EUROPEAN COMMISSION

DIRECTORATE-GENERAL INFORMATICS

CEF e-Delivery 3.1.0

Release Notes

Author(s)   : CEF
Reviewed by :

Approved by :
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1. INTRODUCTION

1.1. Release Date and Details

CEF e-Delivery 3.1.0 was released on November 5th, 2015.

CEF e-Delivery 3.1.0 provides a simple and secure way to exchange messages between two parties based on the AS4 profile of ebMS 3.0, version 1.0.

It consists of two Web Application Archives which are the message submission/notification and the message service handler (AS4 implementation).

CEF e-Delivery 3.1.0 is a cross-platform application written in Java.

The Submission Module facilitates an easy integration with the backend systems (back offices). Therefore, it offers flexible options to configure and customize message handling based on the specific needs of the backend systems.

The Message Service Handler (MSH) is based on the Domibus 3.0-RC3 release of September 28th by eCodex.

In addition, the Reference Web Service endpoint implementation provides a service to facilitate the testing procedure.

1.2. Prerequisites

- JBoss AS 7.1.1.Final is included in the full distribution.

- MySQL Server, version 5.6.19 or higher can be used.

2. AVAILABILITY AND DESCRIPTION

2.1. Package Overview

The full distribution package is available here:

u:\COMMON\CIPASHARE\eDelivery\BRIS pilot\November release\cipa-edelivery-distribution-3.1.0-as4-jboss.zip

It includes:

- JBoss Application Server 7.1.1.Final.

- The two WAR files: submission.war and domibus.war.

- The MySQL scripts to setup the database.

- The Quick Start Guide providing assistance to end users when installing the Pilot and its subsequent components.

- The Test Guide and Test Suite (SOAPUI project) allowing end users to complete test scenarios between two instances.

- The Known Issues document provides information about issues encountered during the test phase or lists restrictions due to the default configuration.

2.2. Detailed Description

2.2.1. Submission Module

The Submission Module persist messages to the database in an ebMS3 format. Messages can then be picked up by the Message Service Handler.

It exposes a simple, configurable Message Facade that handles generic message formats.

The Message Facade implements a single operation, "sendMessage" that orchestrates the sequence of calls to custom services:

- **loggingService** performs user specific logging/monitoring.

- **validationService** performs user specific message validations.

- **preProcessingService** performs user specific message pre-processing.

- **conversionService** performs the conversion from user specific format to business object.

- **postProcessingService** performs user specific message post processing.

The **submissionRetrievalService**, based on Domibus 3.0 Submission Module submits the message to the database. This service is not customizable.

Interfaces are provided for each of the above services.

2.2.2. Message Service Handler (MSH)

This is the actual AS4 gateway implementation and it is based on the Domibus 3.0-RC3, released on September, 28th by eCodex.

2.2.3. Notification Module

The main goal of the module is to notify the backend systems (back offices) when a message arrives.

It allows the routing of a message to the proper backend based on four routing criteria:

- From

- To

- Action

- Service

It exposes a simple, configurable Notification Facade that handles generic message formats.

The Notification Facade implements one single operation, "notify" that orchestrates the sequence of calls to custom services:

- **conversionService** performs the conversion from business object to user specific format.

- **loggingService** performs user specific logging/monitoring.

- **postProcessingService** performs user specific message post processing.

- **notificationService pushes the message to the back office.**

2.2.4. Reference Web Service Endpoint

A Reference Web Service endpoint is provided to illustrate how back offices can integrate with CEF e-Delivery 3.1.0.

Here are the Reference Web Service endpoint characteristics:

- SOAP Web Service, using ebMS3 message format.

- Exposes "sendMessage" operation.

- Uses reference Message Facade to submit the message to the DB.

The Reference Message Facade is configured to use reference services implementations: *RefConversionService, RefValidationService, RefNotificationService.*

This release selects the backend endpoint based on the 'service' and 'action' routing criteria ('from' and 'to' are not configured). For testing purposes in this release, PMode files are configured to use a unique 'service' and 'action' value. Therefore the notification module is configured to push all messages to a default Web Service endpoint (based on the same WSDL as used in the Reference Web Service).

2.2.5. Error Handling

There are two types of exceptions at the Facade level which are Technical Exceptions and Business Exceptions:

- *TechnicalException* (Internal Errors): Technical exceptions happen when a technical component of a business process acts in an unexpected way. Examples of technical exceptions are: IO exception, timeout, bad configuration, etc.

- *BusinessException* : Business Exceptions are exceptions which happen at the workflow level.

These exceptions are caught and translated into SoapFaults by the reference endpoint.

2.2.6. Known Limitations

Streaming: The Submission Module is using the Message Transmission Optimization Mechanism (MTOM) to stream the payloads. Streaming is not yet implemented at the MSH level.

Duplicates: Duplicated messages are not checked during the notification. A duplicated message will be notified to the back office.

For additional information about known issues and restrictions, please see the "Known Issues document" also included in this package.