

eDelivery Interoperability Forum

28 November 2023



Welcome

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

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



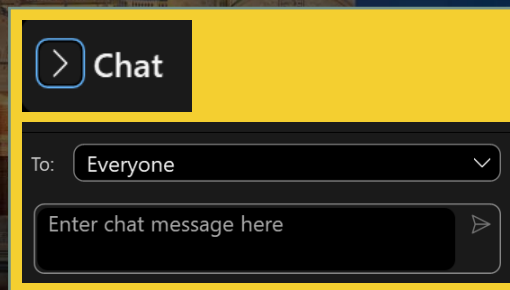
The meeting **is not** being recorded



Place your Qs **in the chat section**



Mute your microphone when you do not speak



Today's agenda

- 1 Welcome** *(by Maya Madrid)*
Introduction and presentation of the agenda
- 2 Recent updates** *(by Bogdan Dumitriu)*
Presentation of conformant solutions
Updates on changes to eDelivery profiles
- 3 eDelivery's contributions to Java web service security libraries** *(by Joze Rhitarisic)*
- 4 A new digital Ecosystem using eDelivery: electronic Freight Transport Information (eFTI) Exchange Environment.** *(by Lia Potec)*
Overall presentation
The role for service providers
- 5 Discussion & feedback** *(all)*



Digital Europe Programme (2021-2027)



Digital Europe Programme 2023-2024

Digital Europe Programme 2025-2027

2028 onwards

Next eDelivery Interoperability Forum meeting

18 April 2024



[eDelivery
Interoperability
Forum. 18 April
2024 -
eDelivery User
Community -
\(europa.eu\)](#)

eDelivery Recent updates

Bogdan Dumitriu



Presentation of Conformant Solutions





Increased visibility of vendors

- The **eDelivery Support Office** adapted the onboarding process of the connectivity testing service to provide configuration information that is generic instead of specific to the eDelivery sample software.
- The **EU Send Support Office** confirmed they changed the onboarding documentation to be more generic about the eDelivery solution being onboarded and to provide information about how to contact other vendors.
- The **eDelivery building block's** communication strategy is being adapted to better support the entire ecosystem:
 - Active positioning of non-sample software options in presentations.
 - Defining model for increasing promotion of conformant products and services **(please provide suggestions in Q&A!)**.
 - Improvement to the website displaying conformant solutions which will include links to products and services. This will **make products and services more accessible to potential users.**

Conformance Testing Service



Recap

New conformance testing platform

The new conformance testing platform is available:

<https://edelconfag.westeurope.cloudapp.azure.com:8091/>

New display of conformant solutions

Conformant eDelivery AS4, SMP and SML products will be displayed in a new way to make sure recently tested products (and product versions) are clearer to the users.



New conformant solutions listing

➔ **Planned public release: April 2024**

- Services and products will be presented on separate pages
- Until then, share your feedback with us!
- Our support team will reach out to get resources (like links, presentations, emails) that we can publish on the new (improved) pages

➔ **How vendors / service providers benefit from the new listing:**

- Stand out by having your service/product tested recently
- Use eDelivery badges for other purposes (they are public URLs)
- Feel free to contribute with your presentation/support/contact info



New visualisation

Concept loosely inspired by Euro NCAP



How potential users benefit:

- Clear separation between services and products (version indicated for clarity)
- Traffic-light colouring to reflect the status of the conformance service version
- Badges indicate the versions of the conformance service & profile
- Improved view of which solutions have been tested against most recent (stringent) rules
- Further related resources about product/service available in the listing
- Business users can quickly identify which solution is the most suitable for their needs



New conformant solutions listing

Badge contains:









































- profile/profile enhancement name,
- eDelivery profile version,
- conformance service version

(reflected by different colours for each version of the conformance service)

Row background colour indicates how "old" the conformance service version used to test your solution is compared to the most recent version.

Green is for the most recent!

Test reports from the ITB platform and resources you share with us for your solution, like the name of the company, the link to the website of the solution, presentation of the solution (PDF format) and the email to contact.

| Name | Test Date | Badges | Conformance Since | Information | Support Offering | Remarks |
|--|--------------------|--|-------------------|---|---|---------|
|  Infinite Jest | Jan 12, 2024 00:00 |     | May 15, 2017 |     |  | |
|  Candide | Jan 12, 2024 00:00 |     | May 15, 2017 |     |  | |
|  Pirx | Jul 12, 2023 |     | Nov 12, 2023 |     |  | |
|  ACME | Jan 12, 2023 |     | Nov 12, 2023 |     |  | |

This date indicates when the tests under a given conformance service version were performed.

This date shows since when the solution is conformant.

Provide the link to your support offering. You are free to define/maintain anything relevant to the support service on your website and organise contact approach.

As is already the case, the badges for conformance with a given profile/profile enhancement remain clearly distinguished from those that are greyed out ("not passed").



New presentation (I)

| Name | Type | Conformant Service Version | | |
|--|-----------|------------------------------|-------------------------------|-------------------------------|
| | | Next (2024.x) | Current (2023.06) | Previous (2023.01) |
| eDelivery AS4 Common Profile | MANDATORY | CP 2024.x v1.15 | CP 2023.06 v1.15 | CP 2023.01 v1.15 |
| Four Corner Topology <i>(Profile enhancement)</i> | OPTIONAL | 4C 2024.x v1.15 | 4C 2023.06 v1.15 | 4C 2023.01 v1.15 |
| Standard Business Document Header (SBDH) <i>(Profile enhancement)</i> | OPTIONAL | SB 2024.x v1.15 | SB 2023.06 v1.15 | SB 2023.01 v1.15 |
| Dynamic Receiver <i>(Profile enhancement)</i> | OPTIONAL | TESTS PLANNED | NO TESTS | NO TESTS |
| Dynamic Sender <i>(Profile enhancement)</i> | OPTIONAL | TESTS PLANNED | NO TESTS | NO TESTS |
| Pull Feature <i>(Profile enhancement)</i> | OPTIONAL | PF 2024.x v1.15 | NO TESTS | NO TESTS |
| Large Message Splitting and Joining <i>(Profile enhancement)</i> | OPTIONAL | NO TESTS | NO TESTS | NO TESTS |
| ENTSOG <i>(Separate profile compatible with eDelivery AS4)</i> | OPTIONAL | EG 2024.x v1.15 | EG 2023.06 v1.15 | EG 2023.01 v1.15 |




















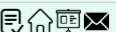






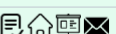






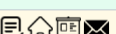










Learning benefit

- Legend with resources to learn more about profiles & profile enhancements
- Publicly available page with context to understand the conformance testing process



New presentation (II)

| Name | Test Date | Badges | Conformance Since | Information | Support Offering | Remarks |
|---|--------------|---|-------------------|--|---|---------|
|  Infinte Jest | Jan 12, 2024 |     | May 15, 2017 |  |  | |
|  Candide | Jan 12, 2024 |     | May 15, 2017 |  |  | |
|  Pirx | Jul 12, 2023 |     | Nov 12, 2023 |  |  | |
|  ACME | Jan 12, 2023 |     | Nov 12, 2023 |  |  | |
|  Chivo | Jan 19, 2021 |     | Jun 19, 2022 |  |  | |
|  Die Schwarze Spinne | Oct 11, 2018 |     | Oct 11, 2018 |  |  | |

Last 3 years

3-6 years ago

6-9 years ago



How will the listing page evolve?

- Over three-year periods, conformant solutions' test date will be clearly indicated with the background colour (green – yellow – red)
- With the introduction of tests under eDelivery profile v2.0, we will publish separate pages to distinguish between profile versions

Discussion and Q&A



Please raise your hand if you would like to speak

We are very grateful for your feedback!

Profile updates

Progress update regarding the changes to eDelivery AS4 and SMP profiles in response to the public consultations



Feedback to Public Consultation

The public consultation for eDelivery AS4 and SMP 2.0 specification changes was open from 19 June to 10 November 2023.

➔ Interoperability Forum on 27 June 2023

- Publication of [recommendations of cryptography experts](#).
- Cryptography expertise requested concerning key transport vs key agreement
- Note added to the consultation for the eDelivery SMP 2.0 profile concerning using separate values for the U-NAPTR service field.

➔ 4 written responses

- One meeting request (meeting to be scheduled in December)
- One confirmation without comments
- Two remaining responses are currently being analysed



Further internal evolution (1)

The public consultation for eDelivery AS4 and SMP 2.0 specification changes was open from 19 June to 10 November 2023.

➔ ConcatKDF vs HKDF

- [RFC 9231](#) was adopted in June 2022, obsoleting [RFC 6931](#), lists URIs intended for use with XML digital signatures, encryption, canonicalization, and key management
- [RFC 9231](#) was incomplete errors regarding HKDF Key Derivation, rendering it unusable in a standard-compliant way
- A contribution for correction was made to the editor for inclusion in [RFC 9231bis](#)
- Initial eDelivery AS4 2.0 draft specification was based on ConcatKDF. The intention is to change it to use HKDF instead (preferred cryptographic option, even though ConcatKDF is still considered adequate)



Further internal evolution (2)

The public consultation for eDelivery AS4 and SMP 2.0 specification changes was open from 19 June to 10 November 2023.

- ➔ Use of additional **AES symmetric key** in step 8 of Section 3.2.6.3. “Security Header Processing Example” under analysis:
6. [...]
 7. The shared secret is used as an input into the key derivation method (ConcatKDF) to derive an **AES key wrap key**. [...]
 8. An **AES symmetric key** is generated at random and used to encrypt the MIME payload parts following [WSSSWA].
 9. The AES key generated at step 8 is wrapped.
 10. [...]



Further internal evolution (3)

The public consultation for eDelivery AS4 and SMP 2.0 specification changes was open from 19 June to 10 November 2023.

➔ Specifications needed about how to encode the public ephemeral X25519 key (since it only has one point, not two as EC public key):

```
<xenc:OriginatorKeyInfo>
  <ds:KeyValue>
    <ds11:ECKeyValue xmlns:ds11="http://www.w3.org/2009/xmlsig11#">
      <!-- Public ephemeral X25519 key.
           See http://oid-info.com/get/1.3.101.110 and RFC 8410
      -->
      <ds11:NamedCurve URI="urn:oid:1.3.101.110"/>
      <ds11:PublicKey> ENCODED </ds11:PublicKey>
    </ds11:ECKeyValue>
  </ds:KeyValue>
</xenc:OriginatorKeyInfo>
```



Preliminary reactions

The public consultation for eDelivery AS4 and SMP 2.0 specification changes was open from 19 June to 10 November 2023.

➔ Key transport vs key agreement:

- Cryptography expert advice will be included in “Disposition of public review comments” and presented in upcoming meeting
- Strategic objective remains to introduce new security baseline for the next decade (absent fast advances in post-quantum cryptography)

➔ Removal of SBDH profile enhancement:

- The eDelivery team will submit the removal of the SBDH profile enhancement from the eDelivery AS4 profile to public consultation (due to limited use)



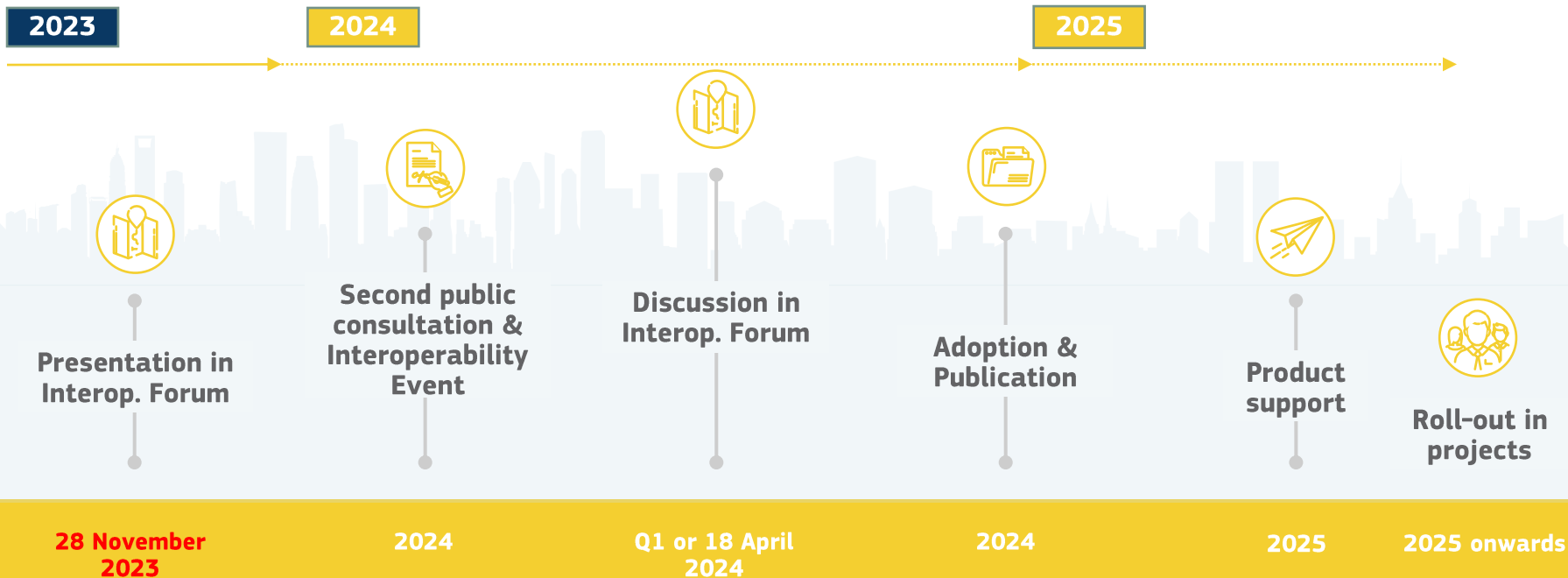
Consultation follow-up

The public consultation for eDelivery AS4 and SMP 2.0 specification changes was open from 19 June to 10 November 2023.

- ➔ The eDelivery team will prepare and publish “Disposition of public review comments” and second iteration of draft specifications, *followed by*
- ➔ Q1 2024 (tentative) meeting of the Interoperability Forum to discuss the disposition document, *followed by*
- ➔ Launch of the public consultation for second iteration of draft specifications and organisation of interoperability event



AS4 & SMP 2.0 Profiles Roadmap



AS4 2.0 Profile consultation <https://ec.europa.eu/digital-building-blocks/wikis/x/dVTZJw>
SMP 2.0 Profile consultation <https://ec.europa.eu/digital-building-blocks/wikis/x/zSs0K>

eDelivery BB's contributions to Java WS security libraries

Joze Rihtarsic

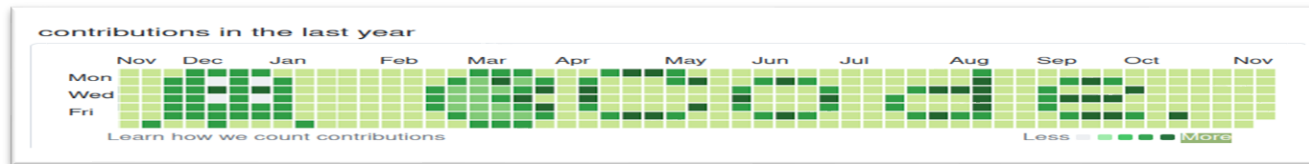


eDelivery contribution to third-party open-source projects



Reasons

- Fulfilling the EC's open-source software strategy 2020-2023:
 - “We strive to be an active member of the diverse open-source ecosystem.”
 - “We share our code and enable incidental contributions to related open-source project.”
- Effort we made benefits to a wider circle of users through the existing Open-Source Community
 - Contributions are limited to the knowledge and expertise of the eDelivery team (Java ecosystem).
 - Direct impact: Java-based third-party developers, software vendors can re-use libraries in their own solutions.
 - Indirect impact: can be used as example and testing platform for development of the same features using other programming languages and libraries.
- Improves Project Quality
 - Changes are reviewed by external experts.
 - Less or no maintenance compared to custom fixes and workarounds.
- Collaborate with external developers (Learning and experiences)



Santuario #90: Support for EdDSA XML signatures: Ed25519 and Ed448



eDelivery contribution to open-source projects

- Apache/xmlsec (Santuario)
 - Contribution created on: **14/11/2022**
 - Released on: **30/03/2023**, Versions: 2.3.3 and 3.0.2
- Currently used by various eDelivery sample implementations
 - Reduced development costs because:
 - the feature was only developed once and reused many times,
 - Less impact to product because reuses the existing configuration approach of an existing open-source library.

Santuario #90: Support for EdDSA XML signatures: Ed25519 and Ed448



eDelivery usage example

Keystore administration

Keystore contains keys for signing responses and Client keys for SML integrations .

Filter certificate/keys by alias

Import keystore Delete selected key

| Alias |
|----------------------|
| testcertificatea_001 |
| smp-comformance-test |
| test-ed25519 |

Selected certificate data

| | |
|--|---------------------------------------|
| Public key type Ed25519 | Alias test-ed25519 |
| SMP certificate ID CN=Test-Ed25519,O=DIGIT,C=EU:00000000000002710 | |
| Subject Name C=EU,O=DIGIT,OU=EDELIVERY,CN=Test-Ed25519 | |
| Valid from date 14/11/2022, 14:14:05 | Valid to date 12/11/2032, 14:14:05 |
| Issuer C=EU,O=DIGIT,OU=EDELIVERY,CN=Test-Ed25519 | |
| Serial Number 2710 | |

```
<ns5:ServiceGroup>
  <SMPVersionID>2.0</SMPVersionID>
  <ParticipantID schemeID="test-scheme-id">example-id</ParticipantID>
  <Signature>
    <SignedInfo>
      <CanonicalizationMethod Algorithm="http://www.w3.org/TR/2001/REC-xml-c14n-20010315"/>
      <SignatureMethod Algorithm="http://www.w3.org/2021/04/xmlsig-more#eddsa-ed25519"/>
      <Reference URI="">
        <Transforms>
          <Transform Algorithm="http://www.w3.org/2000/09/xmlsig#enveloped-signature"/>
        </Transforms>
        <DigestMethod Algorithm="http://www.w3.org/2001/04/xmlenc#sha256"/>
        <DigestValue>MnEPQfIQ+p9/TVNBDrrxOZNTpHT5BHkh7RzADyNlmc=</DigestValue>
      </Reference>
    </SignedInfo>
    <SignatureValue>
      7n+XBh+1TnYn0nq86ejzw8h7yITKSqaiAodw6nCLPJetlrO34mMdTWAGORp3i6UvsDGNcNnTzz U5gnrjNFCg==
    </SignatureValue>
  </KeyInfo>
  <X509Data>
    <X509SubjectName>C=EU,O=DIGIT,OU=EDELIVERY,CN=Test-Ed25519</X509SubjectName>
    <X509Certificate>
      MIIBPTCB8KADAgECAgInEDAFBgMrZXAwsDEVMbMGA1UEAwMVGVzdC1FZDI1NTE5MRlwEAYDVQQLDAIFRE
      Fw0zMjExMzE0MDVaMEgxFtATBgNVBAMMDFRlc3QtRWQyNTUxOTESMBAGA1UECwwJRURFTElW RVJZMC
      JluDtax+HjU8GbwaLfrqFSjyzAFBgMrZXADQQBudKycpXEpGpyMn+EDDHDsBNx9X9buTW9ue1/k XI0l/jb7mM83Gf
      </X509Certificate>
    </X509Data>
  </KeyInfo>
</Signature>
</ns5:ServiceGroup>
```

Santuario #90: Support for EdDSA XML signatures: Ed25519 and Ed448



Code example: apache xmlsec/santuarion library

1. Load the EdDSA type key

```
KeyStore keyStore = KeyStore.getInstance(EDDSA_KS_TYPE);
org.w3c.dom.Document docToSign = TestUtils.newDocument();
PrivateKey privateKey =
    (PrivateKey) keyStore.getKey("Ed25519-Alias", "*****".toCharArray());
SignatureAlgorithm signatureAlgorithm = new SignatureAlgorithm(doc, XMLSignature.ALGO_ID_SIGNATURE_EDDSA_ED25519);
XMLSignature sig = new XMLSignature(docToSign, null, signatureAlgorithm.getElement(), canonElem);

sig.sign(privateKey);
```

2. Set algorithm

Find more examples in repository:

<https://github.com/apache/santuario-xml-security-java>

Tests:

test/java/org/apache/xml/security/test/javax/xml/crypto/dsig/SignatureValidatorEdDSATest.java
test/java/org/apache/xml/security/test/dom/signature/EDDSASignatureTest.java

...

Santuario #219: Update protectAgainstWrappingAttackNode Wrapping method for proxy elements



eDelivery contribution to open-source projects

- Exception detected by eDelivery development team using Tomcat with JDK 11, xmlsec 2.3.0 with the SOAP messaging library com.sun.xml.messaging.saaj:saaj-impl:1.5.3:

```
javax.xml.crypto.URIReferenceException: Multiple Elements with the same ID [...] were detected  
at org.apache.jcp.xml.dsig.internal.dom.DOMURIDereferencer.dereference(DOMURIDereferencer.java:85)
```

- Quick custom workaround was made for internal development on 31/10/2022
- Contribution to Apache / Santuario (XMLSEC)
 - Contribution created on **06/10/2023**,
 - Added to release on **19/10/2023** Versions: 2.3.4 and 3.0.3

Support for the Diffie-Hellman-ES encryption with EC and XEC keys



eDelivery contributions to open-source projects to support eDelivery AS4 2.0 profile

- Support for the Diffie-Hellman-ES encryption with EC and XEC keys
 - Cryptographic algorithms used by upcoming eDelivery AS4 2.0 profile
- Contributions:
 - Apache/xmlsec(Santuario) #223 v2.3.x (JDK8, Jakarta EE 8): Created 17/10/2023 (Ongoing)
 - Apache/xmlsec(Santuario) #234 v3.0.x, v4.0.x (JDK8, JDK11, Jakarta EE >8): Created 23/10/2023 (Ongoing)

SANTUARIO-511: Implementation of the Diffie-Hellman-ES key exchange for EC and XEC keys #234

Open jrihtarsic wants to merge 11 commits into apache:main from jrihtarsic:main-branch-ecdh-es-feature

Conversation 66 Commits 11 Checks 3 Files changed 57 +3,666 -205

coheigea approved these changes yesterday

coheigea left a comment

Awesome contribution @jrihtarsic



Other Open contributions

eDelivery contributions to open-source projects to support eDelivery AS4 2.0 profile

- **Apache/WS-WSS4J**: Support for EdDSA XML signatures: Ed25519 and Ed448: Created 14/11/2023 (PR: #210)
- **Apache/WS-WSS4J**: Support for ECDH-ES using updated xmlsec library: Created: 19/11/2023 (PR: #216)
- **Apache/CXF**: Unit tests to validate ECDH for WSS4J interceptors using updated apache xmlsec and ws-wss4j library. Created: 20/11/2023 (#1482)
- **Apache/xmlsec (santuario)**: implementation of the key derivation function based on the HMAC message authentication code (HKDF) (Ongoing).
- ...

the final goal is to integrate the latest security cryptographic algorithms proposed in eDelivery AS4 2.0 draft specification into the apache cxf web service framework in a way that they can be used as a regular configuration option.

Discussion and Q&A



Please raise your hand if you would like to speak

We are very grateful for your feedback!

eDelivery Digital Ecosystems

“eDelivery Digital Ecosystems include a wider range of projects and programmes, public and/or private organisations that use eDelivery for a joint purpose.”



**A new digital
Ecosystem using
eDelivery
electronic Freight Transport
Information (eFTI) Exchange
Environment.**

Lia Potec





Electronic Freight Transport Information (eFTI) Regulation (EU 2020/1056)

eDelivery Interoperability Forum,

28 November 2023

Lia Potec, DG MOVE

Objectives



Promote use of digital technologies to fulfill regulatory requirements within the EU

Reduce administrative cost for operators and enhance the efficiency of rule enforcement



Acceptance by public authorities of freight transport information made available electronically



Uniform implementation of the obligation of acceptance by authorities



Interoperability of the IT systems and solutions used

“This Regulation establishes a [harmonised] legal framework for the electronic communication of regulatory information between the economic operators concerned and competent authorities in relation to the transport of goods on the territory of the Union” (Article 1)

Key elements



Information (already) required by EU & national legislation

- Legislation applicable to the transport of goods on the EU hinterland
- Legislation concerning the means of transport and the personnel not concerned



Obligation for all competent authorities in all EU Member States

- Accept the information electronically
- Use common requirements/technical specifications for acceptance (defined by EU implementing legislation)



Option for the economic operators

- Facilitation – possibility to present the information electronically; no obligation
- When opting, obligation to use certified eFTI platforms or service providers



Common requirements for service providers and platforms

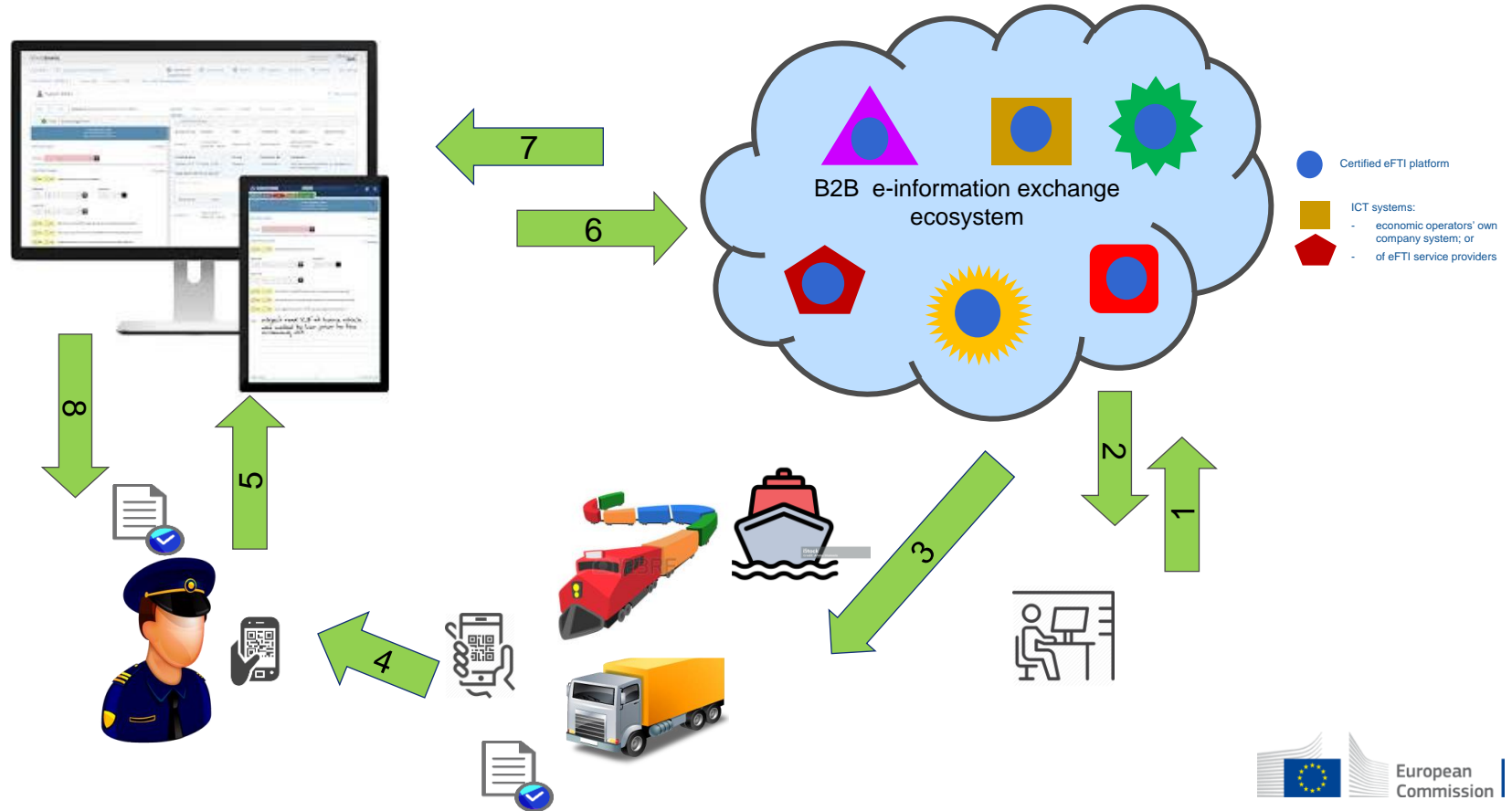
- For platforms' functionalities and, respectively, service providers' obligations
- Common implementation specifications (defined by EU implementing legislation)



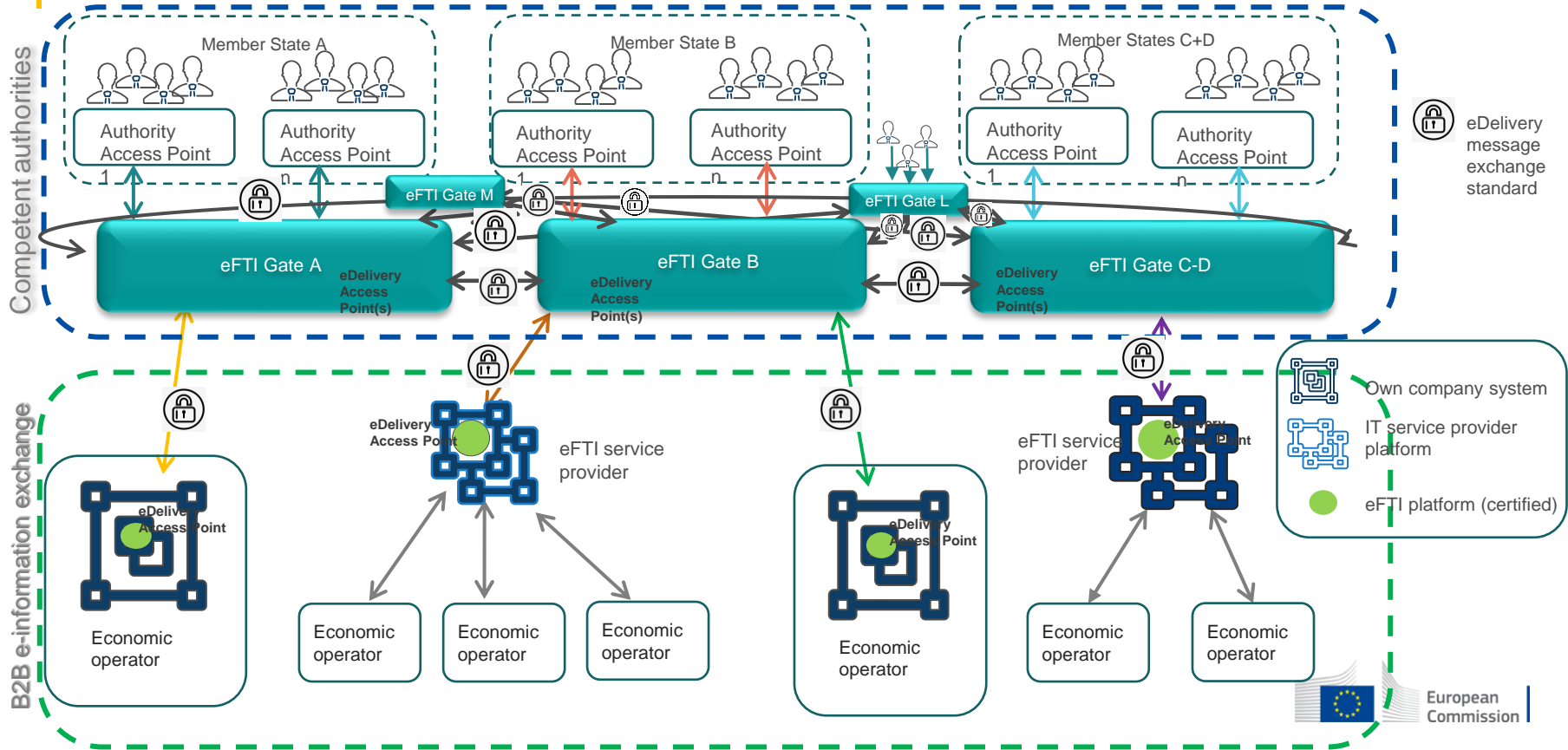
Harmonised third-party certification for service providers and platforms

- One stop shop, valid EU-wide

In practice (a simplified vision)...



Proposed implementation architecture



Certification of eFTI platforms and eFTI service providers (1/2)

Third-party certification process, governed by Regulation (EC) No 765/2008

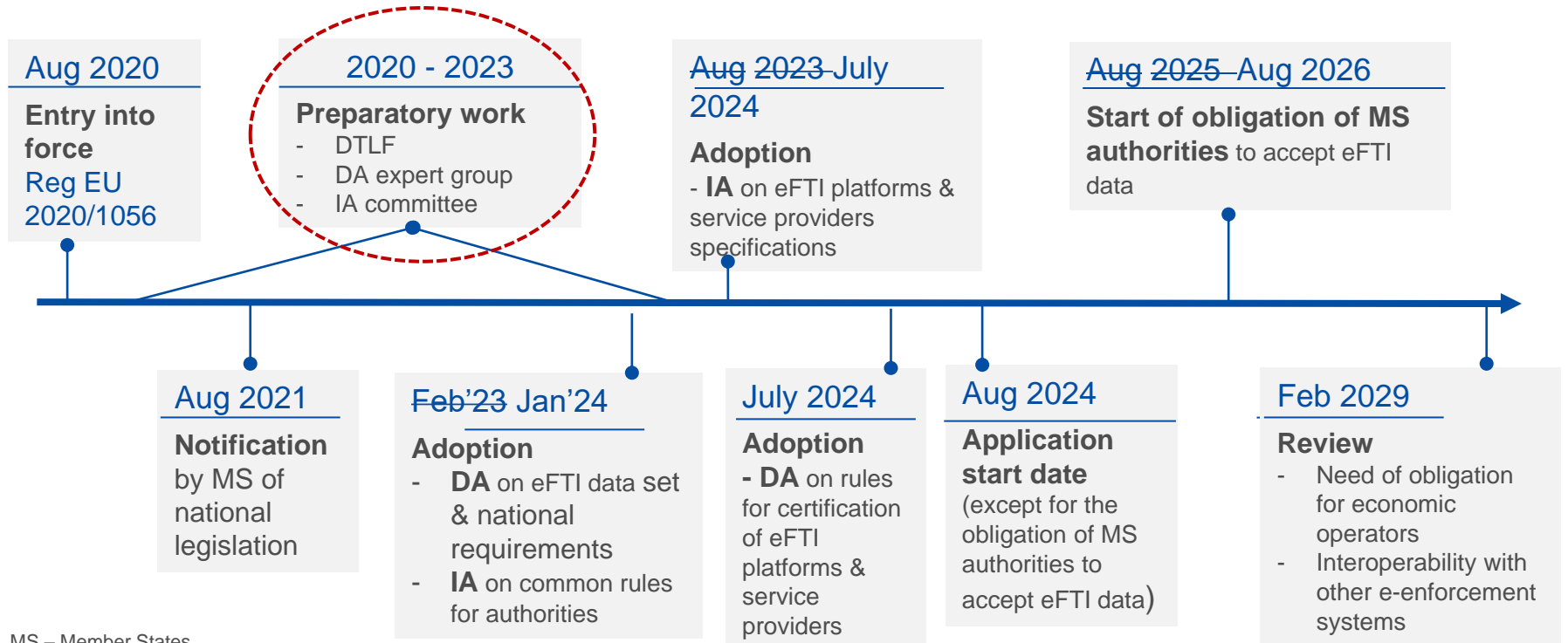


Certification of eFTI platforms and eFTI service providers (2/2)

Legal basis

- eFTI platforms main functional requirements (Art 9 of eFTI Regulation)
 - ✓ Detailed specifications in future Implementing Regulation (expected July 2024) + technical guidance documents
- eFTI service providers main requirements (Art 10 eFTI Regulation)
 - ✓ Detailed specification in future Implementing Regulation (expected July 2024) + technical guidance documents
- Requirement for certification of eFTI platforms and of eFTI service providers (Art 12 and Art 13 of eFTI Regulation)
 - ✓ Detailed rules for certification in future Delegated Regulation (expected July 2024)

eFTI Regulation implementation and application – Indicative timeline



MS – Member States

DA – Delegated act (Commission Regulation)

IA – Implementing act (Commission Regulation)

DTLF – Digital Transport and Logistics Forum

eDelivery for eFTI – Why?

- Decentralised cross-border architecture → need for agreed message exchange specifications among many actors/system components
 - ✓ eDelivery offers readymade standard specifications based on open standards
 - **Don't reinvent the wheel:** No need for complex, highly technical and lengthy discussions to agree on and update the specifications
 - ✓ eDelivery has already been implemented in several cross-border projects
 - **Re-use:** Member States and private stakeholders can leverage the experience and expertise already gained
 - **Convenience:** Several compliant software solutions already available
 - **Benefits of scale** : A growing community of users that can exchange experience, discuss possible improvements
 - ✓ eDelivery offers central support services
 - **Savings:** Relying on the available tools & services reduces the need for additional resources

Expected impacts of eFTI Regulation implementation

Investment costs

➤ EUR 4.4 billion*



- ✓ EUR 20-27 billion administrative cost savings*
- ✓ EUR 75-102 million work hours**
- ✓ More efficient and innovative logistics services

➤ EUR 268 million*



- ✓ Risk-based checks → More efficient & smart enforcement
- ✓ Better statistics → Better targeted policy making

SMART



- ✓ 1300+ tones CO2 emissions savings*
- ✓ 180 000 – 900 000 trees saved**

Benefits

*Total EU28, 2020-2040 (2018 prices)

** Annual

Keep in touch



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[eFTI Regulation](#)

[eFTI Regulation impact assessment](#)



[Register of Commission Expert Groups: DTLF](#)

www.DTLF.eu



[Videos:](#)

<https://ec.europa.eu/assets/move/video/DTLF-SG1.mp4>

<https://ec.europa.eu/assets/move/video/DTLF-SG2.mp4>

Thank you



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Discussion and Q&A



Please raise your hand if you would like to speak

We are very grateful for your feedback!

Thank you

& stay in touch

