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1 INTRODUCTION

1.1 OBJECTIVE OF THIS DOCUMENT

The objective of this document is to describe the installation/update procedure for the TEDBv2 application and how to maintain the application.

1.2 INTENDED AUDIENCE

This document addresses:

- System administrators of systems (DBA, WebLogic and Unix systems) on which TEDBv2 will be installed/updated;
- Operational IT Service Management Contractor.

1.3 SCOPE

The scope of this document is limited to the installation and for the update of TEDBv2. It will not describe the installation of additional needed software.

1.4 STRUCTURE OF THIS DOCUMENT

This document is organised as follows:

Chapter 1 ‘Introduction’ includes the standard sections for the related documents, the document conventions and the terminology.

Chapter 2 ‘Installation Procedure’ describes the installation of TEDBv2.

Chapter 3 ‘Maintenance’ describes how to maintain TEDBv2.

Chapter 4 ‘Annexes’ describes the scripts provided with this document and gives useful information for the configuration of additional software required by TEDBv2.

1.5 RELATED DOCUMENTS

1.5.1 REFERENCE DOCUMENTS

| Ref. | Title | Reference | Version | Date |
|------|---------------------------------------|------------------------|---------|------------|
| R01 | TEDB – Functional Specifications | FITSDEV2-SC12-FS-TEDB | 1.09 | 20/10/2011 |
| R02 | ECAS Server Mock-Up | N/A | 0.2 | 03/01/2005 |
| R03 | IS LAT PLAN | TMP-PRC-LAT PLAN | 1.01 | 06/11/2009 |
| R04 | TEDB - Acceptance Test Specifications | FITSDEV2-SC12-ATS-TEDB | 1.13 | 22/11/2011 |

Table 1: Reference Documents

| | |
|--|-------------------------------|
| DG TAXUD | REF: FITSDEV2-SC12-IPM-TEDBv2 |
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1.5.2 APPLICABLE DOCUMENTS

| Ref. | Title | Reference | Version | Date |
|------|-------------------------|-------------------|---------|------------|
| A01 | Framework Contract | TAXUD/[Removed] | N/A | 15/09/2008 |
| A02 | Specific Contract Nr 12 | TAXUD/[Removed] | N/A | 01/07/2011 |
| A03 | Framework Quality Plan | FITSDEV2-SC01-FQP | 1.01 | 06/04/2009 |
| A04 | Contract Quality Plan | FITSDEV2-SC12-CQP | 1.00 | 29/09/2011 |

Table 2: Applicable Documents

1.6 DOCUMENT CONVENTIONS

The following conventions are used in this document:

- The name of files and directories is written in *italic* letters;
- The name of menu items or buttons is written in **bold** letters;
- Reference documents are shown in brackets [].

1.7 TERMINOLOGY

1.7.1 ABBREVIATIONS AND ACRONYMS

| Acronym | Meaning |
|---------|---|
| CLOB | Character Large Object |
| ECAS | European Commission Authentication System |
| JDBC | Java DataBase Connectivity |
| SfA | Submit for Acceptance |
| SfR | Submit for Review |
| TEDBv2 | Taxes in Europe DataBase version 2 |
| WAR | Web ARchive |

Table 3: Abbreviations and Acronyms

1.7.2 DEFINITIONS

| Definition | Date |
|-----------------------|--|
| Production section | This part of TEDBv2 consists of private Web pages, which require the user to be authenticated as a "Tax Encoder", a "Tax Checker" or a "Tax Encoder Checker". It enables the user to encode tax descriptions and validate them at the level of a Member State. |
| Publication section | This part of TEDBv2 consists of private Web pages, which require the user to be authenticated as a "Tax Publisher". It enables the user to publish tax descriptions and to administrate TEDBv2. |
| Dissemination section | This part of TEDBv2 consists of public Web pages, which provide any Internet user with a read-only access to the encoded tax descriptions. |
| Tax Encoder | A group of users authorised to enter tax descriptions from a specific Member State. |
| Tax Checker | A group of users authorised to validate tax descriptions from a specific Member State. |

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| Definition | Date |
|---------------------|---|
| Tax Encoder Checker | A group of users authorised to enter and validate tax descriptions from a specific Member State. |
| Tax Publisher | A group of users authorised to check, amend and publish tax descriptions, and to administrate the application. |
| Internet user | A person of unknown identity, who uses the Internet in order to gather information about the taxes available in Europe. |

Table 4: Definitions

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2 INSTALLATION PROCEDURE

This chapter describes the complete installation procedure of TEDBv2. The installation steps have to be performed in the following order:

1. Creation of the Oracle database (section 2.2.1);
2. Population of the database with the reference data (section 2.2.2);
3. Creation of the Oracle WebLogic domain (section 2.1);
4. Definition of the datasource (section 2.3.1);
5. Configuration of ECAS (sections 4.3);
6. Deployment of the application (section 2.3.3).

In case of an update just the following steps have to be performed:

1. Update of the Oracle database (section 2.2.2.2);
2. Deployment of the application (section 2.3.3).

2.1 PRE-REQUISITES

It is assumed that the following applications are correctly installed and available before starting with the installation of TEDBv2:

| Software | Main actions to perform |
|---------------------------------|--|
| Oracle WebLogic Server 10.3.0.0 | <ul style="list-style-type: none"> • Creation of the domain to host the application. • Memory parameters to apply: <ul style="list-style-type: none"> ○ MEM_ARGS="-Xms256m -Xmx1G", ○ MEM_PERM_SIZE="-XX:PermSize=48m", ○ MEM_MAX_PERM_SIZE="-XX:MaxPermSize=128m". |
| ECAS | <ul style="list-style-type: none"> • Configuration of WebLogic (see section 4.3): <ul style="list-style-type: none"> ○ Installation of a library in the WebLogic Server to add a specific Authentication Provider for ECAS; ○ Configuration of the Security Realm. <p>Please, ensure that you have the parameters of an existing ECAS server.</p> <p>Please, note that the ECAS Mockup (see section 4.2) is used to develop and test the application and must not be used in a production environment.</p> |
| Oracle Database 10.2.0.4 | <ul style="list-style-type: none"> • Installation of the database. |

Table 5: Pre-Requisites

To install TEDBv2, both WebArchive files (WAR) of the latest software release have to be present.

In Oracle Database 10.2.0.4, a database must be available for TEDBv2. It can be a dedicated database, or a database shared with other software.

All the pre-requisites have to be fulfilled before the next step of the installation. The Annexes help the reader to configure the environment.

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2.2 DATABASE INITIALISATION

2.2.1 TABLESPACE AND USER CREATION

In case of an update, this step has to be skipped.

This section explains how to create the tablespaces and the schema for TEDBv2. The following steps shall be performed by running the script described in section 4.1 for a user with *sysdba* privileges:

- Creation of the tablespaces as follows:
 - a. TEDB – to contain all data not included in the following two tablespaces;
 - b. TEDB_LOB – to contain all CLOB data;
 - c. TEDB_IDX – to contain all index data.
- Creation of a TEDB user with TEDB as default tablespace.

The database administrator (from DIGIT) has to run only one script. The names of the tablespaces and the user are defined as parameters in the scripts (see section 4.1).

2.2.2 DATABASE SCHEMA CREATION AND POPULATION

In order to install the database and to populate it with the reference data, the operator must launch the scripts described in section 2.2.2.1 with the TEDB user.

2.2.2.1 Initialisation

In case of an update, this step has to be skipped.

The following scripts define the database structure from scratch and populate the database with appropriate reference data:

- TEDB-Create-Structure-v1.2.3.sql
- TEDB-Create-Packages-v1.1.0.sql
- TEDB-Create-Triggers-v1.0.0.sql
- TEDB-Insert-ReferenceData-v1.2.1.sql

2.2.2.2 Upgrade from a previous version

It is highly recommended to make a backup of the database before and after the upgrade.

The script `TEDB-Update-Schema-v1.2.0-build2.sql` is responsible for migrating the schema from TEDBv2 v1.2.0 (build 1) to v1.2.0 (build 2).

The script `TEDB-Update-Schema-v1.2.1.sql` is responsible for migrating the schema from TEDBv2 v1.2.0 (build 2) to v1.2.1.

The script `TEDB-Update-Schema-v1.2.3-1.3.0.sql` is responsible for migrating the schema from TEDBv2 v1.2.3 to v1.3.0.

The script `TEDB-Update-Data-v1.2.3-1.3.0.sql` is responsible for migrating the data from TEDBv2 v1.2.3 to v1.3.0.

2.3 TEDBv2 INSTALLATION

This section explains how to deploy TEDBv2 on the WebLogic server.

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2.3.1 CONFIGURATION OF THE DATA SOURCE

In case of an update, this step should be skipped.

To define the TEDBv2 data source, the operator must use the WebLogic Server console. The parameters that are used in the steps below are as follows (the parameters between < > must be changed; the parameters in bold must be used as defined):

Name = *<enter a name>*
 JNDI Name = **tedbDatasource**
 IP Address = *<IP address to the DB>*
 Port = *<Port to the DB>*
 Driver = **BEA Oracle XA driver**
 Database Name = *<enter the name of the database>*
 User = *<user>*
 Password = *<password>*

The following steps are required to configure the data source to allow TEDBv2 accessing the database:

1. Go to the WebLogic Console (<http://<hostname or IP of the server>:<port>/console>);
2. In the left menu called `Domain Structure`, open up the nodes `Services/JDBC/Data Sources` to show the list of currently configured datasources;
3. Click on the `New` button and follow the wizard to create a new entry according to the parameters defined above;
4. At a later step, you can click on the `Test Configuration` button, to check if a connection can be established. If an error message is displayed, please check and correct all parameters and verify that the database instance is up and running. Once the connection is successful, click on the `Next` button;
5. The last step is about selecting the target to which the data source is associated. Select your server and click on `Finish`;
6. The Summary on the JDBC Data Sources screen now shows the new data source;
7. Furthermore, the JTA Transaction Timeout has to be increased according to your server's performance. Follow the menu as done previously to `Services/JTA` to encode a new value for **Timeout Seconds**:

| | | |
|-------------------------|---|--|
| Timeout Seconds: | <input style="width: 100px;" type="text" value="1200"/> | The transaction timeout seconds for active transactions, before the prepared state. More Info... |
|-------------------------|---|--|

Figure 1: JTA Transaction Timeout

2.3.2 CONFIGURATION OF THE APPLICATION

Before the deployment of the application, some updates in the configuration must be done. The application is packaged in two distinct WAR files:

- `tedb-webapp-v<version>.war`: for the dissemination section (aimed at public users);
- `tedb-webapp-private-v<version>.war`: for the private part (protected through ECAS).

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1. Unzip the two WAR files in separate folders (e.g.: tedb and tedb_private);
2. Open the file weblogic.xml of each unzipped WAR and update the following:
 - o <wls:context-root>;
 - o <cookie-path>;
 - o <context-root>.
 to your context root;
3. Open the file <tedb folder>/WEB-INF/classes/log4j.xml to modify the location of the application log file;
4. For the private application only (protected through ECAS), open the file <tedb_private folder>/WEB-INF/spring/applicationContext-security.xml to modify the configuration of the ECAS server location (as explained in section 4.3).

2.3.3 DEPLOYMENT OF THE APPLICATION

Note: The WebLogic user must have appropriate grants for the files and directory that will be used by the WebLogic server.

Note: If a previous instance of the application is already deployed, it has to be removed first. Otherwise, it will conflict with the new deployment.

This section describes the steps to deploy an application in an Oracle WebLogic 10.3 Server. In the case of TEDBv2, two deployments have to be done (one for each WAR). To deploy a WAR, the following steps have to be performed:

1. Go to the WebLogic Console (<http://<hostname or IP of the server>:<port>/console>);
2. In the left menu called *Domain Structure* click on *Deployments* and invoke the *Install* function by clicking on the button;
3. Encode the complete path to the folder in which the WAR files have been unzipped or use the provided links to browse the file system;
4. Once the desired WAR has been located, select it by clicking on the radio button next to it and click on *Next*;
5. On the following page, please ensure that *Install this deployment as an application* is selected (the first of both options);
6. Depending on the configuration of your WebLogic server (single-node or clustered server), you may have to choose the correct node to deploy the application on and proceed, or you will get directly the *Optional Settings* page. There, you may change the *Name* of the deployment or keep the default one. The other options have to remain as given by default;
7. Clicking on *Finish* will conclude the deployment. In case the second WAR is not yet deployed, you have to run through the steps another time.

2.4 INSTALLATION CHECK

There are four test cases in the ATS [R04] that check the deployment of TEDBv2 and the installation of ECAS:

- TC-DEP-1;
- TC-DEP-2;

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- TC-DEP-3;
- TC-DEP-4.

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3 MAINTENANCE

The following sections describe how to monitor the size of database tablespaces and how the log file is generated.

3.1 DATABASE

TEDBv2 stores all the data in the Oracle 10g Database. Three tablespaces are created during the installation of the application: one for the CLOB, one for the indexes and the other one for the other types of data. This architecture has been chosen to improve the performance of the application.

In order to check the size of the tablespaces, the Administrator has to use the script provided in the table below.

```

SELECT df.tablespace_name "Tablespace",
       df.bytes / (1024 * 1024) "Size (MB)",
       SUM(fs.bytes) / (1024 * 1024) "Free (MB)",
       Nvl(Round(SUM(fs.bytes) * 100 / df.bytes),1) "% Free",
       Round((df.bytes - SUM(fs.bytes)) * 100 / df.bytes) "% Used"
FROM dba_free_space fs,
     (SELECT tablespace_name,SUM(bytes) bytes
      FROM dba_data_files
      GROUP BY tablespace_name) df
WHERE fs.tablespace_name (+) = df.tablespace_name
GROUP BY df.tablespace_name,df.bytes
UNION ALL
SELECT df.tablespace_name tspace,
       fs.bytes / (1024 * 1024),
       SUM(df.bytes_free) / (1024 * 1024),
       Nvl(Round((SUM(fs.bytes) - df.bytes_used) * 100 / fs.bytes), 1),
       Round((SUM(fs.bytes) - df.bytes_free) * 100 / fs.bytes)
FROM dba_temp_files fs,
     (SELECT tablespace_name,bytes_free,bytes_used
      FROM v$temp_space_header
      GROUP BY tablespace_name,bytes_free,bytes_used) df
WHERE fs.tablespace_name (+) = df.tablespace_name
GROUP BY df.tablespace_name,fs.bytes,df.bytes_free,df.bytes_used
ORDER BY 4 DESC;

```

Table 6: SQL Script to check the size of the tablespaces

The query returns all the tablespaces accessible by the user with the used and free space.

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3.2 TEDBv2 Log

TEDBv2 generates two log files that contain all the important events occurring in the application. By default, these files are generated at the root folder of the Oracle WebLogic domain location and are named as follows:

- *tedbv2.log*;
- *tedbv2-lat.log*.

A new log file is created automatically each day. The previous ones are automatically renamed according to the following pattern <log name>.yyyy-MM-dd.log (e.g. *tedbv2.log.2010-05-28.log* and *tedbv2-lat.log.2010-05-28.log*).

If an error occurs in the application, the system administrator can find detailed information in the log file by searching for any occurrences of the keyword "<ERROR>". More detailed information about the log file can be found in the LAT Plan [R03].

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4 ANNEXES

4.1 TABLESPACES AND USER CREATION SCRIPTS

In case of an update, this step has to be skipped.

The following scripts must be executed successfully before the deployment can be done:

- `TEDB-Create-Env-v1.1.0.sql`

There are some variables at the beginning of the script (e.g. `tedb_user`, `tedb_password`), which have to be adapted for matching the configuration of the environment.

4.2 CONFIGURATION OF THE ECAS MOCKUP SERVER

In case of an update, this step should be skipped.

The TEDBv2 application has been tested with the ECAS Mockup Server provided by DIGIT. This section explains how to configure it.

To install the ECAS Mockup Server, you must deploy the application in a servlet container like Apache Tomcat. To do that, the application must be copied in the `webapps` folder. If you want to deploy the ECAS Mockup Server into another web server, please follow the DIGIT Installation procedure [R02].

In the `classes` folder (`<path to Apache Tomcat>/webapps/cas/WEB_INF/classes`) is a file called `users.xml` that contains the definition of all the users:

```
<user>
  <fullName>TaxPublisher2</fullName>
  <name>TaxPublisher2</name>
  <password expirationDate="2050-10-25T15:00:00.000+02:00">password</password>
  <passwordHistory />
  <groups>
    <group>INTERNET</group>
  </groups>
</user>
```

Table 7: Definition of a user in the ECAS Mockup Server

After adding users, the application must be deployed again or Apache Tomcat must be restarted.

4.3 CONFIGURATION OF THE ORACLE WEBLOGIC DOMAIN FOR ECAS AUTHENTICATION

In case of an update, this step should be skipped.

This section will describe the steps needed to configure the authentication to the ECAS Mockup Server:

1. Stop the Oracle WebLogic server;
2. Copy the `cacerts`¹ file to `$BEA_HOME/jdk160_05/jre/lib/security/`, overwriting the existing file;

¹ The `cacerts` file depends of the environment where the application is deployed and the ECAS Server used. An explanation of how to generate the file is given in the document `Server_Mockup` [R02].

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3. Copy the `ecas-weblogic-10.3-authprovider-1.9.0.1-full.jar` file to `DOMAIN/lib`;
4. Start the Oracle WebLogic server, and open the console in a browser (`http://<hostname or IP of the server>:<port>/console/login/LoginForm.jsp`);
5. In the left menu called Domain Structure, click on Security Realms, then navigate to `myrealm > Providers > Authentication`;
6. Click on New, and create the Provider with `EcasIdentityAsserverV2` as Name and `EcasIdentityAsserverV2` as Type. Validate with OK;
7. You are redirected to the list of providers. Click on the created `EcasIdentityAsserverV2`, and make sure that the Control Flag is set to OPTIONAL. **Failing to do so will prevent starting the WebLogic server.** Then, go to the Provider Specific tab, and add `/console` to the list of Excluded Context Paths (else, the console would only be available through `/console/login/LoginForm.jsp` and not simply `/console` anymore). Save;
8. Return to the providers list. For each of the other providers in the list, click on it, set the Control Flag to OPTIONAL if it is not already so and save;
9. From the page that shows the list of Providers click on Reorder. On the new page, reorder the providers in the way that `EcasIdentityAsserverV2` comes **first**;
10. Save the settings;
11. In the left menu called Domain Structure, go to Environment > Servers and click on your server;
12. Find the tab called SSL and open the Advanced section, to set the Hostname Verification property to None;
13. Save the settings and restart the WebLogic server.

After that, the file `applicationContext-security.xml` (in the `WEB-INF/spring` folder of the WAR file) must be updated with the configuration of the environment.

The first value to update is the URL for accessing the ECAS Server (in two places):

```
<bean id="casProcessingFilterEntryPoint"
      class="org.springframework.security.ui.cas.CasProcessingFilterEntryPoint">
  <property name="loginUrl" value="https://[Removed]/cas/login" />
  <property name="serviceProperties" ref="serviceProperties" />
</bean>
```

```
<bean id="casAuthenticationProvider"
      class="org.springframework.security.providers.cas.CasAuthenticationProvider">
  <sec:custom-authentication-provider />
  <property name="userDetailsService" ref="tedbUserDetailsService" />
  <property name="serviceProperties" ref="serviceProperties" />
  <property name="ticketValidator">
    <bean class="
eu.europa.ec.taxud.tedb.service.security.validation.ECas20ServiceTicketValidator">
      <constructor-arg index="0"
        value="https:// [Removed]/cas" />
      <constructor-arg index="1"
        value="serviceValidate" />
    </bean>
  </property>
  <property name="key" value="an_id_for_this_auth_provider_only" />
</bean>
```

| | |
|--|-------------------------------|
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Furthermore, the URL of the application protected by ECAS authentication must be updated:

```
<bean id="serviceProperties"  
class="org.springframework.security.ui.cas.ServiceProperties">  
  <property name="service"  
value="http://localhost:[Removed]/tedb/j_spring_cas_security_check"  
/>  
  <property name="sendRenew" value="false" />  
</bean>
```

The file has to be saved and closed before the deployment can begin.

End of Document