ECodexConnector - Quick installation guide

## Introduction

The ECodexConnector will be shipped as a generic framework which needs to be integrated into a national implementation which must handle the parts with the national systems in the backend. As it is a framework, the EcodexConnector does not have any runnable class or user interface

## Structure

* + Modules

The structure of the ECodexConnector framework is built by several modules, all represented by JAR libraries.

* + - ECodexConnectorCommon

This module contains classes that are used across all the other modules.

* + - ECodexConnectorController

This is the main module. It controlls the message handling, the timer jobs and also imports all the other modules.

* + - ECodexConnectorContentMapper

Holds a generic interface called by the controller which must be implemented in a national implementation for content mapping from ecodex to national format and vice verse.

* + - ECodexConnectorEvidencesToolkit

Calls the EvidenceBuilder to generate the evidences.

* + - ECodexConnectorSecurityToolkit

Calls the security library (WP4) to build and resolve the secure container.

* + - ECodexConnectorGatewayWebserviceClient

Handles message building and transferring with the gateway backend webservice.

* + - ECodexConnectorNationalBackendClient

Holds the interface that must be implemented by the national solution to change messages with the national backend.

* + - ECodexConnectorDistribution

Holds all the other modules as JAR and sources JAR. As well holds documentation including this guide, database scripts and release notes. Also all external libraries which are part of the eCodex project can be found there.

* + Configuration

They are all configured using one single property file which needs to be administrated by the top application in which the connector framework will be integrated. An example for a property file with comments can be found in the ECodexConnectorCommon module.

* + Database

The ECodexConnector needs a database to persist informations on the messages transferred. The scripts to set-up the database can be found shipped within the ECodexConnectorDistribution module prepared for MySQL and Oracle. Delta Scripts for new releases are always added to the scripts beginning with the version number of the release.

* + Architecture

The ECodexConnector is build as a maven2 multi-module project. As core concepts there are used Spring3 for middleware and JPA with Hibernate core for persistence.

## Installation using Maven

When using maven the simple installation is to integrate the ECodexConnectorController module as a dependency within your national implementation. All other modules will be imported by the controller. This can be done using the e-codex maven mirror under https://secure.e-codex.eu/nexus.

The following snippet shows the integration of the ECodexConnector framework

<dependency>

<groupId>eu.ecodex.connector</groupId>

<artifactId>ECodexConnectorController</artifactId>

<version>${ecodex.connector.version}</version>

</dependency>

You only need to set the variable ${ecodex.connector.version} as a property, or simply replace the variable by the fix value for the version.

## Installation without Maven

You need to integrate all the above listed modules as JAR libraries into your national implementation. They can all be found in the ECodexConnectorDistribution module shipped with the ECodexConnector.

## NationalImplementationExample

This is a small example application that shows how the configuration, integration and implementation of the ECodexConnector works. It can be found at https://secure.e-codex.eu/nexus.

It is well documented with source code comments and comments inside the example configuration.