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Service Metadata Publisher

Administration Guide

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1. INTRODUCTION

This Administration Guide is intended for Administrators who are in charge of installing, managing and troubleshooting an eDelivery SMP (Service Metadata Publisher).

1.1. Purpose

The purpose of this guide is to provide detailed information on how to deploy and configure an SMP 4.X on either a WebLogic or Tomcat Application Server with either MySQL or Oracle database.

It also provides detailed descriptions of the related Security Configurations (Certificates).

There is also a section on the use of Soap UI to create, update and delete SMP Service Groups and Metadata.

Another section describes an alternative method to perform the creation, update and deletions using Swagger UI.

2. CONVENTION

The Commands and Configuration files listed in this document usually contain a mix of reserved words (commands, instructions and system-related special words), user-defined words (chosen by the user) as well as comments and default/preferred values for some fields or variables.

The conventions used in this document, to distinguish between them, are the following:

- **Bold** is used for "reserved" words and commands.
- *Normal italic* together with a short description of the argument is used for user-defined names (chosen by yourself to designate items like users, passwords, database etc.). It normally contains at least 2 words separated by "_".
- ***Bold and italic*** is used for advisable values which can be changed by the user depending on their infrastructure.
- Comments are sometimes added to describe the purpose of the commands, usually enclosed in brackets ().
- By default, non-OS specific paths will be described using Linux patterns.

Example 1: Sample Oracle Statement:

```
create user smp_user identified by smp_password;
```

```
grant all privileges to smp_user;
```

(Where *smp_user* and *smp_password* are names chosen by the user)

Example 2: Sample Configuration File:

```
jdbc.driver = com.mysql.jdbc.Driver
```

```
jdbc.url = jdbc:mysql://localhost:3306/smp_database
```

```
jdbc.user = smp_user
```

```
jdbc.password = smp_password
```

```
target-database = MySQL
```

(Where: *smp_user*, *smp_database* and *smp_password* are names chosen by the user.

localhost:3306 represents hostname:port parameters of the MySQL database.)

3. PREREQUISITES

Please install the following software on the target system. For further information and installation details, please refer to the software owner's documentation.

- Java runtime environment is now (JRE) 8 **only**:
<http://www.oracle.com/technetwork/java/javase/downloads/index.html>
- **One** of the supported Database Management Systems:
 - MySQL 5.6 or above
 - Oracle 10g+
- **One** of the supported Application Servers:
 - WebLogic 12.2.1.x (WebLogic 12.1 is not supported from 4.1.1 release on)
 - Tomcat 8

3.1. Binaries repository

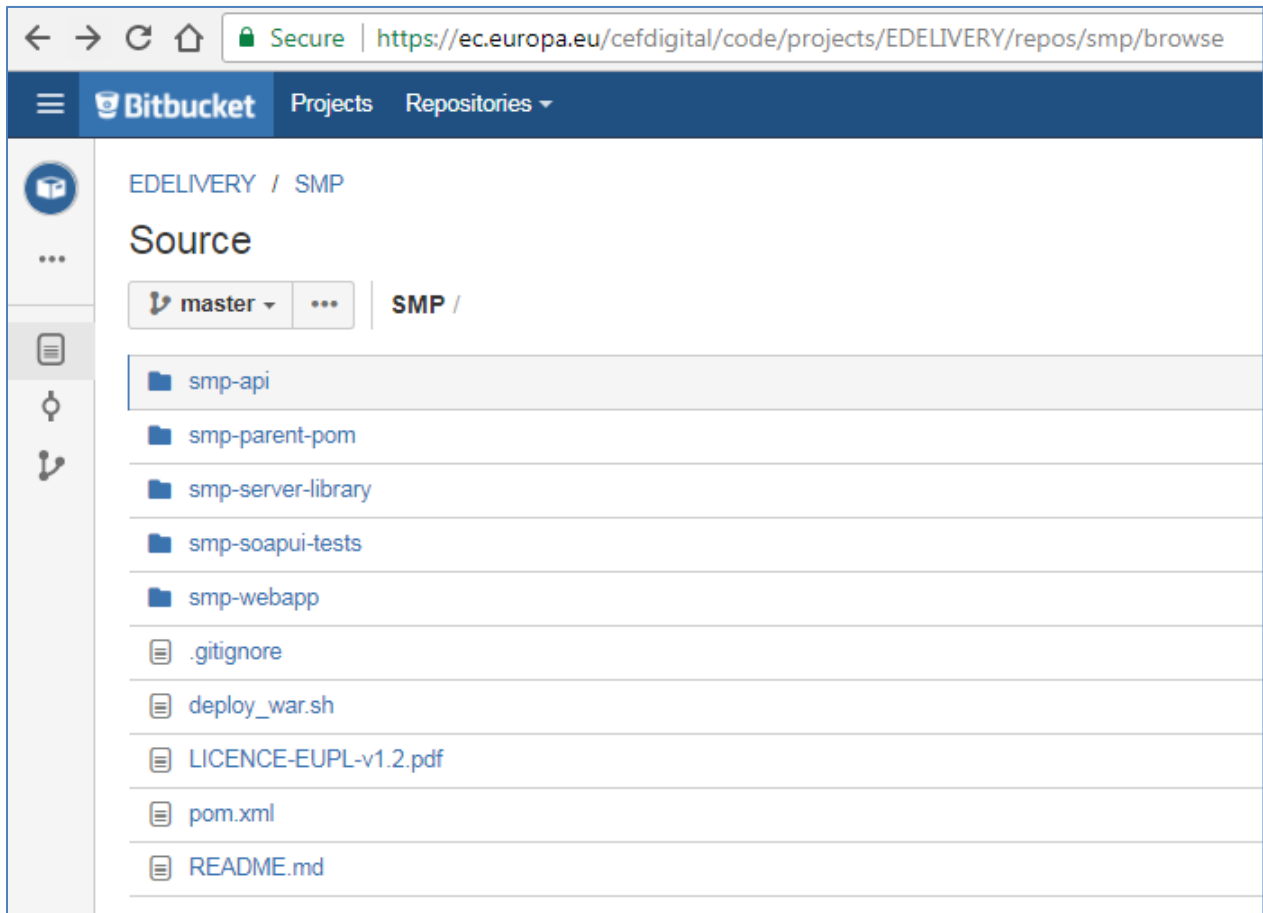
The SMP artefacts can be downloaded from the Digital site¹.

3.2. Source Code Repository

The source code of eDelivery SMP is available in the **GIT** repository at the following location:

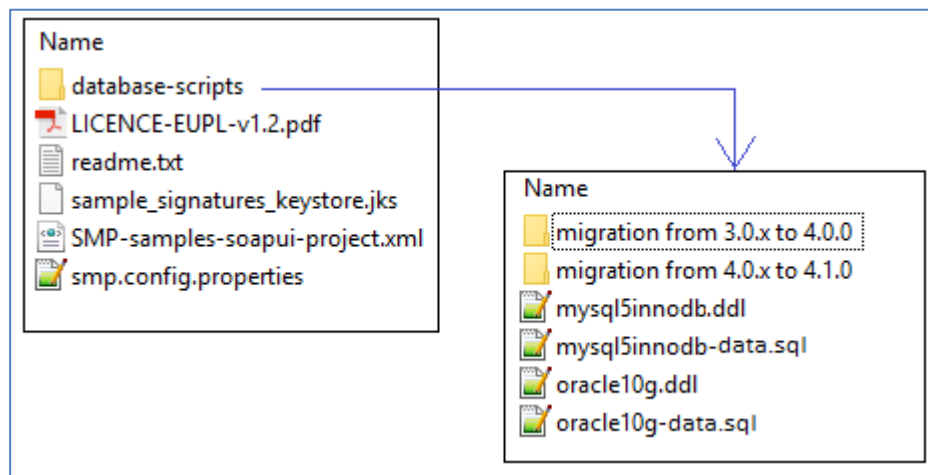
<https://ec.europa.eu/digital-building-blocks/code/projects/EDELIVERY/repos/smp/browse>

¹ <https://ec.europa.eu/digital-building-blocks/wikis/display/DIGITAL/SMP+software>



3.3. Database Scripts

The scripts to create (or migrate) the Oracle or MySQL databases are included in the following downloadable zip file from the Digital site (section §3.1): smp-4.x-setup.zip.



4. DEPLOYMENT

4.1. Deployment overview

As mentioned in the prerequisites, the deployment of the SMP is only supported on Tomcat or WebLogic application servers.

The deployment of the SMP on both platforms is almost identical but minor platform specific changes will be documented in a dedicated section of this manual.

The deployment of the SMP is summarized in the following mandatory steps:

- Database Configuration
- Application Server Preparation (Weblogic and Tomcat) for SMP
- SMP Initial Configuration
- SMP .WAR file Deployment

Remark:

*The environment variable, **cef_edelivery_path**, refers to the name of the folder where the SMP package is installed.*

*For Tomcat, it refers to **CATALINA_HOME**.*

*For Oracle WebLogic, it refers to **DOMAIN_HOME**.*

5. DATABASE CREATION

This section describes the steps necessary to create the database, tables and the SMP database user (**dbuser** used for database connection purpose).

It also includes the creation of an initial SMP user account that will be used by REST clients to connect to the SMP.

The SMP uses a direct connection to the database, which removes the need to configure a data source within WebLogic.

For this step you need to use the script included in the zip file downloaded in section §3.3.

5.1. MySQL

1. Download and copy the `mysql5innodb-4.x.ddl` script to `cef_edelivery_path/sql-scripts`
2. Open a command prompt and navigate to the `cef_edelivery_path/sql-scripts` folder
3. Execute the following MySQL commands:

```
mysql -h localhost -u root_user --password=root_password -e "drop schema if
exists smp_schema;create schema smp_schema;alter database smp_schema
charset=utf8; create user smp_dbuser@Localhost identified by
'smp_password';grant all on smp_schema.* to smp_dbuser@Localhost;"
```

This creates a `smp_schema` and an `smp_dbuser` with (all) privileges to the `smp_schema`.

Execute the following command to create the required objects (tables, etc.) in the database:

```
mysql -h localhost -u root_user -proot_password smp_schema < mysql5innodb.ddl
```

Execute the following command to fill initial test data:

```
mysql -h localhost -u root_user -proot_password smp_schema < mysql5innodb-
data.sql
```

5.2. Oracle Database

1. Download and copy the `oracle10g.ddl` **script** to `cef_edelivery_path/sql-scripts`
2. Navigate to `cef_edelivery_path/sql-scripts` directory
3. Execute the following commands :

```
sqlplus sys as sysdba (password should be the one assigned during the Oracle
installation )
```

```
=====
```

Once logged in Oracle:

```
create user smp_dbuser identified by smp_dbpassword;
```

```
grant all privileges to smp_dbuser;
connect smp_dbuser
show user; (should return : smp_dbuser)
@oracle10g.ddl (run the scripts with the @ sign from the location of the scripts)

@oracle10g-data.ddl (Fill initial test data)

exit
=====
```

6. ORACLE WEBLOGIC CONFIGURATION

This section does not include the installation of a WebLogic application server. It is assumed that the WebLogic Server is installed and a WebLogic domain is created with an administration server and a managed server on which the SMP will be deployed.

Hereafter the domain location will be referred as *DOMAIN_HOME* (user-defined name).

In the examples below, we will use the following Domain and Server names:

- Domain Name : SMPDOMAIN
- Administration Server : AdminServer
- SMP Managed Server : SMP_ManagedServer

As shown below:

The screenshot shows the Oracle WebLogic Server Administration Console interface. The main content area is titled "Summary of Servers" and includes a "Configuration" tab. Below the tab, there is a table of servers. The table has the following data:

| Name | Type | Cluster | Machine | State | Health | Listen Port |
|--------------------|------------|---------|---------|---------|--------|-------------|
| AdminServer(admin) | Configured | | | RUNNING | OK | 7001 |
| SMP_ManagedServer | Configured | | | RUNNING | OK | 7003 |

In order to deploy the SMP on the WebLogic Application Server platform, two preliminary steps need to be completed:

- Disabling the Authentication on the Weblogic Server,
- Configuring the Extra CLASSPATH for WebLogic,
- Setup sun HTTP Handler.

This is described in the following 2 sections.

6.1. Disabling the Authentication on the WebLogic

The eDelivery SMP has its own authentication mechanism that makes the WebLogic authentication redundant. It is therefore important to disable the WebLogic Authentication to stop it from interfering with the SMP authentication.

To do so, edit the config.xml file (under SMPDOMAIN/config) by adding the following tag before the `</security-configuration>` closing tag:

```
<enforce-valid-basic-auth-credentials>false</enforce-valid-basic-auth-credentials>
```

Here is an example:

```
../  
<enforce-valid-basic-auth-credentials>false</enforce-valid-basic-auth-  
credentials>  
</security-configuration>  
/..
```

6.2. Configuring the Extra CLASSPATH for WebLogic

Under the DOMAIN_HOME directory, create the following sub-directories:

- smp
- logs

Edit the WebLogic DOMAIN_HOME/bin/setDomainEnv.sh.

For Linux:

Add the **EXPORT CLASSPATH=\${CLASSPATH}:\${DOMAIN_HOME}/smp** statement at the end of the CLASSPATH definition as shown below:

```
../  
if [ "${PRE_CLASSPATH}" != "" ] ; then  
    CLASSPATH="${PRE_CLASSPATH}${CLASSPATHSEP}${CLASSPATH}"  
    export CLASSPATH  
fi  
  
    CLASSPATH=${CLASSPATH}:${DOMAIN_HOME}/smp  
    export CLASSPATH  
/..
```

For Windows:

```
../  
If NOT "%PRE_CLASSPATH%"==" " (  
    set CLASSPATH=%PRE_CLASSPATH%;%CLASSPATH%  
)  
set CLASSPATH=%CLASSPATH%;%DOMAIN_HOME%\smp  
/..
```

6.3. Configuring Sun HTTP handler

Edit the WebLogic DOMAIN_HOME/bin/setDomainEnv.sh and add the following system parameter.

```
../  
JAVA_OPTIONS=-DUseSunHttpHandler=true  
export JAVA_OPTIONS  
/..
```


7. TOMCAT CONFIGURATION

In order to deploy the SMP on Tomcat, the steps below need to be completed.

7.1. Configuring the Extra CLASSPATH for Tomcat

In this Tomcat example, a directory called **smp** will be created in the root path of the Tomcat installation (**CATALINA_HOME**) and the **CLASSPATH** modified to include this new directory using an existing Tomcat batch file (**CATALINA_HOME/bin/setenv.[sh|bat]**).

Create a **smp** directory in the **CATALINA_HOME** directory.

For Linux:

Edit the **CATALINA_HOME/bin/setenv.sh** file

```
#!/bin/sh
# Set CLASSPATH to include $CATALINA_HOME/smp
# where the smp 'smp.config.properties' is located
export CLASSPATH=$CATALINA_HOME/smp
```

For Windows:

Edit the **%CATALINA_HOME%/bin/setenv.bat** file

```
REM Set CLASSPATH to include $CATALINA_HOME/smp
REM where the 'smp.config.properties' is located
set classpath=%classpath%;%catalina_home%\smp
```

7.2. JDBC Driver

The JDBC driver needs to be downloaded from the manufacturer website:

- For Oracle Database : <http://www.oracle.com/technetwork/apps-tech/jdbc-112010-090769.html>
- For Mysql : <https://www.mysql.com/products/connector/>

The JDBC driver (.jar file) must be copied to the following directory: **cef_edelivery_path/lib**.

8. SMP CONFIGURATION

Since **SMP 4.1.0.FR**, configuration properties (except database connection configuration) are stored in the Database **SMP_CONFIGURATION** table. In order to make the migration easier for existing deployments, the initial database configuration is imported from the existing smp configuration file. Therefore, for a new installation, the initial procedure stays the same.

For this step, use the following resources delivered within the zip file downloaded in section §3.3:

- An smp config file named **smp.config.properties** located in the CLASSPATH

The **smp.config.properties** file must be copied to the CLASSPATH folder configured in chapter (see §7.1).

8.1. Database configuration

The eDelivery SMP database back-end configuration is performed within the eDelivery SMP configuration file (**smp.config.properties** file).

Depending on the selected database back-end, modify the **smp.config.properties** files as indicated below. Smp database connection can be configured in property file or can use application server datasource configuration by JNDI.

8.1.1. Oracle Database:

- Datasource configured from property file:

```
../
## Sample for Oracle
jdbc.driver=oracle.jdbc.driver.OracleDriver
jdbc.url=jdbc:oracle:thin:@localhost:1521/xe
jdbc.user=smp
jdbc.password=secret123
hibernate.dialect=org.hibernate.dialect.Oracle10gDialect
/..
```

- Datasource configured on the application server

```
../
hibernate.dialect=org.hibernate.dialect.Oracle10gDialect
# weblogic datasource JNDI example
# datasource.jndi=jdbc/edeliverySmpDS
# tomcat datasource JNDI example
datasource.jndi=java:comp/env/jdbc/edeliverySmpDS
```

8.1.2. MySQL:

- Datasource configured from property file

```
../  
## Database access  
# For mysql connector v8  
#jdbc.driver = com.mysql.cj.jdbc.Driver  
# For mysql connector v5  
jdbc.driver=com.mysql.jdbc.Driver  
jdbc.url=jdbc:mysql://localhost:3306/smp  
jdbc.user=smp  
jdbc.password=secret123  
hibernate.dialect =org.hibernate.dialect.MySQL5InnoDBDialect  
/..
```

- Datasource configured on the application server

```
../  
hibernate.dialect=org.hibernate.dialect.Oracle10gDialect  
# weblogic datasource JNDI example  
# datasource.jndi=jdbc/edeliverySmpDS  
# tomcat datasource JNDI example  
datasource.jndi=java:comp/env/jdbc/edeliverySmpDS  
/..
```

8.2. SMP Keystore

eDelivery SMP uses keystore for storing keys for the two different purposes:

- One **mandatory** key is used for signing the responses to **GET** requests (XMLDSIG response signing)
- One **optional** key is used to authenticate SMP using 2-way-SSL when it is calling SML via HTTPS.

The keystore is automatically created, and a sample key is generated at the initial SMP start-up. The keystore can be managed with a System admin account using the UI under the page Domains/Edit keystore.

8.3. SMP Truststore

eDelivery SMP uses truststore for storing trusted X509Certificates for the WebService 2-way-SSL authentication and for storing the SML server certificate. The truststore is automatically created at the initial

SMP start-up. The truststore can be managed with a System admin account using the UI tools under the page Users/Edit truststore.

9. SMP .WAR FILE DEPLOYMENT

The eDelivery SMP is deployed using the steps described in the next sections.

9.1.1. Tomcat

Copy the `cef_edelivery/smp/temp/ smp-4.X.war` file to the Tomcat **webapps** directory (`cef_edelivery/webapps/smp.war`).

9.1.2. Oracle WebLogic

Deploy the **.war** file within WebLogic using the Oracle Weblogic deployer feature or using the Weblogic Administration Console.

An example of using the Oracle the **weblogic.deployer**, is shown below:

```
java weblogic.Deployer -adminurl
t3://${WebLogicAdminServerListenAddress}:${WebLogicAdminServerPort} \
-username ${WebLogicAdminUserName} \
-password ${WebLogicAdminUserPassword} \
-deploy -name smp.war \
-targets ${SMP_ManagedServer} \
-source $TEMP_DIR/ smp.war
```

9.1.3. Verification of the Installation

Verify the installation by navigating with your browser to the following address:

`http://[hostname]:[port]/smp`

If the deployment is successful, the following page is displayed:



10. CONFIGURING THE eDELIVERY SMP FOR USE WITH AN SML

The eDelivery SMP can be registered in an SML, using two identification mechanisms:

- Using HTTP and plain text with metadata embedded into the header of the REST request,
- Using HTTPS/TLS and a keystore containing a certificate.

10.1. Configuring the BDMSL Integration

The first step is to configure the SMP so that it can be used with an SML.

This is achieved by setting the database property: **bdmsl.integration.enabled** parameter to **true**, default is **false**.

```
Execute the following sql command for Oracle database:UPDATE
SMP_CONFIGURATION SET VALUE='true', LAST_UPDATED_ON=systemdate WHERE
PROPERTY='bdmsl.integration.enabled';
```

10.2. Configuring the SML URL

The configuration of the SML URL endpoint is achieved by configuring the **bdmsl.integration.url** property in the **smp.config.property** file as follows:

```
UPDATE SMP_CONFIGURATION SET VALUE= http://localhost:8080/edelivery-sml/,
LAST_UPDATED_ON=systemdate WHERE PROPERTY= bdmsl.integration.url';
```

10.3. SMP authentication to an SML

Once registered in an SML, the SMP needs to authenticate against the SML during normal operations. For authentication, the client key/certificate must be installed in the keystore and an alias defined for the domain. The configuration is either done using the eDelivery SMP Admin console (see also §17) or by entering the values directly into the database.

SML supports two ways of authentication

- BlueCoat: HTTP client certificate header. This is used behind a bluecoat reverse proxy.
- HTTPS/TLS: Standard mutual TLS authentication.

10.3.1. Plain Text HTTP

SML_CLIENT_CERT_HEADER contains the SMP certificate needed if accessing SML directly through HTTP. The configured "Client-Cert" HTTP header will be added to each SML request bypassing SSL certificate verification made normally by SSL terminators.

SML_CLIENT_CERT_HEADER is the configuration attribute (column) in the **SMP_DOMAIN** table described in section §16.2.2.

10.3.2. HTTPS/TLS

When using HTTPS/TLS, as mentioned in the **bdmsl.integration.url** covered earlier, the SML Certificate server must be stored in the truststore. And the SMP TLS client key/certificate must be added to the Keystore. The TLS client key/certificate can be assigned to the domain using the UI tools under the Domain page.

11. SMP USER MANAGEMENT

Only **Admin SMP** and Admin **ServiceGroup** users, who connect to the eDelivery SMP, need to be created in the SMP database.

Anonymous users or public users can access the SMP to retrieve only. They are not registered and therefore not added to the database.

There are no restrictions on the number of users that can be created to access the eDelivery SMP.

The database script creates the following users:

| User name | Role | Default password ² |
|-----------|---------------------|-------------------------------|
| system | SYSTEM_ADMIN | 123456 |
| smp | SMP_ADMIN | 123456 |
| user | SERVICE_GROUP_ADMIN | 123456 |

11.1. User Roles

The eDelivery SMP users can be of three types, as briefly described below:

| Actor | UC | Short description | Oper. | Data |
|---------------------|--------------------------------|---|--------|-----------------|
| Admin SMP | Create or Update Service Group | Create a new ServiceGroup for a new receiver participant. This service stores the Service Group and links it to the specified duplet participantIdentifier + participantIdentifierScheme. Information is stored into ServiceGroup table. This same service is used to create and update a ServiceGroup. | PUT | ServiceGroup |
| Admin SMP | Erase Service Group | Erases the service group definition AND the list of services for the specified receiver participant. | DELETE | ServiceGroup |
| Admin Service Group | Create or Update Service | Publish detailed information about one specific document service (multiple processes and endpoints). This same service is used to create and | PUT | ServiceMetadata |

² to change immediately for security reasons

| Actor | UC | Short description | Oper. | Data |
|---------------------|---------------------------|---|--------|-----------------------|
| | Metadata | update ServiceMetaData. | | |
| Admin Service Group | Erase Service Metadata | Remove all information about one specific service (i.e. all related processes and endpoints definitions). | DELETE | ServiceMetadata |
| User | Retrieve Service Group | Obtain the list of services provided by a specific receiver participant (collection of references to the ServiceMetaData's). This service provides the information related to the Service Group according to the input duplet participantIdentifier + participantIdentifierScheme. Returns information from the ServiceMetadata table only (references to actual MetaData). | GET | ServiceGroup |
| User | Retrieve Service Metadata | Obtain detailed definition about one specific service of a specific participant for all supported transports. This service retrieves the SignedServiceMetadata according to the input quadruplet participantIdentifier+participantIdentifierScheme+documentIdentifier+documentIdentifierScheme. Returns information from the Endpoint table. | GET | SignedServiceMetadata |
| System admin | | Create, modify and delete users and domains. System admin can be only used in the edelivery SMP UI. | | |

Note: For a complete description of the SMP user management, please consult the SMP Interface Control Document (ICD) document available at <https://ec.europa.eu/digital-building-blocks/wikis/display/DIGITAL/SMP>.

Users can be added, modified and deleted using the SMP Admin console or directly by executing sql commands. Below are instructions on how to modify users in the database.

11.2. BCrypt password generation

Since SMP 4.1.x users can be managed by SMP Admin console. Following procedure can be used for creating first system user.

The SMP v4.X uses the BCrypt algorithm to hash users' passwords. A BCrypt-hashing tool is bundled into the SMP WAR file. To get the hashing code, follow the steps below.

Place a copy of the **smp-4.X.war** file into a temporary directory of your choice.

Extract the war file using the **jar** command:

```
jar -xvf smp-4.X.war
```

Obtain one or multiple hashes at once, using the following command:

```
java -cp "WEB-INF/lib/*"
eu.europa.ec.edelivery.smp.utils.BCryptPasswordHash password_to_be_hashed
```

The result will be a BCrypt hash of the specified password (listed below in italic):

```
java -cp "WEB-INF/lib/*"
eu.europa.ec.edelivery.smp.utils.BCryptPasswordHash 123456
Gives:
$2a$10$6nYTSUSh2BQfb0LIyCXn8eUViBcnn.WcjUrW0tJLMND0dAtI85zMa
```

The next command shows the hashing of several passwords at once, separated by a space in the command.

```
java -cp "WEB-INF/lib/*" eu.europa.ec.edelivery.smp.BCryptPasswordHash
password_to_be_hashed_1 password_to_be_hashed_2
$2a$10$6nYTSUSh2BQfb0LIyCXn8eUViBcnn.WcjUrW0tJLMND0dAtI85zMa
$2a$10$7zNzSeZpxiHeqY2BRKkHE.HknfIe3aiu6XzU.qHHnnPbUHKTfcmDG
```

11.3. SMP Database User Creation

Adding an SMP user is done by adding a new entry in the SMP database **SMP_USER** table either directly or via the Administration console.

The User role is set in the SMP_USER table ROLE column as follows:

| User Role | Role value |
|---|---------------------|
| Admin SMP | SMP_ADMIN |
| Admin Service Group | SERVICE_GROUP_ADMIN |
| System Administrator | SYSTEM_ADMIN |
| AnonymousUser (Not defined in the SMP User database) | N/A |

In the following two examples, an **Admin SMP** and an **Admin ServiceGroup** users are created.

11.3.1. SYSTEM ADMIN SMP User creation

Remark:

- In order to logon on the Administration Console **for the first time**, it is necessary to, first create a user with **SYSTEM_ADMIN** privileges by entering the details directly into the **SMP_USER** table. This initial user's password is generated using the **BCRYPT** utility described previously.

- *If `PASSWORD_CHANGED` is not set, the user will be asked to change the password at first logon.*

Example of a `SYSTEM_ADMIN` user creation:

Username : `smp_admin`

Password (Hashed) : `$2a$10$6nYTSUS2BQfbOLlyCXn8eUViBcnn.WcjUrWotJIMNDOdAtI85zMa`

Role : `SYSTEM_ADMIN`

Execute the following database command using the database user/password created in the Database Configuration section of this guide.

MySQL example:

```
INSERT into SMP_USER (ID, USERNAME, PASSWORD, ROLE, ACTIVE,
CREATED_ON, LAST_UPDATED_ON, PASSWORD_CHANGED) values ((select max(next_val) from
SMP_USER_SEQ), 'smp_admin',
'$2a$10$oLcGeWKGEoRia2DPuFqRNeca0IEdRSmOrLjLz57BAjf1j1c9SohrS',
'SYSTEM_ADMIN', 1, SYSDATE(), SYSDATE(), SYSDATE() );
update SMP_USER_SEQ set next_val=next_val+1;
```

Oracle example:

```
SQL> INSERT into SMP_USER (ID, USERNAME, PASSWORD, ROLE, ACTIVE,
CREATED_ON, LAST_UPDATED_ON) values (SMP_USER_SEQ.NEXTVAL, 'smp_user',
'$2a$10$oLcGeWKGEoRia2DPuFqRNeca0IEdRSmOrLjLz57BAjf1j1c9SohrS',
'SYSTEM_ADMIN', 1, SYSDATE, SYSDATE );
update SMP_USER_SEQ set next_val=next_val+1;
```

11.3.2. Admin SMP User Creation

Username : smp_user1
 Password (Hashed) : \$2a\$10\$6nYTSUSH2BQfbOLlyCXn8eUViBcnn.WcjUrWotJIMNDOdAtI85zMa
 IsAdmin : SERVICE_GROUP_ADMIN

Example: Oracle database command.

```
SQL> insert into smp_user (ID, username, password, ROLE, ACTIVE,
CREATED_ON, LAST_UPDATED_ON) values (SMP_USER_SEQ.NEXTVAL, 'smp_user1',
'$2a$10$6nytsush2bqfboliycxn8euvibcnn.wcjurwotjlmndodati85zma',
'SMP_ADMIN', 1, SYSDATE, SYSDATE);
```

11.3.3. Admin ServiceGroup User Creation

Username : smp_user2
 Password (Hashed) : \$2a\$10\$6nYTSUSH2BQfbOLlyCXn8eUViBcnn.WcjUrWotJIMNDOdAtI85zMa
 IsAdmin : SERVICE_GROUP_ADMIN

Example: Oracle database command.

```
SQL> insert into smp_user (ID, username, password, ROLE, ACTIVE,
CREATED_ON, LAST_UPDATED_ON) values (SMP_USER_SEQ.NEXTVAL, 'smp_user1',
'$2a$10$6nytsush2bqfboliycxn8euvibcnn.wcjurwotjlmndodati85zma',
'SERVICE_GROUP_ADMIN', 1, SYSDATE, SYSDATE);
```

12. LOGGING CONFIGURATION

12.1. Logging properties

The SMP logging properties are defined in the `./WEB-INF/classes/logback.xml` file embedded in the SMP `.war` file.

It is possible to modify the configuration of the logs by editing the embedded `logback.xml` or by defining new logback file in `smp.config.properties` file as example:

```
log.configuration.file=/opt/apache-tomcat-8.5.30/smp/logback.xml
```

In the example below, a `logback.xml` file is shown:

```
<?xml version="1.0" encoding="UTF-8"?>
<configuration>
  <!-- pattern definition -->
  <property name="encoderPattern" value="%d{ISO8601} [%X{smp_user}] [%X{smp_session_id}] [%X{smp_request_id}] [%thread] %5p %c{1}:%L - %m%n" scope="global"/>
  <property name="consolePattern" value="%d{ISO8601} [%X{smp_user}] [%X{smp_session_id}] [%X{smp_request_id}] [%thread] %5p %c{1}:%L - %m%n" scope="global"/>

  <appender name="file" class="ch.qos.logback.core.rolling.RollingFileAppender">
    <file>${log.folder:-logs}/edelivery-smp.log</file>
    <filter class="ch.qos.logback.core.filter.EvaluatorFilter">
      <evaluator class="ch.qos.logback.classic.boolex.OnMarkerEvaluator">
        <marker>SECURITY</marker>
        <marker>BUSINESS</marker>
      </evaluator>
      <onMismatch>NEUTRAL</onMismatch>
      <onMatch>DENY</onMatch>
    </filter>
    <rollingPolicy class="ch.qos.logback.core.rolling.SizeAndTimeBasedRollingPolicy">
      <!-- rollover daily -->
      <fileNamePattern>${log.folder:-logs}/edelivery-smp-%d{yyyy-MM-dd}.%i.log</fileNamePattern>
      <!-- each file should be at most 30MB, keep 60 days worth of history, but at most 20GB -->
      <maxFileSize>30MB</maxFileSize>
      <maxHistory>60</maxHistory>
      <totalSizeCap>20GB</totalSizeCap>
    </rollingPolicy>
    <encoder>
      <pattern>${encoderPattern}</pattern>
    </encoder>
  </appender>
  <appender name="stdout" class="ch.qos.logback.core.ConsoleAppender">
    <target>System.out</target>
    <encoder>
      <pattern>${consolePattern}</pattern>
    </encoder>
  </appender>

  <logger name="eu.europa.ec.edelivery.smp" level="INFO" />
  <logger name="org.springframework.security.cas" level="DEBUG" />
  <root level="DEBUG">
    <appender-ref ref="file"/>
    <appender-ref ref="stdout"/>
  </root>
</configuration>
```

More details on how to configure logback can be found at:

<https://logback.qos.ch/documentation.html>

13. SOAPUI TESTING

Soap UI can be used to create, update and delete Service Groups and Metadata.

An SMP SoapUI project contains sample requests and is included in the zip file already downloaded.

The procedure to create, update or delete a Service Group is described in the next steps.

13.1. Creation, update and deletion of Service Groups.

13.1.1. Create a Service Group

In the left navigation pane of the SoapUI interface, browse to the REST PUT method as shown below:

The screenshot displays the SoapUI 5.4.0 interface. On the left, the Navigator pane shows a project structure with 'SMP 4.0 Sample Requests' expanded to 'UC02 - PUT' and 'simple request' selected. The main workspace shows the configuration for this request:

- Method:** PUT
- Endpoint:** http://localhost:8080/smp
- Resource:** /{ParticipantIdentifierScheme}

The 'Raw Request' tab is active, showing the following XML payload:

```
<?xml version="1.0" encoding="UTF-8" standalone="no" ?>
<ServiceGroup xmlns="http://docs.oasis-open.org/bdxx/ns/SMP/2016/05">
  <ParticipantIdentifier scheme="{=request.getProperty('ParticipantIdentifierScheme')}" />
  <ServiceMetadataReferenceCollection />
</ServiceGroup>
```

At the bottom left, the 'Request Properties' tab is visible, showing the following details:

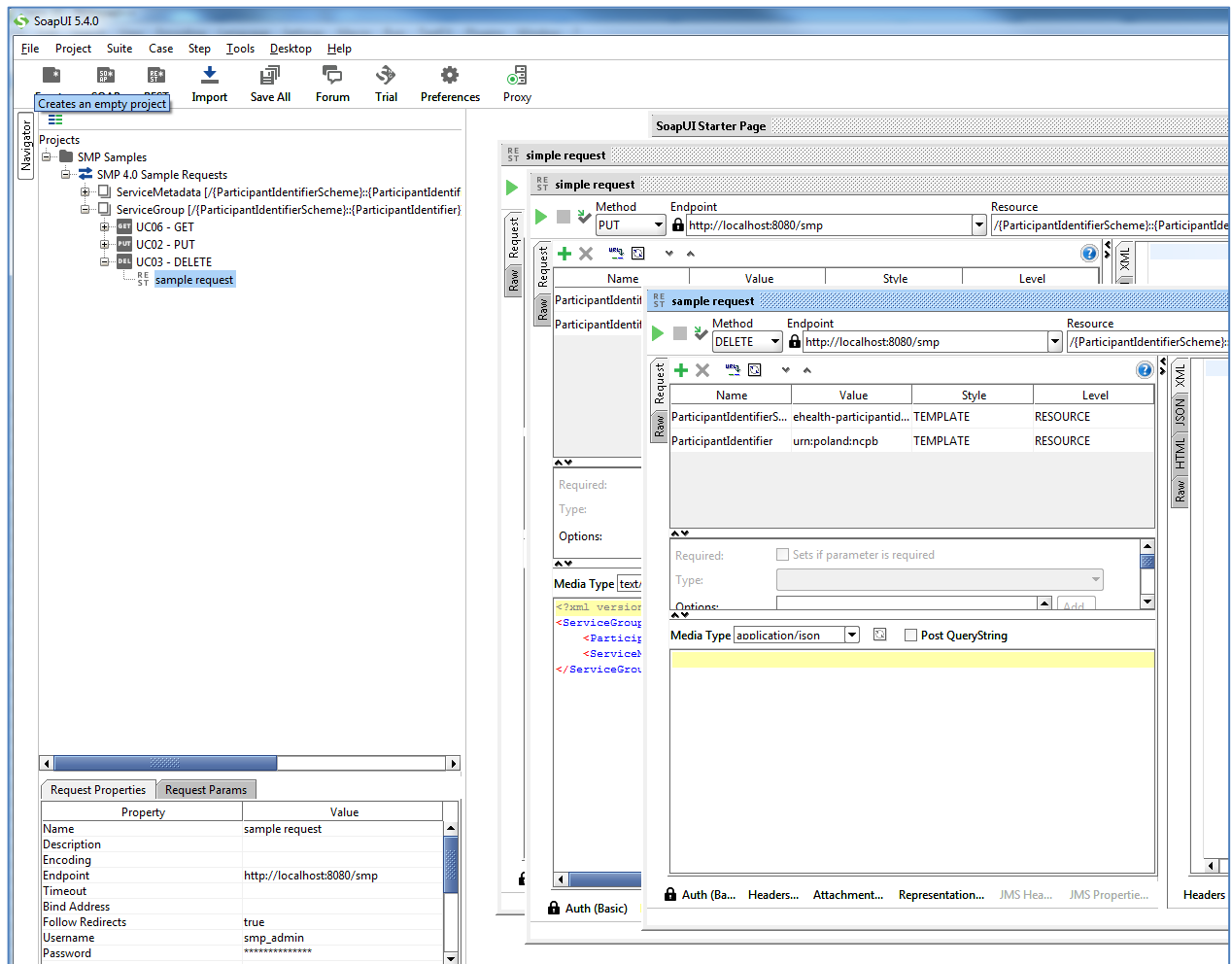
| Property | Value |
|------------------|---------------------------|
| Name | simple request |
| Description | |
| Encoding | UTF-8 |
| Endpoint | http://localhost:8080/smp |
| Timeout | |
| Bind Address | |
| Follow Redirects | true |
| Username | smp_admin |
| Password | ***** |

13.1.2. [Update a Service Group](#)

The REST method to update the **ServiceGroup** is the same as the one used for creating **ServiceGroup** described in the previous section.

13.1.3. [Delete a ServiceGroup](#)

On the SoapUI interface on the left navigation panel, browse to the REST DELETE method as indicated below:



13.2. Creation, update and deletion of Service Metadata.

13.2.1. [Create a Service Metadata](#)

In the left navigation pane of the SoapUI interface, browse to the REST PUT method as shown below:

The screenshot displays the SoapUI 5.4.0 interface. On the left, the Navigator shows a project structure with 'SMP 4.0 Sample Requests' containing 'UC04 - PUT' and 'simple request'. The main window shows a REST client configuration for a PUT request to 'http://localhost:8080/smp'. The 'Request Params' table is as follows:

| Property | Value |
|------------------|---------------------------|
| Name | simple request |
| Description | |
| Encoding | UTF-8 |
| Endpoint | http://localhost:8080/smp |
| Timeout | |
| Bind Address | |
| Follow Redirects | true |
| Username | smp_admin |
| Password | ***** |

The main request editor shows the following XML content:

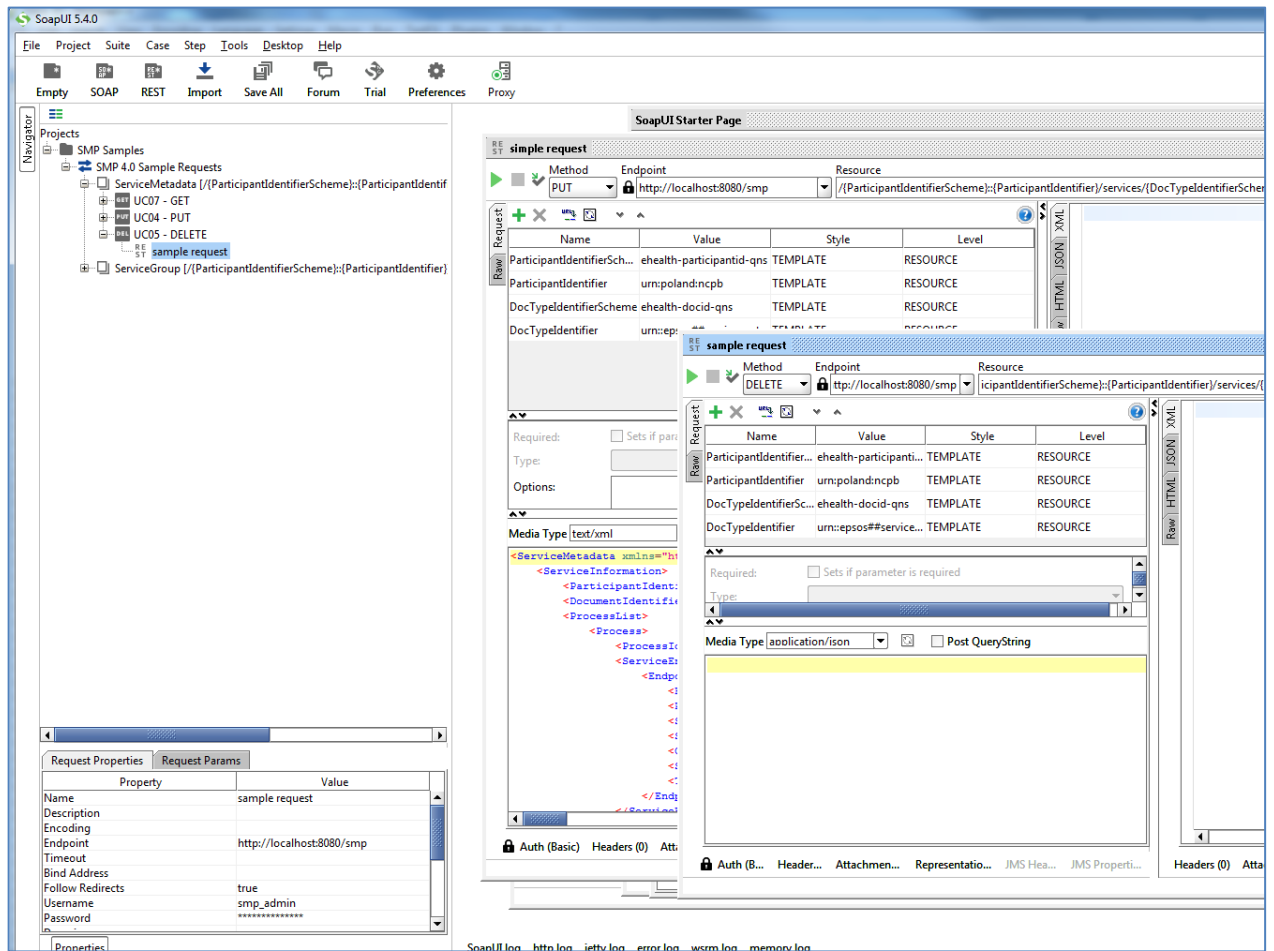
```
<ServiceMetadata xmlns="http://docs.oasis-open.org/bdxx/ns/SMP/2016/05">
  <ServiceInformation>
    <ParticipantIdentifier scheme="{=request.getProperty('ParticipantIdentifierScheme)}" value="urn:poland:ncpb" />
    <DocumentIdentifier scheme="{=request.getProperty('DocTypeIdentifierScheme)}" value="urn:epsos##services:ext..." />
    <ProcessList>
      <Process>
        <ProcessIdentifier scheme="cenbii-procid-ubl" value="urn:www.cenbii.e" />
      </Process>
    </ProcessList>
    <ServiceEndpointList>
      <Endpoint transportProfile="busdox-transport-start">
        <EndpointURI>https://poland.pl/theService/</EndpointURI>
        <RequireBusinessLevelSignature>true</RequireBusinessLevelSignature>
        <ServiceActivationDate>2003-01-01T00:00:00</ServiceActivationDate>
        <ServiceExpirationDate>2020-05-01T00:00:00</ServiceExpirationDate>
        <Certificate>MIICUTCCAbggAwIBAgIEWwKkxkANBgkqhkiG9w0BAQsF...</Certificate>
        <ServiceDescription>Sample description of invoicing se</ServiceDescription>
        <TechnicalContactUrl>https://example.com/</TechnicalContactUrl>
      </Endpoint>
    </ServiceEndpointList>
  </ServiceMetadata>
```

13.2.2. Update Service Metadata

The REST method to update **ServiceMetadata** is the same as the one use for creating **ServiceMetadata** as described in the previous section.

13.2.3. Delete Service Metadata

In the left navigation pane of the SoapUI interface, browse to the **REST DELETE** method as indicated below:



14. THE SWAGGERUI INTERFACE

14.1. Introduction

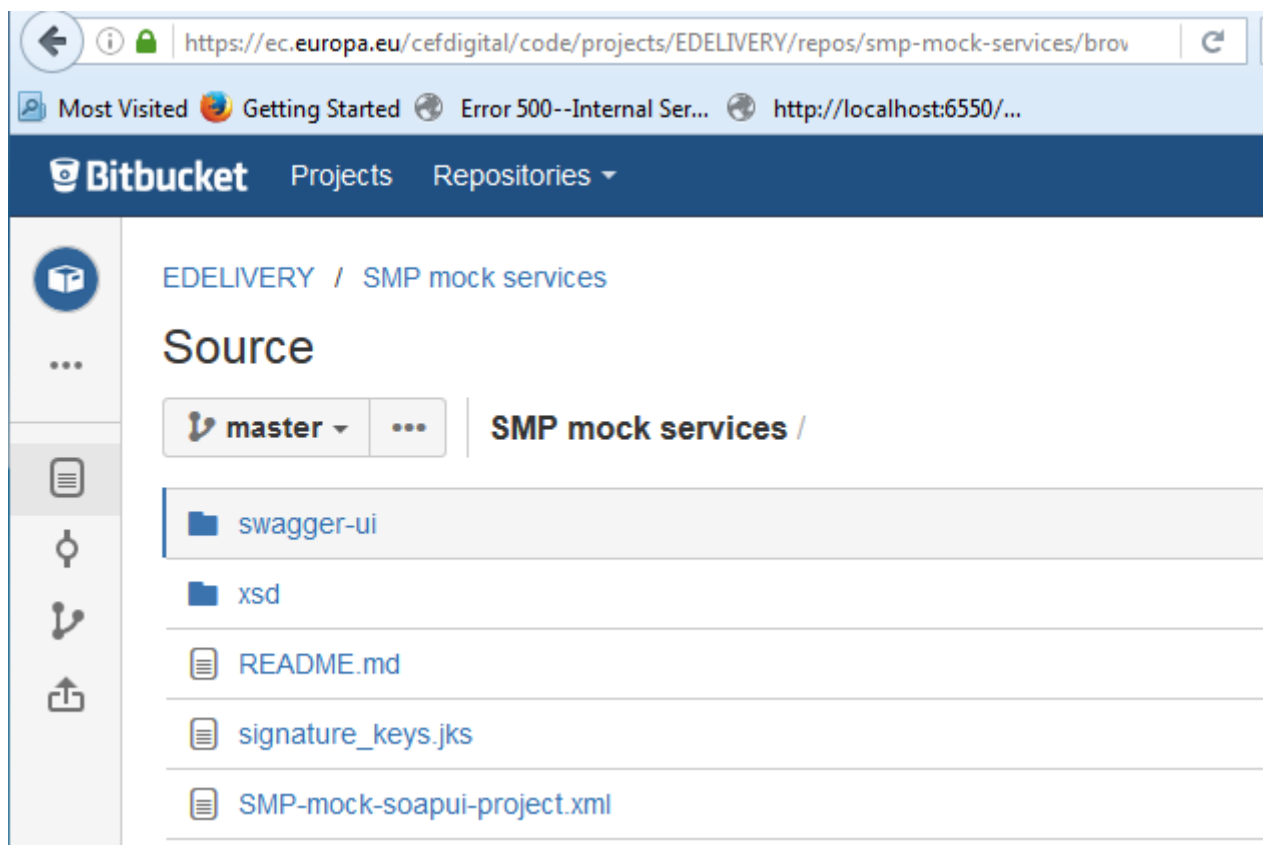
"Swagger is an API developer tools for the OpenAPI Specification (OAS). It allows anyone (developers or end-users) to interact with the API's resources"³.

The SMP Web Client can be tested at: <http://130.206.118.4/smp-swagger-ui> and, as explained, is a WEB client configured to shoot (PUT, GET or DELETE) at the mocked SMP implementation Metadata.

14.2. Downloading the eDelivery SMP SwaggerUI web application project

The eDelivery SMP SwaggerUI web application project can be freely downloaded from the following location:

<https://ec.europa.eu/digital-building-blocks/code/projects/EDELIVERY/repos/smp-mock-services/browse>



Create a new **swagger_temp** temporary directory.

Within the previously created **swagger_temp** directory, execute the following command:

³ Quote from: <http://swagger.io/>.

```
git clone https://ec.europa.eu/cefdigital/code/scm/edelivery/smp-mock-
services.git
Cloning into 'smp-mock-services'...
remote: Counting objects: 133, done.
remote: Compressing objects: 100% (130/130), done.
remote: Total 133 (delta 50), reused 0 (delta 0)
Receiving objects: 100% (133/133), 823.54 KiB | 0 bytes/s, done.
Resolving deltas: 100% (50/50), Done.
```

The SMP **SwaggerUI** project is downloaded and saved the **smp-mock-services** directory:

```
ls
smp-mock-services
```

14.3. Configuring the SMP SwaggerUI

Navigate to the **swagger-ui** directory located under the **smp-mock-services** directory.

The contents is listed below:

```
ls
css  fonts  images  index.html  lib  smp.json  swagger-ui.js
```

Edit the **smp.json** file and modify it to target your SMP:

Replace:

```
{
  "swagger": "2.0",
  "info": {
    "description": "This WEB client is configured to shoot at the [mocked SMP
implementation](http://smp-digit-
mock.publisher.ehealth.acc.edelivery.tech.ec.europa.eu/ehealth-actorid-
qns%3A%3Aurn%3Apoland%3Ancpb). After a few improvements (both on client and
server side) it might be used also for shooting at TEST / PROD environments. You
can find out more about Swagger at [http://swagger.io](http://swagger.io)",
    "version": "1.0.0",
    "title": "SMP 3.X WEB client (based on Swagger-UI)"
  },
  "host": "smp-digit-mock.publisher.ehealth.acc.edelivery.tech.ec.europa.eu",
  "basePath": "/",
  "externalDocs": {
    "description": "Find out more about SMP 3.X mock services",
```

With:

```
"url": "https://ec.europa.eu/cefdigital/code/projects/EDELIVERY/repos/smp-
mock-services"
{
  "swagger": "2.0",
  "info": {
    "description": "This WEB client is configured to shoot at
[http://localhost:7003/ smp-4.X](http://localhost:7003/ smp-4.X). After a few
improvements (both on client and server side) it might be used also for shooting
at TEST / PROD environments. You can find out more about Swagger at
[http://swagger.io](http://swagger.io)",
    "version": "1.0.0",
    "title": "SMP 4.X WEB client (based on Swagger-UI)"
  },
  "host": "localhost:7003",
  "basePath": "/ smp-4.X",
  "externalDocs": {
  },
}
```

14.4. Generating the Web Application Archive (.war file)

To generate the eDelivery SMP SwaggerUI Web Application archive (.war file), just create a zip file of the content of the swagger-ui directory and rename it as **swagger.war**.

This can be performed using any **zip** utility (**winzip** on Windows or **zip** on Linux).

Example on Linux:

```
zip -r swagger.war swagger-ui/*
```

14.5. Deploy the SMP SwaggerUI war file

14.5.1. On Tomcat

Copy the **swagger.war** file to *cef_edelivery_path* /webapps.

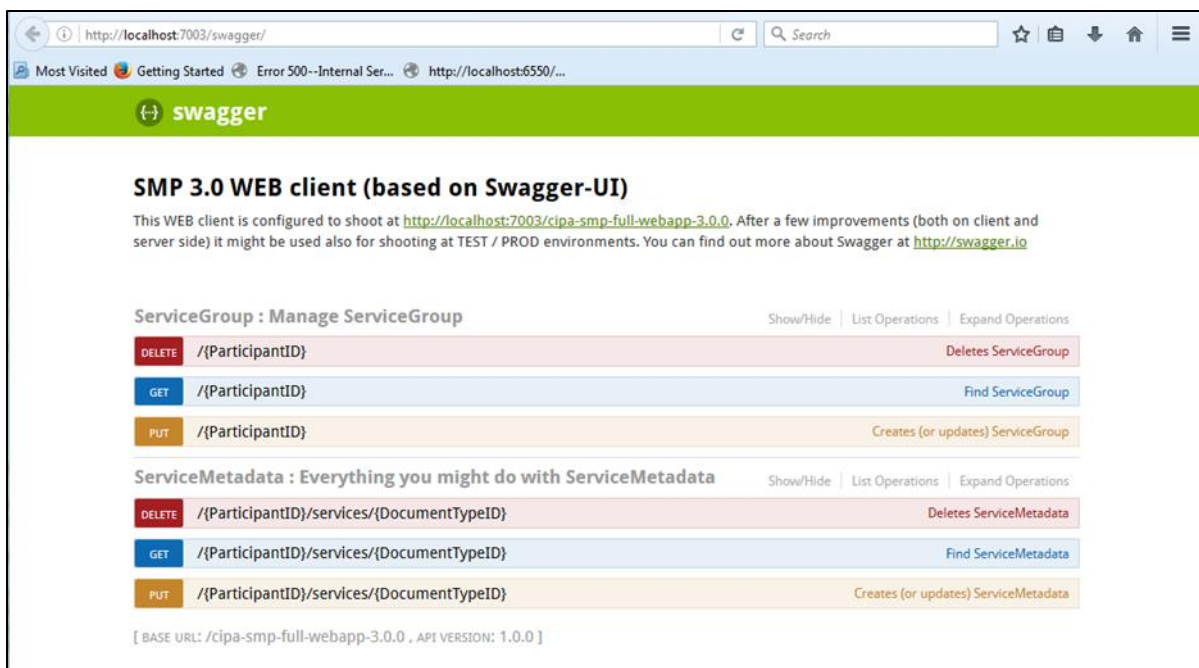
14.5.2. On WebLogic:

Deploy the `.war` file within WebLogic:

```
java weblogic.Deployer -adminurl
t3://${WebLogicAdminServerListenAddress}:${WebLogicAdminServerPort} \
-username ${WebLogicAdminUserName} \
-password ${WebLogicAdminUserPassword} \
-deploy -name swagger.war \
-targets ${SMP_ManagedServer} \
```

After starting the application, connect to <http://localhost:7003/swagger>.

A successful deployment should display the following page:



swagger

SMP 3.0 WEB client (based on Swagger-UI)

This WEB client is configured to shoot at <http://localhost:7003/cipa-smp-full-webapp-3.0.0>. After a few improvements (both on client and server side) it might be used also for shooting at TEST / PROD environments. You can find out more about Swagger at <http://swagger.io>

ServiceGroup : Manage ServiceGroup Show/Hide | List Operations | Expand Operations

| | | |
|--------|------------------|-----------------------------------|
| DELETE | /{ParticipantID} | Deletes ServiceGroup |
| GET | /{ParticipantID} | Find ServiceGroup |
| PUT | /{ParticipantID} | Creates (or updates) ServiceGroup |

ServiceMetadata : Everything you might do with ServiceMetadata Show/Hide | List Operations | Expand Operations

| | | |
|--------|--|--------------------------------------|
| DELETE | /{ParticipantID}/services/{DocumentTypeID} | Deletes ServiceMetadata |
| GET | /{ParticipantID}/services/{DocumentTypeID} | Find ServiceMetadata |
| PUT | /{ParticipantID}/services/{DocumentTypeID} | Creates (or updates) ServiceMetadata |

[BASE URL: /cipa-smp-full-webapp-3.0.0 , API VERSION: 1.0.0]

15. SMP COMPILATION

15.1. Compilation prerequisites

15.1.1. Supported Operating System Platform

The eDelivery SMP can be built on the following OS platforms:

- Windows Workstation & Server
- Linux platform

15.1.2. Software Requirements

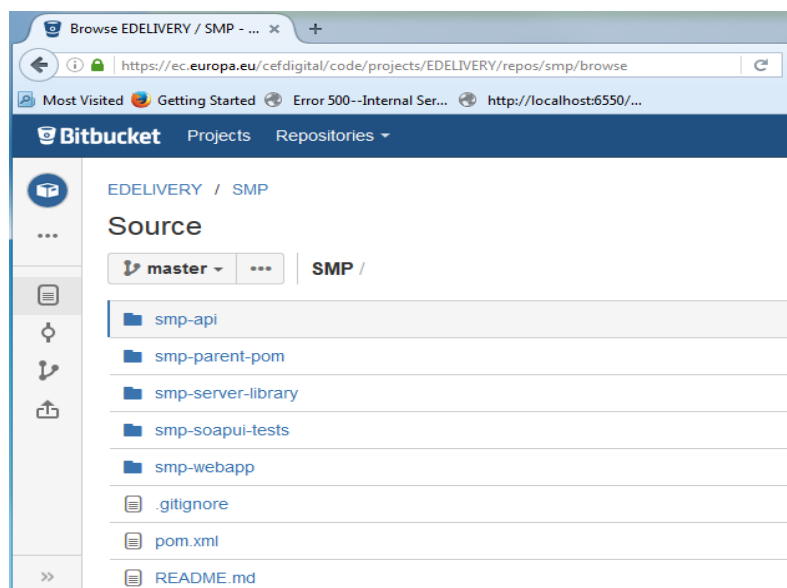
The following software components on the target system:

- Java Development Kit environment (JDK), version 7 or 8:
<http://www.oracle.com/technetwork/java/javase/downloads/index.html>
- Maven 3.0 and above (<https://maven.apache.org/download.cgi>)
- GIT (optional: Git is only used to download the project sources but these sources can be downloaded from any system having Git installed and then just copied manually on the compilation platform).

15.2. Downloading the source code

The source code of SMP is freely available and can be downloaded from the following location:

<https://ec.europa.eu/digital-building-blocks/code/projects/EDELIVERY/repos/smp/browse>



15.3. Compilation

Create a new **comp_dir** temporary directory.

Within the previously created **comp_dir** directory, execute the following command:

```
git clone https://ec.europa.eu/digital-building-
blocks/code/scm/edelivery/smp.git
Cloning into 'smp'...
remote: Counting objects: 52788, done.
remote: Compressing objects: 100% (15640/15640), done.
remote: Total 52788 (delta 25293), reused 47993 (delta 23387)
Receiving objects: 100% (52788/52788), 637.14 MiB | 2.06 MiB/s, done.
Resolving deltas: 100% (25293/25293), done.
```

Go to the newly created **smp** directory.

The directory contains the following:

```
ls
pom.xml  README.md  smp-api  smp-parent-pom  smp-server-library  smp-soapui-
tests  smp-webapp
```

Start the compilation by executing the following command:

```
mvn clean install -DskipTests
```

A successful compilation will result with the following:

```
mvn clean install -DskipTests
[INFO] Scanning for projects...
/..
../
[INFO] Installing /home/smpcomp/smp/smp/pom.xml to
/home/smpcomp/.m2/repository/eu/europa/ec/smp/3.X/smp-3.X.pom
[INFO] -----
[INFO] Reactor Summary:
[INFO]
[INFO] smp-angular ..... SUCCESS [132.375 s]
[INFO] smp-api ..... SUCCESS [ 32.375 s]
[INFO] smp-server-library ..... SUCCESS [02:01 min]
[INFO] smp-webapp ..... SUCCESS [ 23.314 s]
[INFO] SMP Builder POM ..... SUCCESS [ 2.222 s]
[INFO] -----
```



```
[INFO] BUILD SUCCESS
```

```
[INFO] -----
```

```
[INFO] Total time: 03:00 min
```

```
[INFO] Finished at: 2017-06-08T11:35:27+02:00
```

```
[INFO] Final Memory: 61M/726M
```

```
[INFO] -----
```

The resulting will be a Web application Archive (.war file) named **smp.war** located in the **smp-webapp/target/** directory:

```
ls ./smp-webapp/target
```

```
smp-4.X  smp.war  classes  generated-sources  generated-test-sources  maven-  
status  test-classes  webapp-classes
```

16. SMP CONFIGURATION FILE AND TABLE

16.1. Multitenancy and Multidomain Support

The SMP is able to support multiple certificates in the same SMP. This is very useful in the Acceptance environment where multiple domains like ISA ITB, eHealth and others are hosted.

The SMP has the capability of keeping a relationship between a particular **Service Group** and its related **domain**.

As a result of this feature, the SMP Administration has the option, if need be, to define extra domains for newly created **Service Groups** meaning that the SMP is able to handle multiple domains environments.

Remark:

*In normal circumstances, when any one SMP is used for only one Domain, the domain used is then considered as the "domain by default" (or "default domain") for configuration purposes. The domain, in this case, does not need to be specified in the **Service Group** definitions or other configurations of the SMP as in previous versions of SMP.*

The SMP configuration is performed in 2 different locations: in the **smp.config.properties** file as well as in the **smp_configuration** table. The following section describes the details of the parameters that are included in the configuration.

16.2. The smp.config.properties file

The eDelivery SMP configuration is performed via the **smp.config.properties** file.

The initial eDelivery SMP configuration is performed via the **smp.config.properties** file. The file contains basic configuration for defining the database connection, logging file configuration and smp folder for deploying the extensions.

This file is delivered by default embedded within the SMP war file.

```
#
# Copyright 2018 European Commission | CEF eDelivery
#
# Licensed under the EUPL, Version 1.2 or - as soon they will be approved
# by the European Commission - subsequent versions of the EUPL (the
# "Licence");
# You may not use this work except in compliance with the Licence.
#
# You may obtain a copy of the Licence attached in file: LICENCE-EUPL-
# v1.2.pdf
#
```

```
# Unless required by applicable law or agreed to in writing, software
distributed under the Licence is distributed on an "AS IS" basis,
# WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
# See the Licence for the specific language governing permissions and
limitations under the Licence.
#
#
*****
# Database connection can be achieved using custom datasource
configuration
# or reusing application server datasource.
#
*****
## set database hibernate dialect
#hibernate.dialect=org.hibernate.dialect.Oracle10gDialect
hibernate.dialect=org.hibernate.dialect.MySQL5InnoDBDialect
# *****
# Custom defined datasource
# *****
# mysql database example
jdbc.driver = com.mysql.jdbc.Driver
jdbc.url = jdbc:mysql://localhost:3306/smp
jdbc.user = smp
jdbc.password=secret123
# Oracle database example
#jdbc.driver = oracle.jdbc.driver.OracleDriver
#jdbc.url=jdbc:oracle:thin:@localhost:1521/xe
#jdbc.user=smp
#jdbc.password=secret123
# *****
# Datasource JNDI configuration alternative
# *****
# weblogic datasource JNDI example
# datasource.jndi=jdbc/eDeliverySmpDs
```

```
# tomcat datasource JNDI example
# datasource.jndi=java:comp/env/jdbc/eDeliverySmpDs

# *****

# Logging properties
# *****

# smp log folder
log.folder=../logs/

# custom log4j configuration file
# log.configuration.file=smp-logback.xml

# *****

# Extension folder
# *****

# path where SMP extensions are located. The Folder is loaded by the SMP
classloader at startup.
libraries.folder=/cef/test/smp/apache-tomcat-8.5.73/smp/ext-lib
```

16.2.1. SMP configuration properties (smp.config.properties)

The **WEB-INF/classes/smp.config.properties** file is used to configure initial SMP properties needed for the SMP startup.

The following table describes them briefly:

| Parameter | Default Value | Comment |
|-----------------|---------------------------------|--|
| jdbc.driver | com.mysql.jdbc.Driver | Database Configuration: Driver MySQL: com.mysql.jdbc.Driver Oracle Database: oracle.jdbc.OracleDriver |
| jdbc.url | jdbc:mysql://localhost:3306/smp | Database Configuration: url MySQL : jdbc:mysql://dbhost:dbport/smp_database Oracle Database: jdbc:oracle:thin:@dbhost:dbport:smp_database jdbc:oracle:thin:@dbhost:dbport/smp_service |
| jdbc.user | smp | Database User/Password Configuration: User |
| jdbc.password | The_password | Database User/password Configuration: Password |
| target-database | MySQL | Target Database Backend type/Brand: For MySQL, use: MySQL For Oracle Database, use: Oracle |

| Parameter | Default Value | Comment |
|---------------------------|------------------------------|--|
| jdbc.read-connections.max | 10 | Database Configuration: Max Read Connection |
| datasource.jndi | jdbc/eDeliverySmpDs | If the data source is configured on the application server (recommended), the property defines the JNDI name of the database connection. |
| log.folder | /var/logs/smp | The provided logback.xml configuration defines logging file as <file>\${log.folder:-logs}/edelivery-smp.log</file> With the property we can define the folder for the logging files. |
| log.configuration.file | /opt/logging/smp-logback.xml | custom logback configuration file (filepath can be absolute or relative to smp configuration.dir. |
| libraries.folder | /opt/smp/extension-libs | Path where SMP extensions are located. The Folder is loaded by the SMP classloader at startup. |
| | | |

16.2.2. SMP application configuration (database table SMP_CONFIGURATION)

eDelivery SMP application configuration values are stored in the database table **SMP_CONFIGURATION**. If the table is empty (usually at first SMP startup), edelivery SMP populates the table at startup with all properties and default values. When updating properties via the user interface, the property values are taken into account immediately if the server starts in non-cluster mode (property: **smp.cluster.enabled = false**). Otherwise, each node refreshes the properties on all cluster nodes at the same time) according to the property refreshes the cron expression in the property: **smp.property.refresh.cronJobExpression**.

| Parameter | Default Value | Comment | Restart needed | Value type |
|---|---------------------|---|----------------|------------|
| contextPath.output | true | This property controls pattern of URLs produced by SMP in GET ServiceGroup responses. | true | BOOLEAN |
| encodedSlashesAllowedInUrl | true | Allow encoded slashes in context path. Set to true if slashes are part of identifiers. | true | BOOLEAN |
| smp.http.forwarded.headers.enabled | false | Use (value true) or remove (value false) forwarded headers! There are security considerations for forwarded headers since an application cannot know if the headers were added by a proxy, as intended, or by a malicious client. | false | BOOLEAN |
| smp.http.httpStrictTransportSecurity.maxAge | 31536000 | How long (in seconds) HSTS should last in the browser's cache (default one year) | true | INTEGER |
| smp.http.header.security.policy | | Content Security Policy (CSP) default-src 'self'; script-src 'self'; connect-src 'self'; img-src 'self'; style-src 'self' 'unsafe-inline'; frame-ancestors 'self'; form-action 'self'; | true | STRING |
| smp.proxy.host | | The http proxy host | false | STRING |
| smp.noproxy.hosts | localhost 127.0.0.1 | list of nor proxy hosts. Ex.: localhost 127.0.0.1 | false | STRING |
| smp.proxy.password | | Base64 encrypted password for Proxy. | false | STRING |
| smp.proxy.port | 80 | The http proxy port | false | INTEGER |

| Parameter | Default Value | Comment | Restart needed | Value type |
|---|---|---|----------------|-------------|
| smp.proxy.user | | The proxy user | false | STRING |
| identifiersBehaviour.ParticipantIdentifierScheme.validationRegex | ^\$ ^(?!^.{26})([a-z0-9]+-[a-z0-9]+-[a-z0-9]+)\$ ^urn:oasis:names:tc:ebcore:partyid-type:(iso6523 unregistered)(.+)?\$ | Participant Identifier Schema of each PUT ServiceGroup request is validated against this schema. | false | REGEXP |
| identifiersBehaviour.ParticipantIdentifierScheme.validationRegexMessage | Participant scheme must start with:urn:oasis:names:tc:ebcore:partyid-type:(iso6523: unregistered:) OR must be up to 25 characters long with form [domain]-[identifierArea]-[identifierType] (ex.: 'busdox-actorid-upis') and may only contain the following characters: [a-z0-9]. | Error message for UI | false | STRING |
| identifiersBehaviour.scheme.mandatory | true | Scheme for participant identifier is mandatory | false | BOOLEAN |
| identifiersBehaviour.ParticipantIdentifierScheme.ebCoreId.concatenate | false | Concatenate ebCore party id in XML responses <ParticipantIdentifier>urn:oasis:names:tc:ebcore:partyid-type:unregistered:test-ebcore-id</ParticipantIdentifier> | false | BOOLEAN |
| identifiersBehaviour.caseSensitive.ParticipantIdentifierSchemes | sensitive-participant-sc1 sensitive-participant-sc2 | Specifies schemes of participant identifiers that must be considered CASE-SENSITIVE. | false | LIST_STRING |
| identifiersBehaviour.caseSensitive.DocumentIdentifierSchemes | casesensitive-doc-scheme1 casesensitiv | Specifies schemes of document identifiers that must be considered CASE-SENSITIVE. | false | LIST_STRING |

| Parameter | Default Value | Comment | Restart needed | Value type |
|--|-------------------------------------|---|----------------|------------|
| | e-doc-scheme2 | | | |
| bdmsl.integration.enabled | false | BDMSL (SML) integration ON/OFF switch | false | BOOLEAN |
| bdmsl.participant.multidomain.enabled | false | Set to true if SML support participant on multidomain | true | BOOLEAN |
| bdmsl.integration.url | http://localhost:8080/edelivery-sml | BDMSL (SML) endpoint | false | URL |
| bdmsl.integration.tls.disableCNCheck | false | If SML Url is HTTPS - Disable CN check if needed. | false | BOOLEAN |
| bdmsl.integration.tls.serverSubjectRegex | .* | Regular expression for server TLS certificate subject verification CertEx. .*CN=acc.edelivery.tech.ec.europa.eu.* | false | REGEXP |
| bdmsl.integration.logical.address | http://localhost:8080/smp/ | Logical SMP endpoint which will be registered on SML when registering new domain | false | URL |
| bdmsl.integration.physical.address | 0.0.0.0 | Physical SMP endpoint which will be registered on SML when registering new domain. | false | STRING |
| smp.keystore.password | | Encrypted keystore (and keys) password | false | STRING |
| smp.keystore.filename | smp-keystore.jks | Keystore filename | false | FILENAME |
| smp.truststore.password | | Encrypted truststore password | false | STRING |
| smp.truststore.filename | | Truststore filename | false | FILENAME |
| smp.certificate.crl.force | false | If false, then if CRL is not reachable ignore CRL validation | false | BOOLEAN |
| configuration.dir | smp | Path to the folder containing all the configuration files (keystore and encryption key) | true | PATH |
| encryption.key.filename | encryptionPrivateKey.private | Key filename to encrypt passwords | true | FILENAME |
| smp.keystore.password.decrypted | | Only for backup purposes when password is automatically created. Store password somewhere save and delete this entry! | false | STRING |
| smp.truststore.password.decrypted | | Only for backup purposes when password is automatically created. Store password somewhere save and delete this entry! | false | STRING |

| Parameter | Default Value | Comment | Restart needed | Value type |
|---|--|---|----------------|-----------------|
| smp.certificate.validation.allowedCertificatePolicyOIDs | | List of certificate policy OIDs separated by where at least one must be in the CertificatePolicy extension | false | STRING |
| smp.certificate.validation.subjectRegex | .* | Regular expression to validate subject of the certificate | false | REGEXP |
| smp.property.refresh.cronJobExpression | 0 48 */1 * * * | Property refresh cron expression (def 12 minutes to each hour). Property change is refreshed at restart! | true | CRON_EXPRESSION |
| smp.ui.session.secure | false | Cookie is only sent to the server when a request is made with the https: scheme (except on localhost), and therefore is more resistant to man-in-the-middle attacks. | false | BOOLEAN |
| smp.ui.session.max-age | | Number of seconds until the cookie expires. A zero or negative number will expire the cookie immediately. Empty value will not set parameter | false | INTEGER |
| smp.ui.session.strict | Lax | Controls whether a cookie is sent with cross-origin requests, providing some protection against cross-site request forgery attacks. Possible values are: Strict, None, Lax. (Cookies with SameSite=None require a secure context/HTTPS!!) | false | STRING |
| smp.ui.session.path | | A path that must exist in the requested URL, or the browser won't send the Cookie header. Null/Empty value sets the authentication requests context by default. The forward slash (/) character is interpreted as a directory separator, and subdirectories will be matched as well: for Path=/docs, /docs, /docs/Web/, and /docs/Web/HTTP will all match | false | STRING |
| smp.ui.session.idle_timeout.admin | 300 | Specifies the time, in seconds, between client requests before the SMP will invalidate session for ADMIN users (System)! | false | INTEGER |
| smp.ui.session.idle_timeout.user | 1800 | Specifies the time, in seconds, between client requests before the SMP will invalidate session for users (Service group, SMP Admin) | false | INTEGER |
| smp.cluster.enabled | false | Define if application is set in cluster. In not cluster environment, properties are updated on set Property. | false | BOOLEAN |
| smp.passwordPolicy.validationRegex | ^(?=.*[0-9])(?=.*[a-z])(?=.*[A-Z])(?=.*[~`!@#\$%^&+=\- | Password minimum complexity rules! | false | REGEXP |

| Parameter | Default Value | Comment | Restart needed | Value type |
|--|---|--|----------------|-------------|
| | <code>_<>.,?;*\/()\[\]\{\}""\\).{16,32}\$</code> | | | |
| <code>smp.passwordPolicy.validationMessage</code> | Minimum length: 16 characters;Maximum length: 32 characters;At least one letter in lowercase;At least one letter in uppercase;At least one digit;At least one special character | The error message shown to the user in case the password does not follow the regex put in the <code>domibus.passwordPolicy.pattern</code> property | false | STRING |
| <code>smp.passwordPolicy.validDays</code> | 90 | Number of days password is valid | false | INTEGER |
| <code>smp.passwordPolicy.warning.beforeExpiration</code> | 15 | How many days before expiration should the UI warn users at login | false | INTEGER |
| <code>smp.passwordPolicy.expired.forceChange</code> | true | Force change password at UI login if expired | false | BOOLEAN |
| <code>smp.user.login.fail.delay</code> | 1000 | Delay response in ms on invalid username or password | false | INTEGER |
| <code>smp.user.login.maximum.attempt</code> | 5 | Number of console login attempt before the user is deactivated | false | INTEGER |
| <code>smp.user.login.suspension.time</code> | 3600 | Time in seconds for a suspended user to be reactivated. (If 0 the user will not be reactivated) | false | INTEGER |
| <code>smp.accessToken.validDays</code> | 60 | Number of days access token is valid is valid | false | INTEGER |
| <code>smp.accessToken.login.maximum.attempt</code> | 10 | Number of accessToken login attempt before the accessToken is deactivated | false | INTEGER |
| <code>smp.accessToken.login.suspension.time</code> | 3600 | Time in seconds for a suspended accessToken to be reactivated. (If 0 the user will not be reactivated) | false | INTEGER |
| <code>smp.accessToken.login.fail.delay</code> | 1000 | Delay in ms on invalid token id or token | false | INTEGER |
| <code>smp.ui.authentication.types</code> | PASSWORD | Set list of ' ' separated authentication types: PASSWORD SSO. | false | LIST_STRING |
| <code>smp.automation.authentication.types</code> | TOKEN CERTIFICATE | Set list of ' ' separated application-automation authentication types | false | LIST_STRING |

| Parameter | Default Value | Comment | Restart needed | Value type |
|--|---|--|----------------|-------------|
| | | (Web-Service integration). Currently supported TOKEN, CERTIFICATE: ex. TOKEN CERTIFICATE | | |
| smp.automation.authentication.external.tls.clientCert.enabled | false | Authentication with external module as: reverse proxy. Authenticated data are sent to application using 'Client-Cert' HTTP header. Do not enable this feature without properly configured reverse-proxy! | false | BOOLEAN |
| smp.automation.authentication.external.tls.SSLClientCert.enabled | false | Authentication with external module as: reverse proxy. Authenticated certificate is sent to application using 'SSLClientCert' HTTP header. Do not enable this feature without properly configured reverse-proxy! | false | BOOLEAN |
| smp.sso.cas.ui.label | EU Login | The SSO service provider label. | true | STRING |
| smp.sso.cas.url | http://localhost:8080/cas/ | The SSO CAS URL endpoint | true | URL |
| smp.sso.cas.urlPath.login | login | The CAS URL path for login. Complete URL is composed from parameters: \${smp.sso.cas.url}/\${smp.sso.cas.urlpath.login}. | true | STRING |
| smp.sso.cas.callback.url | http://localhost:8080/smp/ui/public/rest/security/cas | The URL is the callback URL belonging to the local SMP Security System. If using RP, make sure it target SMP path '/ui/public/rest/security/cas' | true | URL |
| smp.sso.cas.smp.urlPath | /smp/ui/public/rest/security/cas | SMP relative path which triggers CAS authentication | true | STRING |
| smp.sso.cas.smp.user.data.urlPath | userdata/myAccount.cgi | Relative path for CAS user data. Complete URL is composed from parameters: \${smp.sso.cas.url}/\${smp.sso.cas.smp.user.data.urlpath}. | true | STRING |
| smp.sso.cas.token.validation.urlPath | laxValidate | The CAS URL path for login. Complete URL is composed from parameters: \${smp.sso.cas.url}/\${smp.sso.cas.token.validation.urlpath}. | true | STRING |
| smp.sso.cas.token.validation.params | acceptStrengths: BASIC,CLIENT_CERT assuranceLevel:TOP | The CAS token validation key:value properties separated with ' '. Ex: 'acceptStrengths: BASIC,CLIENT_CERT assuranceLevel:TOP' | true | MAP_STRING |
| smp.sso.cas.token.validation.groups | DIGIT_SMP DIGIT_ADMIN | ' ' separated CAS groups user must belong to. | true | LIST_STRING |

| Parameter | Default Value | Comment | Restart needed | Value type |
|---|-----------------------------|--|-----------------------|-------------------|
| mail.smtp.host | | Email server - configuration for submitting the emails. | false | STRING |
| mail.smtp.port | 25 | Smtplib mail port - configuration for submitting the emails. | false | INTEGER |
| mail.smtp.protocol | smtp | smtp mail protocol- configuration for submitting the emails. | false | STRING |
| mail.smtp.username | | smtp mail protocol- username for submitting the emails. | false | STRING |
| mail.smtp.password | | smtp mail protocol - encrypted password for submitting the emails. | false | STRING |
| mail.smtp.properties | | key:value properties separated with ' '. Ex: mail.smtp.auth:true mail.smtp.starttls.enable:true mail.smtp.quitwait:false. | false | MAP_STRING |
| smp.alert.user.login_failure.enabled | false | Enable/disable the login failure alert of the authentication module. | false | BOOLEAN |
| smp.alert.user.login_failure.level | LOW | Alert level for login failure. | false | STRING |
| smp.alert.user.login_failure.mail.subject | Login failure | Login failure mail subject. Values: {LOW, MEDIUM, HIGH} | false | STRING |
| smp.alert.user.suspended.enabled | true | Enable/disable the login suspended alert of the authentication module. | false | BOOLEAN |
| smp.alert.user.suspended.level | HIGH | Alert level for login suspended. Values: {LOW, MEDIUM, HIGH} | false | STRING |
| smp.alert.user.suspended.mail.subject | Login credentials suspended | Login suspended mail subject. | false | STRING |
| smp.alert.user.suspended.mail.moment | WHEN_BLOCKED | #When should the account disabled alert be triggered. Values: AT_LOGON: An alert will be triggered each time a user tries to login to a disabled account. WHEN_BLOCKED: An alert will be triggered once when the account got suspended. | false | STRING |
| smp.alert.password.imminent_expiration.enabled | true | Enable/disable the imminent password expiration alert | false | BOOLEAN |
| smp.alert.password.imminent_expiration.delay_days | 15 | Number of days before expiration as for how long before expiration the system should send alerts. | false | INTEGER |
| smp.alert.password.imminent_expiration.frequency_days | 5 | Interval between alerts. | false | INTEGER |

| Parameter | Default Value | Comment | Restart needed | Value type |
|--|----------------------------------|---|-----------------------|-------------------|
| smp.alert.password.imminent_expiration.level | LOW | Password imminent expiration alert level. Values: {LOW, MEDIUM, HIGH} | false | STRING |
| smp.alert.password.imminent_expiration.mail.subject | Password imminent expiration | Password imminent expiration mail subject. | false | STRING |
| smp.alert.password.expired.enabled | true | Enable/disable the password expiration alert | false | BOOLEAN |
| smp.alert.password.expired.delay_days | 30 | Number of days after expiration as for how long the system should send alerts. | false | INTEGER |
| smp.alert.password.expired.frequency_days | 5 | Frequency in days between alerts. | false | INTEGER |
| smp.alert.password.expired.level | LOW | Password expiration alert level. Values: {LOW, MEDIUM, HIGH} | false | STRING |
| smp.alert.password.expired.mail.subject | Password expired | Password expiration mail subject. | false | STRING |
| smp.alert.accessToken.imminent_expiration.enabled | true | Enable/disable the imminent accessToken expiration alert | false | BOOLEAN |
| smp.alert.accessToken.imminent_expiration.delay_days | 15 | Number of days before expiration as for how long before expiration the system should send alerts. | false | INTEGER |
| smp.alert.accessToken.imminent_expiration.frequency_days | 5 | Frequency in days between alerts. | false | INTEGER |
| smp.alert.accessToken.imminent_expiration.level | LOW | AccessToken imminent expiration alert level. Values: {LOW, MEDIUM, HIGH} | false | STRING |
| smp.alert.accessToken.imminent_expiration.mail.subject | Access token imminent expiration | accessToken imminent expiration mail subject. | false | STRING |
| smp.alert.accessToken.expired.enabled | true | Enable/disable the accessToken expiration alert | false | BOOLEAN |
| smp.alert.accessToken.expired.delay_days | 30 | Number of days after expiration as for how long the system should send alerts. | false | INTEGER |
| smp.alert.accessToken.expired.frequency_days | 5 | Frequency in days between alerts. | false | INTEGER |
| smp.alert.accessToken.expired.level | LOW | Access Token expiration alert level. Values: {LOW, MEDIUM, HIGH} | false | STRING |

| Parameter | Default Value | Comment | Restart needed | Value type |
|--|---------------------------------|---|----------------|-----------------|
| smp.alert.accessToken.expired.mail.subject | Access token expired | Password expiration mail subject. | false | STRING |
| smp.alert.certificate.imminent_expiration.enabled | true | Enable/disable the imminent certificate expiration alert | false | BOOLEAN |
| smp.alert.certificate.imminent_expiration.delay_days | 15 | Number of days before expiration as for how long before expiration the system should send alerts. | false | INTEGER |
| smp.alert.certificate.imminent_expiration.frequency_days | 5 | Frequency in days between alerts. | false | INTEGER |
| smp.alert.certificate.imminent_expiration.level | LOW | certificate imminent expiration alert level. Values: {LOW, MEDIUM, HIGH} | false | STRING |
| smp.alert.certificate.imminent_expiration.mail.subject | Certificate imminent expiration | Certificate imminent expiration mail subject. | false | STRING |
| smp.alert.certificate.expired.enabled | true | Enable/disable the certificate expiration alert | false | BOOLEAN |
| smp.alert.certificate.expired.delay_days | 30 | Number of days after expiration as for how long the system should send alerts. | false | INTEGER |
| smp.alert.certificate.expired.frequency_days | 5 | Frequency in days between alerts. | false | INTEGER |
| smp.alert.certificate.expired.level | LOW | Certificate expiration alert level. Values: {LOW, MEDIUM, HIGH} | false | STRING |
| smp.alert.certificate.expired.mail.subject | Certificate expired | Password expiration mail subject. | false | STRING |
| smp.alert.credentials.cronJobExpression | 0 52 4 */1 * * | Property cron expression for triggering alert messages! | false | CRON_EXPRESSION |
| smp.alert.credentials.serverInstance | localhost | If smp.cluster.enabled is set to true then then instance (hostname) to generate report. | false | STRING |
| smp.alert.credentials.batch.size | 200 | Max alertes generated in a batch for the type | false | INTEGER |
| smp.alert.mail.from | test@alert-send-mail.eu | Alert send mail | false | EMAIL |

| | | | | |
|---------------------------------|-------|---|-------|---------|
| authentication.blueCoat.enabled | false | Property was replaced by property: smp.automation.authentication.external.tls.clientCert.enabled | false | BOOLEAN |
|---------------------------------|-------|---|-------|---------|

16.3. smp_domain table configuration

This table is used to support the multi-tenancy feature of the SMP. Its parameters/fields are:

- **SML_SMP_ID:** This is the SMP ID that must match the SMP ID registered within the SML.
- **SML_CLIENT_CERT_HEADER:** The SMP's certificate - needed only when accessing BDMSL directly through HTTP. The configured "Client-Cert" HTTP header will be added to each BDMSL request (bypassing SSL certificate verification made normally by SSL terminator) .
- **SML_CLIENT_KEY_ALIAS:** This is the Domain scoped alias of the keystore private key used for authentication with the SML. The password is the same as xmldsig.keystore.password defined in the SMP configuration file.
- **SIGNATURE_KEY_ALIAS:** This field points to the **Domain scoped** alias of the Keystore private key certificate, used by the SMP to sign GET Signed Service Metadata responses.
- **SML_SUBDOMAIN:** This is the informative identifier of SML domain code (eHealth, Peppol, etc). Since SML subdomain is part of DNS domain it must be a valid DNS domain part.
- **DOMAIN_CODE:** The unique domain code that is used as HTTP domain parameter when adding participants true REST service API to particular domain. Domain code can be alphanumeric and up to 63 characters long.

Example: Update the default single domain smp_domain table record:

```
update smp_domain set SML_SMP_ID='SMP-MCB-ID14', SML_CLIENT_KEY_ALIAS= 'smp_mock';
```

or

```
update smp_domain set SML_SMP_ID='SMP-MCB-ID14', SML_CLIENT_CERT_HEADER=
'serial=000000000000000000000009A195D2DD88C&subject=CN=SMP_1000000000,O=DG-
DIGIT,C=BE&validFrom=Oct 21 02:00:00 2014 CEST&validTo=Oct 21 01:59:59 2016 CEST&issuer=CN=Issuer
Common Name,OU=Issuer Organization Unit,O=Issuer Organization,C=BE' where domainId='default';
```

17. SMP ADMIN CONSOLE

The SMP Admin console has two purposes:

- Enable anonymous users to search and explore published data in the SMP. Anonymous users can search for participants by participant ID, schema or domain.
- Enable Service Group administrators to manage owned Service groups, SMP administrators to manage Service groups registered on SMP, and System Administrators to manage users and domains.

The administration dashboard is reachable via the following URLs:

[http://\[host\]:\[port\]/smp\[-version\]/iu/](http://[host]:[port]/smp[-version]/iu/)

If the deployment package (war file) filename changed in order to simply upgrade the old SMP version as for example “smp-4.0.0.war” to “cipa-smp-full-webapp.war”, then application root context might change as well.

Example:

[http:// \[host\]:\[port\]/cipa-smp-full-webapp/ui/](http://[host]:[port]/cipa-smp-full-webapp/ui/) .

Three types of roles are defined in the SMP admin console:

- **System Administrator:** this is a “super admin” who can manage SMP users and domains
- **SMP Administrator:** the SMP administrator can create/delete Service Groups, manage users and domains for service groups and its extensions and metadata. The SMP administrator has access to all Services Groups registered in the SMP.
- **Service Group Administrator:** this user can administer only the metadata for the Service Groups that he owns. He cannot change ownerships or the domains for the existing Service Group.

When users are logged, their role is displayed in read-only mode (as a label). Only the System Administrator can change the role of another user including an SMP Administrator and a Service group Administrator. They, however, cannot change the role of another System Administrator.

18. CONTACT INFORMATION

eDelivery Support Team

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

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