

IUCLID 5

Guidance and Support

Installation Guide for IUCLID 5 Version 5.2
Client-Server Architecture

Linux



July 2010

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A wealth of additional information on the European Union is available on the Internet.

It can be accessed at the addresses:

<http://iuclid.echa.europa.eu>.

<http://echa.europa.eu>.

<http://europa.eu>.

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Chapter 1. Introduction

IUCLID 5 has two different installation architectures:

- Standalone installation

The IUCLID 5 application connects directly to the database which usually resides on the same computer. Using this installation not more than one user can work simultaneously on the same database.

- Distributed installation

In this architecture the database and the application server resides on a server computer and the user works with another computer called client. It is similar to a web based application with the only difference that the user interface of the application (buttons, text boxes etc.) is not a series of web pages but a specific Java application called "IUCLID 5 client" downloaded automatically from the server.

This document describes how to download, install and configure the necessary open source software products and the IUCLID 5 application itself on a Linux server. Only the distributed installation is described.

The aim of this document is that a user with basic computer skills would be able to install and run IUCLID 5. The following is a list of items NOT covered in this document:

- Complete and detailed installation and configuration procedure of the operating system (GNU/Linux).
- A detailed configuration of the Database Management System (PostgreSQL) and the Application Server (Tomcat)

1.1. Prerequisites

1.1.1. Hardware requirements

The server hosting IUCLID 5 must have at least:

- RAM: 1 GB (recommended 2 GB)
- Hard disk space: 200 GB
- CPU: 2 GHz, 32 or 64 bit architecture
- Network adapter 100 Mbps (recommended 1Gbps)

1.1.2. Software requirements

- Java Runtime Environment (JRE) or Java Software Development Kit (SDK) 6
- PostgreSQL 8.2 or higher (The most recent version is preferred)
- Tomcat 5.5 or 6.0
- The IUCLID 5 manual workstation installation package, version 5.2, can be downloaded without charge from the IUCLID 5 web site.
- Once you have completed the installation of IUCLID 5, you should test it by starting and configuring it. The configuration requires access to at least a legal entity file (LEOX). The creation of a LEOX is described on the IUCLID 5 web site where the installation software is published. In addition, it is recommended to upload a set of reference substances and the EC inventory. These are also available from the web site at which the IUCLID 5 software is published.

Chapter 2. Installation

2.1. Upgrading from previous versions of IUCLID 5 installations that use client-server architecture

2.1.1. Upgrading from IUCLID 5.2 to IUCLID 5.2.1

This section only applies to users who have an existing IUCLID 5.2 installation. If you are unsure which version you are currently using, start IUCLID 5, log-in then Click 'Help' and then 'About'.

In case you want to upgrade from IUCLID 5.2.0 to IUCLID 5.2.1, perform the following steps:

1. Save the configuration files and plugins from your existing IUCLID 5.2 web application to a temporary location. These are located in the web application directories:

`/i5clientPlugins/remotePlugins/`: all the client parts of the currently installed plugins can be found at this location. Make a backup of this file in case you want to keep your existing plugins.

`/WEB-INF/classes/`: this folder contains the database connection configuration and the logging properties (respectively in `server.properties` and `i5server.logging.properties`) and the server parts of the installed plugins in a subfolder `'/plugins/'`.

2. Install IUCLID 5.2.1 following the instructions given in this manual in the section Deployment
3. Copy the plugins saved to the temporary directory `i5clientPlugins/remotePlugins` to the `i5clientPlugins/remotePlugins` directory of the new installation.



Important

When copying your pre-existing client plugins, do not overwrite the new plugins that were installed with IUCLID 5.2.1.

4. Copy the configuration files and the server plugins in `WEB-INF/classes` with the copies saved to the temporary directory.



Important

When copying your pre-existing server plugins, do not overwrite the new plugins that were installed with IUCLID 5.2.1. However the property files should be overwritten.

5. Start IUCLID 5

2.1.2. Upgrading from versions prior to IUCLID 5.2



Important

There is no automatic upgrade of the database from IUCLID 5.0 / 5.1 to IUCLID 5.2. The data must be transferred manually from the old to the new database as described in the sub-section below.

Each installation of IUCLID 5 must have its own database and its own web application server. There can be more than one database running on a single instance of the database software, but each web application server cannot be used to run more than one IUCLID 5 application at once.

2.1.2.1. Migration of data to IUCLID 5.2 from a previous version

Before starting to install IUCLID 5.2, all the data must be exported from IUCLID 5.1.x using the Back-up plugin that is available on the IUCLID web site. The export process is essential because the exported data will later be imported into IUCLID 5.2. When it is run, the Back-up plugin asks the user to create and enter a single password. This will become the password for all the user accounts in the new installation, with the exception of the account "SuperUser" which has a default password of "root". To import the exported data into IUCLID 5.2, use the built-in Restore feature of IUCLID 5.2 that can be found from the menu File / Administrative tools. This feature allows the upload of data that was exported using the Back-up plugin on 5.1.x. Note that it is not possible to transfer data from IUCLID 5.2 to IUCLID 5.1.

2.1.2.2. Database configuration for running IUCLID 5.2 and a previous version at the same time

If you already have a previous version of IUCLID 5, it is recommended to keep it for the time being. It can be deleted in the future when you are absolutely sure that it is no longer needed. What follows is some information and advice as to how you can manage more than one version of IUCLID 5. As stated above, each installation of IUCLID 5 must have its own database and its own web application server. A new database must be created for IUCLID 5.2 because the structure of the database differs from that of previous versions. This requirement can be met in a variety of different ways. The following sub-sections describe some common sets of circumstances. The database for IUCLID 5.2 can be run on the same instance of the database software as a previous version of IUCLID 5, however, it must have a unique name within that instance of the database software. When IUCLID 5.2 is run for the first time on an empty database, it will automatically create all the correct tables.

If more than one computer is available for installation of IUCLID 5

Each instance of IUCLID 5 that is running in an application server is installed on a separate computer and has its own database. In this case, the instances of IUCLID 5 can point to databases that are either running on the same computers as the respective IUCLID 5s, or, on a central instance of the database software that contains a separate database for each of the instances of IUCLID 5. In all of these cases, each instance of IUCLID 5 is independent of all others such that a change to one is not reflected in any other. Data from an installation of IUCLID 5.1 can be transferred to an installation of IUCLID 5.2 using the Backup plugin in IUCLID 5.1 followed by use of the Restore feature in IUCLID 5.2. Note that it is not possible to transfer data from IUCLID 5.2 to IUCLID 5.1.

If only one computer is available for installation of IUCLID 5

If only one computer is available, only one web application server can be run at a once, and so only one instance of IUCLID 5 can be run at once. However, in this case, it is possible to have two different versions of IUCLID 5 installed on one computer, and to switch back and forth between them; running only one at a time. There are various different ways of doing that. What follows, is a description of one of the possible methods:

Before deploying an installation of IUCLID 5.2:

1. In IUCLID 5.1, install and run the Backup plugin.
2. In the Web Application Manager, make a note of the name of the path to the application (example: /iuc51).
3. In the Web Application Manager, stop the IUCLID5 Server.
4. In the computer's file system, create a directory in which to store un-installed web applications (example: uninstalled_webapps).
5. In the computer's file system, copy the directory noted in step 1.2 (example: iuc51) to the directory just created (example: uninstalled_webapps).
6. In the Web Application Manager, un-deploy the application (example: iuc51).

Install IUCLID 5.2 as described in the installation manual. Note that a new database must be created. It can be running on the same instance of the database software, but in that case, the database must have a different name. When IUCLID 5.2 is running, use its built-in Restore feature to upload data from the back-up that was created during the initialisation process (step 1.1).

To switch between versions of IUCLID 5 (example: iuclid52 -> iuclid51)

1. In the Web Application Manager, make a note of the name of the path to the IUCLID 5 application from which you are switching (example: /iuclid52).
2. In the Web Application Manager, stop that IUCLID 5 application (example: iuclid52).
3. In the computer's file system, copy the application directory of the IUCLID 5 from which you are switching (example: iuclid52) to the directory "uninstalled_webapps".
4. In the Web Application Manager, un-deploy the IUCLID 5 application from which you are switching (example: iuclid52).
5. In the computer's file system, move the directory of the IUCLID 5 to which you are switching (example: iuclid51); from the directory "uninstalled_webapps" to the directory "webapps".
6. Start the IUCLID 5 application to which you are switching (example: iuclid51).

Before switching from IUCLID 5.1 to IUCLID 5.2, consider whether you would like to transfer data from 5.1 to 5.2. If you do want to transfer data, whilst you still have IUCLID 5.1 up and running, use the Back-up plugin to make a copy of your data. The copy can then be imported into IUCLID 5.2 using IUCLID 5.2's built-in Restore feature.

2.2. Operating system

IUCLID 5 has been tested thoroughly using the CentOS Linux distribution. CentOS is an Enterprise-class Linux Distribution derived from sources freely provided to the public by a Linux vendor. You can download it from <http://www.centos.org>. It is sufficient to download the `server-cd` because IUCLID 5 server requires only the minimal operating system installation without any optional software.

Other distributions may be used as well. In that case the file locations might be different from the ones used in this document.

It is recommended to select the minimum configuration when the installation program asks to select the software components to be installed. You may want to install the applications you need, but keep in mind that it is not a good practice to install unnecessary software on the server.

2.2.1. Opening the network port for IUCLID 5 server

In order of establish the connection from the workstation computer to the server, the server's firewall must be configured to allow the IUCLID 5 server to accept connections on port 8080.

It is not recommended to completely disable the firewall. In CentOS for example the `system-config-securitylevel-tui` tool allows you to easily modify the firewall settings. On other Linux distributions please refer to the documentation of the operating system.

```
~#system-config-securitylevel-tui
```

Be cautious! You should not trust any network interface. In the "Allow incoming" section set SSH (secure shell) and 8080 port. For security reasons do not allow any other traffic such as telnet, http or ftp.

Before you start the installation procedure you have to download the required components for IUCLID 5. In order to select the correct files, you should know the architecture (platform) of your server computer. Please consult the user manual of your computer. If the Linux operating system is already installed, write the following command. The command will write the platform's name on the screen, for example `i386`.

```
~#uname -i
i386
~#
```

2.3. JAVA Development Kit

The simplest way to install Java is using the package manager of your operating system. In this way you do not need to download Java manually.

In case no appropriate Java runtime environment is available in the package manager, download the JAVA Development Kit (JDK) 6 or JAVA Runtime Environment (JRE) 6 according to the operating system distribution and architecture of your computer from <http://java.sun.com/javase/downloads/index.jsp>. Select the latest available update.

For example for a 32 bit computer download the i586 version.

```
jdk-6u11-linux-i586.bin
```

If you have a computer with 64 bit processor(s) and the 64 bit version of Linux installed on it then download the 64 bit Java SDK or JRE.

```
jre-6u11-linux-x64.bin
```

If you selected Java in the package manager, it should be installed already. Otherwise run the installer.

Make the JDK file executable and start it.

```
iuclid5#chmod +x jdk-6u11-linux-i586.bin
iuclid5#./jdk-6u11-linux-i586.bin
```

The Sun binary code License Agreement prompt is displayed. Press the enter button to scroll down to the end. You are asked to accept the license. Answer "yes".

```
Do you agree to the above license terms? [yes or no]
yes
```

Status messages are displayed as the installation proceeds. Warning messages can be ignored. After the installation check the Java environment by displaying the version.

```
iuclid5#java -version
java version "1.6.0"
Java(TM) SE Runtime Environment (build 1.6.0-b105)
Java HotSpot(TM) Server VM (build 1.6.0-b105, mixed mode)
```

For more information please consult the Java SE 6 Platform installation instructions at <http://java.sun.com/javase/6/webnotes/install/index.html>.

2.4. PostgreSQL

PostgreSQL is the database management system (DBMS) used by IUCLID 5 to store all data.

Most likely PostgreSQL is included in your distribution. It is recommended to install the latest version using the package management system of your distribution. Alternatively, you can find the installation packages at <http://www.postgresql.org>.

You do not need to download all the installation packages. Only the files with the name starting with `postgresql-libs`, `postgresql-server` and `postgresql` are required.

2.4.1. Creating the `iuclid5` database user

A new Linux user "postgres" has been created during installation process. "postgres" user has no password so you can not log in using this user name. Its purpose is performing database administrative tasks. To act as postgres user you have to use the "su" command.

Change the current directory and current user.

```
$cd /
$su postgres
$
```



Note

By changing the user, the prompt is also changed to the \$ sign (and usually "bash-3.00\$" is displayed).

Now each command you type is executed as postgres user. The first thing to do is to create a database user that allows IUCLID 5 application to connect to the database. Type a password, confirm the password and answer "n" to all subsequent questions. (Press enter after each answer).



Note

Remember the password you give to `iuclid5` user, it will be needed later.

```
$createuser -EP iuclid5
Enter password for new role:
Enter it again:
Shall the new role be a superuser? (y/n) n
Shall the new role be allowed to create databases? (y/n) n
Shall the new role be allowed to create more new roles? (y/n) n
CREATE ROLE
$
```

2.4.2. Creating the `iuclid5` database

Create a new database specifying the owner, encoding and the name of the database.

```
$createdb --owner=iuclid5 --encoding=UTF-8 iuclid5
CREATE DATABASE
$
```

Once the database preparation tasks are, change back to the root user.

```
$exit
/#
```

For security reasons by default database users are not enabled to connect to the database even if they provide the correct password. It is necessary to configure PostgreSQL in order to enable IUCLID 5 to connect.

Open the configuration file using a text editor for example **nano**.

```
iuclid5#nano /var/lib/pgsql/data/pg_hba.conf
# PostgreSQL Client Authentication Configuration File
# =====
#
```

Move the cursor to the end of the file using the down arrow button until the line "# IPv4 local connections:".

```
# IPv4 local connections:
host      all             all             127.0.0.1/32          ident sameuser
```

Insert a new line just after the "IPv4 local connections" and type "host iuclid5 iuclid5 127.0.0.1/32 md5". This line tells PostgreSQL that iuclid5 user is allowed to connect to iuclid5 database from the local computer using the encrypted password authentication.

```
# IPv4 local connections:
host      iuclid5         iuclid5        127.0.0.1/32          md5
host      all             all             127.0.0.1/32          ident sameuser
```

Press CONTROL-X to exit from the editor, type "y" to save the file and confirm the file name by pressing the enter key.

```
Save modified buffer (ANSWERING "No" WILL DESTROY CHANGES) ? y
Y Yes
N No          ^C Cancel
```

```
File Name to Write: /var/lib/pgsql/data/pg_hba.conf
^G Get Help          M-D DOS Format      M-A Append          M-B Backup File
^T To Files          M-O Mac Format      M-P Prepend         ^C Cancel
```

Restart PostgreSQL to load the new configuration.

Your iuclid5 database is now ready to serve the IUCLID 5 application.

For more information about installing PostgreSQL and administer the server look for the <http://www.postgresql.org/docs/documentation page>.

2.4.3. Set up daily backup of the database

The data you store into IUCLID 5 might be very important for your organisation. A user may accidentally delete valuable data or a system failure could cause loss of data. To prevent this situation and prepare a smooth recovery, it is vital to schedule a daily backup.

2.5. Tomcat

The preferred way to install Tomcat is by using the package manager of your operating system. The required version is 5.5.x or 6.0.x where x is the highest available number.

2.5.1. Manual installation

Distribution independent packages can be downloaded from the Tomcat website [<http://tomcat.apache.org/>].

The file to download is for example:

```
apache-tomcat-5.5.26.tar.gz
```

The installation of Tomcat is extracting a set of files and setting up the starting parameters. Extract the downloaded archive into the directory `/opt` (use the version number of your downloaded Tomcat).

```
iuclid5#tar -xzf apache-tomcat-5.5.26.tar.gz -C /opt
iuclid5#
```

It is convenient to create a version independent symbolic link pointing to the actual tomcat directory. It will be used to find the location of Tomcat, whichever version is installed.

```
iuclid5#ln -s apache-tomcat-5.5.26 /opt/apache-tomcat"
iuclid5#
```



Tip

Tomcat contains some example applications which are not needed. You can delete them in order to save resources. Do not delete the `ROOT` directory!

For more information visit the Tomcat website [<http://tomcat.apache.org/>].

2.5.2. Memory settings



Important

IUCLID 5 requires at least 512 MB RAM to be allocated to Tomcat.

Check the amount of memory allocated on the server status page of the Tomcat manager application. The "Max Memory" parameter under JVM should show a value of at least 512 MB.

2.6. Deploying IUCLID 5

Before downloading IUCLID 5 you need to register as a IUCLID user on the IUCLID website [<http://iuclid.eu/>]. The application itself is packaged into the `iuclid5_server.zip` file.

2.6.1. Deployment in Tomcat

Deployment is the term used for the process of installing a web application into the Tomcat server.

Web application deployment may be accomplished in two ways.

- Statically - the web application is set up before Tomcat is started
- Dynamically - in conjunction with the Tomcat Manager web application or manipulating already deployed web applications

You can find more information on how to deploy in tomcat a web application on the Tomcat deployment [<http://tomcat.apache.org/tomcat-5.5-doc/depoyer-howto.html>] web page.

In this document only the Static deployment is described. However the dynamic deployment may be used as well.

Tomcat has to be stopped using the command specific to your distribution.

```
~#service tomcat stop
```

The deployment of IUCLID 5 actually consists of extracting the `i5server.war` archive into the `webapps` directory of Tomcat.

```
iuclid5#unzip i5server.war -d /opt/apache-tomcat/webapps/i5server
Archive:  i5server.war
...
  inflating: /opt/apache-tomcat/webapps/i5server/WEB-INF/web.xml
iuclid5#
```

Open the `server.properties` file in the `webapps/i5server/WEB-INF/classes` directory.

The `server.properties` file is the configuration of IUCLID 5 server. In order to connect to the database correctly it is necessary to modify the `server.properties` configuration file. The default configuration file contains settings for connect to a PostgreSQL database on the same computer. Usually it is sufficient to specify the database password.

```
#
# Settings for using PostgreSQL
#
hibernate.connection.url=jdbc:postgresql://localhost:5432/iuclid5
hibernate.connection.username=iuclid5
hibernate.connection.password=iuclid5
hibernate.connection.driver_class=org.postgresql.Driver
hibernate.dialect=org.hibernate.dialect.PostgreSQLDialect
```

If your database server is running on another computer or database name, user name are different, modify the settings accordingly. For example your database server's name is `dbserver`, PostgreSQL is accepting connections on port `12345`, the database name is `chemdb` and the user is `joe` with password `xyz`, then your configuration is:

```
hibernate.connection.url=jdbc:postgresql://dbserver:12345/chemdb
hibernate.connection.username=joe
hibernate.connection.password=xyz
```

The IUCLID 5 server registers activities into a log file which helps the system administrator. The configuration file setting the logging is `i5server.logging.properties` in the `WEB-INF/classes` directory.

Start the Tomcat service using the command specific to your distribution.



Note

When IUCLID 5 is started the first time it creates new tables in the database which might take up to 30 seconds.

```
iuclid5#service tomcat start
Starting Tomcat - IUCLID5 server [ OK ]
iuclid5#
```

The installation is completed. You can connect to the application with your browser by typing the address `http://<name of your server>:8080/i5server []`.

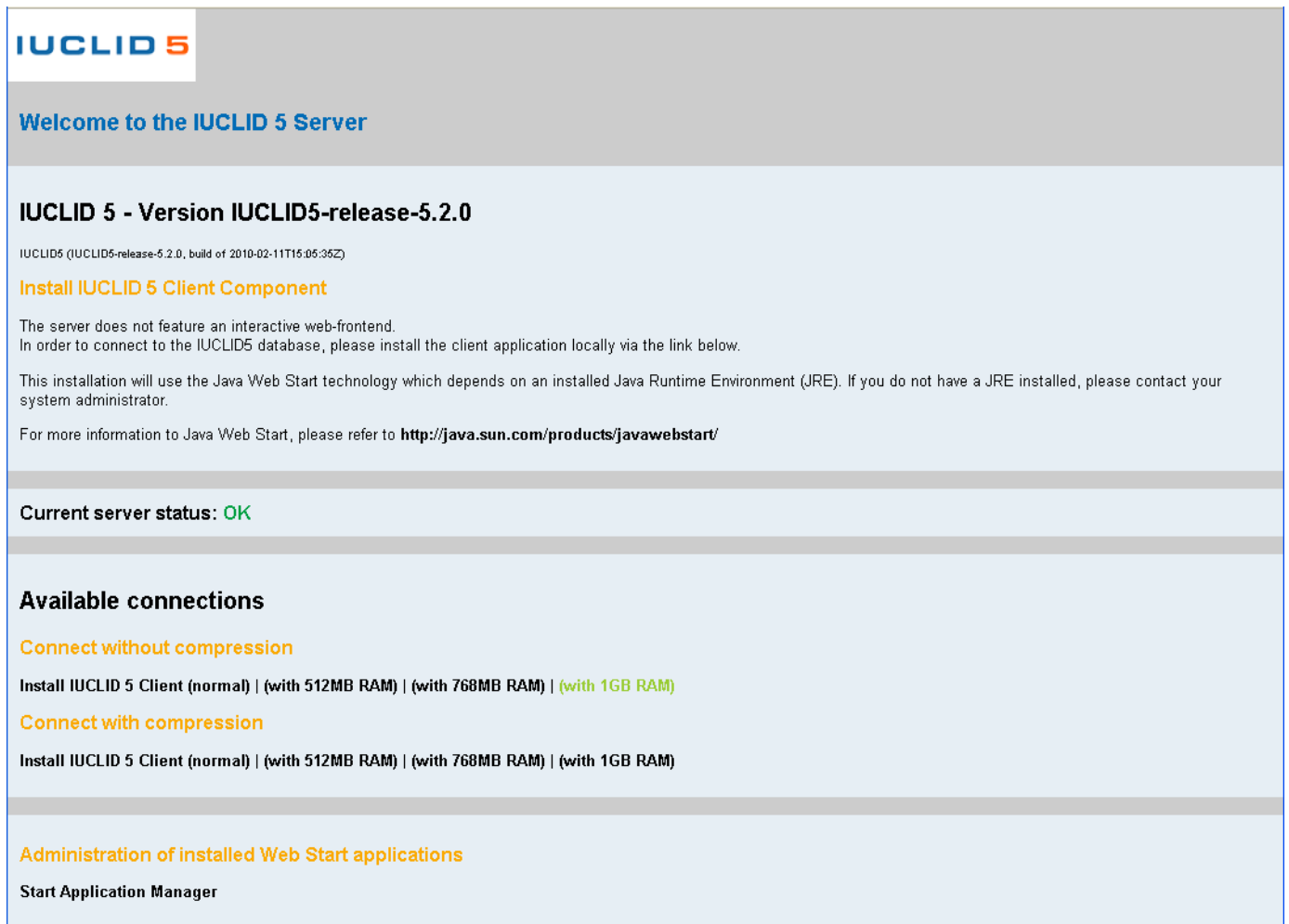
Chapter 3. Initialisation of an installation of IUCLID 5

This section describes the configuration that is required to create a working IUCLID 5 system from the software that has been installed. Data must be uploaded into the database, user accounts must be created, and users must be instructed how to access the system.

3.1. Starting IUCLID 5

Connect to the application with a browser by entering the address "http://<address of your server>:8080/i5server". The following page is displayed.

Figure 3.1. The default page for Java Web Start of IUCLID 5



The page shown above page contains links that use Java Web Start technology to start a client that connects to the IUCLID server and displays IUCLID 5's graphical user interface (GUI) on the client machine. In the example shown above, the link under the text "IUCLID 5 Client (with 1GB RAM)" has already been followed. The difference between the links in the above page is that each link passes different parameters to the IUCLID 5 server. The options included are for varying amounts of memory to be allocated to IUCLID 5 and for different types of data compression to be employed in the connection to the server. If IUCLID 5 runs slower than you would like and you have the available memory, select a link for a larger amount of RAM.

The client can be run directly from a browser or by first downloading a file from one of the links and running that. Depending on your browser settings, when you click on one of the links above you will see either a dialogue box, or IUCLID 5 will run and you will see the login page. The browser dialogue asks whether you would like to save a file or run it straight away. The choice is yours. A convenient way to access IUCLID 5 is to download one of the files from the default page, save it to the desktop of your local machine used to access IUCLID 5 and give it the IUCLID 5 icon that comes with the installation. Double clicking on the icon then launches the IUCLID 5 GUI. Once you see the login page, you are ready to go walk through the First steps wizard, as described in the next section.

3.2. First steps wizard

When you start IUCLID 5 for the first time, the "First steps" wizard is run automatically. It guides you through the steps required to make a working user account and to upload the data required to use IUCLID 5 in a practical setting. The settings that relate to user accounts can also be changed after having run the wizard, using the features described in the IUCLID 5 User Manual.



Important

This wizard allows a single user account to be created, per run. This user is in addition to the SuperUser account that comes with the installation. It is essential to have at least one user account in addition to SuperUser because SuperUser should be used only for the special tasks that only it can carry out. See the IUCLID 5 User Manual for more detail.

As part of the First steps wizard, a legal entity must be uploaded into the IUCLID 5 installation in the form of a LEOX file. Therefore, before running this wizard, make sure that a LEOX file for the legal entity of your company or organisation is accessible to your computer. For more information, see the IUCLID 5 User Manual.

The First steps wizard provides the option of uploading the following information to your IUCLID 5 installation. For details, see the IUCLID 5 User Manual:

- EC Inventory
- Inventory of Reference substances

Although these uploads are optional, it is strongly recommended to do them during the first run of the First steps wizard. To do so, you will need to have the data accessible to your computer whilst running this wizard.

The First steps wizard can be run at any time, but only by the "SuperUser". This is done from the file menu within IUCLID 5 **Administrative tools / Initialise**.

When starting the IUCLID 5 for the first time, the only user available is an administrator named "SuperUser". Log in as SuperUser by entering the following case-sensitive values into the login screen as shown below:

Username: SuperUser

Password: root



The First steps wizard then proceeds. Each page of the wizard is described in a figure below.

Figure 3.2. Step 1 of the First steps wizard - Introduction

The wizard presents some useful information. There are no actions other than to read the information. Click the **Next** button.

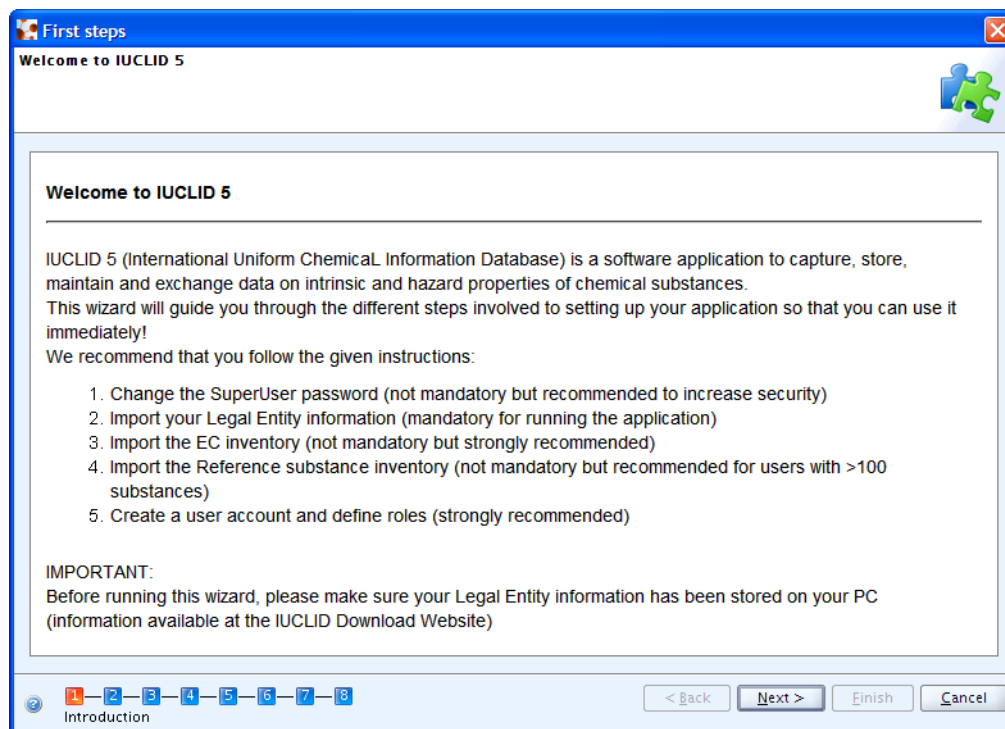


Figure 3.3. Step 2 of the First steps wizard - Init mode - New installation

To initialise a new database, select the button **New Installation** as shown below and continue to the next step.

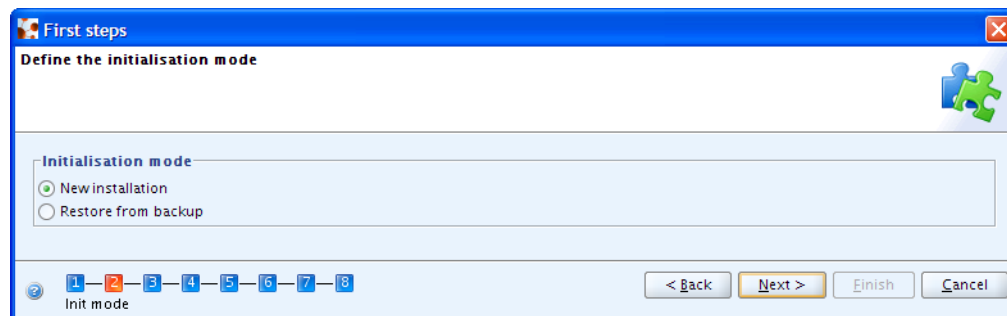
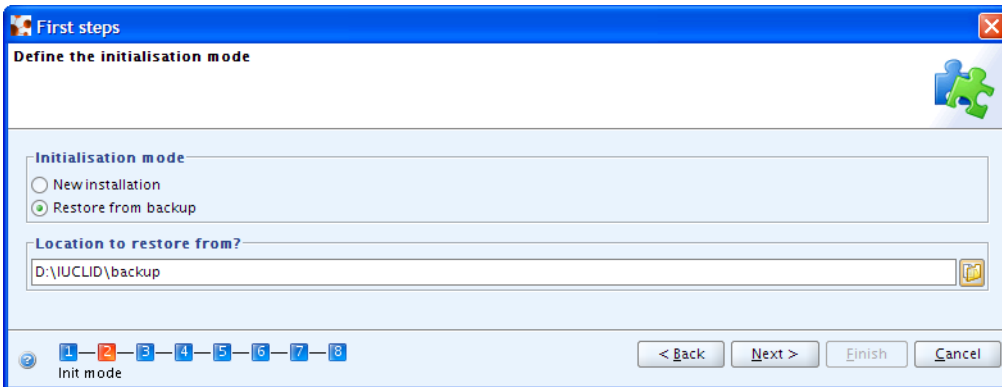


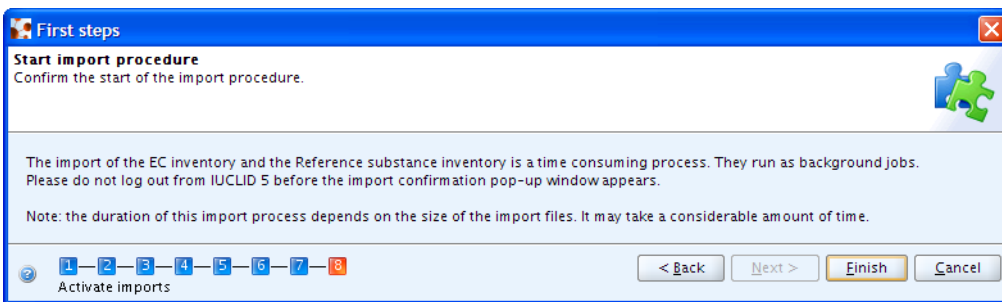
Figure 3.4. Step 2 of the First steps wizard - Init mode - Restore from backup

To restore from a backup of a previous version of IUCLID 5, select the button *Restore from backup* then enter the directory containing the backup files as shown in the example below.



Click *Next*. The wizard jumps to its last step, where the importation of data is started, as shown below.

Figure 3.5. Restoration from a back-up - Step 8 - Activate imports



The import may take some . Click *Finish*. When the restoration is complete, the following screen is shown.

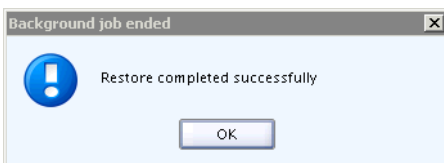


Figure 3.6. Step 3 of the First steps wizard - Change password

If you have not yet changed the default password of the SuperUser to a more secure value than "root", the traffic light in the wizard screen will be yellow. To change the password, check the box `Change SuperUser password`, enter the old password "root" and then enter the new password. After confirming the password, click the button **Next**.

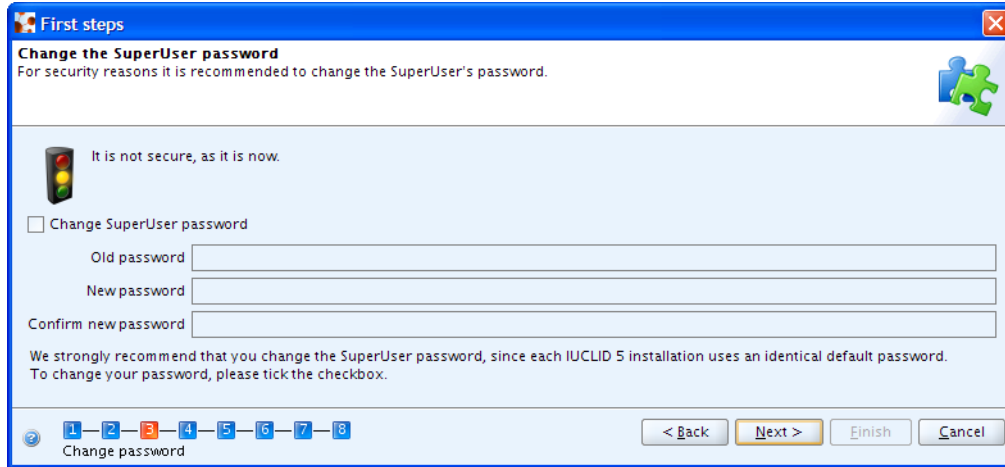
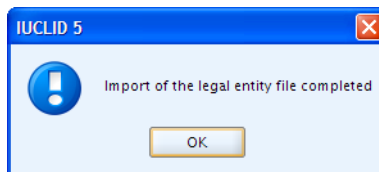
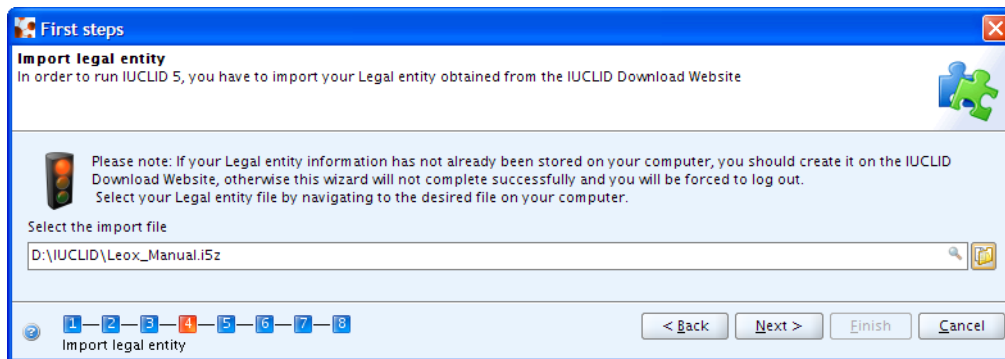


Figure 3.7. Step 4 of the First steps wizard - Import Legal Entity

To import a Legal entity (see the IUCLID 5 User Manual) select its LEOX file by browsing to the file. The browsing is accessed by clicking on the folder icon to the right of the field "Select the import file". Click the **Next** button. The Legal entity is imported immediately.



Important

You must import at least one Legal entity in order to succeed with this wizard. If you have no Legal entity in the IUCLID 5 system, the traffic light in the wizard screen will be red. The First steps wizard will be automatically launched when you log in to IUCLID 5 until a Legal entity has been successfully imported.

Figure 3.8. Step 5 of the First steps wizard - Import EC Inventory

EC inventory import - To import the EC inventory, select the file for the EC inventory (see the IUCLID 5 User Manual). The EC Inventory will not be imported immediately. The import will start at the end of the First steps wizard. Depending on your machine speed and the size of the inventory, this import can take some time, e.g. up to half an hour.

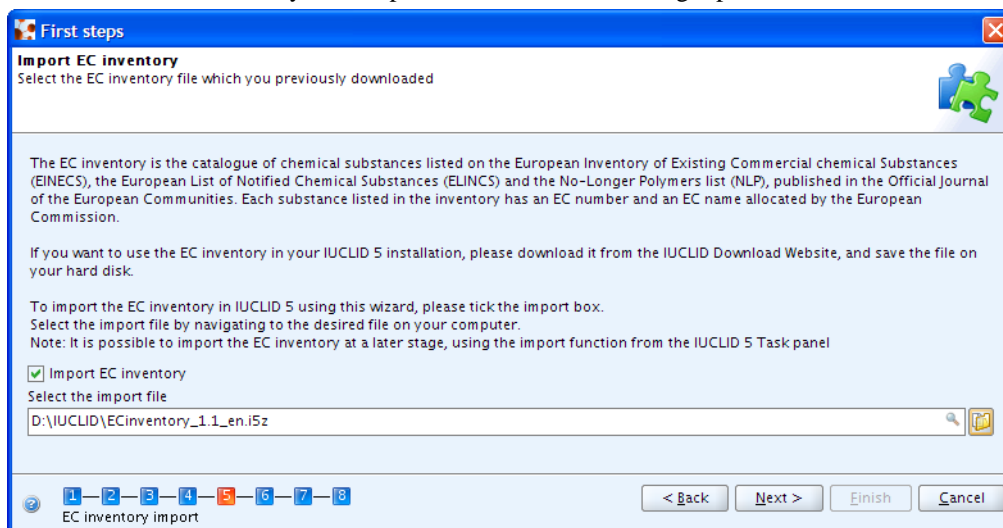


Figure 3.9. Step 6 of the First steps wizard - Import reference substances

Reference substance inventory import - Select the file for the Reference substance inventory (see the IUCLID 5 User Manual). The Reference substance inventory will not be imported immediately. The import will start at the end of the first steps wizard together with the EC Inventory import. Depending on your machine speed and the size of the inventory, this bulk operation may take a very long time. The Reference substance inventory itself can take **up to several hours** to import.

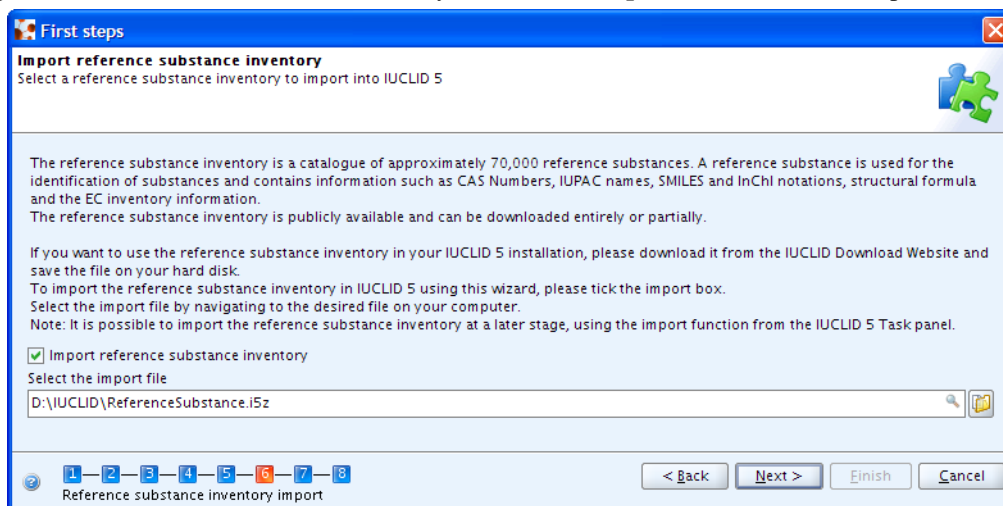
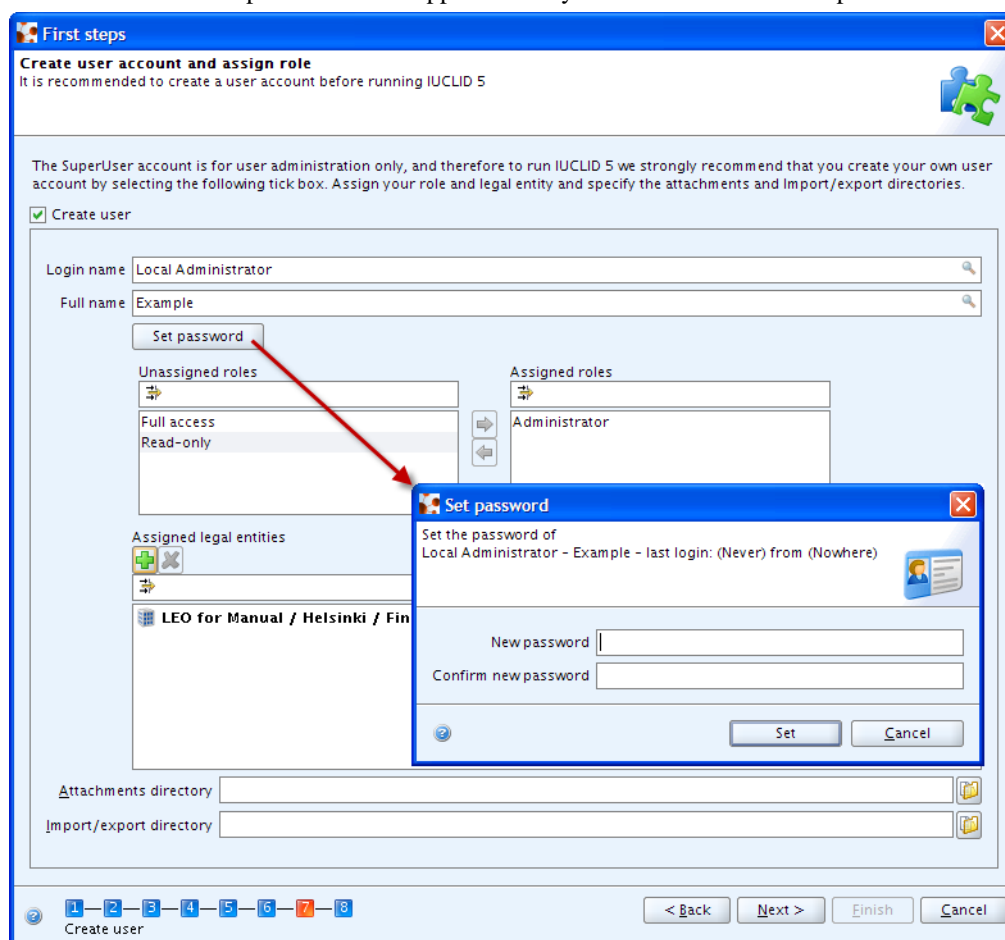


Figure 3.10. Step 6 of the First steps wizard - Import reference substances

Create a new user account and define its user access rights by assigning it a role. It is essential to create a new user because general working within IUCLID 5 with the SuperUser is not supported. Only one user can be created per run of the First steps wizard.



- Select the checkbox `Create user`.

Fill in all the fields. The user needs a `Login name` for identification during login. The `Full name` is used for proper user identification. The `Assigned role` is needed to administrate the access permissions. In a newly installed IUCLID 5 the roles "Administrator", "Full access" and "Read-only" are provided by default.

- Enter a `Login name`, as it should be used for identification during login, and the `Full name` used for proper user identification.
- Optionally, click `Set password` and define a password.
- Click and highlight a role in the list of unassigned roles and assign it to the user by clicking the Right arrow. Assigning a Role is needed to administrate the access permissions (in a newly installed IUCLID 5, the roles "Administrator", "Full access" and "Read-only" are available by default).



Tip

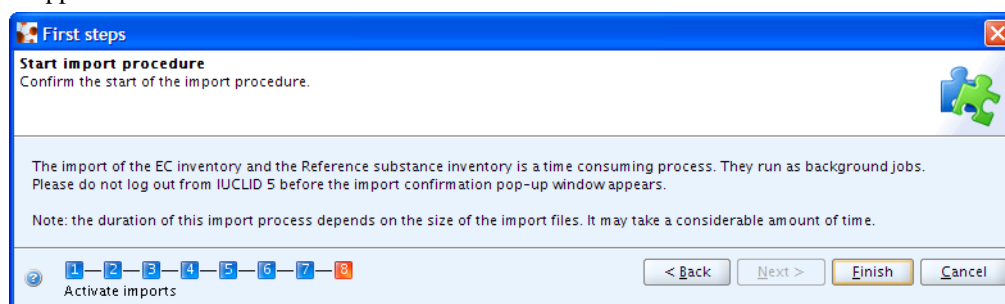
It is recommended to create a user with the "Administrator" Role regardless of whether a stand alone or a distributed version of IUCLID 5 is set up. Once a user has been created, the IUCLID 5 administrator (in case of a distributed version) can define different other user(s) and assign different role(s) to them (see the IUCLID 5 User Manual).

- Assign a Legal entity (normally the Legal entity imported in the third step of this wizard) by clicking the green plus button and performing a search for the desired Legal entity. In the Query field `Legal entity name`, enter the name of the desired Legal entity or an asterisk (*) as wildcard and click the **Search** button. In the Query results list, click the desired entry and then click the **Assign** button.
- Optionally, select default attachment and import/export directories. These settings can be changed at a later stage, as described in the IUCLID 5 User Manual.
- Click the **Next** button

Figure 3.11. Step 8 of the First steps wizard - Start import procedure

If you have selected an EC Inventory and/or Reference substances inventory file(s) during the wizard steps, you can now run the imports. Click the button **Execute imports**. Note again that these imports can take up to several hours, depending on your machine speed and the amount of data you are importing.

Then click the button **Finish**. If you have launched any imports, you will now have to wait until the imports are completed. Afterwards, you should log out and then log in again as a user for the newly defined account. Remember: general working as SuperUser is not supported.



3.3. User management

The installation of IUCLID 5 is now ready for hand-over to whoever will be maintaining the system and whoever will be managing the user accounts. The management of user accounts and their roles is described in the IUCLID 5 User Manual. Individual users can connect to the IUCLID 5 server using Java Web Start technology, as described in section 3.1 of this document. A convenient way to achieve that is for users to save onto their desktop, one of the files downloaded from the default Java Web Start page. The user would launch IUCLID 5 by simply double-clicking on the icon on his or her desktop. Alternatively, the users could be supplied with the URL "`http://<address of your server>:8080/i5server`" and instructions on which link to use.