



CEF eDelivery implementation workshop

Roadmap for CEF eDelivery

Adrien Ferial – DIGIT

6 December 2017

Agenda

1 Roadmap for CEF eDelivery 2018

2 Modularisation of AS4

3 CEF eDelivery Service Offering

4 Q&A

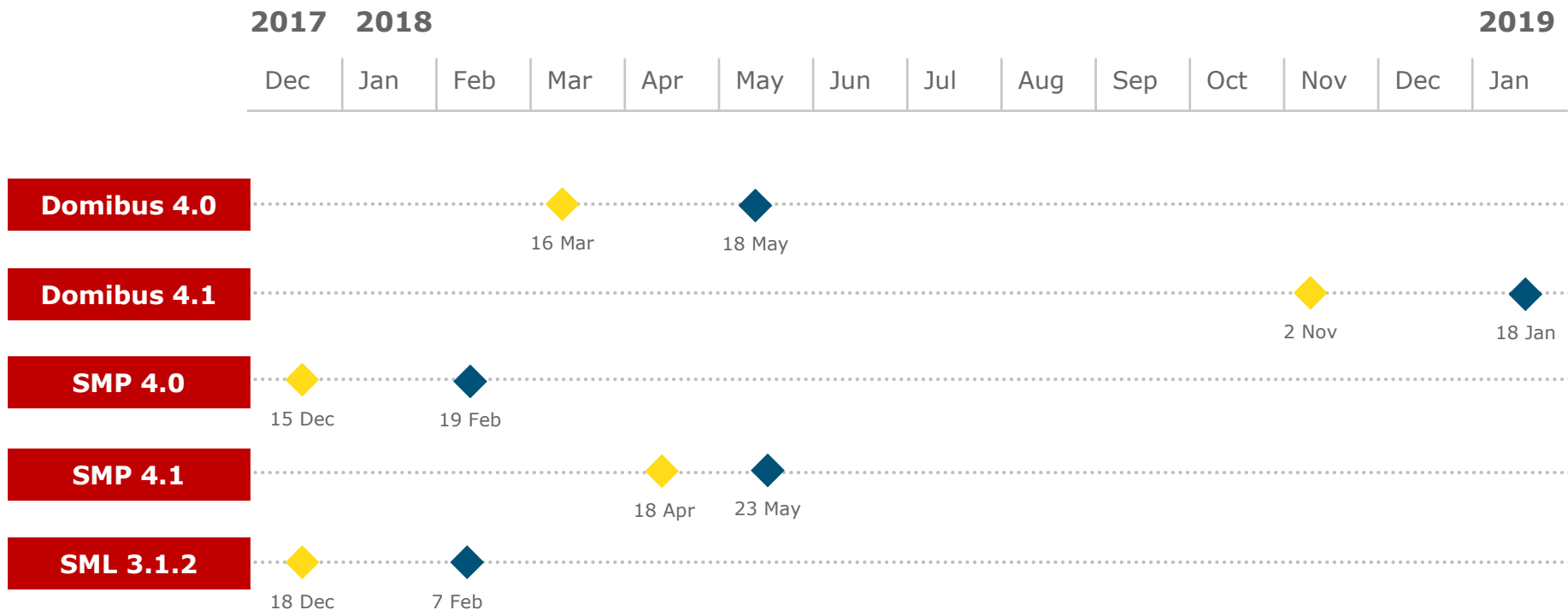
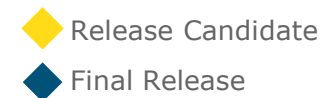
All

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Roadmap for CEF eDelivery 2018

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Roadmap for CEF eDelivery 2018



DOMIBUS 4.0



New Features

Release Candidate:

16 March 2018

Final Release:

18 May 2018

Development work Features	Version
Java 8 supported (no longer compatible with Java 7)	4.0
Advanced features for the Admin console: <ul style="list-style-type: none">• New feature to ping remote access points• Keep this history off all the PMode changes• Management of certificates through the administration console• New feature to download the messages• Configurable alerts and notifications• New feature to export metadata as CSV files	4.0
Support multiple domains (multi-tenancy)	4.0
Support for wildfly 10	4.0
Maintenance of Domibus 3.2	3.2
Maintenance of Domibus 3.3	3.3
Audit trail	4.0
Security certificates validity expiration warnings included in the logs	4.0
Update of the old webservices plugin Unique particle attribution principle	4.0
Improve the decoupling of the Domibus core from the plugin implementations	4.0
Possibility for the plugins to retrieve the User Message using Java and REST API via the Dombius ext-api	4.0
LDAP support for CRL	4.0

DOMIBUS 4.1



New Features

Release Candidate:

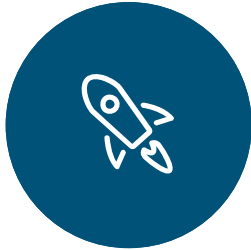
2 November 2018

Final Release:

18 January 2019

Development work Features	Version
Improve Pmode configuration tool with a scalable solution	4.1
Change the log configuration at runtime	4.1
Harmonise the web context across servers (domibus, domibus-weblogic, domibus-wildfly)	4.1
Improve error handling (make error messages more clear)	4.1
Configuration of the standalone WildFly server using the WildFly configuration scripting language instead of XML manipulation	4.1
Maintenance of Domibus 3.3	3.3
Maintenance of Domibus 4.0	4.0
eSignature integration	4.1

SMP 4.0



New Features

Release Candidate:

15 December 2017

Final Release:

19 February 2018

Development work | Features

Refactoring

Maintenance of SMP 3.x

Java 8 support

Implement changes requested from the SMP code review and security assessment

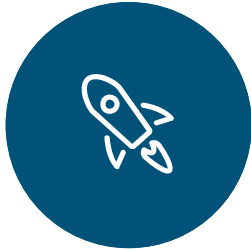
Multitenancy

Documentation

SAD (Software Architecture Document)

COD (Component Offering Description)

SMP 4.1



New Features

Release Candidate:

18 April 2018

Final Release:

23 May 2018

Development work | Features

Admin Console

Improve audit logs to comply with the EU File Exchange service monitoring tool

(if required) Comply to TOOP RfC - Dynamic Discovery based on document required

HTTPS used for all internal traffic in EC network

SML 3.1.2



New Features

Acceptance Release:

18 December 2017

Production Release:

7 February 2018

Development work | Features

Implement comments from the SML code review and security assessment

Implement TOOP RfC - available in ACC only

Bug: handling special characters in certificates

Java 8 support

Public consultation on the 2018 eDelivery roadmap

Status	OPEN
Consulted Expert Group / Stakeholder	eDelivery community
Outcome	Validation of the eDelivery Roadmap
Launch date	1 December 2017
Due date	15 December 2017

Go to CEF Digital to provide your comments on the roadmap
<https://ec.europa.eu/cefdigital/wiki/x/lqRUAw>

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Modularisation of AS4

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Rationale for modularisation

Isolate a stable, common reusable core

- Achieves synergies of collaboration with other domains, in particular ENTSG
- Suffices for many types of eDelivery applications
- Improves business case for vendors, increases choice for users

Provide optional add-ons

- Special features addressing more specialised domain requirements
- Potential innovations

New Modular Structure

1. Re-organise current AS4 profile in three modules:

e-SENS Common
Profile

4-Corner Topology
Module

SBDH Module

2. Add modules from e-SENS AS4-SMP sub-profile:

Dynamic Receiver

Dynamic Sender

Indicative timeline

2017

Q3

Consultation

- Public review of analysis document by stakeholders
- Launch preparation of new draft version of specifications

Q4

Internal review

- Complete new draft version

2018

Q1

Public review

- Release draft version for stakeholders' public review
- Update Test Assertions and Tests
- Inventory and selection of potential enhancements

Q2

Publication

- Approval and publication of modularised profile
- Roll-out of update conformance service
- Initiate next steps for enhancements


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CEF eDelivery Service Offering

Adrien Ferial – DIGIT

CEF eDelivery Service offering



-  Available
-  Coming soon



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 >](#)

Operations services

Managed services

OBJECTIVE OF THE SERVICE

Sample software centrally hosted and managed by the EC, based on sample implementations that are based on technical specifications of CEF eDelivery.

The European Commission develops, maintains and provides software as a service for the following components of a CEF eDelivery solution:

- Public Key Infrastructure (PKI)
- Service Metadata Locator (SML)

These services facilitate the re-use of CEF eDelivery by different Policy Domains.

BENEFITS

- Reduced cost of hosting the service, which is sustained by the European Commission
- Full support by the European Commission
- Defined and agreed Service Levels



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Connectivity testing

OBJECTIVE OF THE SERVICE

Test if a newly installed AS4 Access Point, conformant with the CEF eDelivery specifications, can successfully communicate with the sample AS4 Access Point hosted by the European Commission. If successful, these tests confirm that the new Access Point is in all likelihood correctly deployed and configured.

The CEF Support Team facilitates the Connectivity Testing by making available a sample AS4 Access Point in a cloud environment, as well as providing guidelines and support during the testing process.

BENEFITS

- Confirm that newly deployed AS4 Access Points can successfully communicate with a neutral organization i.e. the sample Access Point of the European Commission;
- Testing anywhere at anytime
- Testing supported by professional staff of the European Commission



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Conformance testing

OBJECTIVE OF THE SERVICE

Verify that an implementation of the CEF eDelivery Access Point and SMP specifications, a software package either commercial or Open Source, conforms to the specifications of the CEF eDelivery Access Point.

The following specifications are tested within the scope of this service:

- e-SENS AS4 Profile
- e-SENS SMP Profile

The CEF eDelivery Team provides ready to use test cases, a testing platform, and supports the users of the CEF eDelivery Conformance Testing service during the entire testing process.

BENEFITS

- Confirm and assure your users/customers that your software package or implementation of the CEF eDelivery Access Point conforms to the CEF eDelivery specifications
- Testing anywhere at anytime
- Testing supported by professional staff of the European Commission



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e-SENS AS4 conformant solutions

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

- Header: CEF Digital Connecting Europe, search bar, MENU, COMMUNITY
- Breadcrumbs: CEF Digital Home > eDelivery > All CEF eDelivery services > Access Point software
- 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:
- List of solutions:
 - Axway
 - Domibus (EC sample implementation)
 - EESSI AS4.NET
 - Flame
 - Holodeck
 - IBM
 - iFenix
 - Laurentius
 - Mendelson
 - RSSBus
 - ADES
 - eefacta Server
 - Integration Cloud
- Text: 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.
- Footer: Also on CEF Digital
 - What is eDelivery?
 - How does eDelivery work?
 - Enable eDelivery in your domain
 - Apply for eDelivery grants
 - Contact support

Axway B2Bi
View latest release
Download test report (zip)
info@axway.com
CONFORMANT

Domibus
View latest release
Download test report (zip)
CEF-EDELIVERY-SUPPORT@ec.europa.eu
CONFORMANT

More information on CEF Digital

[Conformant Solutions >](#)

DOMIBUS	
FLAME	
HOLODECK	
IBM	
LAURENTIUS	
MENDELSON	
RSSBus	
iFenix	
Axway	
EESSI AS4.NET	
ADES	
Integration cloud	
eefacta Server	

Conformant
 Ongoing

Software

Sample software maintained by the EC

OBJECTIVE OF THE SERVICE

Standard software implementations of the technical specifications of CEF eDelivery. The European Commission maintains and develops sample software that is openly available to be re-used. The following components of a CEF eDelivery solution are provided:

- Access Point
- Service Metadata Publisher (SMP)
- Service Metadata Locator (SML)

Through the "Operational Management Board", CEF eDelivery stakeholders define the evolution of these solutions, by suggesting features that are then developed by the CEF's team.

BENEFITS

- Released under an open source license
- Viable solutions for use in production environment
- Fully supported by the European Commission
- Based on market-driven technical specifications



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Domibus – Access Point

Specifications

- e-SENS AS4 Profile
- OASIS AS4 Profile
- ebMS3 Core

App serves

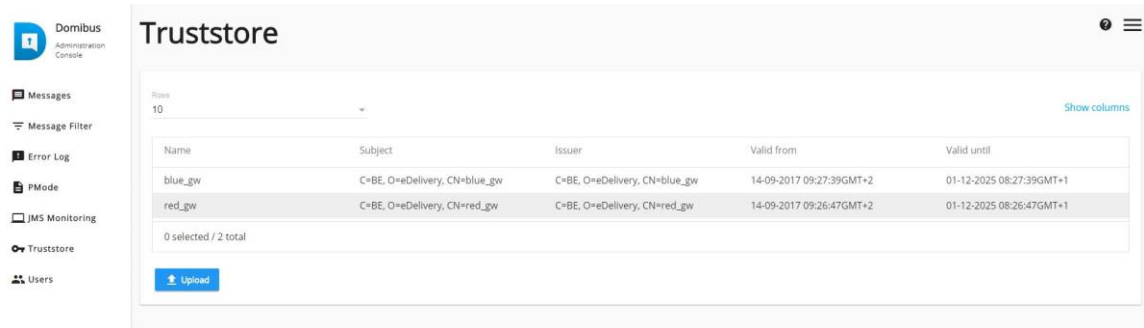
- Tomcat 8, WebLogic 12, Wildly 9

Databases

- MySQL, Oracle

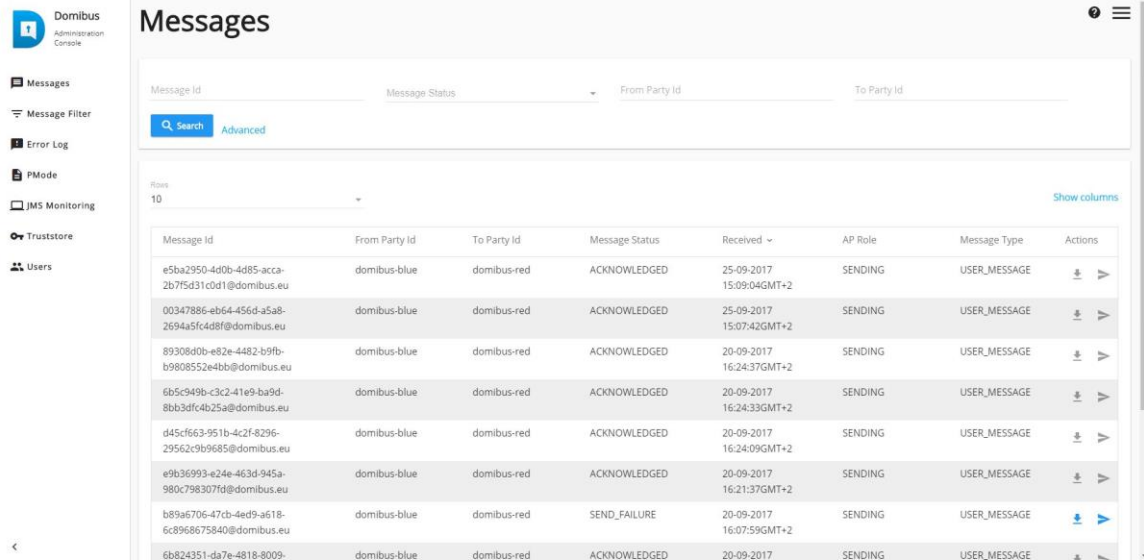
Technologies

- SOAP 1.2 *with attachments*
- Apache CXF
- Apache WSS4J
- GZIP
- WS and JMS plugins



The screenshot shows the 'Truststore' management interface. On the left is a navigation menu with options: Messages, Message Filter, Error Log, PMode, JMS Monitoring, Truststore (selected), and Users. The main area displays a table of truststore entries. At the top, there is a 'Rows' dropdown set to 10 and a 'Show columns' link. The table has columns for Name, Subject, Issuer, Valid from, and Valid until. Two entries are visible: 'blue_gw' and 'red_gw'. Below the table, it shows '0 selected / 2 total' and an 'Upload' button.

Name	Subject	Issuer	Valid from	Valid until
blue_gw	C=BE, O=eDelivery, CN=blue_gw	C=BE, O=eDelivery, CN=blue_gw	14-09-2017 09:27:39GMT+2	01-12-2025 08:27:39GMT+1
red_gw	C=BE, O=eDelivery, CN=red_gw	C=BE, O=eDelivery, CN=red_gw	14-09-2017 09:26:47GMT+2	01-12-2025 08:26:47GMT+1



The screenshot shows the 'Messages' management interface. On the left is a navigation menu with options: Messages (selected), Message Filter, Error Log, PMode, JMS Monitoring, Truststore, and Users. The main area displays a table of messages. At the top, there are filters for Message Id, Message Status, From Party Id, and To Party Id, along with a 'Search' button and an 'Advanced' link. Below the filters, there is a 'Rows' dropdown set to 10 and a 'Show columns' link. The table has columns for Message Id, From Party Id, To Party Id, Message Status, Received, AP Role, Message Type, and Actions. Multiple entries are visible, showing various message statuses like ACKNOWLEDGED, SENDING, and SEND_FAILURE.

Message Id	From Party Id	To Party Id	Message Status	Received	AP Role	Message Type	Actions
e5ba2950-4d0b-4d85-acc4-2b7f5d31cd1@domibus.eu	domibus-blue	domibus-red	ACKNOWLEDGED	25-09-2017 15:09:04GMT+2	SENDING	USER_MESSAGE	⬆️ ⬇️ ⬆️
00347886-eb64-456d-a5a8-2694a5fc4d8f@domibus.eu	domibus-blue	domibus-red	ACKNOWLEDGED	25-09-2017 15:07:42GMT+2	SENDING	USER_MESSAGE	⬆️ ⬇️ ⬆️
89308d0b-e82e-4482-b9fb-b9608552e4bb@domibus.eu	domibus-blue	domibus-red	ACKNOWLEDGED	20-09-2017 16:24:37GMT+2	SENDING	USER_MESSAGE	⬆️ ⬇️ ⬆️
6b5c949b-c3c2-41e9-ba9d-8bb3dfc4b25a@domibus.eu	domibus-blue	domibus-red	ACKNOWLEDGED	20-09-2017 16:24:33GMT+2	SENDING	USER_MESSAGE	⬆️ ⬇️ ⬆️
d45c1663-951b-4c2f-8296-29562c9b9685@domibus.eu	domibus-blue	domibus-red	ACKNOWLEDGED	20-09-2017 16:24:09GMT+2	SENDING	USER_MESSAGE	⬆️ ⬇️ ⬆️
e9b36993-e24e-463d-945a-980c798307fd@domibus.eu	domibus-blue	domibus-red	ACKNOWLEDGED	20-09-2017 16:21:37GMT+2	SENDING	USER_MESSAGE	⬆️ ⬇️ ⬆️
b89ae706-47cb-4ed9-a618-6c8968675840@domibus.eu	domibus-blue	domibus-red	SEND_FAILURE	20-09-2017 16:07:59GMT+2	SENDING	USER_MESSAGE	⬆️ ⬇️ ⬆️
6b824351-da7e-4818-8009-	domibus-blue	domibus-red	ACKNOWLEDGED	20-09-2017	SENDING	USER_MESSAGE	⬆️ ⬇️ ⬆️

Operations services

Supporting services

OBJECTIVE OF THE SERVICE

The CEF eDelivery team offers:

- **Service Desk** – a Single Point of Contact (SPOC) to address questions, incidents, requests and changes reported by the Users with regards to the CEF eDelivery service offering.
- **Training and deployment support** - Training sessions about the technical specifications underpinning the components of CEF eDelivery, the services offered by the Commission and its sample implementations, and interactive sessions to support in the deployment of the solution.

BENEFITS

- Day to day monitoring and 24h/7days service to maintain a high-level of availability and capacity of the CEF eDelivery Managed Services
- Proactive incident detection and resolution
- Increased autonomy of the Public Administration in handling and maintaining the CEF eDelivery components



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Onboarding services

OBJECTIVE OF THE SERVICE

CEF offers onboarding services for new projects interested in re-using CEF eDelivery:

- **Self-assessment tool** - a survey that maps the requirements of the users to the CEF eDelivery Service Offering. During the self-assessment, users assign different scores to the relevant requirements of their business system and the eDelivery messaging infrastructure. Based on the answers provided, the tool calculates how CEF eDelivery can help users achieve their goals by indicating which services provided by CEF eDelivery will allow them to meet their specified needs and requirements.
- **Onboarding of new stakeholders** – A direct contact point for all policy domains interested in re-using CEF eDelivery, that will facilitate the understanding, adoption and deployment of the solutions.

BENEFITS

- Business-driven and time-efficient assessment
- Comparability – the self-assessment tool provides a benchmarking with use cases of other projects already re-using CEF eDelivery
- Direct and easy contact with the CEF eDelivery technical teams, through the onboarding services



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Stakeholder management services

Community management

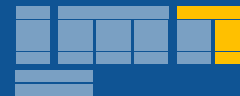
OBJECTIVE OF THE SERVICE

Develop, expand and engage with a community of developers contributing to the evolution of CEF eDelivery's open source sample implementations.

Among the 5 components that the CEF eDelivery team develops, CEF manages an online community of developers interested in contributing to the code of the sample implementations.

BENEFITS

- Cost effective development
- Wide set of skills
- Faster response to emerging requirements



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Want to get started?



eDelivery
Connecting Europe

<https://ec.europa.eu/cefdigital/wiki/x/H1IZAg>



FIWARE
Catalogue

<https://catalogue.fiware.org/enablers/>



FIWARE
Lab

<https://www.fiware.org/lab/>



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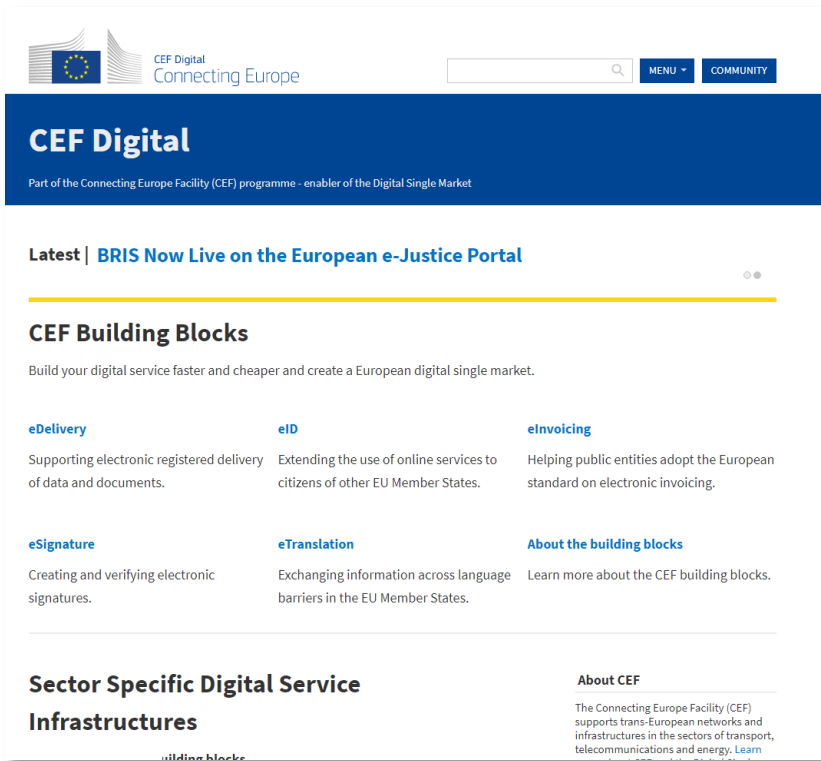


Q&A

All

Find out more on CEF Digital

ec.europa.eu/cefdigital



The screenshot shows the CEF Digital website homepage. At the top left is the logo for CEF Digital, featuring the European Union flag and the text "CEF Digital Connecting Europe". To the right of the logo is a search bar and two buttons labeled "MENU" and "COMMUNITY". Below the logo is a dark blue header with the text "CEF Digital" and "Part of the Connecting Europe Facility (CEF) programme - enabler of the Digital Single Market". The main content area has a "Latest" section with the headline "BRIS Now Live on the European e-Justice Portal". Below this is a section titled "CEF Building Blocks" with the subtext "Build your digital service faster and cheaper and create a European digital single market." This section contains three columns of information: "eDelivery" (Supporting electronic registered delivery of data and documents), "eID" (Extending the use of online services to citizens of other EU Member States), and "eInvoicing" (Helping public entities adopt the European standard on electronic invoicing). Below these are "eSignature" (Creating and verifying electronic signatures), "eTranslation" (Exchanging information across language barriers in the EU Member States), and "About the building blocks" (Link to learn more about the CEF building blocks). At the bottom, there is a "Sector Specific Digital Service Infrastructures" section and an "About CEF" section with the text: "The Connecting Europe Facility (CEF) supports trans-European networks and infrastructures in the sectors of transport, telecommunications and energy. Learn more about CEF.".

#BIG

REUSE

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