

Installation Valisette Ecologistics

Setting up your own Repository

Install JRE

In order to set up your own EPCIS repository, follow the step-by-step tutorial outlined below:

1. Make sure you have have an [Apache Tomcat](#) servlet container (version 5.5 or higher) running. It will be used to deploy and run the EPCIS repository web application.
2. [Download](#) the *Fosstrak EPCIS repository* distribution and place the WAR file contained in the archive in your Tomcat's *webapps* directory. After restarting Tomcat, the WAR file will be exploded.
3. Install a [MySQL server](#) (version 5.0 or higher). It will be used by the EPCIS repository to store event data. (*)
4. Make sure that web applications deployed to Tomcat can access your MySQL server by installing the MySQL [Connector/J](#) driver. This is usually done by copying the `mysql-connector-java-<version>-bin.jar` into Tomcat's `lib` (version 6) or `common/lib` (version 5.5) directory.
5. Set up a MySQL database for the EPCIS repository to use. (*)

Log into the MySQL Command Line Client as *root* and perform the following steps:

- a. Create the database (in this example, we'll use *epcis* as the database name).
 - b. `mysql> CREATE DATABASE epcis;`
 - c. Create a user that is allowed access to the newly created database (in this example, we'll use the user name *epcis* and password *epcis*).
 - d. `mysql> GRANT SELECT, INSERT, UPDATE, DELETE ON epcis.* TO epcis IDENTIFIED BY 'epcis';`
 - e. Create the database schema by running the setup script contained in the archive you downloaded. (Make sure you are connected to the newly created database before running the script.)
 - f. `mysql> USE epcis;`
 - g. `mysql> SOURCE <path-to-unpacked-download>/epcis_schema.sql`
 - h. Optionally populate the repository with some sample data.
 - i. `mysql> SOURCE <path-to-unpacked-download>/epcis_demo_data.sql`
6. Configure the repository to connect to the newly created database.

In a default installation of Tomcat, the database connection settings can be found in `$TOMCAT_HOME/conf/Catalina/localhost/epcis-repository-<version>.xml`. The relevant attributes that must be adjusted are *username*, *password*, and *url*.

```
<Resource
  name="jdbc/EPCISDB"
  type="javax.sql.DataSource"
  auth="Container"
  username="epcis"
  password="epcis"
  driverClassName="com.mysql.jdbc.Driver"
  url="jdbc:mysql://localhost:3306/epcis?autoReconnect=true">
```

</Resource>

If you used the default user name, password and database name from the examples above, then you don't need to reconfigure anything here. If, however, you used different values, you need to stop Tomcat, change the values and start Tomcat again.

7. Check if the application is running.

In a default installation of Tomcat, the capture and query interfaces will now be available at `http://localhost:8080/epcis-repository-<version>/capture` and `http://localhost:8080/epcis-repository-<version>/query`, respectively.

When you open the capture interface's URL in your web browser, you should see a short information page similar to this:

```
This service captures EPCIS events sent to it using HTTP POST requests.
```

```
The payload of the HTTP POST request is expected to be an XML document conforming to the EPCISDocument schema.
```

```
For further information refer to the xml schema files or check the Example in 'EPC Information Services (EPCIS) Version 1.0 Specification', Section 9.6.
```

To also check if the query interface is set up correctly, point your browser to its URL and append the string `?wsdl` to it. The WSDL file of the query service should now be displayed in your browser.

Proceed to the next sections to test your repository installation using one of our client applications.

8. Check the application's log file in case of problems.

The application's log is kept in `TOMCAT_HOME/logs/epcis-repository.log`. In case of problems with your own EPCIS repository instance, this is the first place to look for information about errors or specific exceptions thrown by the application.

Ecologistics software

- **Ecolog_Workbench**
- **TDT (viewer conference)**
- **Eco_Scan**
- **SV_Ecolog (service)**