welcome, agenda & policy update



Please raise your hand if you would like to speak



In case due time constraints your question is not answered, please put it in the chat or send it via email EC-DIGITAL-BUILDING-BLOCKS@ec.europa.eu

We are very grateful for your feedback!

eDelivery updates

Bogdan Dumitriu



How-to video series

[DomiSMP 5.0 new features](#)

[Watch now](#)

[New features in Domibus 5.1 and 5.2](#)

Available from 24 October

Community meetings

[10th meeting of eDelivery Informal Cooperation Network](#)
15 May

[11th meeting of eDelivery Informal Cooperation Network](#)
26 November

eDelivery Events 2024



Webinars

[eDelivery value proposition](#)
26 September

[Dynamic discovery](#)
12 December

External

[PEPPOL's eInvoicing and eReporting Conference 2024](#)
30 May

[SEMIC](#)
27 June

Would like to 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>

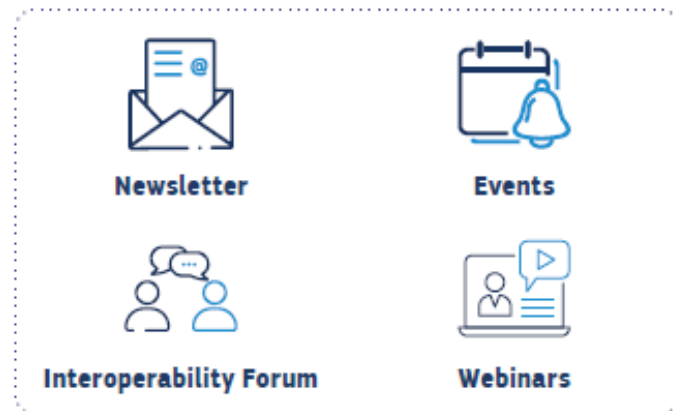
More about eDelivery

 @edeliveryBB

 <https://europa.eu/!hwcjvy>

PeerTube

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



Publications

Feel free to register here
eDelivery (4x/year)

<https://europa.eu/!v4njKB>

Building Blocks (2x/year)

<https://europa.eu/!jj87JU>



Digital eDelivery Newsletter

Get the latest news about eDelivery, part of the eIDAS enablers Family of Building Blocks

Hello everyone,

We are excited to share with you this first edition of the Digital eDelivery Newsletter. This newsletter will inform you on important news and technical updates for eDelivery, provide an outlook of what we have planned for the coming months, and share information on our upcoming events. Highlights include an invitation to our hands-on webinar on the 13th of July, and news that eDelivery has been proposed as best reusable solution for the Once-Only Technical System (OOTS).

We hope you enjoy this first edition of the Newsletter. If you have a story to tell us about how eDelivery is helping you creating a Digital Europe, just reply to this email and you may be featured in our next newsletter.

Please scroll to the end for information about this newsletter.

Digital Europe Newsletter

Get the latest news about eIDAS enablers Family of Building Blocks.

Hello everyone,

We are excited to welcome you to the very first edition of our DIGITAL Building Blocks Bulletin and want to **warmly thank you for your continued interest in the Building Blocks!**

The beginning of 2022 has marked a new chapter in our collective efforts for creating a truly digital Europe. The work begun under CEF Digital continues under the **Digital Europe Programme (DIGITAL) (2021-2027)**, the EU's new funding programme aiming to bring digital technology to businesses, citizens, and public administrations.



Events



Success stories



News



Technical Updates



Public consultation on 2.0 specs

The public consultation on the updated drafts of the eDelivery 2.0 specifications was open from **8 March to 8 April 2024**.

[eDelivery AS4 profile version 2.0 \(2024 draft\)](#)

[eDelivery SMP profile version 2.0 \(2024 draft\)](#)

[eDelivery BDXL profile version 2.0 \(2024 draft\)](#)

[eDelivery ebCore Party Id profile version 2.0 \(2024 draft\)](#)

Thank you for feedback. We will address it shortly.

eDelivery 2.0 profiles roadmap



2024

2025

Second public consultation

March/April

Interoperability Forum

18 April

TODAY

Interoperability Event

11 & 25 June

Publication

2nd half of 2024

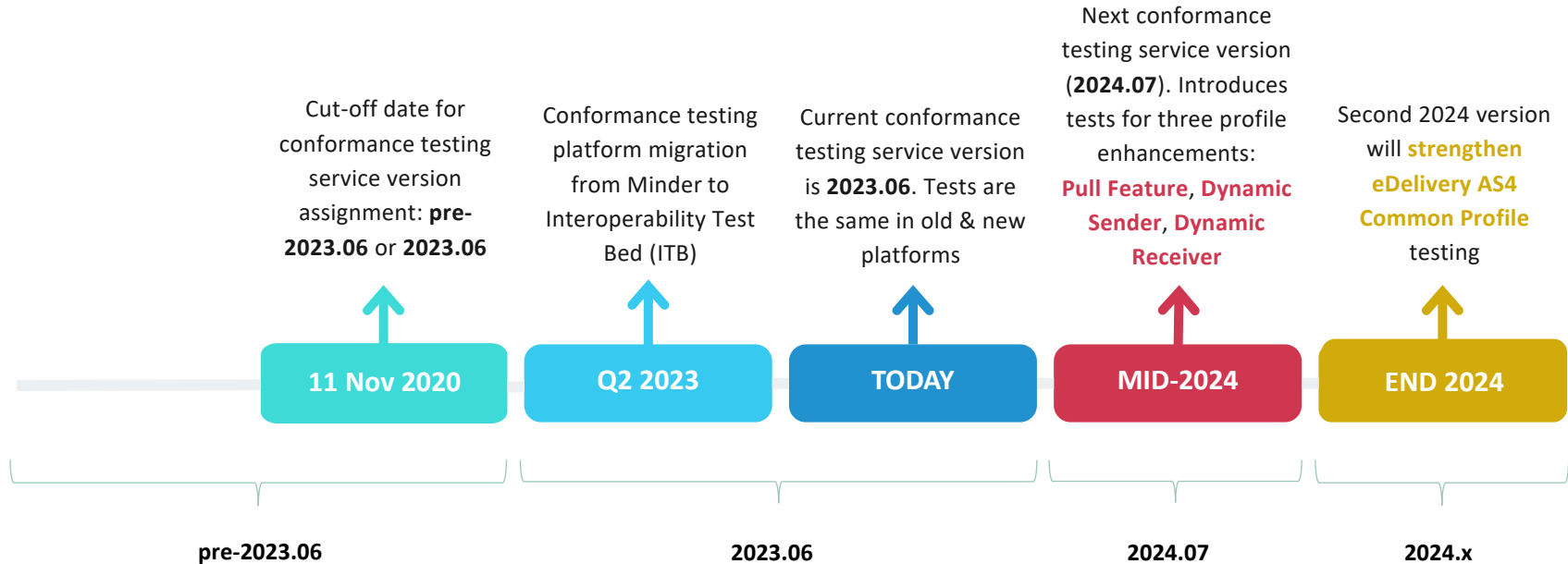
Interoperability Forum

24 October

Product support & roll-out in projects

2025 onwards

Conformance testing service roadmap





Upcoming specification changes regarding Dynamic Discovery

Context

Upon MS request, the **Once-Only Technical System** (using eDelivery) commissioned a study on the use of dynamic discovery.

A decision regarding the use of dynamic discovery is pending.

An OOTS decision to use dynamic discovery will call upon the **eDelivery Building Block** to address **several gaps** identified in the study.

EU goes Once Only

The **Once-Only Technical System** is the first EU-wide cross-sectorial and cross-domain dataspace for secure government-to-government data exchange. Send a request as an EU citizen or business and it will simplify your online administrative procedures.





eDelivery specification changes required for OOTS scenario

- **Gap 1:** Allow hybrid approach between 4-corner model (for messaging) and point-to-point model (for dynamic discovery)
- **Gap 2:** Ensure confidentiality of the SMP metadata (URL)
- **Gap 3:** Support for C3 node requesting sender (C2) certificate

eDelivery onboarding-race

SET UP



PHASE

COMMITMENT GATE

PROSPECTING

ELICIT

requirements

DESIGN

eDelivery infrastructure

SELECT

eDelivery solutions

DEPLOY

eDelivery solutions

OPERATE

eDelivery solutions

EC Policy Projects

EU Student eCard DG CNECT
Customs Single Window DG TAXUD
Digital Criminal Justice DG JUST
Carbon Border Adjustment Mechanism (CBAM) DG TAXUD
CISE DG MARE
Exchange of road-safety-related traffic offences DG MOVE
ODOCAR DG MOVE

eTransport Docs DG MOVE
FLUX TL DG MARE
NIVA project REA/AGRI/CNECT

DTLFI/eFTI Regulation DG MOVE

eHealth Data Space Pilot DG SANTE

eHealth (SMP) DG SANTE
TACHOnet DG MOVE
EMSWe DG MOVE

ODR DG JUST
eProcurement (*) GROW DIGIT
BRIS DG JUST
EPREL DG ENER
PNR (regulated) DG HOME
eEvidence DES DG JUST
eTranslation DGT
BORIS DG JUST
EUDAMED 3 DG GROW
OOTS DG GROW

e-Justice e-CODEX DG JUST / ENISA
ELRC DGT
eInvoicing DG GROW
EU-CEG DG SANTE
European Crew Database DG MOVE
IRI DG JUST
ICS2 / TAPAS DG TAXUD
DECIDE Decision SG
Union Database Biofuels DG GROW
CESOP DG TAXUD

Member State led projects (including CEF grants)

Utdataprojektet DIGG
X-Road NIIS
Dutch Energy Market NEDU
Global Interoperability Framework EESPA

EDI4STEEL TNO (NL)

Secure Digital Communication DIGG

Slovenian Supreme Court – Registered delivery SI
Croatian Post – Electronic Delivery of Post Documents HR
Digital eDelivery of registered mail in Cyprus CY
Digital Post in Denmark (e-Boks) DK

Peppol (eInvoicing) Multiple MS
Portugal's Logistics Single Window (e-Impact, EUPLe) PT
IADAATPA Multiple MS

Other institutions

EASA
OLAF
Eurojust
EMA
European Citizens' Initiative
PrepDSpace4Mobility
ATHINA HERA

SafeSeaNet EMSA
RegCom Sec Gen + Parliament

OSS system European Agency for Railways
European Public Prosecutor's Office

eDocX2017 DG HOME (EMCDDA)
PCN system European Chemicals Agency
Transparency register Sec Gen + Parliament

ENTSO Gas operators
CiXp The European Council

NEW

(*) Also part of PEPPOL

Pilot/PoC projects

Q&A: eDelivery updates



Please raise your hand if you would like to speak



In case due time constraints your question is not answered, please put it in the chat or send it via email EC-DIGITAL-BUILDING-BLOCKS@ec.europa.eu

We are very grateful for your feedback!



Increased visibility of vendors

Past actions:

- onboarding process of the connectivity testing adapted
- onboarding EU Send documentation adapted
- communication strategy adapted



Increased visibility of vendors

Current actions:

- improvement to the web site displaying conformant solutions (presented later today)

Next actions:

- publicly available list of user needs for AS4 implementations (presented next)
- campaign (newsletters, blog posts, etc.) to collect generic user needs from market solutions (coming months)

Sharing eDelivery user needs

Cosmin Baci





eDelivery user needs (1/4)

REST API for backend  **THIS FUNCTIONALITY MAY BE IMPLEMENTED IN A FUTURE DOMIBUS VERSION**

Provide REST-based integration option between backend and Access Point.

[\(EDELGOV-95\)](#)

Support digital signing of PMode configuration

Provide the option of validating the digital signature of PMode configuration.

[\(EDELGOV-97\)](#)

 **THIS FUNCTIONALITY MAY BE IMPLEMENTED IN A FUTURE DOMIBUS VERSION**



eDelivery user needs (2/4)

Keystore Management – Support for PKCS11 (HSM) **THIS FUNCTIONALITY MAY BE IMPLEMENTED IN A FUTURE DOMIBUS VERSION**

Provide support for PKCS11 (Hardware Security Module) for better keystore management.

[\(EDELGOV-99\)](#)

Prometheus compatible metrics **THIS FUNCTIONALITY IS NOT CURRENTLY PLANNED FOR INCLUSION IN DOMIBUS**

Provide support for Prometheus compatible metrics.

[\(EDELGOV-108\)](#)



eDelivery user needs (3/4)

Provide scripts for scheduled automated updates of PModes or Trust Stores



THIS FUNCTIONALITY IS NOT CURRENTLY PLANNED FOR INCLUSION IN DOMIBUS

Provide the ability to schedule configuration changes.

([EDELGOV-107](#))

Incorporate PostgreSQL support



THIS FUNCTIONALITY IS NOT CURRENTLY PLANNED FOR INCLUSION IN DOMIBUS

Provide PostgreSQL support.

([EDELGOV-50](#))



eDelivery user needs (4/4)

Capability of storing the payloads in cloud native storage services



THIS FUNCTIONALITY MAY BE IMPLEMENTED IN A FUTURE DOMIBUS VERSION

Allow leveraging cloud-native storage options for payload storage.

Capability to use cloud native password vaults

Allow integration with cloud-native password vaults for secure credential storage.



THIS FUNCTIONALITY IS NOT CURRENTLY PLANNED FOR INCLUSION IN DOMIBUS



eDelivery user needs

Consult the list anytime through
eDelivery's user community site:

[eDelivery AS4 software user needs](#)



Q&A: Sharing eDelivery user needs



Please raise your hand if you would like to speak



In case due time constraints your question is not answered, please put it in the chat or send it via email EC-DIGITAL-BUILDING-BLOCKS@ec.europa.eu

We are very grateful for your feedback!

New listing of conformant solutions

Bogdan Dumitriu





eDelivery conformant solutions listing

➔ **Launch date:** This month

➔ **Benefits:**

- New design for friendlier visualisation & access to information
- Separate listings for products & services
- Display of testing service version & conformance badges
- Traffic-lights system to highlight recently tested solutions
- Improvements to presentation of information about solutions and organisations:  [update it via form](#)



eDelivery conformant solutions listing

[Live demo](#)

Product	Testing	Conformance	Reports	Actions
Solution tested recently	Tested on 8 Aug, 2023 Conformance since 17 Jul, 2019	eDelivery AS4 2023.06 v1.15 4C SB DR DS EG EG	Download report Previous versions	 Visit webpage Read product information Contact vendor Last update: 17 Mar, 2023
Solution tested over 3 years ago	Tested on 5 Feb, 2020	eDelivery AS4 pre-2023.06 pre-1.15 4C SB DR DS EG EG	Download report Previous versions 2018.01 - v1.14 report 2017.06 - v1.14 report 2017.01 - v1.14 report	

Q&A: New listing of conformant solutions



Please raise your hand if you would like to speak



In case due time constraints your question is not answered, please put it in the chat or send it via email EC-DIGITAL-BUILDING-BLOCKS@ec.europa.eu

We are very grateful for your feedback!

Presentation of an eDelivery-based ecosystem: The Once- Only Technical System (OOTS)

**João Rodrigues Frade &
Flora Kardos**

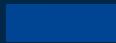




Once-Only Technical System and the Common Services

Presentation by DIGIT.B3

18 April 2024



Competitiveness in the Single Market

The Once-Only Technical System

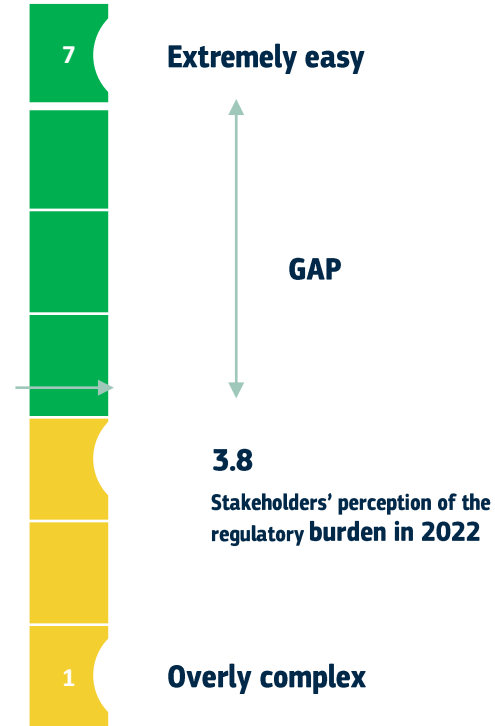
Challenge

Citizens and companies in the single market are still having difficulties to understand the different regulations and administrative procedures across the 27 Member States.

Conclusion

We must do more to ease the administrative burden on citizens and businesses.

SOURCE: Ease of regulatory compliance (Burden of government regulation) The 2024 Annual Single Market and Competitiveness Report



Why are cross-border procedures so difficult?

Today...

There are different evidences required across the Member States for administrative procedures, most of them not standardised at EU level

There are many evidence providers in each Member State and no easy way to know who they are

It is not easy for administrations to confirm that evidence citizens upload is authentic and up-to-date

Search costs

Easy to fraud

Time consuming

Uncertainty

Error-prone



Target User Journey with the Once Only Technical System

For example: Bianca, who is Italian wants to **apply for a student grant** to study in Germany



Search for the procedure in another MS using **YourEurope**

Once at the DE portal, she authenticates with her Italian eID, thanks to eIDAS

Search online to figure out the equivalent documents issued in IT

Search online to figure out who issues the documents in IT

Finds the issuer website in IT and log's-in with her national eID means

Eliminates manual search

Downloads the evidence(s) to her computer or mobile phone

Returns to the procedure portal in DE

Opt-in to request evidence(s) through the OOTS

Redirected to preview evidence on IT website

Finalises the procedure
(after returning to the DE portal)

User-control

Legal-certainty

Areas covered by the Once Only Technical System

What you'll be able to do across-borders thanks to Once-Only

BIRTH

- 1 Requesting proof of registration of birth

RESIDENCE

- 2 Requesting proof of residence

STUDYING

- 3 Applying for a study grant
- 4 Initial application for admission
- 5 Academic recognition of procedures

WORKING

- 6 Request for determination of social security benefits
- 7 Changes in circumstances relating to social security benefits
- 8 Application for European Health Insurance Card
- 9 Submitting an income tax declaration

MOVING

- 10 Registering a change of address
- 11 Registering a motor vehicle
- 12 Obtaining stickers for the use of the national road infrastructure
- 13 Obtaining emission stickers

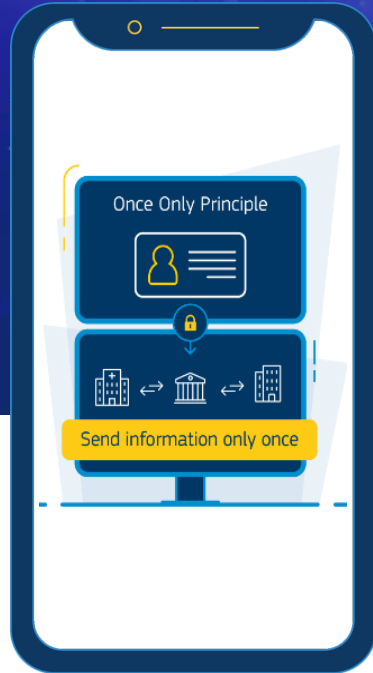
RETIRING

- 14 Claiming pension and pre-retirement benefits
- 15 Requesting information on the data related to pension

STARTING, RUNNING AND CLOSING A BUSINESS

- 16 Notification of, permission for exercising, changes of and termination of a business activity
- 17 Registration of employer with compulsory pension and insurance schemes
- 18 Registration of employee with compulsory pension and insurance schemes
- 19 Submitting a corporate tax declaration
- 20 Notification to the social security schemes of the end of contract
- 21 Payment of social contributions for employees

Once-Only Technical System (OOTS)



We collaborate to build a dataspace and the future of the Single Market

The European Commission and the EU Member States are committed to **simplifying cross-border online procedures** by allowing citizens and businesses to supply the same data to public authorities 'only once'.



Part of the
Single
Digital Gateway



Increased
efficiency



Less administrative
burden



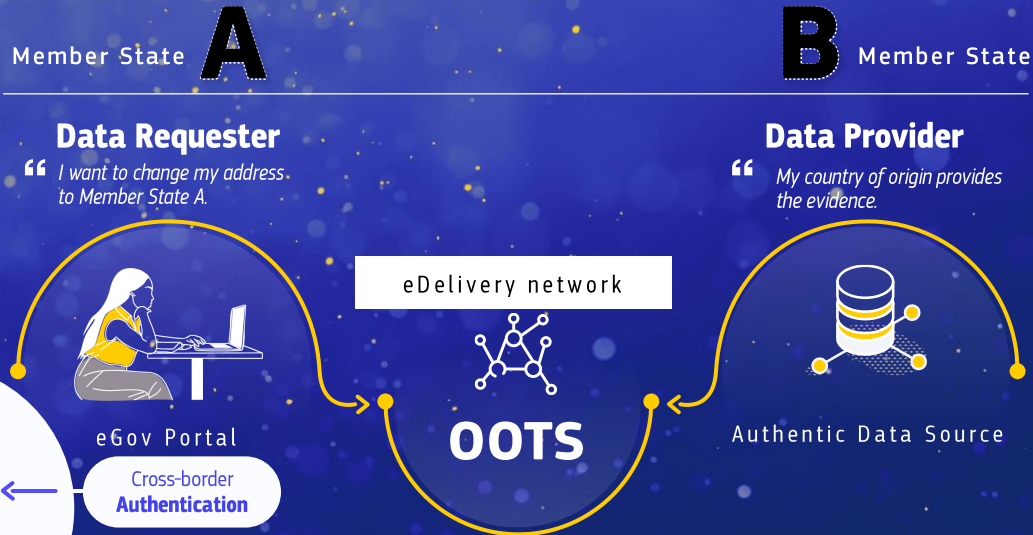
Communication
across borders



Protected personal
information

The **Once-Only Technical System** lets EU public authorities **securely exchange official documents and data at the request of citizens and businesses** as part of cross-border administrative procedures, e.g., when registering an address or vehicle when moving abroad. This innovative system eliminates the complicated manual search, mapping, and fetching of data between Member State authorities, improving efficiency, making people's lives easier, and reducing the costs of mobility in the Single Market.

The Once-Only Technical System is live since 12 December 2023 reusing eDelivery



MY
OPTIONS



EUDI

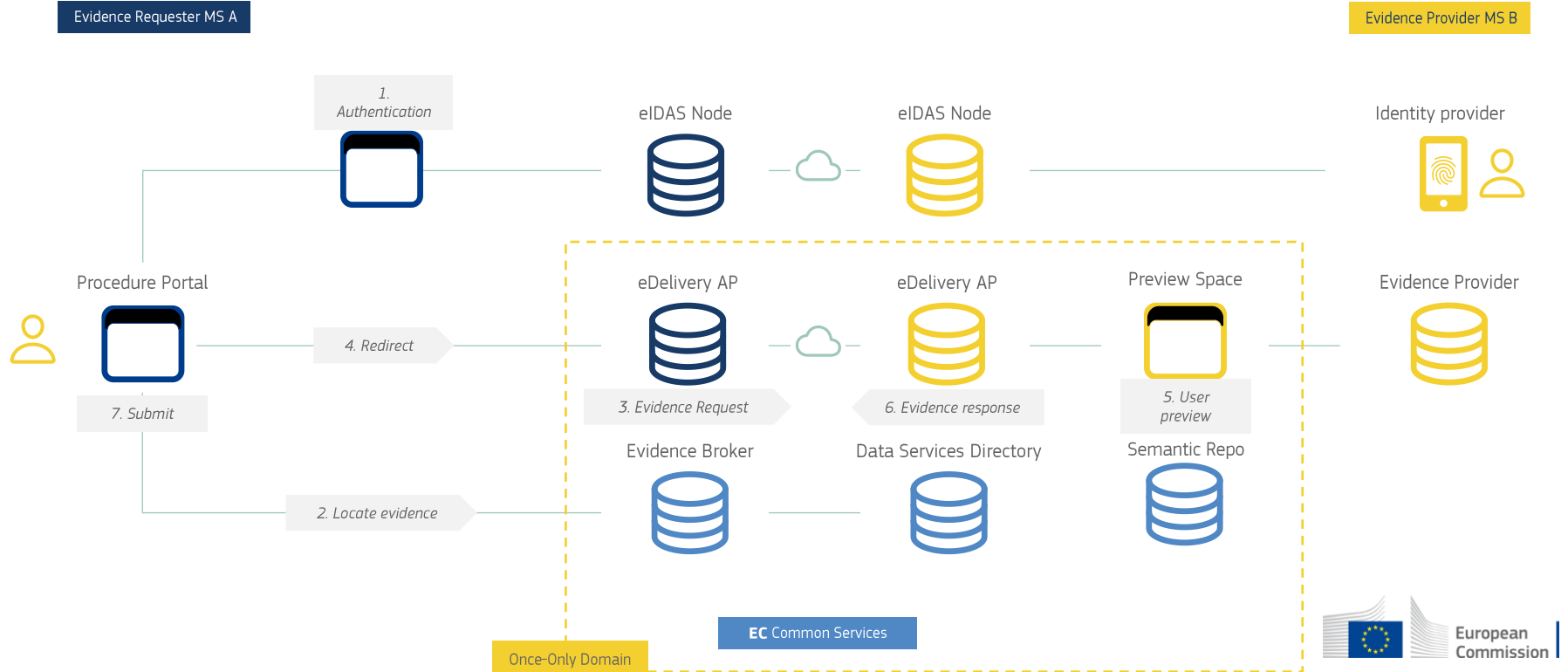
tomorrow



Notified
eID means

today

Architecture of the Once-Only Technical System (OOTS)



OOTS from the perspective of the Citizen → Business

- ✓ The website is provided by a Member State competent authority responsible for one of the procedures in scope of the SDGR.
- ✓ The procedure requires users to provide evidence.
- ✓ That evidence can be retrieved via the OOTS from another Member State.

The screenshot shows a web portal interface for a "Postgraduate Master's study grant application". At the top, there is a navigation bar with a German flag icon, "Procedure Portal", and links for "Home", "Lorem ipsum", "Help", and "Choose language". The main heading is "Postgraduate Master's study grant application" with a subtext "Complete the steps to submit your application." Below this is a progress indicator with three steps: "1. Personal information" (checked), "2. Provide supporting evidence" (selected), and "3. Submit the application". The "Required evidence" section lists four categories: "Proof of secondary education", "Proof of Bachelor's degree", "Proof of marriage", and "Proof of disability". Each category has an "Upload" button and a "Retrieve online" button. A note states: "Note: All the evidence must be in German or English." At the bottom, there are three buttons: "Cancel", "Save for later", and "Submit".

eDelivery usage in OOTS

- OOTS uses the eDelivery common profile with the 4-corner enhancement
 - Access Points are (for now) statically configured
- All conformant solutions are supported
- Configuration is possible with the help of
 - [OOTS specifications](#)
 - OOTS Support Team

4.7 - eDelivery Configuration (December 2023)

Version 1.0.0 (Mandatory)

VERSION 1.0.0 MANDATORY

Contents

- 1. Use of eDelivery AS4
- 2. Routing Metadata
 - 2.1 Party Identification
 - 2.2 DSD Derived Routing Metadata
 - 2.3 Static Routing Metadata
 - 2.4 Reverse Routing for Evidence Provider Submission to Evidence Requester
 - 2.5 Message Exchange Pattern
 - 2.6 Payload Routing Metadata
- 3. Access Point Interconnectivity
- 4. Network and Transport Layer Security
- 5. Payload Profile
- 6. References

State of play in Member State implementations

- Member States are still in the process of onboarding
- Solutions are being looked for
- A dynamic growth in Access Points is expected
 - Future-oriented thinking: reusing Access Points for other initiatives as well
- Information on different solutions and their value propositions could help Member States select the best fit for their organization





OOTTS Projectathons

Live testing events including connectivity testing and troubleshooting with the help of onsite support teams

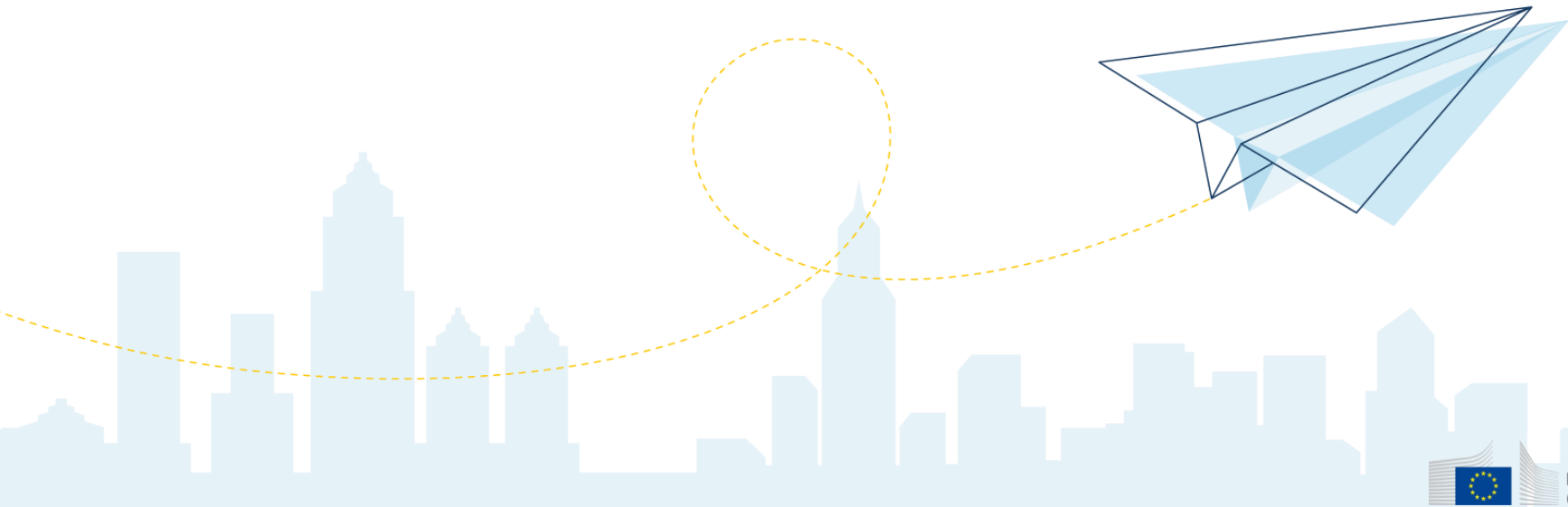


OOTS Support

Constant support to Member States
with their implementation, including
Access Point configuration

Join us & collaborate with

- Once-Only Hub - **Visit**
- OOTS & EUDI Wallet Synergies and Interoperability Contact Group - **Visit**



Q&A: Presentation of the OOTS



Please raise your hand if you would like to speak



In case due time constraints your question is not answered, please put it in the chat or send it via email EC-DIGITAL-BUILDING-BLOCKS@ec.europa.eu

We are very grateful for your feedback!

Update on the Interoperability Event

Bogdan Dumitriu





Interoperability Event

Two remote sessions (11 & 25 June) to test connectivity between proof-of-concept implementations of eDelivery AS4 2.0 specifications

Information

Who:

- Software vendors building their eDelivery AS4-conformant solution based on 2.0 draft specifications

When:

- Tuesdays, 11 & 25 June 2024
- Virtual 3-hour sessions

Pre-registration:

- Email us at EC-DIGITAL-BUILDING-BLOCKS@ec.europa.eu





Interoperability Event

We will simulate a mesh network to test interoperability between different AS4 implementations.

Initial test plan

Exchange messages:

- one-way push AS4
- one payload
- signed and encrypted
- recipient to validate signature and decrypt

Participants will test sending and receiving messages within their group or the entire network, depending on the number of participants.



Interoperability Event

We will publish Interoperability Event guidance documentation by the end of April

The participant resources will include the following:

- Support artefacts and lessons learned from the development of the POC carried out by the eDelivery team
- Description of configuration parameters and digital certificates that participants should share with eDelivery before the event
- Description of where participants can find the metadata needed to configure their Access Point when enabling connections with other participants
- Details on test cases that will be proposed for the participants to run, as well as the steps participants are encouraged to execute for each test case
- Details on how participants will provide feedback on the results of the test cases and how support for investigation and troubleshooting could be carried out after the event



Interoperability Event

To participate, please let us know by mid-May, then share your certificates by the end of May.

Step 1. Prepare your implementation

Implement the latest eDelivery AS4 2.0 specifications. Solutions in proof-of-concept or work-in-progress stages are welcome.

Step 2. Pre-register (by 15 May)

Drop us a line at
EC-DIGITAL-BUILDING-BLOCKS@ec.europa.eu

Step 3. Share your URLs & certificates (by 30 May)

Establish URLs, generate and submit a signing certificate and an encryption certificate.



Q&A: Update on the Interoperability Event



Please raise your hand if you would like to speak



In case due time constraints your question is not answered, please put it in the chat or send it via email EC-DIGITAL-BUILDING-BLOCKS@ec.europa.eu

We are very grateful for your feedback!

Feedback & closing



Next Interoperability Forum meeting



Goals of next meeting:

- Facilitate dialogue
- Involve you more directly
- Learn who you are
- How can eDelivery (and the Forum) serve your interests better?

24 October 2024



**Stay up to
date on our
community
page**

Save the date

Feedback & discussion



Please raise your hand if you would like to speak



In case due time constraints your question is not answered, please put it in the chat or send it via email EC-DIGITAL-BUILDING-BLOCKS@ec.europa.eu

We are very grateful for your feedback!

Have a question?



eDelivery

Exchange data and documents
online reliably and securely



Bogdan Dumitriu



To continue the conversation,
contact our team via email

Emails:

EC-digital-building-blocks@ec.europa.eu



EC-eDelivery-support@ec.europa.eu



Thank you

Fill in the poll on Webex
Stay in touch!

