Quick Start Guide

for the

Business Document Metadata Service Location (BDMSL)

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Document Approver(s):

Approver Name	Role
Joao RODRIGUES	CEF eDelivery

Document Reviewers:

Reviewer Name	Role
Adrien FERIAL	Product Owner

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Version	Date	Created by	Short Description of Changes
1.5	26/08/2016	Adrien FERIAL	Version
1.6	30/09/2016	Yves ADAM	Align to new template
1.7	19/07/2017	Flavio SANTOS	Add configuration parameters

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1. INTRODUCTION

BDMSL stands for Business Document Metadata Service Location. BDMSL is the sample implementation of the SML maintained by DG DIGIT. The version of the BDMSL refered in this document is 3.1. This version implements the e-SENS BDXL profile (put the reference in the table of references: http://wiki.ds.unipi.gr/display/ESENS/PR+-+BDXL)

1.1. Purpose of the Quick Start Guide

This document provides a brief description of the installation of the BDMSL component. This application uses Liquibase as a database management tool. Every war includes the SQL updates written as XML Liquibase files. For the installation of the component, to avoid a failed deployment, it is necessary to extract the XML Liquibase files, configure them and then execute the database updates. Then the application can be launched.

This guide illustrates the different steps for an installation on a Tomcat server with a MySQL database. If you use a different application server and/or a different database provider, please adapt the command lines.

1.2. Pre-requisites

- JDK 7+

- Tomcat 8

    o Unzip Tomcat in the directory `tomcatDir`

- MySQL driver

    o Put this driver into the folder `tomcatDir/lib`

- Liquibase 3.4

- The user configured for the data source in Tomcat must have administrative rights on the database

2. PROCEDURE

For the example below we will assume the version is `3.1`.

- Unzip `Liquibase` in a directory. We will refer to this directory as `liquibaseDir` in the rest of this document.

- Download `bdmsl-webapp-3.1-tomcat-mysql.war` on [CEF Digital Repository](#) and put it at the root of `liquibaseDir`

- Open a command prompt in `liquibaseDir`

- Run the following command lines:

```
unzip -p bdmsl-webapp-3.1-tomcat-mysql.war WEB-INF/classes/liquibase/db.changelog-master.xml
>db.changelog-master.xml

unzip -p bdmsl-webapp-3.1-tomcat-mysql.war WEB-INF/classes/liquibase/db.changelog-default-
data-inserts.xml >db.changelog-default-data-inserts.xml

unzip -p bdmsl-webapp-3.1-tomcat-mysql.war WEB-INF/classes/liquibase/db.changelog-create.xml
>db.changelog-create.xml

unzip -p bdmsl-webapp-3.1-tomcat-mysql.war WEB-INF/classes/liquibase/db.changelog-update-
3.0.1.xml >db.changelog-update-3.0.1.xml

unzip -p bdmsl-webapp-3.1-tomcat-mysql.war WEB-INF/classes/liquibase/db.changelog-update-
3.1.RC1.xml >db.changelog-update-3.1.RC1.xml

unzip -p bdmsl-webapp-3.1-tomcat-mysql.war WEB-INF/classes/liquibase/db.changelog-update-
3.1.RC2.xml >db.changelog-update-3.1.RC2.xml

unzip -p bdmsl-webapp-3.1-tomcat-mysql.war WEB-INF/classes/liquibase/db.changelog-version.xml
>db.changelog-version.xml
```

- Open the file "`db.changelog-default-data-inserts.xml`": it contains the configuration settings for the first launch. Change the values accordingly with your environment by uncommenting the last change set (under Environment Specific comment: id = "999999") and adding updates to the existing Data. For instance, you can change the default configuration path by modifying the `configurationDir` property like this:

```xml
<!-- Environment Specific  -->
<changeSet author="eDelivery" id="999999" logicalFilePath="path-independent">
    <update tableName="bdmsl_configuration">
        <column name="value" value='false' type="LONGTEXT"/>
        <where>property='dnsClient.SIG0Enabled'</where>
    </update>
    <update tableName="bdmsl_configuration">
        <column name="value" value='false' type="LONGTEXT"/>
        <where>property='signResponse'</where>
    </update>
    <update tableName="bdmsl_configuration">
        <column name="value" value='false' type="LONGTEXT"/>
        <where>property='dnsClient.enabled'</where>
    </update>
    <update tableName="bdmsl_configuration">
        <column name="value" value='E:/WorkingDirectory/__BDSML/_Environment/liquibase-3.4.1/confDir' type="LONGTEXT"/>
        <where>property='configurationDir'</where>
    </update>
</changeSet>
```

- Create a new file `liquibase.properties` at the root of `liquibaseDir` and put the following content in this file. You need to adapt the values for your environment:

```
driver: com.mysql.jdbc.Driver

classpath: <tomcatDir>/lib/mysql-connector-java-5.1.34.jar

url: jdbc:mysql://localhost:3306/bdmsl

username: root

password: root

changeLogFile: db.changelog-master.xml
```

- Run the following command line in `liquibaseDir`:

```
liquibase update
```

- Copy `bdmsl-webapp-3.1-tomcat-mysql.war` in the `tomcatDir/webapp` folder

- Create a [new data source in Tomcat](#) named `java:comp/env/jdbc/edelivery`.
  For that go to TOMCAT_HOME/conf/context.xml and add the block:

```
<Resource name="jdbc/edelivery" auth="Container" type="javax.sql.DataSource"
          maxTotal="100" maxIdle="30" maxWaitMillis="10000"
          username="root" password="root" driverClassName="com.mysql.jdbc.Driver"
          url="jdbc:mysql://localhost:3306/bdmsl"/>
```

- Start tomcat

3. CONFIGURATION

In the configuration directory that you specified in the `configurationDir` property, you need to put the following files:

- `keystore.jks` (the name can be changed in the property `keystoreFileName`). This keystore must contain your private key with the alias and password defined in properties `keystoreAlias` and `keystorePassword`.

- `sig0.private` (the name can be changed in the property `dnsClient.SIG0KeyFileName`). This file is only required if you use DNSSEC (i.e. property `dnsClient.SIG0Enabled` set to true)

3.1. Initial parameters

After the execution of the liquibase script for the database apply the followings:

- Switch the new property **authentication.bluecoat.enabled** in the table BDMSL_CONFIGURATION to true if the SML must manage BlueCoat authentication.

- Create the following property for each existing subdomain from the table BDMSL_SUBDOMAIN like **subdomain.validation.smpLogicalAddressProtocolRestriction.sampleSubDomain** in the table BDMSL_CONFIGURATION where **sampleSubDomain** is the subdomain name. The value of the property can be **all, http or https.**

- Create the following property for each existing subdomain from the table BDMSL_SUBDOMAIN like **subdomain.validation.participantIdRegex.sampleSubDomain** in table BDMSL_CONFIGURATION where **sampleSubDomain** is the subdomain name. The value of this property must be populated with a regular expression to define the syntax of accepted subdomain names in addition to ISO 15459 constraints governing these identifiers. By default, the regular expression **^.*$** may be used. It accepts any sequence of characters and therefore adds no restriction.

- Configure properties **dataInconsistencyAnalyzer.senderEmail** and **dataInconsistencyAnalyzer.recipientEmail** for sending and receiving Data Inconsistency reports with appropriate email addresses.

- Create the following property for each existing subdomain from the table BDMSL_SUBDOMAIN like **dnsClient.domain.sampleSubDomain** in table BDMSL_CONFIGURATION where **sampleSubDomain** is the domain name. The value of the property must be the **domain.**

- Restart the server(s).

4. CONTACT INFORMATION

CEF Support Team

By email: CEF-EDELIVERY-SUPPORT@ec.europa.eu

By phone: +32 2 299 09 09

- Standard Service: 8am to 6pm (Normal EC working Days)

- Standby Service*: 6pm to 8am (Commission and Public Holidays, Weekends)

Only for critical and urgent incidents and only by phone