



Connecting Europe Facility

eDelivery Demo

26 July 2016

Version Control

Version	Date	Created by	Description
V1.0	November 2016	CEF eDelivery support	Final draft for publication

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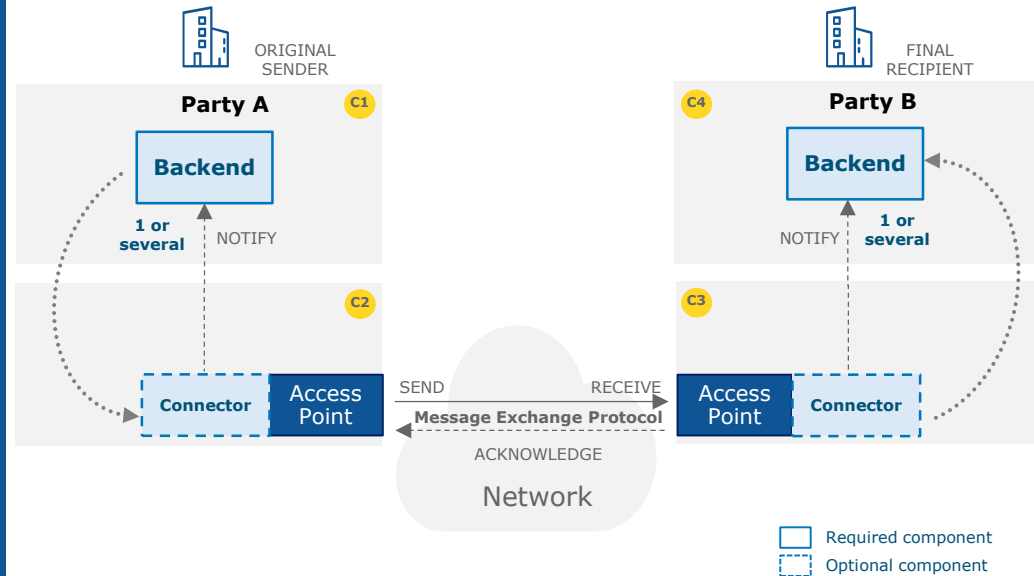
I. What is eDelivery ?

4 Corner model in detail

In the 4 corner model, the backend systems of the users don't exchange data directly with each other but do this through Access Points. These Access Points are conformant to the same technical specifications and therefore capable of communicating with each other.

As a result, users can easily and safely exchange data even if their IT systems were developed independently from each other.

This is also known as the **Mesh network**

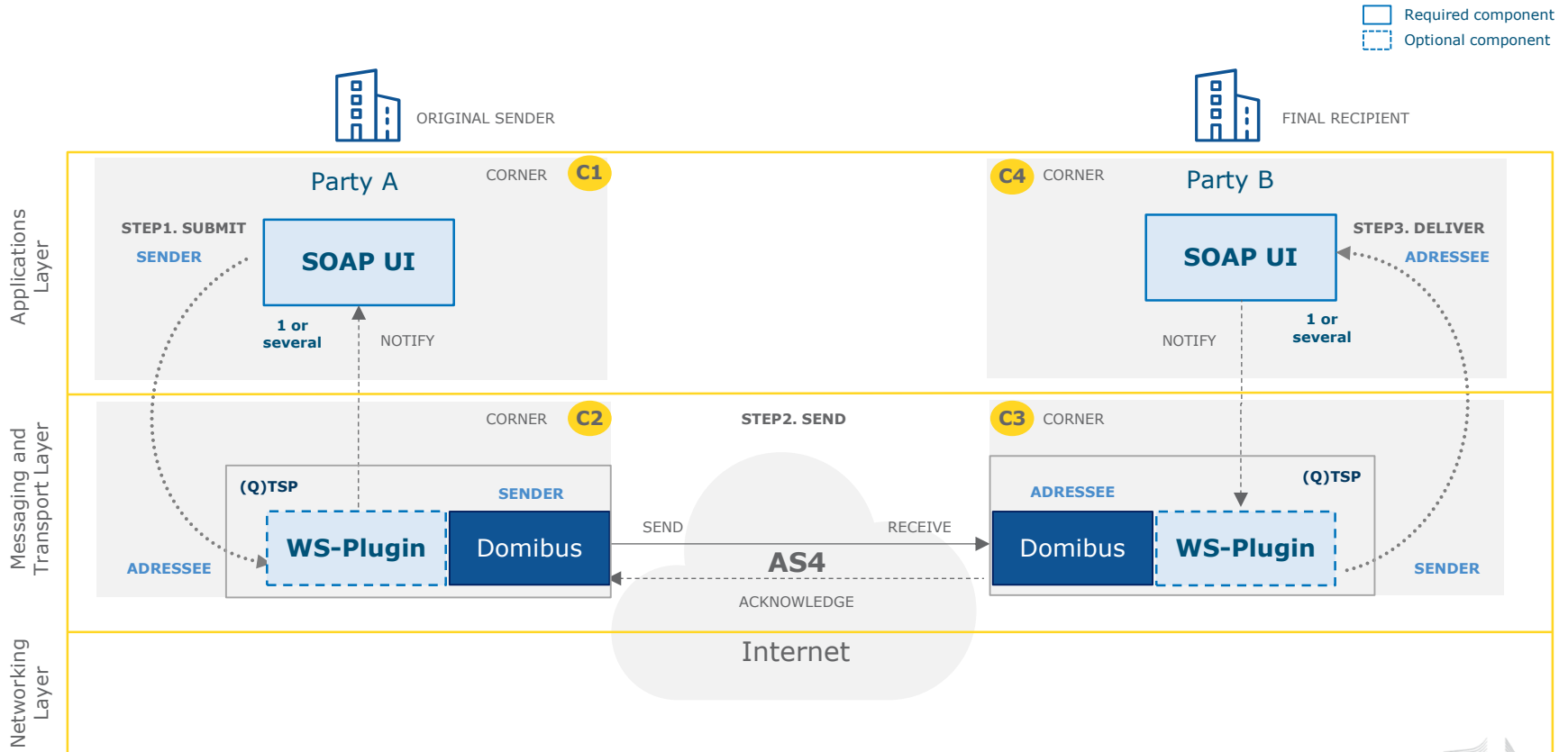


II. Demo scenario

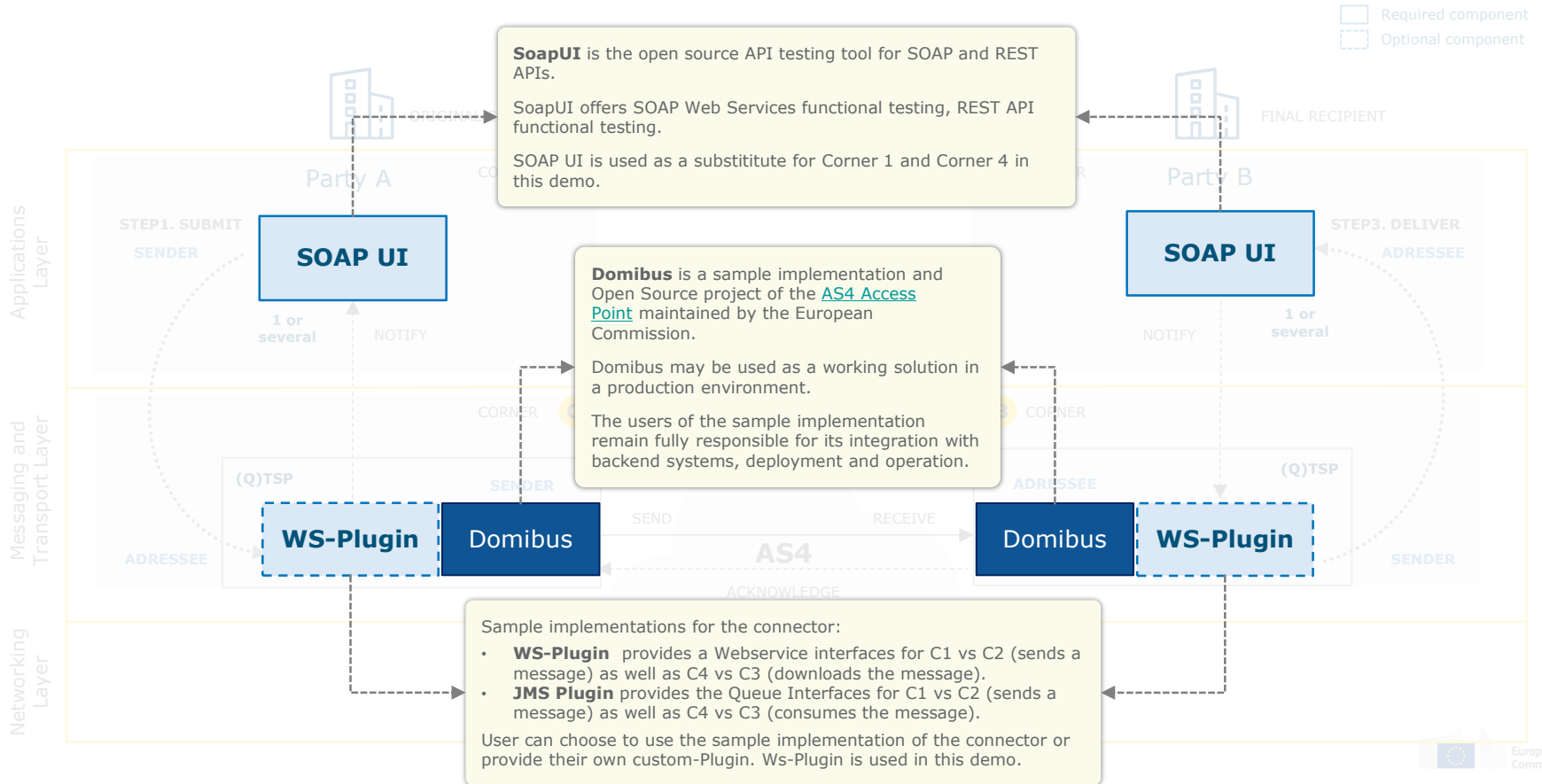
Demo scenario

		Demo scenario
EXCHANGE MODEL	TOPOLOGY	4-corner model
	PROTOCOL	e-SENS AS4 profile
	INTEGRATION APPROACH	WS-Plugin
DISCOVERY MODEL		Static
SECURITY MODEL	TRUST CIRCLE	Mutual trust
	SECURITY CONTROL	Inner security with connector

Demo in detail



Demo scenario



Demo Steps

DEMO TIME

Configuration

- a) PMode File
 - Configure the Endpoint URL for the sending and receiving Access Points
 - Configure the PartyName, PartyID, etc.
 - Upload the Pmode to the Access Points
- b) Security File
 - Configure the location for the Keystore and Truststore
 - Configure the password for Keystore and Truststore.

DEMO TIME

Runtime Scenario

- a) Backend C1 sends the message to Access Point C2
- b) The Message is sent from sender Access Point C2 to receiving Access Point C3
- c) An acknowledgement is sent from C3 to C2
- d) C4 downloads the message from C3
- e) The Download Message response is sent from C3 to C4

III. Configuration

III a. PMode Configuration

PModes

A **PMode** (or Processing Mode) is a collection of parameters that determine how user messages are exchanged between a pair of Access Points that take into account the quality of service, transmission mode and error handling.

PModes identifies the recipient Access Point address from the PartyId.

Configure Parties container

PMode[1].businessProcesses.parties.party: This parameter Contains the name of the partner Access Points and the address (endpoint URL) of the Receiver MSH to which User Messages under this PMode are to be sent.

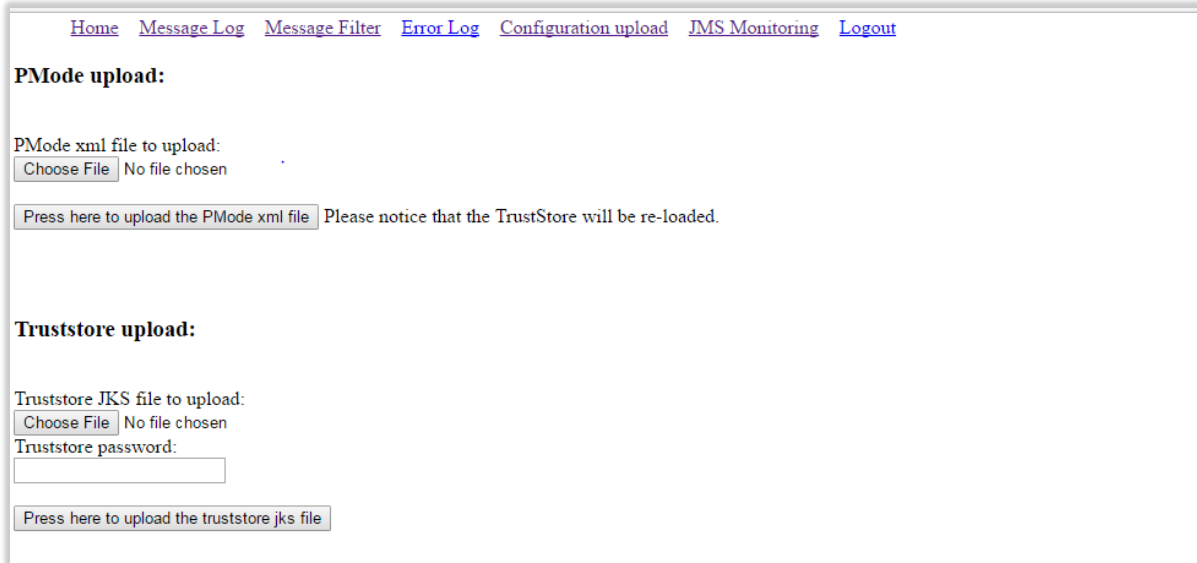
PMode[1].businessProcesses.parties.party.Identifier: This Parameter contains the name of the clients' backend associated to the parent Access Point.

```
<party name="red_gw"
  endpoint="http://40.118.20.112:8080/domibus/services/msh"
  allowChunking="false">
  <identifier partyId="domibus-red" partyIdType="partyTypeUrn"/>
</party>
<party name="blue_gw"
  endpoint="http://localhost:8080/domibus/services/msh"
  allowChunking="false">
  <identifier partyId="domibus-blue" partyIdType="partyTypeUrn"/>
</party>
```

Uploading the PMode to the Access Point's DB (Admin)

- Login to server's administration dashboard
- Browse to the configured PMode file and click Upload.

This will upload the PMode data into the Access Point's DB.



The screenshot shows a web interface for uploading PMode and Truststore files. At the top, there is a navigation menu with links: [Home](#), [Message Log](#), [Message Filter](#), [Error Log](#), [Configuration upload](#), [JMS Monitoring](#), and [Logout](#).

PMode upload:

PMode xml file to upload:
 No file chosen

Please notice that the TrustStore will be re-loaded.

Truststore upload:

Truststore JKS file to upload:
 No file chosen

Truststore password:

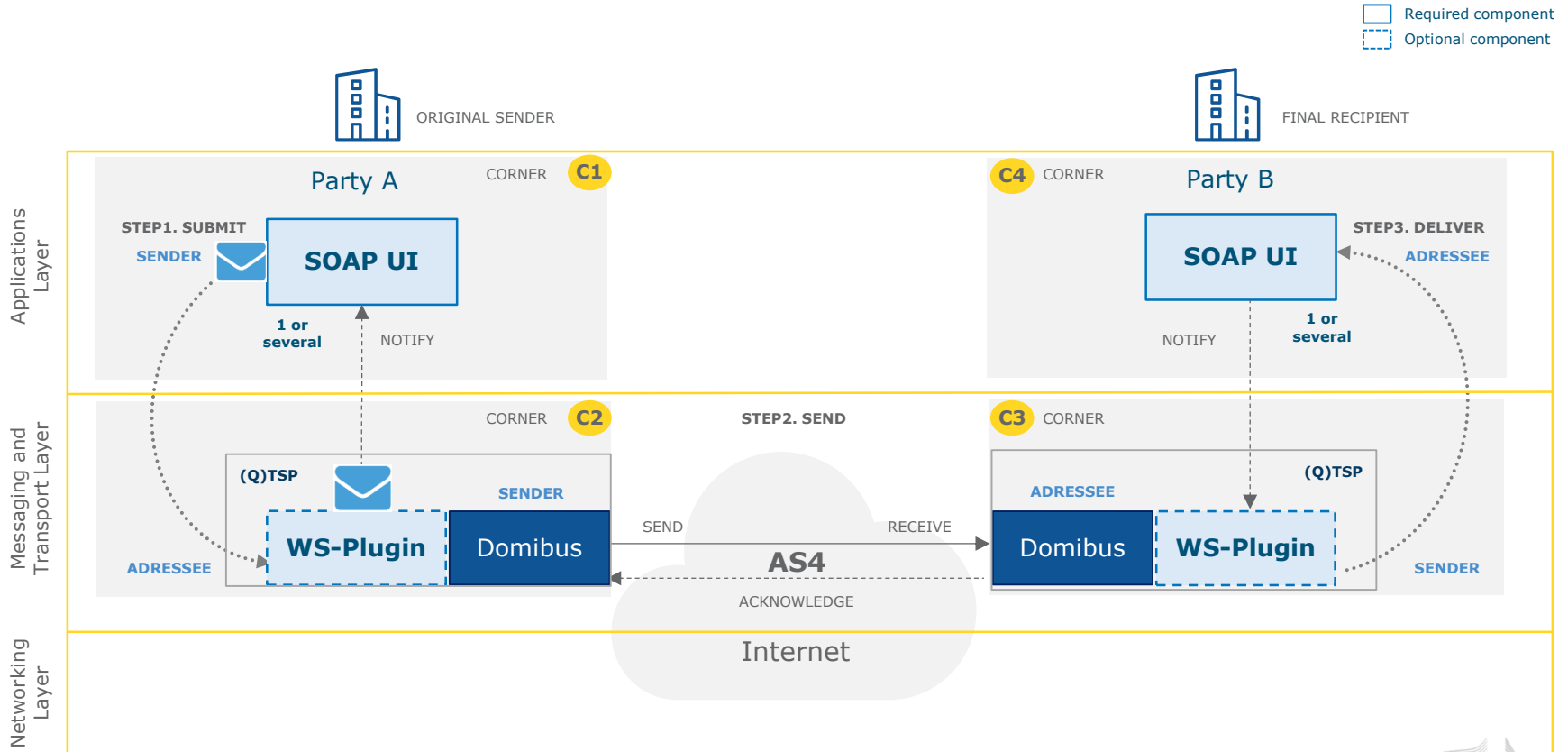
III b. Security File Configuration

Configure Security File details

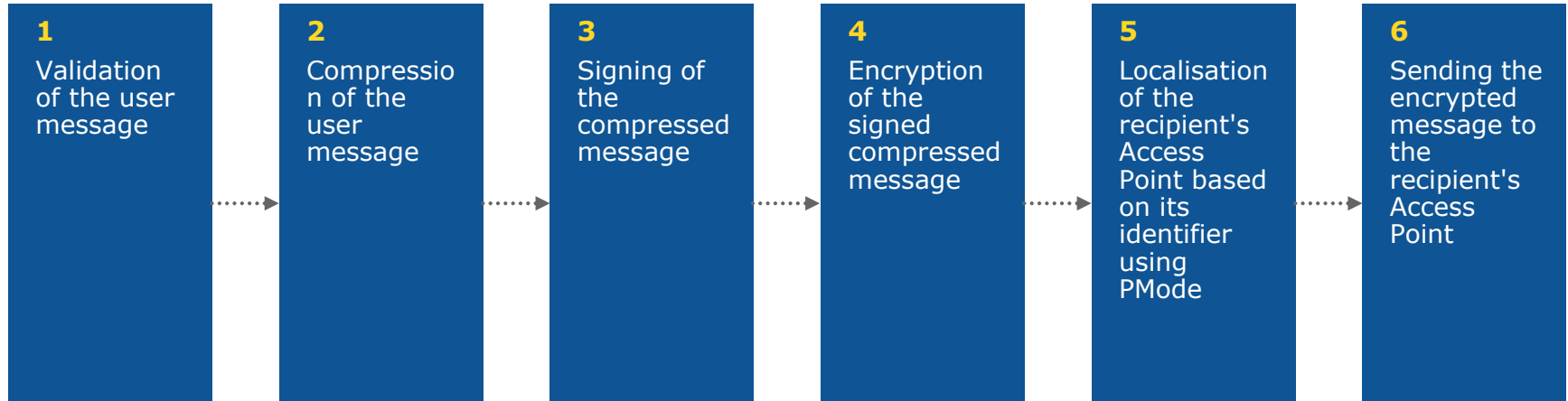
```
<util:properties id="keystoreProperties">
  <!-- The crypto provider to be used -->
  <prop key="org.apache.ws.security.crypto.provider">
    org.apache.wss4j.common.crypto.Merlin
  </prop>
  <!-- Type of the used keystore -->
  <prop key="org.apache.ws.security.crypto.merlin.keystore.type">jks
  </prop>
  <!-- The password used to load the keystore -->
  <prop key="org.apache.ws.security.crypto.merlin.keystore.password">
    test123
  </prop>
  <!-- The keystore alias to use for decryption and signing. -->
  <prop key="org.apache.ws.security.crypto.merlin.keystore.alias">
    blue_gw
  </prop>
  <!-- The location of the keystore -->
  <prop key="org.apache.ws.security.crypto.merlin.file">
    ${domibus.config.location}/keystores/gateway_keystore.jks
  </prop>
</util:properties>
```

IV. Run-time process

Step 1, SUBMIT: C1 sends the message to C2

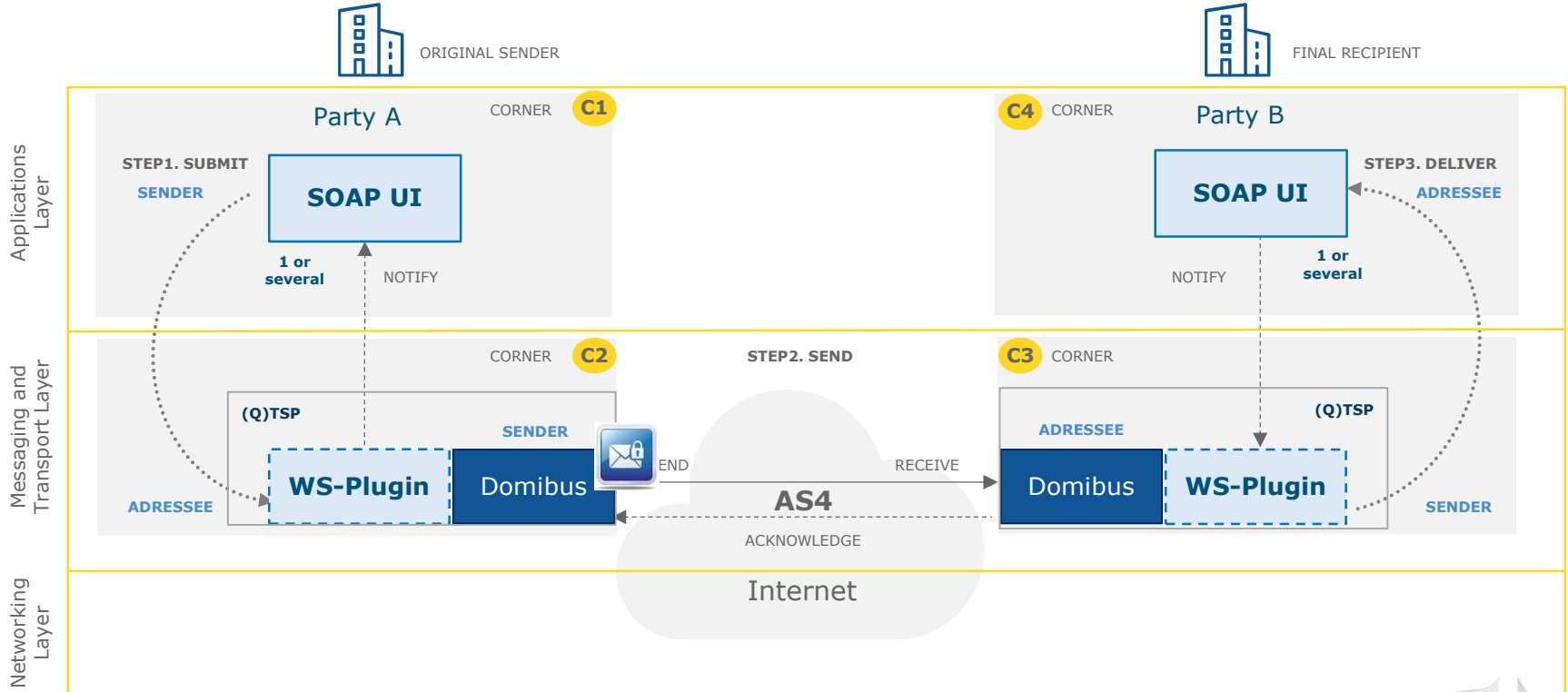


Step 2.a, SEND: Processing at C2.

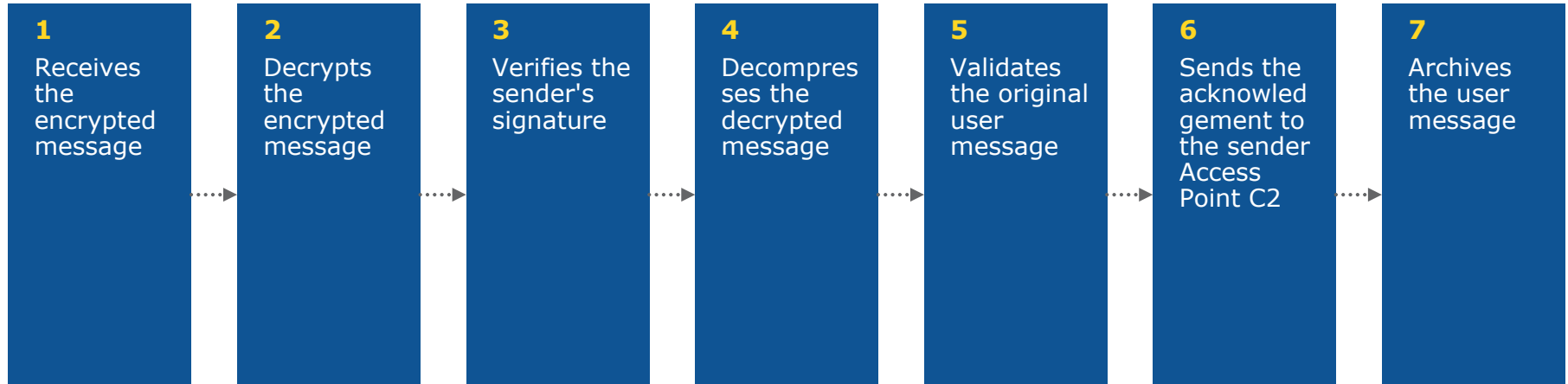


Step 2.b, SEND: Message is sent from C2 to C3



□ Required component
□ Optional component

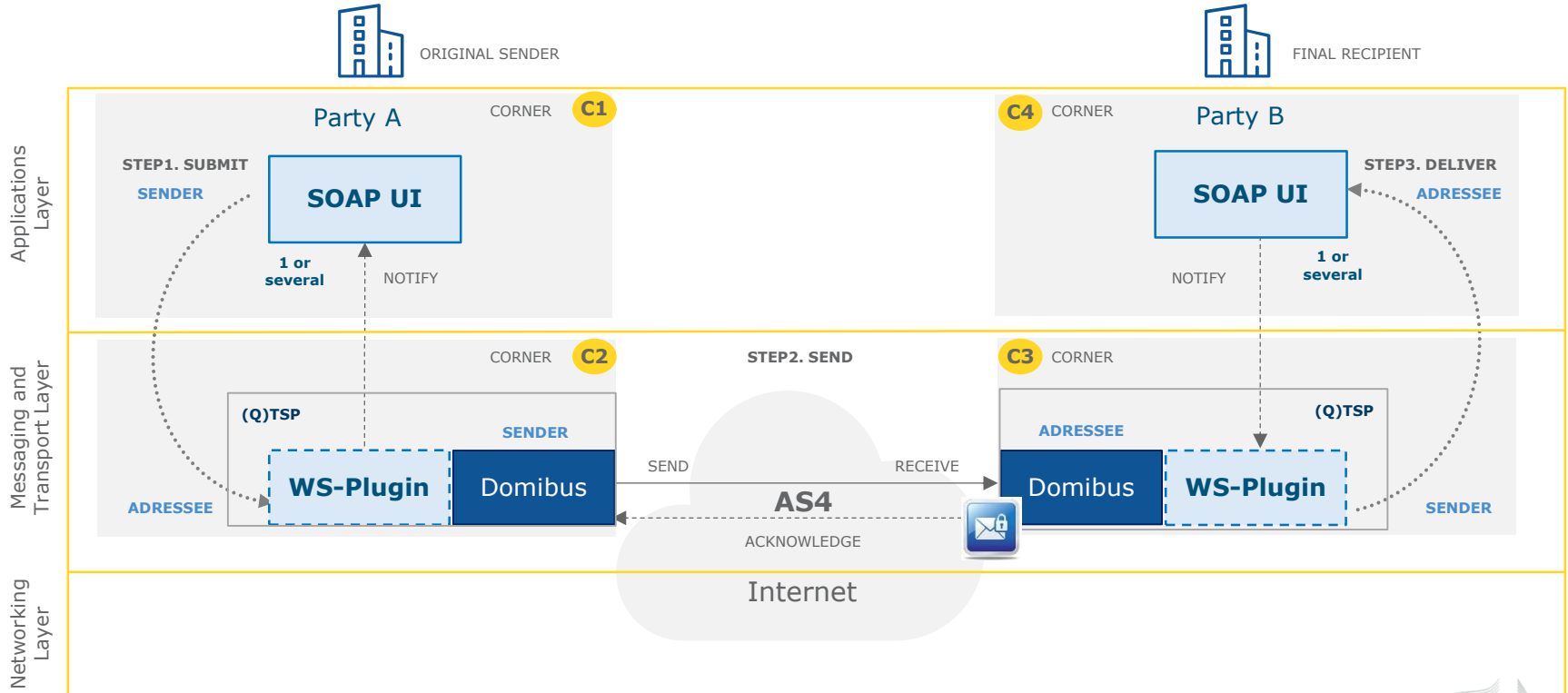


Step 2.c, SEND: Process at C3

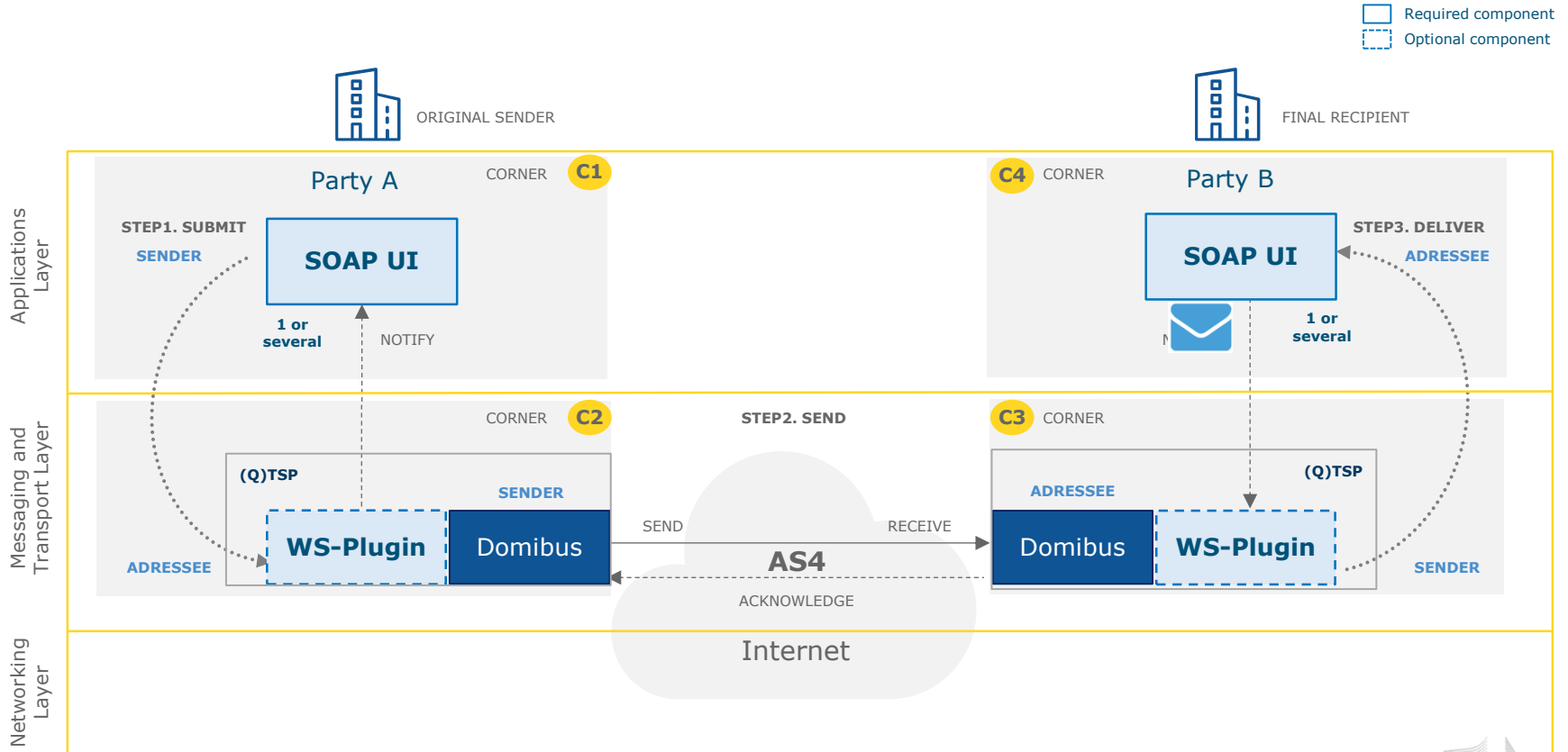


Step 2.d, SEND: Acknowledgement sent from C3 to C2

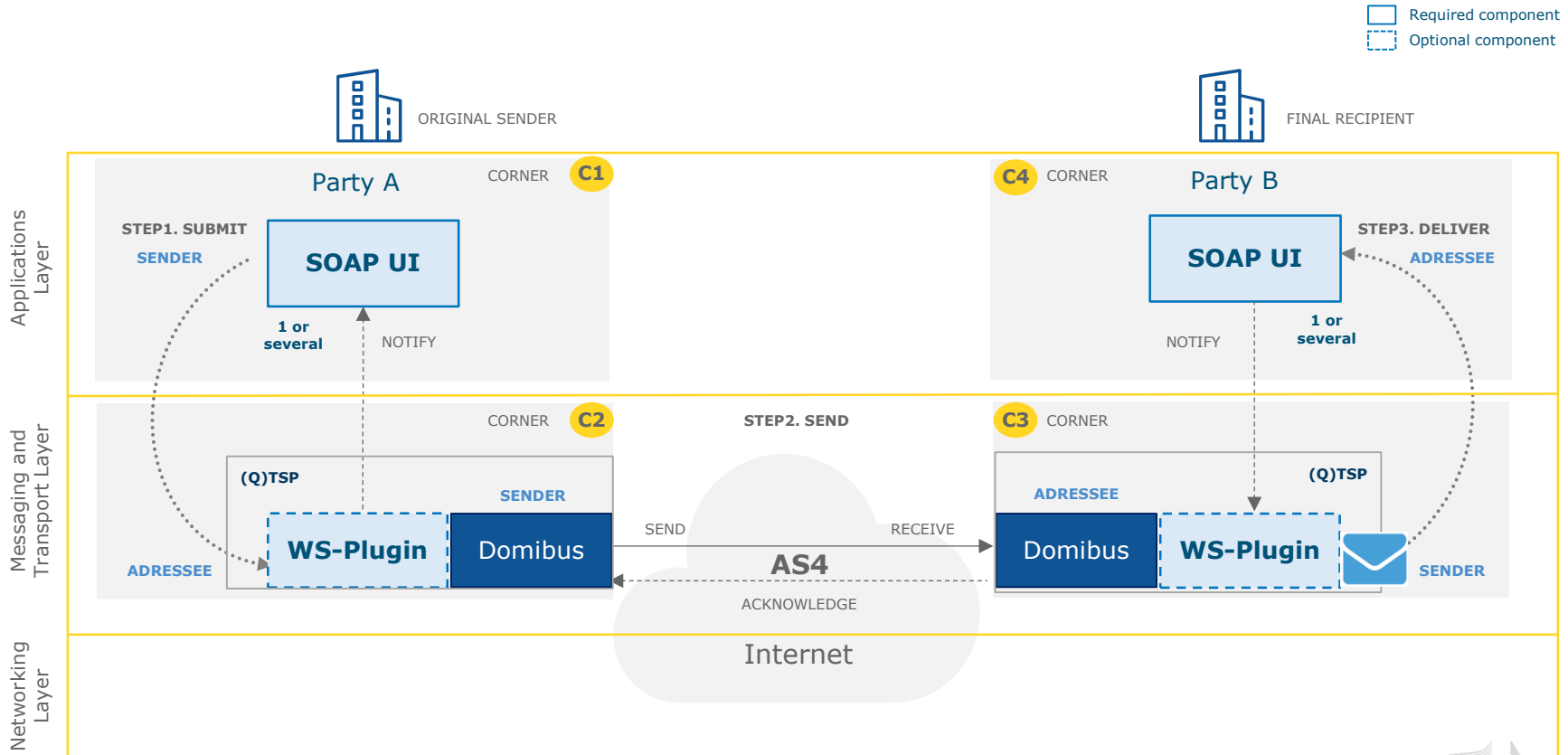
 Required component
 Optional component



Step 3.a, DELIVER: C4 downloads message from C3



Step 3.b, DELIVER: Download Message response from C3 to C4



V. E-SENS AS4 conformant solutions

E-Sens AS4 conformant Solutions

The screenshot displays the CEF Digital website's 'eDelivery' section. The page is titled 'Open source solutions' and lists three vendors: Domibus, Holodeck B2B, and Mendelson. Below this, there is a section for 'Commercial solutions' listing Flame and IBM. The left sidebar contains a navigation menu with categories like TECHNICAL SPECIFICATIONS, SOFTWARE, MANAGED SERVICES, TESTING SERVICES, and SUPPORTING SERVICES. The top of the page features the CEF Digital logo and a search bar.

European Commission > CEF Digital Home > CEF building blocks > eDelivery > eDelivery Services > eDelivery Software > Access Point software

eDelivery

Home Discover How it works **Services** Collaboration

Open source solutions

Domibus [®]
CONFORMANT

Latest release: Download Domibus v3.1.1
Test report: Download (zip)
Contact: CEF-EDELIVERY-SUPPORT@ec.europa.eu

* (EC [sample implementation](#))

Holodeck B2B
CONFORMANT

Latest release: Download Holodeck B2B v2.0
Test report: Download (zip)
Contact: info@holodeck-b2b.org

Mendelson
ONGOING

Latest release: Download Mendelson AS4 2016
Test report: Coming soon
Contact: service@mendelson-e-c.com

Commercial solutions

Flame
CONFORMANT

Latest release: Download FMS Server and Light Client v5.3
Test report: Download (zip)
Contact: info@flamens.com

IBM
ONGOING

Latest release: Download IBM B2B Advanced Communication v1.0.0.5*
Test report: Coming soon
Contact: Your local IBM representative, the [ibm.com website](#), or dhixon@us.ibm.com

* The solution can be downloaded after purchasing a license from the IBM Passport Advantage Online

TECHNICAL SPECIFICATIONS

- Access Point specifications
- Connector specifications
- PKI specifications
- SML specifications
- SMP specifications

SOFTWARE

- Access Point software
 - e-SENS AS4 conformant solution**
- SML software
- SMP software
- Security Controls
- Connector software

MANAGED SERVICES

- PKI Service
- SML service

TESTING SERVICES

- eDelivery Conformance testing
- eDelivery Connectivity testing

SUPPORTING SERVICES

- eDelivery Training and Deployment
- eDelivery Service desk

AS4 conformant vendors on CEF Digital

View

VI. Domibus release

The CEF eDelivery sample implementation

Domibus Release

Home Discover How it works **Resources** Community

Domibus v3.1.1

This page collects the resources for Domibus version 3.1.1, released in June 2016.

Download Domibus v3.1.1

- Download full distribution for Tomcat
- Download full distribution for Wildfly
- Download war for Weblogic

All binaries can be found in the [nexus repository](#).
The source code is available on the [project git repository](#).

Description

Release of Domibus 3.1.1

We are happy to announce the maintenance release of Domibus version 3.1.1. Although this update is not critical, we do recommend the installation of this update.

This release is the result of significant collaboration among different EU policy projects' IT delivery teams and the CEF eDelivery DSI.

Fixes since 3.1.0:

- Fixed retry logic issue
- Set BINARY_DATA type to LONGBLOB on mysql (migration scripts created)
- Fixed the issue with the missing "value" in the <env:Code> when an error response is returned
- Fixed the issue when checking the agreementRef sent in the header's message and the agreement configured in the PMode.
- Documented MySQL tables case sensitivity on Linux

Documentation

[Quick Start Guide \(pdf\)](#)
[License](#)

[Interface Control Document for the Default JMS \(pdf\)](#)
[Interface Control Document of the default WS plugin \(pdf\)](#)
[Administration Guide \(coming soon\)](#)

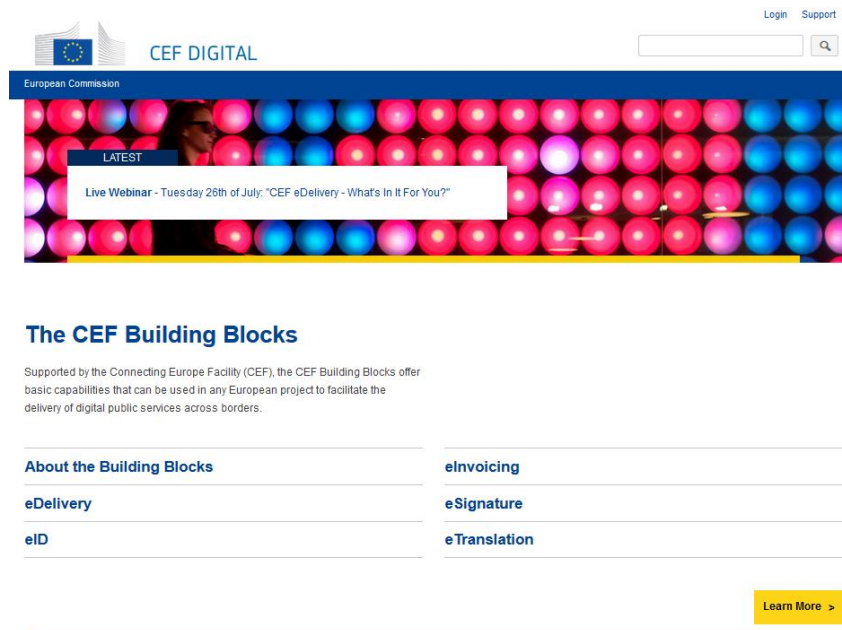
Domibus Releases on CEF Digital

View

Choose your application server

Download the documentation

Find out more on CEF Digital!




The screenshot shows the CEF Digital website interface. At the top left is the European Commission logo and the text 'CEF DIGITAL'. To the right are 'Login' and 'Support' links, and a search bar. Below the header is a banner with a grid of colorful spheres (pink, blue, yellow) and a 'LATEST' section featuring a 'Live Webinar - Tuesday 26th of July: "CEF eDelivery - Whats In It For You?"'. Below the banner is the section 'The CEF Building Blocks' with a descriptive paragraph. Underneath are four horizontal menu items: 'About the Building Blocks', 'eDelivery', 'eID', 'eInvoicing', 'eSignature', and 'eTranslation'. A yellow 'Learn More >' button is positioned at the bottom right of this section.




Collaborative spaces
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