

Installation Instructions for IUCLID Data Extractor

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Table of Contents



	5.4. What to do	o if the interface is stuck at "Loading…"	. 35
6.	Maintenance		.36
Арр	oendix A.	Example configuration for an Oracle database	.38

Table of Figures

Figure 1:	Log in to the web interface of IUCLID as SuperUser	3
Figure 2:	Open Role under User management	4
Figure 3:	Create a Role	.4
Figure 4:	Name a Role	5
Figure 5:	SuperUser is given every Role by default.	5
Figure 6:	Select a User	6
Figure 7:	A User in a Role	7
Figure 8:	Find the IP address of the host for IUCLID Data Extractor	9
Figure 9:	Environment variables are set in Windows from System Properties1	1
Figure10:	Create a system environment variable1	2
Figure 11:	Define the system variable JAVA_HOME1	3
Figure 12:	Open the environment variable PATH for editing1	3
Figure 13:	Add the path to JDK to the user environment variable PATH1	4
Figure 14:	Checking the environment variables using the command set1	5
Figure 15:	The executable of the installer displayed with no file extension1	6
Figure 16:	Warning shown if JDK is not in PATH1	6
Figure 17:	Installation wizard step 1 - Information1	7
Figure 18:	Installation wizard step 2 - Select components to install1	8
Figure 19:	Installation wizard step 3 - Enter the installation directory for the IUCLID Data Extractor	r
	application1	8
Figure 20:	Installation wizard step 4 - Enter the port for the IUCLID Data Extractor application1	9
Figure 21:	Installation wizard step 5 - Select an H2 database for the IUCLID Data Extractor	
	application	20
Figure 22:	Installation wizard step 5 - Select an Oracle database for the IUCLID Data Extractor	
	application	21
Figure 23:	Installation wizard step 5 - Select a Postgres database for the IUCLID Data Extractor	
	application	22
Figure 24:	Cannot connect to an Oracle database	23
Figure 25:	Installation wizard step 6 - IUCLID connectivity configuration	23
Figure 26:	Installation wizard step 7 - IUCLID Data Extractor plugin configuration	24
Figure 27:	Installation wizard step 8 - Progress of the installation	25
Figure 28:	Installation wizard step 9 - post-installation tasks	26
Figure 29:	Content of log file 'server.log' on initial start-up of IUCLID Data Extractor	27
Figure 30:	Installation wizard step 10 - post-installation report	27
Figure 31:	The final step of the installation wizard	28
Figure 32:	Content of log file 'server.log' after a successful start-up of IUCLID Data Extractor2	28
Figure 33:	Log in as a IUCLID User	29
Figure 34:	IUCLID definitions shown on logging in to IUCLID Data Extractor	30
Figure 35:	Loading of the working contexts / submission types	30
Figure 36:	The list of extractions	31



Figure 37:	Closing the information banner	31
Figure 38:	Interface stuck at "Loading"	35
Figure 39:	Example of hosts and ports	35

Table of Tables

Table 1:	Prerequisites for the installation	.1
Table 2:	Configuration file iuclidde-industry.properties	36



1. Introduction

IUCLID Data Extractor is an advanced tool that extracts data from IUCLID in accordance with a set of user-defined rules. It is installed separately from, but connected to, an instance of IUCLID 6 Server or IUCLID 6 Desktop. IUCLID Data Extractor has its own web-based user interface, separate from that of IUCLID, but modelled on the IUCLID data structure. A java installer is provided, that works on MS Windows and Linux. IUCLID Data Extractor has its own database that can be either the embedded H2 database supplied with it, or an Oracle database. It is possible to install IUCLID Data Extractor such that the IUCLID from which it extracts data is running on either the same machine as itself, or on a separate one.

2. Prerequisites

Before starting the installation of IUCLID Data Extractor, check the following.

Product	Version or Type	Comment
IUCLID 6	Desktop or Server	IUCLID must be in multi-user mode.
	version /	Instance-Based Security (IBS) is not supported.
OS	MS Windows	The MS Windows installer must be run using a local administrator account. The OS should be up to date.
Database	Embedded (H2) or Oracle or PostgreSQL	DE has been tested and shown to work with Oracle XE 11g and PostgreSQL 13.
Java	JDK 8	Instructions are provided on how to use the OpenJDK 8 that comes with IUCLID 6.

Table 1: Prerequisites for the installation

3. IUCLID 6 configuration

The following configuration applies to the installation of IUCLID 6 to which IUCLID Data Extractor connects. IUCLID must be in multi-user mode. Instance based security (IBS) is not supported.

3.1. Multi-user mode

For IUCLID 6 Server, the default is multi-user mode, so no change should be required. For IUCLID 6 Desktop, the default is single-user mode. If you do not need to enter credentials when logging in to IUCLID 6 Desktop, it is in single-user mode, and must be changed as follows. Edit the following file:

<IUCLID 6 installation folder> \payara5\glassfish\domains\domain1\config\server.settings.properties

Set the parameter *single_user_installation* to false as shown below.

environments.size = small



environments.instance.based.security = false
single_user_installation = false

IUCLID must be restarted for the change to take effect. Please be aware that after you change this gaining access to IUCLID requires a login process for each session. After switching IUCLID to multi-user mode, it should be possible to log in as the default admin user using the credentials below.

Username: SuperUser Password: root

3.2. Users and Roles

Users log in to IUCLID Data Extractor (DE) using credentials defined in IUCLID. DE does not have its own user management interface. DE requires that the instance of IUCLID to which it connects contains the following two Roles:

APP_Agency_IUCLIDDE_Analyst APP_Agency_IUCLIDDE_Administrator

The analyst role provides only data extraction. The administrator can extract and configure the system. To log in to DE, a User must have at least one of these roles. To extract data, a User must have at least read-only access to that data. If an attempt is made to extract data in one go in which the User has partial access to the data, the extraction contains only the data to which the User has access.

At this point it is best to consider what overall access is required for Users of DE, and how to provide it. The User named SuperUser is automatically given all the Roles in the instance of IUCLID so there is no need to manually add DE's Roles. Therefore, SuperUser is conveneint for testing, but for daily work, it is more secure to use a User with a lower level of access. This can be an existing User, or a User created especially for DE.

For a full description of user management in IUCLID, see the functionalities manual that is available via the graphical user interface.

Log in to the web interface as a User that has the rights to perform user management, for example as *SuperUser*.



Figure 1: Log in to the web interface of IUCLID as SuperUser

Welcome back!			
Please login by entering the information below.			
SuperUser			
Login			

Consider which IUCLID Users will be used to access DE. By default, SuperUser is automatically granted all the Roles in an instance of IUCLID, and therefore will always be able to access DE. For security reasons, it is not recommended to use SuperUser for ordinary work in IUCLID 6 Server. Therefore, DE should be accessed by other users. These can be existing users, or new ones dedicated to use with DE. Either way, before proceeding, decide which users will have access to DE, and that they have the correct access to data. To access DE, a IUCLID user must have a name that is 20 characters or shorter.

The next step is to create DE's Roles, and to assign them to Users. Open the main menu from the three-bar icon at the upper left of the interface. Under *User management*, select *Role*, as shown below.





		P	SuperUser Predefined Legal entity
⇒ Dashboard		Search dossier, entities and docu	Iments by UUID
Cashboard	Substances Mixtures	/ Products Articles	Categories
o° Toolbox	Inventory manager	🎝 User management	About IUCLID
Template	Contact	User Settings	About
Manage Reports	Legal entity	Users	Help
Background tasks	Sites	Roles	English - EN 🛛 😗
	Reference substance		
	Test material		
	Literature reference		

To create a Role, select the button + *New Role*, indicated below.

Dashboard > Roles ➡ Roles	+ New Role ?
٩	
5 results found	Show results 25 🗸 Sort by Newest first 🗸
Read-only Description Predefined role for Read-only access	12/11/2015 17:34

Figure 3: Create a Role

Name the Role as:

APP_Agency_IUCLIDDE_Analyst



Figure 4: Name a Role

Dashboard > Roles > Create role	
➡ Create role	
Role information	
Role name*	
APP_Agency_IUCLIDDE_Analyst	
Role description	
For IUCLID Data Extractor	
25	5/2000

Underneath the Role information there are settings for permissions. These settings can be defined for the DE Roles, but it is often simpler to define them in separate Roles.

The next step is to give the DE Role to a User or Users. This can be done later by editing from the record of either the User or the Role, but it is convenient to do it now.

Scroll down to *Assigned users*. Note how *SuperUser* already has the Role, and it cannot be removed because the dustbin icon is inactive. Click on *New item*, ringed in red below.

Figure 5: SuperUser is given every Role by default.

Assigned users			
#	User	Action	
1	SuperUser		



If you cannot see the required User in the list, it can be found using the standard search functionality. Select the User by clicking on it, as shown below for *User_1*.

Figure 6: Select a User	Fiç	gure	6:	Select a User
-------------------------	-----	------	----	---------------

Select User		×
	۹ 3 items found	
FullAccess	26/11/2	021 21:29
Last name Full Access Last log in 26/11/2021 21:29	First name User	
User_1 Lest name Liser_1 Last log in 15/12/2021 18:47	15/12/2 First name User_1	.021 18:47
User_2 Last name User_2 Last log in	15/12/2 First name User_2	021 18:49

Note the User has now been added to the list of assigned users for the Role, as shown below for User_1.



Figure 7: A User in a Role

Assigned users + New item			
#	User	Action	
1	SuperUser	0	
2	User_1	1	_
			Save

To finish creating the Role, click on Save.

Repeat the actions described above for the other Role for DE, which has the name:

APP_Agency_IUCLIDDE_Administrator

3.3. Securing Cross-Origin Resource Sharing (CORS) in IUCLID

This applies for IUCLID 6 version 6.27.1 and later. IUCLID Data Extractor uses the authentication mechanism of IUCLID. For security reasons, by default in IUCLID, Cross-Origin Resource Sharing (CORS) is limited to the host localhost and the ports at which IUCLID listens, which by default for HTTP is 8080. For the log in process to work for IUCLID Data Extractor, its URL must be added to a whitelist in the configuration of IUCLID. This is done in a parameter in the settings file domain.xml which has the path indicated below.

<IUCLID 6 installation folder>\payara5\glassfish\domains\domain1\config\domain.xml

The parameter is:

eu.echa.iuclid6.idp.cors.allowed.origin.patterns

The default value is:

http://localhost:\${HTTP_LISTENER_PORT},https://localhost:\${HTTPS_LISTENER
PORT},http://127.0.0.1:\${HTTP_LISTENER_PORT}

In the example shown later in this manual, the URL of DE can be:

http://100.65.8.153:28080

http://localhost:28080

http://127.0.0.1:28080

https://100.65.8.153:28434



UCLID 6

```
https://localhost:28434
https://127.0.0.1:28434
```

For this example, the line in domain.xml would be:

```
<system-property
name="eu.echa.iuclid6.idp.cors.allowed.origin.patterns"
value="http://localhost:${HTTP_LISTENER_PORT},https://localhost:${HTTPS_LISTE
NER_PORT},http://127.0.0.1:${HTTP_LISTENER_PORT},http://100.65.8.153:28080,ht
tp://localhost:28080,http://127.0.0.1:28080,https://100.65.8.153:28434,https:
//localhost:28434,https://127.0.0.1:28434"></system-property>
```

If SSL is in use, add the appropriate URL for the protocol https. In the example presented later in this manual, the value is:

https://100.65.8.153:28443

After making a change to domain.xml, IUCLID must be restarted for the change to take effect.

If IUCLID Data Extractor and IUCLID are run on the same host, the host can be set to localhost, which has a numeric equivalent of 127.0.0.1. A numeric value that is specific to the machine can also be used, and in some cases may avoid confusion. In Windows this can be found using the command ipconfig in a terminal, as shown below where the value is 100.65.8.153.

.

Figure 8: Find the IP address of the host for IUCLID Data Extractor

Administrator: Command Prompt	—		×
C:\Users\ >ipconfig			^
Windows IP Configuration			
Ethernet adapter Ethernet:			
Connection-specific DNS Suffix . : echa.europa. IPv4 Address 10.90.1.24 Subnet Mask 255.255.0.0 Default Gateway 10.90.0.1	local		
Ethernet adapter CygateMGMT:			
Connection-specific DNS Suffix .: IPv4 Address	Ν		
Tunnel adapter isatap.{ED49F896-CDD5-4117-9871-E9F5	9945BA	A7A}:	
Media State Media discon Connection-specific DNS Suffix . :	nected	1	
Tunnel adapter isatap.echa.europa.local:			
Media State Media discon Connection-specific DNS Suffix . : echa.europa.	nected local	1	~



4. IUCLID Data Extractor installation

During the installation of IUCLID Data Extractor, IUCLID 6 Server can be left running. It will be restarted at the end.

4.1. Preparation for installation

Before running the IUCLID Data Extractor installer, obtain the following information:

- 1) Location of the folder in which IUCLID Data Extractor will be installed;
- 2) Location of the installation folder of IUCLID 6;
- 3) The port that will be used by IUCLID Data Extractor. Any free port can be used.

An installation of IUCLID Data Extractor consists of:

- 1) The application files, which include the application server Wildfly;
- 2) The IUCLID plugin, which is a jar file that is copied into the installation of IUCLID.

The IUCLID Data Extractor can automatically install the plugin into the installation of IUCLID, but it must have access to its file system. Otherwise, the plugin has to be installed manually. Make sure that the environment variable JAVA_HOME points to JDK. If IUCLID Data Extractor is installed on the same computer as IUCLID 6, the OpenJDK delivered with IUCLID 6 can be used. To set the environment variables in Windows, open:

Control Panel > System > Advanced system settings > Environment Variables



System Properties	\times
Computer Name Hardwale Advanced System Protection Remote	
You must be logged on as an Administrator to make most of these changes.	
Performance	
Visual effects, processor scheduling, memory usage and virtual memory	
Settings	
User Profiles	
Desktop settings related to your sign-in	
Settings	
Start-up and Recovery	
System start-up, system failure and debugging information	
Settings	
Environment Variables	2
OK Cancel Apply	

Figure 9: Environment variables are set in Windows from System Properties

Under System variables, click on New.



Figure10: Create a system environment variable

Variable	Value		
OneDrive	C:\Users\awk.000\OneDrive		
Path	C:\Users\awk.000\AppData\Local\Microsoft\WindowsApps;C:\Prog		
TEMP	:\Users\awk.000\AppData\Local\Temp		
TMP	C:\Users\awk.000\AppData\Local\Temp		
	DIEW FOIT DELETE		
	Newin Edition Delete	-	
vstem variables			
ystem variables			
ystem variables Variable	Value	^	
ystem variables Variable ComSpec	Value C:\WINDOWS\system32\cmd.exe	Â	
ystem variables Variable <mark>ComSpec</mark> configsetroot	Value C:\WINDOWS\system32\cmd.exe C:\WINDOWS\ConfigSetRoot	^	
ystem variables Variable ComSpec configsetroot DriverData	Value C:\WINDOWS\system32\cmd.exe C:\WINDOWS\ConfigSetRoot C:\Windows\System32\Drivers\DriverData	Â	
ystem variables Variable ComSpec configsetroot DriverData easyplussdk	Value C:\WINDOWS\system32\cmd.exe C:\WINDOWS\ConfigSetRoot C:\Windows\System32\Drivers\DriverData "C:\Program Files (x86)\Common Files\lenovo\easyplussdk\bin"	î	
variables Variable ComSpec configsetroot DriverData easyplussdk NUMBER_OF_PROCESSORS	Value C:\WINDOWS\system32\cmd.exe C:\WINDOWS\ConfigSetRoot C:\Windows\System32\Drivers\DriverData "C:\Program Files (x86)\Common Files\lenovo\easyplussdk\bin" 4	^	
vstem variables Variable ComSpec configsetroot DriverData easyplussdk NUMBER_OF_PROCESSORS OS	Value C:\WINDOWS\system32\cmd.exe C:\WINDOWS\ConfigSetRoot C:\Windows\System32\Drivers\DriverData "C:\Program Files (x86)\Common Files\lenovo\easyplussdk\bin" 4 Windows_NT	^	
variable Variable ComSpec configsetroot DriverData easyplussdk NUMBER_OF_PROCESSORS OS Path	Value C:\WINDOWS\system32\cmd.exe C:\WINDOWS\ConfigSetRoot C:\Windows\System32\Drivers\DriverData "C:\Program Files (x86)\Common Files\lenovo\easyplussdk\bin" 4 Windows_NT C:\WINDOWS\svstem32:C:\WINDOWS:C:\WINDOWS\Svstem32\Wb	^ ~	

Set the *Variable name* to JAVA_HOME. Set *Variable value* to the absolute path of the directory that contains the JDK that will be used with IUCLID Data Extractor. To use the JDK that was delivered with IUCLID 6 set the value to:

<installation directory of IUCLID 6>\jdk

In the example shown in the figure below, the installation directory of IUCLID 6 is:

C:\iuclid6-server

Therefore, the value of the variable is:

C:\iuclid6-server\jdk



Figure 11: Define the system variable JAVA_HOME

New System Variable	:	×
Variable name:	JAVA_HOME]
Variable value:	C:\iuclid6-server\jdk	
Browse Directory	Browse File OK Cancel]

Append the value <code>%JAVA_HOME%\bin</code> to the environment variable <code>PATH</code>, as follows. Under User variables, click on *Edit*.



Envir	onment Variables		×
Use	er variables for awk		
١	Variable	Value	
(OneDrive	C:\Users\awk.000\OneDrive	
	Path	C:\Users\awk.000\AppData\Local\Microsoft\WindowsApps;C:\Prog	
	TEMP	C:\Users\awk.000\AppData\Local\Temp	
1	TMP	C:\Users\awk.000\AppData\Local\Temp	
		New Edit Delete	
Sys	stem variables		

Add a line %JAVA HOME%\bin and then click on OK.



Figure 13:	Add the path to JDK to the user environment variable PAT	ГΗ
------------	--	----

Edit environment variable	×
%USERPROFILE%\AppData\Local\Microsoft\WindowsApps	New
C:\Program Files (x86)\Nmap	
%JAVA_HOME%\bin	Edit
	Browse
	Delete
	Mayolla
	wove op
	Move Down
	Edit text
ОК	Cancel

In the example, the result is that the following is appended to the environment variable Path.

;C:\iuclid6-server\jdk\bin

This can be checked using the command set on the command line.

C:\> set

The output is shown below, with JAVA_HOME and Path pointed out with red arrows.



Figure 14: Checking the environment variables using the command set

	Administrator: Command Prompt	_		×
	HOMEDRIVE=C:			^
	HOMEPATH=\Users\adm-			
	JAVA_HOME=C:\1ucl1db-server\jdk			
	LOCALAPPDATA=C:\Users\adm-\AppData\Local			
	NUMBER_UF_PROCESSURS=10			
-	Path=C:\oraclexe\app\oracle\product\11.2.0\server\bin:C:\Pr	ogram	Files	(x
	86)\Common Files\Oracle\Java\javapath;C:\Windows\system32;C	:\Wind	lows;C:	\W
	indows\System32\Wbem;C:\Windows\System32\WindowsPowerShell\	v1.0\;	C:\ops	со
	de\chef\bin\;C:\Program Files\Git\cmd;C:\Users\adm\A	ppData	\Local	\P
	rograms\Python\Python39\Scripts\;C:\Users\adm\AppDat	a\Loca	l\Prog	ra
	ms\Python\Python39\;C:\Users\adm\AppData\Local\Micro	soft\W	lindows	Ар
	ps;C:\iuclid6-server\jdk\bin			
	PATHEXI=.COM;.EXE;.BAT;.CMD;.VBS;.VBE;.JS;.JSE;.WSF;.WSH;.M	SC		
	PROCESSOR_ARCHITECTURE=AMD64			
	<pre>PROCESSOR_IDENTIFIER=Intel64 Family 6 Model 85 Stepping 0,</pre>	Genuin	eIntel	U
				Ť

Remember that if you are running the installer from the Windows command line using CMD, CMD must be restarted for changes in environment variables to take effect.

4.2. Graphical Installation Wizard

During the installation of IUCLID Data Extractor, IUCLID 6 Server can be left running. It will be restarted at the end.

For an installation in MS Windows, run the following executable as a local administrator.

echa-iuclidde-installer-pack.exe

In the file browser, if file extensions are not shown, the executable file looks like the following:

Figure 15: The executable of the installer displayed with no file extension

Name	
📑 echa-iuclidde-installer-pack	

If the path to an installation of JDK has not been defined correctly in the environment variable PATH, the following warning will be given.

Figure 16: Warning shown if JDK is not in PATH

Warning	×
❶	It looks like your system does not have a Java Development Kit (JDK) available. The software that you plan to install requires a JDK for both its installation and execution.
	Do you still want to proceed with the installation process?
	<u>Y</u> es <u>N</u> o

If the warning is shown, select *No*., add the path of JDK to PATH, as described above, and then rerun the installation. It is advisable to also check the value of JAVA_HOME.

If you see the message below, as a workaround, try starting the installer from an administrator console (cmd) using the command:

```
$ java -jar iuclidde-installer.jar
```



Read the information presented by the installation wizard and the descriptions in this manual carefully for each page. The first wizard screen displays information about the version of IUCLID Data Extractor; and the required version of IUCLID.



×

ili Next

🙆 Quit

Figure 17: Installation wizard step 1 - Information

Installation of IUCLID Data Extractor for the industry

IUCLID Data Extractor for the industry

Version: 1.13.1

This installation package contains the Data Extractor application installation as well as the Data Extractor IUCLID plugin which can be installed separately. In order for the application to run properly it must connect to a IUCLID 6 installation with version 7.x.x. During installation you will be requested to provide information on how to connect to that IUCLID instance.

Step 1 of 11

In the second step, select the components to be installed. For a fresh installation of IUCLID Data Extractor run on the same machine as IUCLID 6, both boxes should be ticked. If IUCLID Data Extractor is to be run on a different machine from IUCLID 6, and the installer cannot access both file systems at the same time, the installer can be run twice, once to install the application files, and then separately on the IUCLID machine to install the plugin. If an option is not ticked, the wizard skips the steps that are no longer relevant.

If a previous version of IUCLID Data Extractor is installed in the IUCLID, ensure the plugin has been deleted, and that the box for *IUCLID plugin* is ticked, so that the new version will be installed. The plugin installed in IUCLID, is the file indicated below. The version number in the file name is not necessarily the same as the version of the IUCLID Data Extractor application. The version for IUCLID 6 v6 was:

1. <iuclid installation directory>
 \payara5\glassfish\domains\domain1\iuclid6\
 echa-iuclidde-extension-1.6.0.jar

The new version will be:

2. <iuclid installation directory>
 \payara5\glassfish\domains\domain1\iuclid6\
 echa-iuclidde-extension-1.7.1.jar

At the foot of the page on the right, note the total storage space required, and the available space.



Figure 18: Installation wizard step 2 - Select components to install

Installation of IUCLID Data Extractor for the industry	—		×
Select the components you want to install/update:			
IUCLID Data Extractor application IUCLID plugin		298 69	9.66 KB
Description IUCLID Data Extractor application			
Total space required: Available space:		298	8.91 MB 4.61 GB
Step 2 of 11	Next	80	Quit

Step 3 asks for the directory where the application will be installed.

Installation of focus bata Extractor for the industry		×
Select the folder where the application will be installed		
C:\DE\v1.13.1	Browse	
Step 3 of 11 Revious Next	(2))uit

Figure 19: Installation wizard step 3 - Enter the installation directory for the IUCLID Data Extractor application



Step 4 prompts for the port number(s) of the IUCLID Data Extractor application. Enter a value for a port that you know is a free. To check whether a port is free, the following command can be used.

Windows command line:

C:\>netstat -an | find ":<port number>"

The port is free if the output is empty.

In the example below the ports are set to 28080 for HTTP and 28443 for HTTPS. If you will not be using HTTPS it can be left at the default value.

Figure 20: Installation wizard step 4 - Enter the port for the IUCLID Data Extractor application

Si Installation of IUCLID Data Extractor for the industry	_		\times
Server configuration			
Please specify the ports that the application server of the Data Extractor application will listen to			
Server http port number: 28080			
Server https port number: 28443			
For more detailed information about configuring HTTPS, see the installation manual of Data Extractor			
Step 4 of 11	us 🔛 Next	0 💟	uit



In step 5 the type of database is selected, and external databases are configured. The IUCLID Data Extractor application may be used with either an embedded H2 database that is provided by the installer, or an external database which must be created separately. The types of external database supported are Oracle and Postgres. If H2 is selected, the user does not have to enter any additional information, and the installer configures the connection automatically.

Figure 21:	Installation wizard step 5	Select an H2	database for the	IUCLID Data	Extractor application
------------	----------------------------	--------------	------------------	-------------	------------------------------

Sinstallation of IUCLID Data Extractor for the industry	_		\times
Databace connectivity configuration			
Please specify the type of database to be used by the application. If you selected 'Oracle', the appropriate connection parameters r	nust be filled in		
Embedded H2 database			
O Existing Oracle database			
Existing Postgres database			
Step 5 of 11	s 🔶 Next	🙁 Qi	uit



If the option is selected for an Oracle database, an Oracle database schema is required. An example of how this can be created is given in *Appendix A: Example configuration for an Oracle* database. The parameters for the database are entered into the wizard as shown below.

Figure 22: Installation wizard step 5 - Select an Oracle database for the IUCLID Data Extractor application

Installation of IUCLID Data Extractor for the i	ndustry —		×
Databace connectivity config	uration		
Please specify the type of database	e to be used by the application. If you selected 'Oracle', the appropriate connection parameters must be filled in		
Embedded H2 database			
Existing Oracle databas	2		
Existing Postgres datab	ase		
Please provide the following conne	ction parameters	-	
Host name or ip: 100.65.8.153			
Port number: 1521			
Service name: XE			
Username: iuclidde			
Password:			
	Step 5 of 11 Revious Next	8	Quit

The default values in the screenshot above are shown below in parentheses:

- 1. The host name (or IP) of the database server (100.65.8.153)
- 2. The port number of the database server (1521)
- 3. The service name of the database (XE)
- 4. The username (iuclidde)
- 5. Password used to connect to the database (<hidden>)



If the option is selected for a Postgres database, a Postgres database is required. The process is the same as the creation of a database for IUCLID 6 Sever, which is documented in section 5.2.4. *PostgreSQL* of the document <u>Installation and Update Instructions for IUCLID 6 Server</u>. Pay attention to the caveat for the parameter max_prepared_transactions, which also applies to Data Extractor. After editing the value of the parameter, restart the *Windows service* for *Postgres*. The parameters for the database are entered into the wizard as shown below.

Figure 23: Installation wizard step 5 - Select a Postgres database for the IUCLID Data Extractor application

Installation of IUCL	ID Data Extractor for the industry		_		×
Datab	ace connectivity configuration				
Please	specify the type of database to be us	ed by the application. If you selected 'Oracle', the appropriate conne	ction parameters must be filled in		
	Embedded H2 database				
	 Existing Oracle database 				
	Existing Postgres database				
Please	Please provide the following connection parameters				
Host na	ame or ip: 127.0.0.1				
Port nu	imber: 5434				
Databa	se name: iuclid_de				
Userna	me: IUCLID6				
Passwo	ord:				
		Step 5 of 11	Previous Next	🚫 Qu	uit

The default values in the screenshot above are shown below in parentheses:

- 1. The host name (or IP) of the database server (127.0.0.1)
- 2. The port number of the database server (5434)
- 3. The name of the database (iuclid_de)
- 4. The username (IUCLID6)
- 5. Password used to connect to the database (<hidden>)

On selecting *Next*, the installer checks the connection to the database before proceeding to the next step. If it cannot connect to the database, it gives an error message.



Figure 24: Cannot connect to an Oracle database

Validatio	on failed	×
	Could not connect to the database due to invalid credentia	als
	Close	

Step 6 prompts for the following IUCLID connectivity information:

IUCLID Server Address: This is used to tell IUCLID Data Extractor the network address of the instance of IUCLID to which it is connected. It is used in the authentication of users, and to provide a link from the web interface of IUCLID Data Extractor to the instance of IUCLID. The form is:

<protocol>://<host>:<port number>

The value of <host> should be the IP address in number format for the machine that hosts IUCLID. Finding this value for localhost is described in section 3.3 Securing Cross-Origin Resource Sharing (CORS) in IUCLID. If the browser runs on the same machine as IUCLID Data Extractor, the value 127.0.0.1 can be used. However, in that case be aware that the browser may apply its own rule for CORS and block the authentication, in which case the interface becomes stuck at "Loading...". In the screenshots the address is: http://127.0.0.1:9080

IUCLID name: Enter a name to help the user of DE to identify the installation of IUCLID to which it is connected. The name is displayed in the GUI of DE. For example, *IUCLID 6 Server with DE*.

Figure 25: Installation wizard step 6 - IUCLID connectivity configuration

Sinstallation of IUCLID Data Extractor for	the industry	- 🗆	×
IUCLID connectivity conf	guration		
Please provide information at	out the IUCLID installation that the Data Extractor application is going to connec	ct to	
IUCLID server address: http	://127.0.0.1:9080		
(NOTE: please include the htt	p(s):// prefix)		
IUCLID name: IUC	ID 6 Server with DE		
	Step 6 of 11	A Previous Next 🔝 OL	iit



The next wizard step is displayed only if the IUCLID plugin is selected for installation in step 2. In this step the user is requested to provide the installation directory of IUCLID 6. After clicking on *Next*, the installer checks whether the value entered is a valid installation directory of IUCLID 6.

Figure 26: Installation wizard step 7 - IUCLID Data Extractor plugin configuration

Installation of IUCLID Data Extrac	tor for the industry			_		×
IUCLID Data Extra	ctor plugin configuration					
Please provide inform	ation about the IUCLID installation where the plugin	will be applied				
Installation directory:	C: \judid6-server	Browse				
IMPORTANT NOTE:						
In order for the IUCLI completed	ID Data Extractor plugin to be operational you will ne	ed to restart your IUCLID serve	er instance once the installation process	is		
	Step 7 of 11		Previous	Next	😢 Qu	it

At this point the wizard has gathered all data required for the installation and the following steps are informative of the installation process. Step 8 displays the progress of the copying of the selected components.



Figure 27: Installation wizard step 8 - Progress of the installation

S Installation of IUCLID Data Extractor for the industry	_		×
Pack installation progress:			
[Finished]			
Overall installation progress:			
2/2			
Step 8 of 11	ext	😢 Qui	t



Step 9 performs post-installation actions such as application server start-up, and application deployment.

C:\Window	vs\system32\cmd.exe - standalone.bat -c standalone-iuclidde-industry.xml -b 0.0.0.0 -Djboss.http.port=28080 -Djboss.https.port=28443 -Djb —	. 🗆	\times	
16:28:42,89 ss resource	95 INFO [org.jboss.resteasy.resteasy_jaxrs.i18n] (ServerService Thread Pool 86) RESTEASY002200 e eu.europa.echa.sda.iuclidde.rest.help.HelpResourceImpl from Application class eu.europa.echa.sda	: Addin .iuclid	g cla de.re	^
st.BaseApp 16:28:42,8	💦 Installation of IUCLID Data Extractor for the industry	—		\times
vider clas .BaseAppli 16:28:42,8	Post-install actions			
Vider Clas lidde.rest lidde.rest lid28:42,8 ss resourd de.rest.Base 16:28:42,8 ss resourd .rest.Base 16:28:42,9 i/juclic 16:28:43,1 16:28:43,2 inal) star 16:28:43,2 7.0.0.1:99 16:28:43,2 16:28:52,6 ult-Thread	1/1 Starting application server Application server started			
	Step 9 of 11	Next	😢 Qu	uit

Figure 28: Installation wizard step 9 - post-installation tasks

When the application starts, a CMD window opens. This is shown above, behind the wizard window. This must be left open if IUCLID Data Extractor is to keep running it. Closing the window shuts down IUCLID Data Extractor. The output shown in the window is the server log which is located at:

<installation directory>\wildfly-21.0.0.Final\standalone\log\server.log

On start up, the values of the environment variables are shown. On first start up there is an error message, '*No property named "filename"* ', which can be ignored. It does not occur on subsequent start-ups. An example of the first start-up is shown below.



UCLID 6

Figure 29: Content of log file 'server.log' on initial start-up of IUCLID Data Extractor

The final step of the wizard presents the user with information about the installation just performed. It states the URL used to access the application as well as the scripts that should be run to start - stop the application server. Make a note of the network address of the interface of IUCLID Data Extractor. In the example below it is http://100.65.8.153:28080/iuclidde.

Figure 30: Installation wizard step 10 - post-installation report

S Installation of IUCLID Data Extractor for the industry	_		×
Installation is complete			
The Data extractor application has been successfully installed. To access the application via HTTP use the following link: http://100.65.8.153:28080/iuclidde			^
To access the application via HTTPS use the following link: https://100.65.8.153:28443/iuclidde			
To start the application server you can run the following command			
C:\DE\v1.13.1\startup-server.bat			
while stopping the application is done by running			
C:\DE\v1.13.1\shutdown-server.bat			
IMPORTANT NOTE: The Data Extractor requires that the connected users have one of the following roles:			
APP_Agency_IUCLIDDE_Analyst APP_Agency_IUCLIDDE_Administrator			~
Step 10 of 11	Next	🕜 Don	e

The last page of the wizard is a reminder to restart IUCLID. Before doing that, if IUCLID 6 is version 6.27.1 or later, check that the configuration step has been done that is described in section *3.3 Securing Cross-Origin Resource Sharing* (CORS) in IUCLID.

Figure 31: The final step of the installation wizard

Installation of IUCLID Data Extractor for the industry			×
Installation is complete			
The Data extractor plugin application has been successfully installed to your IUCLID installation. In order for the plugin operational, IUCLID must be restarted	to t	e	
Sten 11 of 11		P Do	ne
		000	- L3

At the end of the installation, IUCLID Data Extractor is left running. After clicking on *Done*, following a successful installation and start-up, there should be an entry in the command window "Started 575 of 798 services (395 services are ...", as shown below.

Figure 32: Content of log file 'server.log' after a successful start-up of IUCLID Data Extractor

📾 C:\Windows\system32\cmd.exe - standalone.bat -c standalone-iuclidde-industry.xml -b 0.0.0.0 -Djboss.http.port=28080 -Djboss.https.po 🛛 🗙
19:06:33.303 INFO [org.jboss.resteasy.resteasy jaxrs.i18n] (ServerService Thread Pool 91) RESTEASY002205: A
dding provider class eu.europa.echa.idm.nx.token.authentication.jaxrs.server.TokenAuthenticationContainerFilter
from Application class eu.europa.echa.sda.iuclidde.rest.BaseApplication\$Proxy\$ \$\$ WeldClientProxy
19:06:33,421 INFO [org.wildfly.extension.undertow] (ServerService Thread Pool 91) WFLYUT0021; Registered we
b context: '/iuclidde' for server 'default-server'
19:06:33.546 INFO [org.jboss.as.server] (ServerService Thread Pool 48) WFLYSRV0010: Deployed "echa-iuclidde
-industry-war.war" (runtime-name : "echa-iuclidde-industry-war.war")
19:06:33.639 INFO [org.jboss.as.server] (Controller Boot Thread) WELYSRV0212: Resuming server
19:06:33.671 INFO [org.jboss.as] (Controller Boot Thread) WFLYSRV0025: WildFlv Full 21.0.0.Final (WildFlv Core
13.0.1.Final) started in 22470ms - Started 575 of 798 services (395 services are lazy, passive or on-demand)
19:06:33.671 INEO [org.iboss.as] (Controller Boot Thread) WELYSRV0060: Http management interface listening on
http://127.0.0.1:9999/management
19:06:33.671 INEO [org.iboss.as] (Controller Boot Thread) WELYSRV0051: Admin console listening on http://127.0
19:06:43.110 INFO [org.hibernate.ho].internal.QuervIrans]atorFactorvInitiator] (FE-ManagedScheduledExecutorSer
vice-default-Thread-1) HHH00397: Using ASTONER/TranslatorEactory

Warning

Clicking in the CMD window so that it becomes the focus in Windows, can cause it to enter *Select* mode, which freezes IUCLID Data Extractor. For more information, see section *5.1 Warning about logging in, and unresponsive* behaviour.



4.3. Linux and running the installer in text-only mode

In an environment with no windowing system, for example a headless Linux server, the installation is started manually from the command line, and runs in text-only mode. The command is:

\$ java -jar iuclidde-installer.jar

The options presented and end results are the same as running the graphical installer.

If a graphical windowing system is available, the command above runs the graphical installer.

5. Post-installation

If IUCLID 6 is version 6.27.1 or later, check that the configuration step has been done that is described in section 3.3 Securing Cross-Origin Resource Sharing (CORS) in IUCLID.

If the installation has worked properly, start, or re-start, IUCLID 6 to allow it to recognise the newly installed plugin for IUCLID Data Extractor. Start the interface of IUCLID Data Extractor by pointing a web browser to the address given on the final page of the installation wizard. The example given there is:

http://100.65.8.153:28080/iuclidde

If the browser and IUCLID Data Extractor run on the same machine, the following would also work in the example:

http://localhost:28080/iuclidde

Log in as a IUCLID User that has the correct access rights.

Figure 33: Log in as a IUCLID User

	Please sign in
SuperUser	
••••	
	Login

On logging in, the available definitions of IUCLID format are stated. Click on Close to continue.



UCLID 6

	🚺 Data	a Extracto	r	[version 1.11.1]
		http://l	IUCLID for D localhost:21080	E)/webstart
	Definitions			
	SCIP 4.0	EU_BPR 8.0	EU ECHA 1.0	AU Industrial Chemicals 5.0
0	CORE 8.0	New Zealand Haz	zardous Substances	and New Organisms 4.0
	EU_CLP 8.0	EU REACH 8.	0 EU EFSA 1	.0
	EU Drinking Wa	ater Directive 1.0	OECD 8.0	EU_PPP 4.0
	UK Test (do no	t use) 1.0		
			CLOSE	

Figure 34: IUCLID definitions shown on logging in to IUCLID Data Extractor

Next, the working contexts, formerly know as submission types are loaded.

Figure 35: Loading of the working contexts / submission types



Once the green box appears, click on Close. The list of extractions is shown. Initially it is empty.

The list of extractions is shown. Initially it is empty.

Figure 36: The list of extractions

Data Extractor	0	(?)	«/> API	DE_Admin_1 🗸
[version 1.9.0]	IUCLID 6 Server with DE http://localhost:46080/webstart			
	New Zealand Hazardous Substances and New Organisms 3.0 AU Industrial Chemicals 4.0 EU REACH 7.0 EU_PPP 3.0 OECD 7.0 EU_CLP 7.0 CORE	.0		
	Extractions C O Import		+ New extraction	on
d	Q. Type at least 3 characters D results found	¢	Newer first	•

On some systems, dependent on the width of the browser window, and the screen resolution, the menu for the user at the top right, can be obscured. To see the menu, expand the width of the interface. Closing the information banner can allow for a narrower screen, as highlighted below.



Data Extractor [version 1.9.0]	Û	⑦ ✓ API ① DE_Admin_1 ✓
Extractions 😂		• New extraction
Yupe at least 3 characters 0 results found		Newer first

To test the system, create an extraction via the button *New extraction*. The functionality of the interface is described in a user manual on the IUCLID website <u>here</u>.

5.1. Warning about logging in, and unresponsive behaviour

If log in does not work, or IUCLID Data Extractor becomes unresponsive, try the following:

1. Check whether the CMD window for IUCLID Data Extractor is in *Select* mode. This mode prevents output from being written to the console, and therefore under certain circumstances freezes IUCLID Data Extractor. To check the mode of the CMD window, look in the top left of the window for the word *Select*, as shown below.





Select mode is entered when any text in the window has been selected. To exit *Select* mode, press the Enter key. To prevent *Select* mode from being entered, untick the box for *QuickEdit* in the properties of the CMD window. These are accessed by right-clicking in the title bar of the window, as shown below.





Com "Com	mand Pr	rompt" Pr	operti	es	×
Options	Font	Layout	Colo	urs	
Curso Sm Me Lar	r Size all dium ge			Command History Buffer Size: 50 🜩 Number of Buffers: 4 🜩]
Edit O Qu Ins En: Filte	Edit Options Quick Edit Mode Insert Mode Enable Ctrl key shortcuts Filter clipboard contents on paste				
Text Selection Enable line wrapping selection Extended text selection keys					
Current code page 850 (OEM - Multilingual Latin I)					
Use legacy console (requires relaunch, affects all consoles) Learn more about <u>legacy console mode</u> Find out more about <u>new console features</u>					
				OK Canc	el

- 2. Delete the cached data in the web browser, and then reload the log in page using Ctrl F5. If that does not work, restart IUCLID Data Extractor, and clear the browser cache again.
- 3. Check that the plugin is installed in IUCLID, and that IUCLID has been restarted after IUCLID Data Extractor was installed. Wait for IUCLID to start fully. The plugin is the file indicated below. The version number in the file name is not necessarily the same as the version of the IUCLID Data Extractor application:

```
<iuclid installation directory>
\payara5\glassfish\domains\domain1\iuclid6\
echa-iuclidde-extension-1.7.0.jar
```

- 4. Check in IUCLID that the Roles are set up correctly.
- 5. If on logging in, the box into which user credentials are entered becomes stuck and will not close, it should be possible to view the list of extractions by clicking on the link *IUCLID Data Extractor* at the top left of the interface.
- If the browser on which the interface to *IUCLID Data Extractor* is run on a different machine from IUCLID, check that the following properties contain the correct host and port: *token.industry.url* s2s.url con.iuclid.url



con.iuclid.api

The values should be the absolute network address of IUCLID relative to the browser. In this case, the host is **not** localhost.

7. Restart IUCLID.

If the installation is unsuccessful, check the following logs:

8. IUCLID Data Extractor

<IUCLID Data Extractor installation. folder> \wildfly-21.0.0.Final\standalone\log\server.log

9. IUCLID

<IUCLID installation directory>\payara5\glassfish\domains\domain1\logs

If you manage to determine what caused the problem, you can delete the contents of the IUCLID Data Extractor installation folder, and then install again. If however the problem is not clear, create a ticket at the ECHA Helpdesk. Provide a detailed description of your what you did, screenshots, and all the logs.

5.2. SSL - HTTPS

DE can be accessed using HTTPS. By default, DE trusts a default IUCLID. In a real set up, you will have to install your own certificates. The process is similar to that for IUCLID, as described in the manual *Installation and Update Instructions for IUCLID 6 Server*.

DE is supplied with a default trust store that can be replaced by a custom file using a setting in the configuration file iuclidde-industry.properties described in then next section. The parameters are:

con.iuclid.truststore.file

con.iuclid.truststore.pass

5.3. Settings the ports for DE

The ports at which DE runs are set in the script startup-server.bat, using the parameters listed below.

Djboss.http.port

Djboss.https.port

Djboss.management.http.port

Their values are set during installation, but they can be changed later by editing the script and then restarting DE.



UCLID 6

5.4. What to do if the interface is stuck at "Loading..."

If on logging in to IUCLID Data Extractor, the interface becomes stuck at "*Loading*...", as shown below, the authentication is blocked in IUCLID due to a security restriction placed on *Cross-Origin Resource Sharing (CORS)*.

Figure 38: Interface stuck at "Loading..."



The configuration of IUCLID for CORS is described in section *3.3 Securing Cross-Origin Resource Sharing (CORS) in IUCLID*. Use the example checklist below to check the consistency of the overall setup. The hosts and ports used in the browser to access IUCLID and IUCLID Data Extractor must be consistent with the values in the three files indicated below. The red arrows indicate where a port is defined, and where that value is read by the other application.

Figure 39: Example of hosts and ports

<iuclid 6="" folder="" installation=""> \payara5\glassfish\domains\domain1\config\domain.xml</iuclid>			
HTTP_LISTENER_PORT	21080		
HTTP_SSL_LISTENER_PORT	21181		
eu.echa.iuclid6.idp.cors.allowed. origin.patterns	http://100.65.8.153:28080,http://localhost:28080,https://100.65.8.153 :28434,https://localhost:28434		
<iuclid data="" extractor="" folder="" installation=""> \config\iuclidde.industry.properties</iuclid>			
token.industry.url=	http://100.65.8.153:21080/juclid6-idp-ws/service/token		
token.industry.client.url=	http://100.65.8.153:21080 iuclid6-idp-ws/service/token		
s2s.url=	http://100.65.8.153:2108//iuclid6-idp-s2s-ws/service/token		
con.iuclid.url=	http://100.65.8.153:210/0/webstart		
con.iuclid.api= http://100.65.8.153:2/080/iuclid6-ext/api/ext/v1/			
<iuclid data="" extractor="" folger="" installation="">\startup-server.bat</iuclid>			
- <u>Diboss.http.port</u> =	28080		
-Djboss.https.port=	28443		

6. Maintenance

When the installation is complete the directory specified in step 3 contains all the files required for IUCLID Data Extractor to be operational. It contains the JBoss Wildfly application server folder where the application is deployed, as well as the appropriate scripts to start and stop the server. These scripts are:

startup-server.bat

shutdown-server.bat

The configuration parameters for the IUCLID Data Extractor application are in a file named iuclidde-industry.properties under the directory config. This file is created during the installation process. It needs to be edited only if some aspect of the set up is changed. The application must be restarted for changes to take effect. The parameters are described below.

Table 2: Configuration file iuclidde-industry.properties

Property	Description	Comments
iuclidde.db.driver	The name of the driver used to connect to the database	Allowed values are H2 or Oracle. The names are case sensitive.
iuclidde.db.url	Database URL	
iuclidde.db.username	Database credentials: username	
iuclidde.db.password	Database credentials: password	
attachments.dir	Name of the folder where attachments extracted from IUCLID are stored	Default value is a folder within the application server installation directory, but any valid accessible folder can be used.
token.industry.url	Used in authentication of the IUCLID User when logging in. The base URL is that of IUCLID.	Default is: http:// <host:port 6="" from="" of="" step="" the<br="">installer>/iuclid6-idp- ws/service/token</host:port>
s2s.url	Used in authentication of the IUCLID User when logging in. The base URL is that of IUCLID.	Default is: http:// <host:port 6="" from="" of="" step="" the<br="">installer>/iuclid6-idp-s2s- ws/service/token</host:port>
token.system.user	Used in authentication of the IUCLID User when logging in.	Default is: app_iuclid
token.system.password	Used in authentication of the IUCLID User when logging in.	Default is: admin12345_
help.url	URL to access the Data Extractor help.	The help on the IUCLID website is at: https://iuclid6.echa.europa.eu



		/documents/1387205/5614205 /data_extractor_user_manual_en.pdf
job.pool.size	Number of extraction jobs in the pool	
extraction.result.expiry	Duration after which the extraction results will expire	ISO-8601 notation used
job.lock.expiry	Duration after which job lock will expire	ISO-8601 notation used
cache.lifespan.unit cache.lifespan.value	The duration of cached objects in the server.	Used for the caching of entities retrieved from IUCLID that are known not to change frequently, e.g. Document definitions.
cache.maxIdle.value cache.maxIdle.unit	The maximum time an entity can remain idle in the cache	This is used to determine the max idle time before a user session is expired. (default = 10 minutes)
poll.extraction.expiration	Polling interval for extraction expiration	Set in seconds
poll.job.dispatch	Polling interval for job dispatching	Set in seconds
poll.job.lock.expiration	Polling interval for extraction job lock expiration	Set in seconds
con.iuclid.url	The url of the IUCLID installation.	Default is: http:// <host:port 6="" from="" of="" step="" the<br="">installer>/webstart</host:port>
con.iuclid.api	The URL of the IUCLID REST API.	Default is: http:// <host:port 6="" from="" of="" step="" the<br="">installer>/iuclid6-ext/api/ext/v1/</host:port>
con.iuclid.confidential	Display an indicator in the GUI to state that IUCLID contains confidential data	Boolean value, with default value of false.
con.iuclid.name	A name to help the user of DE to identify the installation of IUCLID. It is displayed in the application's GUI.	
con.iuclid.authmode	The mode in which the data extractor communicates with IUCLID.	Do not change this. Default is <i>REQUESTOR</i> .
con.iuclid.truststore.file	The absolute path of a custom trust store.	Default value is: <installation directory=""></installation>



		\wildfly-21.0.0.Final\standalone \configuration\iuclidde.keystore
con.iuclid.truststore.pass	The password for the custom trust store defined above.	

Appendix A. Example configuration for an Oracle database

It is the responsibility of the database administrator to configure an Oracle database correctly and to manage the data it contains effectively. The commands below are provided only as examples.

The commands below have been tested and shown to work with a default installation of Oracle XE 18 c. To use the default pluggable database that is delivered with Oracle XE. The command to log in is:

C:\WINDOWS\system32>sqlplus SYSTEM@localhost:1521/XEPDB1

The commands to create the user in Oracle and the expected responses are:

SQL> create tablespace IUCLIDDE_TS datafile 'IUCLIDDE_TS.dbf' size 1G
autoextend on next 50M maxsize 2G;
Tablespace created.
SQL> create user IUCLIDDE identified by IUCLIDDE default tablespace
IUCLIDDE_TS quota unlimited on IUCLIDDE_TS;
User created.
SQL> grant connect, create session to IUCLIDDE;
Grant succeeded.
SQL> grant resource to IUCLIDDE;
Grant succeeded.

If these values were used, the values to go in step 5 of the installer would be:

- 1. Host name (or IP) of the database server = localhost
- 2. Port number of the database server = 1521
- 3. Service name of the database = XEPDB1
- 4. Username = IUCLIDDE
- 5. Password used to connect to the database = IUCLIDDE

