

Welcome to the CEF eDelivery Webinar on Domibus 3.3

Start 10:00 (CET)

Ground Rules for the Live Webinar



Please mute your microphone before the webinar starts



To chat with other participants and submit questions, please use the Chat function to the right of your screen

To connect your audio go to the Quick Start tab and connect your audio (dial-in, dial-out or connect via computer)



CEF eDelivery

Webinar on Domibus 3.3

Adrien Ferial - DIGIT
Cosmin Baciu - DIGIT

Today's speakers

Adrien Ferial

Adrien Ferial is the leader of the technical office of CEF eDelivery which is responsible for the evolutive maintenance of the sample implementations. He joined DIGIT in 2014 as a technical expert and has more than 10 years of experience in IT. Through his professional experience, he participated to multiple projects in software development and system analyses, including managing and implementing large, scalable, distributed systems.

Cosmin Baci

Cosmin Baci is the technical leader of Domibus. He is an experienced Technical Expert/Java Architect with more than 10 years of experience actively involved in software requirement analysis, design and development phases of every project ensuring that the development adheres to the required standards. He has a strong educational background and he is passionate about architecture and Java related technologies.

Agenda

- | | | |
|---|--|-----|
| 1 | Introduction to CEF eDelivery
Adrien Ferial – DIGIT | 10' |
| 2 | Domibus 3.3

New features, improvements & fixed bugs
Upgrading to Domibus 3.3 step by step
Cosmin Baciu – DIGIT | 55' |
| 3 | Q&A
All | 25' |

1

Introduction to CEF eDelivery

Adrien Ferial – DIGIT

CEF eDelivery specifications

•The approach employed by eDelivery is to promote the use of existing technical specifications and standards rather than to define new ones.

•The profiling work of e-SENS and PEPPOL on these standards, i.e. constraining configuration choices, is equally taken on board. Even though eDelivery makes software available implementing these specifications, the use of commercial software or other Open Source software projects is also possible.

COMPONENT

Access Point

Digital Certificates

Connector

Service Metadata Locator (SML)

Service Metadata Publisher (SMP)

KEY SPECIFICATIONS

- e-SENS AS4 profile of the ebMS3/AS4 OASIS Standards
- PEPPOL AS2 profile of AS2 and SBDH (for the eProcurement only)

- ETSI – Electronic Signatures and Infrastructures profile

- ETSI REM for evidences

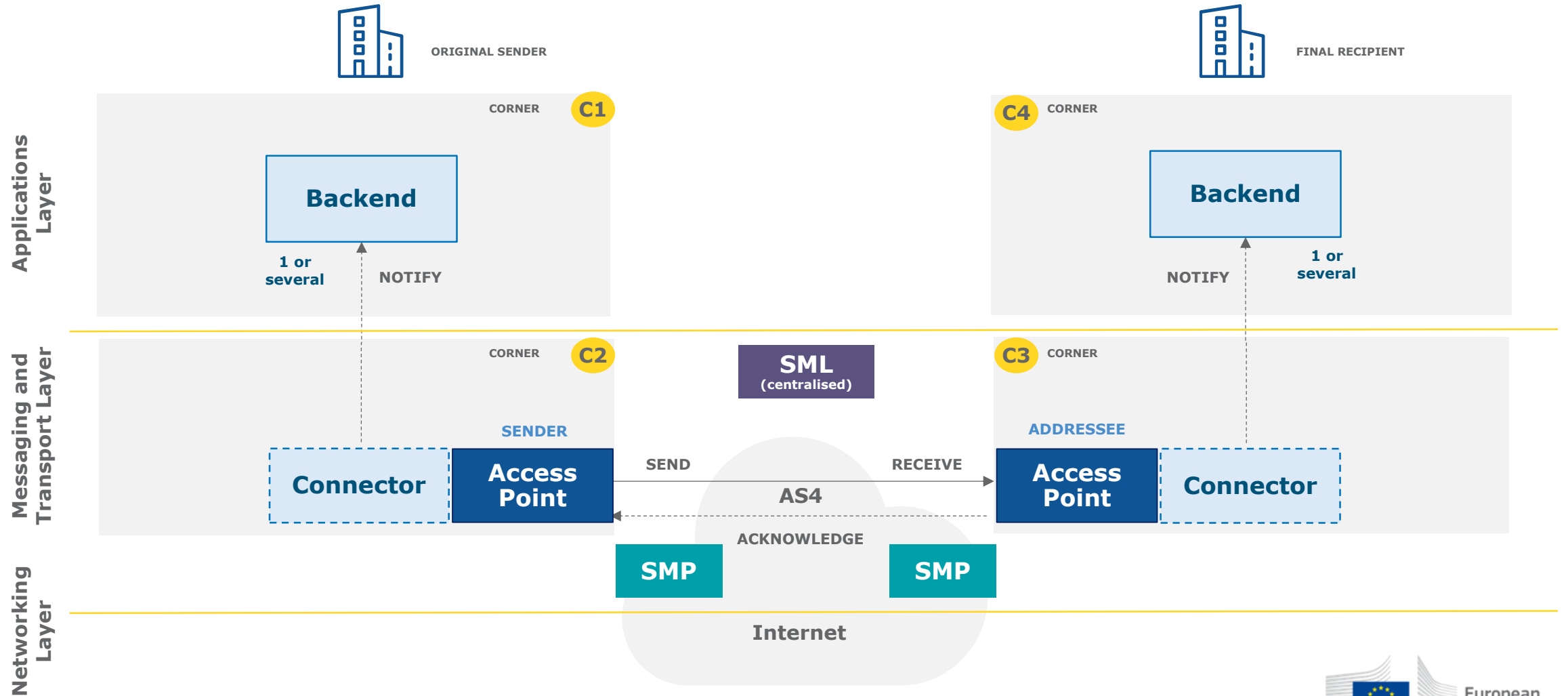
- e-SENS Profile based on the OASIS BDXL Specification
- e-SENS ebCore Party ID Profile

- e-SENS Profile based on the OASIS BDX-SMP Specification

eDelivery Messaging Infrastructure based on the 4-Corner Model

Dynamic discovery

Required component
 Optional component



CEF eDelivery Service offering



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.

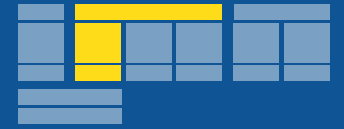
The European Commission develops, maintains and provides software as a service for the following components of a CEF eDelivery solution:

- 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



[Back to Service offering >](#)

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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 a navigation menu and a sidebar. The main content area is titled "e-SENS AS4 conformant solutions" and lists three vendors: Domibus, Flame, and Holodeck. Each vendor entry includes a logo, a "CONFORMANT" badge, and links for the latest release, test report, and contact information.

Vendor	Status	Latest release	Test report	Contact
Domibus *	CONFORMANT	Download Domibus v3.1.1	Download (zip)	CEF-EDELIVERY-SUPPORT@ec.europa.eu
Flame	CONFORMANT	Download FMS Server and Light Client v5.3	Download (zip)	info@flamems.com
Holodeck B2B	CONFORMANT	Download Holodeck B2B v2.0	Download (zip)	info@holodeck-b2b.org

More information on CEF Digital

[Conformant Solutions >](#)

DOMIBUS



FLAME



HOLODECK



IBM



LAURENTIUS



MENDELSON



RSSBus



ADES



Integration cloud



iFenix



Conformant

Ongoing

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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Supporting services

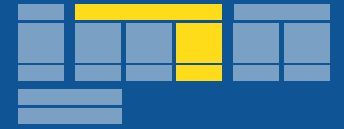
OBJECTIVE OF THE SERVICE

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

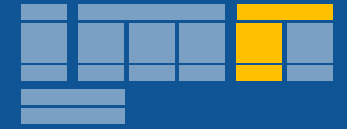
OBJECTIVE OF THE SERVICE

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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Developers

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Domibus 3.3

Cosmin Baciuc – DIGIT

Content



Domibus 3.3

1 New features, improvements & fixed bugs



2 Upgrading to Domibus 3.3 step by step





New features, improvements &
fixed bugs

New features & improvements



- New Administration console
- New Domibus plugin: File System Plugin
- Handling of messages of up to 2GB
- Improved performance
- Simplified configuration using a single property file
- Support for PULL
- Improved logging
- New API for message monitoring
- New API to log the acknowledgements from C3 to C4
- Configurable HTTP chunking between C2 and C3
- Custom truststore for SSL communication
- Possibility to notify the plugins each time the message status changes
- Possibility to resend failed messages
- Possibility to download the Pmode configuration file



LIVE DEMO

New Administration console



New features & improvements

New Domibus plugin: File System Plugin

- It provides a file system interface for Domibus
- The FS Plugin uses a main location comprised of four folders acting as an interface for the backend:

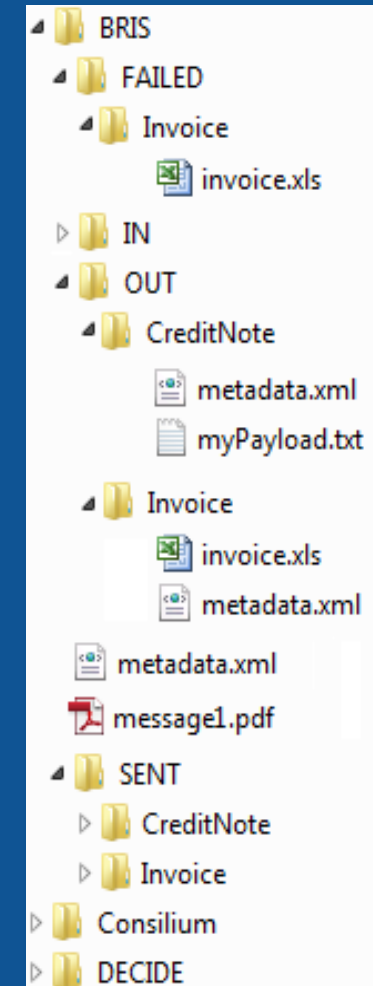
OUT – Contains the messages that need to be sent to Domibus(C2)

IN – Contains the received messages

SENT – Contains the messages sent successfully to Domibus(C2)

FAILED – Contains the messages that failed to be sent to Domibus(C2)

- The FS Plugin supports the configuration of multiple domains, each domain location has the same structure as the main location described above
- The file **metadata.xml** contains the template of the AS4 metadata that will be used by the FS Plugin together with the file being sent to create the **User Message** that will be sent to Domibus





New features & improvements

Handling of messages of up to 2GB

- Supports transfers between Access Points of files up to 2 GB using Java 8
- Using Java 7 the limitation is 1 GB due to a limitation in Java 7 version
- HTTP chunking is activated by default for large files optimization
- A threshold(default 100MB) is used to activate the chunking, this is to optimize the performance for sending small files

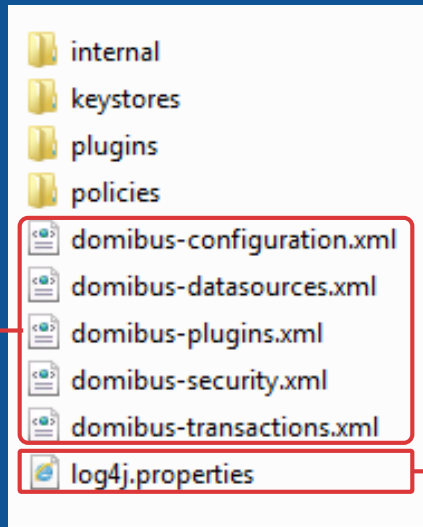


New features & improvements

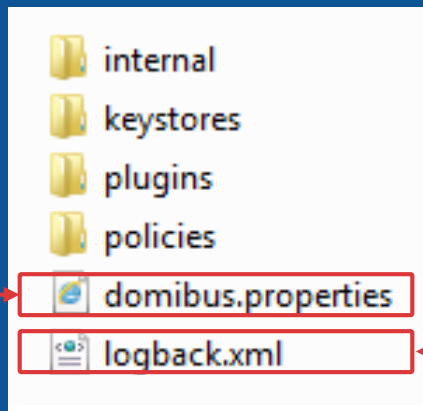
Simplified configuration using a single property file

- No more Spring xml files in the domibus.config.location directory
- Only one configuration file is used domibus.properties
- All the properties present in the old Spring XML files have been migrated in the domibus.properties

Domibus 3.2.x



Domibus 3.3

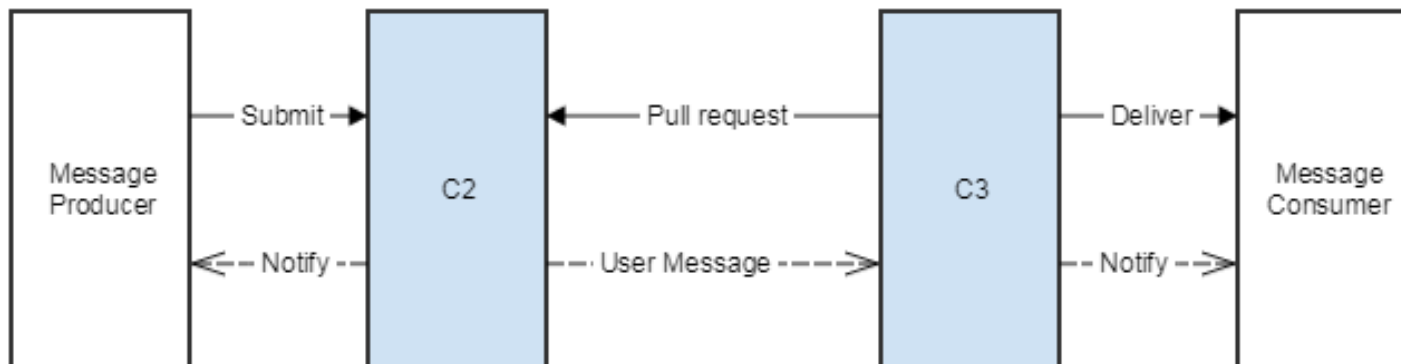




New features & improvements

Support for PULL

- C1 submit the message to C2
- C2 just stores the message and waits for pull requests
- C3 sends a pull request to C2 in order to retrieve the message





New features & improvements

Improved logging

- The logging framework has been migrated from **Log4j** to the more performant **Logback** framework
- **log4j.properties** file has been replaced by **logback.xml**
- 2 new log files have been created:
 - **business.log** - contains all the business related information
Eg: MSHWebservice:181 - [BUSINESS - BUS-001] Message successfully received
 - **security.log** - contains all the security related information
Eg: MessageSender:149 - [SECURITY - SEC-012] X509Certificate invalid or not found



New features & improvements

New API for message monitoring

- Accessible via the Java API and REST
- Gives the possibility to:
 - get the messages that failed to be sent(having the status SEND_FAILURE)
 - resend a failed message with status SEND_FAILURE
 - know how long a message has been in a failed status
 - get a history of delivery attempts



New features & improvements

New API to log the acknowledgements from C3 to C4

- Accessible via the Java API and REST
- Used to acknowledge when a message is:
 - a) delivered from C3 to the backend
 - b) processed by the backend
- Typical use cases:
 - a) a message is received by C3 from C2: the plugin that handles the message registers an acknowledgment before delivering the message to the backend
 - b) a message is processed by the backend and it informs C3 via the plugin; the plugin registers an acknowledgment that the message has been processed by the backend



New features & improvements

Custom truststore for SSL communication

- The truststore used for establishing the TLS connection can be configured in Domibus using the **clientauthentication.xml** configuration file
- One way/Two way SSL are supported

```
<http-conf:tlsClientParameters disableCNCheck="false" secureSocketProtocol="TLSv1.2" xmlns:http-conf="http://cxf.apache.org/transport/http" >
  <security:trustManagers>
    <security:keyStore type="JKS" password="test123" file="${domibus.config.location}/keystores/trustore_ssl.jks"/>
  </security:trustManagers>
  <security:keyManagers keyPassword="1234">
    <security:keyStore type="JKS" password="123456" file="${domibus.config.location}/keystore_ssl.jks"/>
  </security:keyManagers>
  <security:cipherSuitesFilter>
    <security:include>.*_EXPORT_.*</security:include>
    <security:include>.*_EXPORT1024_.*</security:include>
    <security:include>.*_WITH_DES_.*</security:include>
    <security:include>.*_WITH_AES_.*</security:include>
    <security:include>.*_WITH_NULL_.*</security:include>
    <security:exclude>.*_DH_anon_.*</security:exclude>
  </security:cipherSuitesFilter>
</http-conf:tlsClientParameters>
```



New features & improvements

Possibility to resend failed messages

- Domibus provides the ability to resend a failed message (status SEND_FAILURE)
- This can be done in the **Messages** screen and only if the payload of the message has not been yet deleted

Fixed bugs

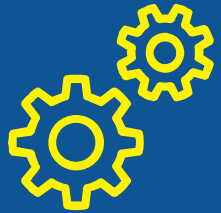
- RedeliveryPolicy is not taken into account in ActiveMQ
- Restart is required after a truststore update
- Domibus checks by default the validity of the sender and the receiver certificates before sending the message
- Dynamic discovery in a mixed configuration
- Messages page: the value for the "Next Attempt" column was not cleared after the message status changed to acknowledged/failed
- Receiving an incomplete message triggers NPE
- WebLogic: **listPendingMessages** does not return the entire list of pending messages in a cluster Weblogic environment
- WebLogic(cluster): the total number of messages in the queue is not displayed correctly



Known issues & limitations

- The Admin Console cannot be used in IE (not EDGE)
- LDAP CRLs are not supported
- Default WS Plugin: domibus-backend.xsd violates Unique Particle Attribution
- Sending a message to the same Access Point is not possible
- Sending payloads in the AS4 message body is not supported when payloads are saved on the database; a workaround is to save the payloads on the file disk by configuring the **domibus.attachment.storage.location** property





Upgrading to Domibus 3.3 step by step



Upgrading to Domibus 3.3 step by step(Tomcat)

Prerequisites

- Un-deploy the current **war** installation of Domibus
- Upgrade to 3.2.5 if an older version of Domibus is installed. Detailed instructions can be found as usual in the **upgrade-info.txt**



Upgrading to Domibus 3.3 step by step

Database migration

1. Execute the database migration script
 - a) **mysql5innoDb-3.2.5-to-3.3-migration.ddl** for MySQL
 - b) **oracle10g-3.2.5-to-3.3-migration.ddl** for Oracle
2. Execute the manual migration of the configured users by executing the following SQL script

```
INSERT INTO TB_USER_ROLE (ID_PK, ROLE_NAME) VALUES ('1', 'ROLE_ADMIN');
INSERT INTO TB_USER_ROLE (ID_PK, ROLE_NAME) VALUES ('2', 'ROLE_USER');
INSERT INTO TB_USER (ID_PK, USER_NAME, USER_PASSWORD, USER_ENABLED) VALUES ('1', 'admin', '$2a$10$5uKS72xK2ArGDqb2CwjYnOzQcOmB7CPxK6fz2MGcDBM9vJ4rUq136', 1);
INSERT INTO TB_USER (ID_PK, USER_NAME, USER_PASSWORD, USER_ENABLED) VALUES ('2', 'user', '$2a$10$HApapHvDStTEwjneMCvxuqUKVyycXZRFxMwjU0rRmaWmsjWQp/Zu', 1);
INSERT INTO TB_USER_ROLES (USER_ID, ROLE_ID) VALUES ('1', '1');
INSERT INTO TB_USER_ROLES (USER_ID, ROLE_ID) VALUES ('1', '2');
INSERT INTO TB_USER_ROLES (USER_ID, ROLE_ID) VALUES ('2', '2');
```

```
<sec:authentication-manager id="authenticationManagerForAdminConsole">
  <sec:authentication-provider>
    <sec:password-encoder ref="bcryptEncoder"/>
    <sec:user-service>
      <sec:user name="user" password="$2a$10$HApapHvDStTEwjneMCvxuqUKVyycXZRFxMwjU0rRmaWmsjWQp/Zu"
        authorities="ROLE_USER"/>
      <sec:user name="admin" password="$2a$10$5uKS72xK2ArGDqb2CwjYnOzQcOmB7CPxK6fz2MGcDBM9vJ4rUq136"
        authorities="ROLE_USER, ROLE_ADMIN"/>
    </sec:user-service>
  </sec:authentication-provider>
</sec:authentication-manager>
```



Upgrading to Domibus 3.3 step by step

Update the log configuration from **log4j.properties** to **logback.xml**

- Copy the **logback.xml** from the distributed application server configuration into the **domibus.config.location** configuration directory
- Adapt the log appenders if necessary
- **log4j.properties** is not used anymore and it can be deleted



Upgrading to Domibus 3.3 step by step

Update the ehcache.xml and activemq.xml configuration

1. Adapt the cache configuration in the file **domibus.config.location/internal/ehcache.xml** by adding the following lines:

```
<cache name="dispatchClient"  
    maxBytesLocalHeap="5m"  
    timeToLiveSeconds="3600"  
    overflowToDisk="false">  
    <sizeOfPolicy maxDepthExceededBehavior="abort"/>  
</cache>
```

2. Copy the **activemq.xml** file from the Domibus 3.3 distribution and override the existing one

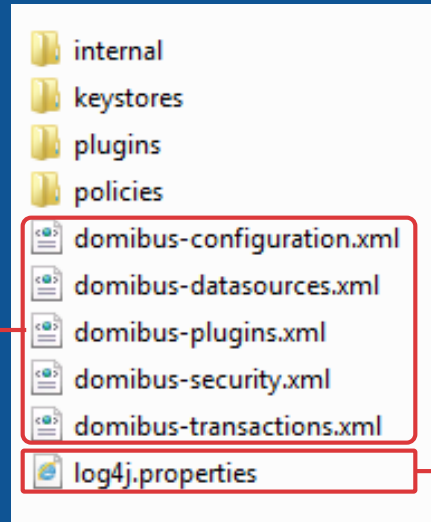


Upgrading to Domibus 3.3 step by step

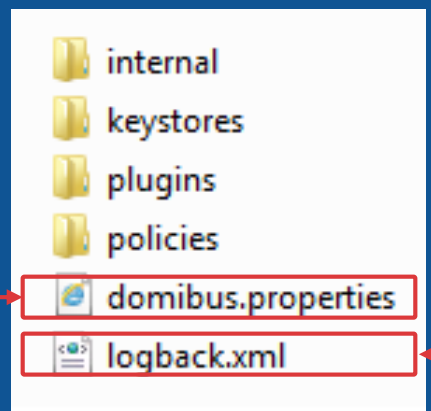
Configure the Domibus properties

1. Copy the **domibus.properties** configuration file from the distributed application server configuration into the **domibus.config.location** configuration directory

Domibus 3.2.x



Domibus 3.3





Upgrading to Domibus 3.3 step by step

Configure the Domibus properties from domibus-configuration.xml

1. All the properties names from the old **domibus-configuration.xml** file have been kept the same in the **domibus.properties** with the following exceptions:
 - a) **domibus.certificate.validation.enabled** renamed to **domibus.receiver.certificate.validation.onsending**
 - b) **domibus.msh.retry.tolerance** value changed to 10800000

```
<!-- General domibus properties -->
<util:properties id="domibusProperties">
  <!-- The suffix of the messageId generated by this instance of domibus.
  Schema is: ${UUID}@${SUFFIX} -->
  <prop key="domibus.msh.messageid.suffix">domibus.eu</prop>
  <!-- Retry worker execution interval as a cron expression -->
  <prop key="domibus.msh.retry.cron">0/5 * * * * ?</prop>
  <!-- Timeout tolerance for retry messages. Should be set to double the
  <prop key="domibus.msh.retry.tolerance">10000</prop>
# ----- Message -----
#The suffix of the messageId generated by this instance of domibus. Schema is: ${UUID}@${SUFFIX}
domibus.msh.messageid.suffix=domibus.eu
# ----- Retry -----
#Retry Worker execution interval as a cron expression
domibus.msh.retry.cron=0/5 * * * * ?
#Timeout tolerance for retry messages (in miliseconds). Scheduled retries that, due to any reason,
domibus.msh.retry.tolerance=10800000
# ----- Dynamic Discovery -----

#The SML zone
domibus.smlzone=acc.edelivery.tech.ec.europa.eu
```



Upgrading to Domibus 3.3 step by step

Configure the Domibus properties from domibus-security.xml

```
<bean id="keystorePasswordCallback" class="eu.domibus.ebms3.security.SimpleKeystorePasswordCallback">  
  <property name="passwordStore">  
    <util:map>  
      <entry key="blue_gw" value="test123"/>  
    </util:map>  
  </property>  
</bean>
```

```
<!-- Properties for keystore with private key -->  
<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>
```

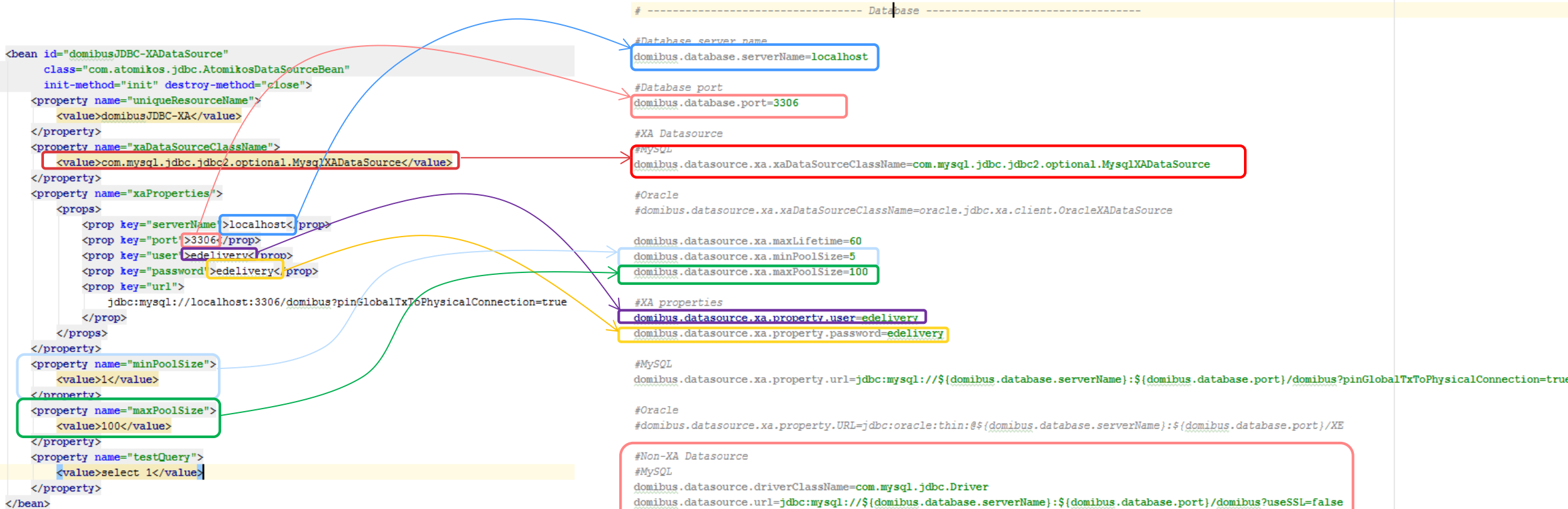
```
<!-- Properties for trustStore with public keys for the partners -->  
<util:properties id="trustStoreProperties">  
  <!-- The crypto provider to be used -->  
  <prop key="org.apache.ws.security.crypto.provider">eu.domibus.wss4j.common.crypto.Merlin</prop>  
  <!-- Type of the used keystore -->  
  <prop key="org.apache.ws.security.crypto.merlin.trustStore.type">jks</prop>  
  <!-- The password used to load the keystore -->  
  <prop key="org.apache.ws.security.crypto.merlin.keystore.private.password">test123</prop>  
  <!-- The password used to load the trustStore -->  
  <prop key="org.apache.ws.security.crypto.merlin.trustStore.password">test123</prop>  
  <prop key="org.apache.ws.security.crypto.merlin.load.cacerts">>false</prop>  
  <!-- The location and name of the trustStore -->  
  <prop key="org.apache.ws.security.crypto.merlin.trustStore.file">${domibus.config.location}/keystores/gateway_truststore.jks</prop>  
</util:properties>
```





Upgrading to Domibus 3.3 step by step

Configure the Domibus properties from domibus-datasources.xml



New properties



Upgrading to Domibus 3.3 step by step

Configure the Domibus properties from domibus-datasources.xml and activemq.xml

```
<!-- JMS ConnectionFactory to use, configuring the embedded broker using XML -->  
<amq:xaConnectionFactory id="xaJmsConnectionFactory"  
  brokerURL="tcp://localhost:61616"  
  userName="domibus" password="changeit"/>  
<!-- do not remove this! otherwise the redeliveryPolicy configured in activemq.xml will be ignored -->  
<amq:redeliveryPolicy>  
  <amq:redeliveryPolicy />  
</amq:redeliveryPolicy>  
</amq:xaConnectionFactory>
```

domibus-datasources.xml

```
# ----- ActiveMQ -----  
  
#The host of the JMS broker  
activeMQ.broker.host=localhost  
  
#The name of the JMS broker  
activeMQ.brokerName=localhost  
  
#The port that the JMS connector will use for connecting to ActiveMQ  
activeMQ.connectorPort=1199  
  
#The RMI server port  
activeMQ.rmiServerPort=1200  
  
#The connection URI that the clients can use to connect to an ActiveMQ broker using a TCP socket  
activeMQ.transportConnector.uri=tcp://${activeMQ.broker.host}:61616  
  
#The username that is allowed to connect to the ActiveMQ broker  
activeMQ.username=domibus  
  
#The password of the username defined in the activeMQ.username property  
activeMQ.password=changeit
```

activemq.xml

```
<broker useJmx="true" brokerName="localhost" persistent="true" schedulerSupport="true" dataDirectory:  
<managementContext>  
  <managementContext createConnector="true" connectorPort="1199" rmiServerPort="1200"/>  
</managementContext>  
<transportConnectors>  
  <transportConnector uri="tcp://localhost:61616" disableAsyncDispatch="true"/>  
</transportConnectors>
```

```
<broker useJmx="true" brokerName="${activeMQ.brokerName}" persistent="true" schedulerSupport="true" dataDirectory="${domibus.work.lo  
<managementContext>  
  <managementContext createConnector="true" connectorPort="${activeMQ.connectorPort}" rmiServerPort="${activeMQ.rmiServerPort}" />  
</managementContext>  
<transportConnectors>  
  <transportConnector uri="${activeMQ.transportConnector.uri}" disableAsyncDispatch="true"/>  
  ...  
</transportConnectors>
```



Upgrading to Domibus 3.3 step by step

Install the Domibus 3.3 war

- Install the new Domibus war file and optionally the default plugins
- For WebLogic and WildFly the procedure is similar

Roadmap



Domibus 4.0 (Q1 2018)

Java 8+ only

Advanced features for administration console:

- ping remote access points
- history off PMode changes
- configurable alerts and notifications
- export tables data as CSV files

Multi-tenancy: support for multiple domains

Audit trails

Support for Wildfly 10



<https://ec.europa.eu/cefdigital/wiki/display/CEFDIGITAL/Domibus>

3

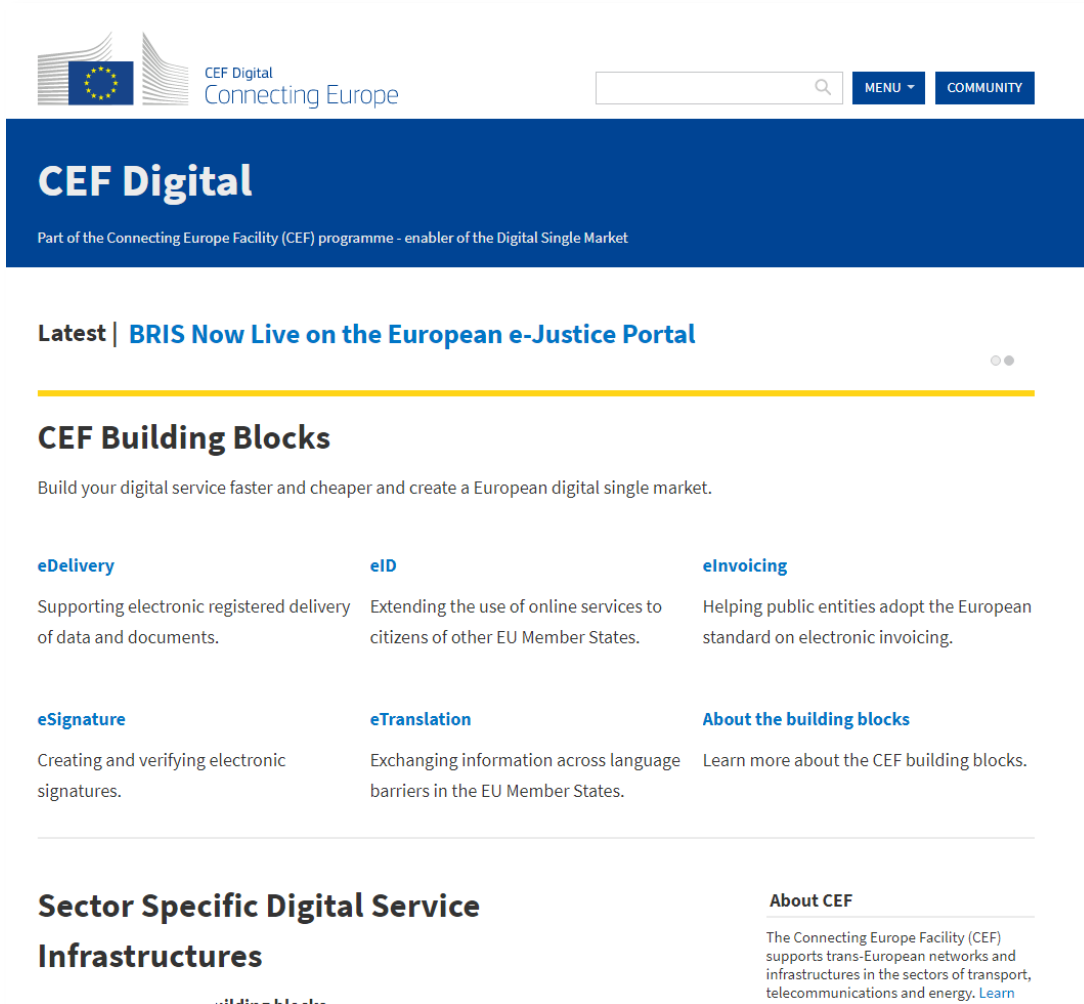


Q&A

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 Connecting Europe, featuring the European Union flag. 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 features a 'Latest' section with a link to 'BRIS Now Live on the European e-Justice Portal'. Below this is a section titled 'CEF Building Blocks' with the subtitle 'Build your digital service faster and cheaper and create a European digital single market.' This section contains six cards: 'eDelivery' (Supporting electronic registered delivery of data and documents), 'eID' (Extending the use of online services to citizens of other EU Member States), 'eInvoicing' (Helping public entities adopt the European standard on electronic invoicing), 'eSignature' (Creating and verifying electronic signatures), 'eTranslation' (Exchanging information across language barriers in the EU Member States), and 'About the building blocks' (Learn more about the CEF building blocks). At the bottom, there are two sections: 'Sector Specific Digital Service Infrastructures' and 'About CEF' (The Connecting Europe Facility (CEF) supports trans-European networks and infrastructures in the sectors of transport, telecommunications and energy. Learn more).

#BIG

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