

Reference Data Server

Installation guide

Version 1.2

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Revision History

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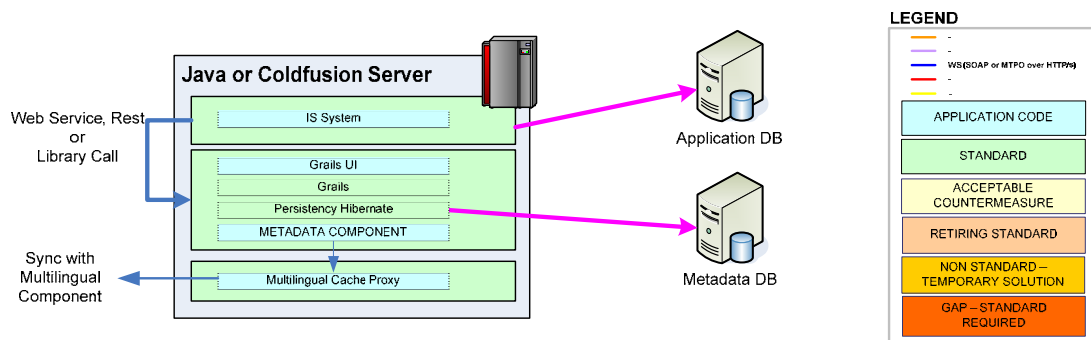
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1. Introduction

The scope of this installation guide is to provide practical step by step information on how to install the Reference Data Server on a standard DIGIT environment (defined below)

Bellow you'll find a deployment diagram that will show you the main parts of the system : RD server and DB, RD client, Multilingual server and DB, Multilingual client :



2. Distributions

The official distribution of the server is offered as a .zip bundle located on the European Commission's Joinup platform :

https://joinup.ec.europa.eu/asset/rd/asset_release/genis-reference-data-interoperability-solution#download-links

The bundle contains source files, distribution releases, dependencies, javadocs and the present guide.

3. Runtime environment

This guide assumes the runtime environment is the standard DIGIT environment composed of:

- JDK 1.7
- WebLogic application server 12c
- Oracle database 11g
- ECAS client needs to be already setup (provided dependency)

4. Configuration

To obtain a workable instance, here are the configurations you have to perform :

1. Multilingual server

The RD server needs a multilingual server to obtain and upload translations to. At the moment it's not possible to use a simple ML provider (like using *.properties files) because RD need also to create new translations keys.

Before we can build the .war from the sources, we need to configure this information in the source files. Please create a new file in folder external called CustomReferenceDataConfig.groovy with the following content :

```
multilingual.server='<ML server address>'
multilingual.port='<ML server port>'
multilingual.context.path='<ML server path>'
multilingual.username='<ML server user>'

multilingual.password='<ML server user>'
```

For ML server you can use either :

- your local instance that you previously setup from Joinup :

<https://joinup.ec.europa.eu/asset/multilingual/description>

- an official DG COMP translations server. For the URL and user credential, please contact your RD account manager.

2. Database connection

The DB is accessed via JNDI using this name called "jdbc/metadata" (found in DataSource.groovy)

To configure the DB link, please contact DIGIT and ask them to run the WLST script to configure the datasource in Weblogic. You can find examples in folder grails-app\conf\external\jndi

5. Build war

Preconditions:

- RD server is implemented as a Grails project, so you need to setup Grails version 2.1.4.
- JDK 1.7.
- Nexus credentials and access (file BuildConfig.groovy)

Build the .war from the sources. We recommend this approach because some configurations are made in the source files, as mentioned above.

This command will generate a .war file located in /target folder :

```
grails -Dauth.type=ECAS -Dgenis.metadata.config.classpath='external/  
CustomReferenceDataConfig.groovy' prod war
```

6. Setup Database

The first step will be to create the empty SQL schema. For this please run the following script using your favourite SQL tool : /sql/<version>/schema_RD.sql

Second, you need to setup some initial data (like admin user, profiles, permissions, etc) with this script : /sql/<version>/initial_data_RD.sql

If you already have a running version of this application, you need to upgrade the SQL schema definition to match the application logic. To migrate from the old schema to the new one, please run the script below by selecting the proper versions (and potentially to run it multiple times if the version gap is larger than 2) :

```
/sql/<version>/upgrade_schema_RD_from_<previous_version>.sql
```

NOTE: please modify the script above to filling your information for the admin user. This user needs to be already setup in ECAS.

7. Deploy & Run the webapp

After you setup the database, configured the Weblogic, build the .war, it's time to deploy the .war in the application and hope it works ☺

The access the url like :

http://<host>:<port>/genis_metadata