



# LECTRA ENTERPRISE SOLUTIONS

## Installation Guide

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Modifications made to the document since its last publication are highlighted in blue.

## 1. GENERAL OVERVIEW

### 1.1 Scope of this document

This document describes the Lectra Enterprise Server Installer usage. It explains all the screens displayed during the installation process. All fields are explained: definition, expected values and validation rules.

This document does not describe how the Installer performs the installation, but focuses on the required interaction from the user to complete the installation.

### 1.2 Target versions

This document is only applicable for Lectra Enterprise Solutions Server versions based on Lectra Fashion Platform from release V4R4. This installer is applicable to the PLM Solutions including Lectra Fashion PLM.

Older versions must be installed with corresponding documentation.

### 1.3 Related documentation

ID	TITLE	REFERENCE
1	Installation Oracle	Oracle_Quick-Installation-Guide_en.pdf

### 1.4 Terms definition

The following terms will be used in this document:

JVM = Java Virtual Machine, is an application that interprets compiled Java binary code (called byte code) for a computer's processor (or "hardware platform") so that it can perform a Java program's instructions.

Fashion Integration Platform (FIP) = set of technical components of the Lectra Fashion Platform

### 1.5 Customer Environments

The Customer's Environments shall remain under the sole direction, control and responsibility of the Customer.

The Customer acknowledges and agrees that resident applications in Equipment or Software may be affected, or impaired by the implementation of upgrades, updates or other changes to the Customer's Environments (e.g. firmware, operating systems, utility or other software programs).

Lectra disclaims any and all liability for losses or damage which may arise out, or in connection with, the implementation by the Customer of upgrades, updates or other changes to its Environments.

## 2. BEFORE YOU BEGIN

This section describes all the components which will be installed using the Enterprise Server Installer and the infrastructure recommendations associated with them. Before installing, you need to review the Enterprise Server architecture adapted to your installation according to your hardware requirements.

### 2.1 Third party components

#### 2.1.1 Oracle JDK

Oracle JVM required for all J2EE applications.

#### 2.1.2 Wildfly Server

This server is required for PLM Java EE application.

#### 2.1.3 HornetQ

HornetQ is an open source project to build a multi-protocol, embeddable, very high performance, clustered, asynchronous messaging system.

#### 2.1.4 Apache HTTP Server

The most popular web server, this component offers to us flexibility to configure our application. Add a dedicated server in front of application server is a common best practice.

### 2.2 Lectra components

#### 2.2.1 Lectra Operator Server

This is the component responsible for the generation of thumbnails and extraction of metadata from the image.

#### 2.2.2 Lectra File Manager Directory Watcher<sup>1</sup>

The **File Manager Directory Watcher** is a tool which allows users to establish a link between a local directory and a directory of the Enterprise Server. It is a Windows service which examines the local folder, without taking into account the hierarchy between files, in order to load all the newly-created files into the remote folder on the server.

#### 2.2.3 Fashion Integration Platform (FIP)

The FIP Platform provides the next-generation global enterprise architecture for managing Lectra Fashion PLM Platform.

<sup>1</sup> Optional component depending on the offer

- n-tier,
- standards-based,
- service-oriented architecture,
- leveraging Web services, J2EE, XML and analytics technologies, providing visibility, control, collaboration, and decision support of product management across all the enterprise solutions.

### **2.2.4 Product Development<sup>2</sup>**

Product Development Module is the second component of PLM solution. That is the main web application of PLM solution.

### **2.2.5 Lectra Database Bundle**

These are scripts installed on the server to install and manage the application database.

### **2.2.6 Lectra Fashion PLM System Administration**

Allows the consultation and updating of the PLM system configuration.

### **2.2.7 Lectra ModaREST**

Lectra ModaREST allows querying Modaservice with REST.

### **2.2.8 Lectra patches; content processor**

Allows the extraction of unprocessed MTG and MDL files from database and calls Lectra operator server to process them.

## **2.3 Targeted infrastructure**

### **2.3.1 Small configuration (one server)**

In this infrastructure, all components will be installed on the same server.

This infrastructure may be used when there are less than twenty users.

### **2.3.2 Typical configuration (three servers)**

In this infrastructure there are three servers, this infrastructure is recommended for between 20 to 60 users.

Three servers are:

- Database server;
- Reporting and file processing server (asynchronous server);

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<sup>2</sup> Optional component depending on the offer

- Application Server (synchronous server).

### 2.3.3 Custom configuration

No infrastructure is defined for this type of installation. The R&D PLM Support team shall be contacted first to get a customized infrastructure defined.

## 2.4 How to read the documentation

In the screens description, fields are listed in a table. Each entry indicates the field name, the description and the validation rule.

Field Name	Description	Validation rule
------------	-------------	-----------------

## 3. SOFTWARE INSTALLATION

This section describes the prerequisites and the installation processes presented by the Lectra Fashion PLM Installer: executables, screens and fields.

### 3.1 Prerequisites

#### 3.1.1 Administrator rights

You must have Windows administrator rights to perform the installation.

#### 3.1.2 Dedicated user for PLM

##### 3.1.2.1 Local account

It is possible to use a local account. This Windows account must be created on the server. This User must be a member of Administrators group.

The user must have the same login and password on all the servers.



Installation must be launched with this user.



Local account cannot be use if the content repository is located on network resource.

##### 3.1.2.2 Domain account

It is possible to use a domain account. This user must be a member of Administrators group.



Installation must be launched with this user.

### 3.1.3 Windows Services

The Installer creates and starts some windows services. To avoid any problem at the creation of these services, make sure “Services” tool is not running during installation.

### 3.1.4 License Server installation

The License Server can be installed from the CD “LectraFLEXIm Server” before launching the Lectra Enterprise Installer.

If not, the Lectra Enterprise Server allows running the installation of the License Server. See chapter 3.6.3 in that document.

### 3.1.5 Database installation

#### 3.1.5.1 Oracle

Please refer to the document ref. [1] for the installation procedure.

#### Default mode

The following rules must be respected for a Small or Typical installation if you do not want to use the advanced mode (described in the next section):

- The Listener port: 1521
- An Instance named LDPLM000 must be created
- The oracle “system” account password must set to “LDPLM000”



The Lectra Enterprise installer is designed to work with database schemas named PLM\_01 and PLM\_01\_JMS. These schemas are created during installation.



Local database instance LDPLM000 must not content these schemas.

#### Advanced mode

The installer offers the capability to use other database settings than the default ones; it is very useful for security reasons and offers more flexibility to match the database administrator recommendations.

The advanced mode can be activated in the installation process thru a checkbox whose label is “Advanced mode”.

Note: The schemas set in the installer screens are created during installation.



The database instance must not content these schemas.



### Using a remote database server

Why use a remote database?

- You do not have enough rights to directly connect to the database server;
- You want to use a database hosted on an operating system not supported by the installer;
- You want to use a Small installation type which is easier but using a database instance located on a dedicated server.

The installer is able to do the installation on a remote database server using the Oracle client layer. So, there is a prerequisite if you want to do that, the Oracle client must be installed on the server where you launched the installer.

Please refer to the document ref. [1] for the installation procedure.



There is a limitation in this installer that forces to use the ORACLE\_SID as the alias in the tnsnames.ora.

The following configuration could be used. That is an extract of the tnsnames.ora file located (default location) in C:\app\<username>\product\11.2.0\client\_1\network\admin\

For more details, please refer to the dedicated documentation.

```
<ORACLE_SID> =  
(DESCRIPTION =  
  (ADDRESS = (PROTOCOL = TCP)(HOST = <SERVER_NAME>)(PORT = <LISTENER_PORT>))  
  (CONNECT_DATA =  
    (SERVER = DEDICATED)  
    (SERVICE_NAME = <ORACLE_SID>)  
  )  
)  
ORACLR_CONNECTION_DATA =  
(DESCRIPTION =  
  (ADDRESS_LIST =  
    (ADDRESS = (PROTOCOL = IPC)(KEY = EXTPROC1521))  
  )  
  (CONNECT_DATA =  
    (SID = CLRExtProc)  
    (PRESENTATION = RO)  
  )  
)
```

Where ORACLE\_SID = the ORACLE\_SID of the remote database  
SERVER\_NAME = the database server hostname  
And LISTENER\_PORT= the listener port (default value 1521)



If the message "It seems that your Oracle Client configuration does not work", you must check your tnsnames.ora.

To validate the configuration, you can use the command tnsping.

```
tnsping <ORACLE_SID>
```

Where ORACLE\_SID is the database instance name.

the result must display OK (xx msec)



### **3.2 Launching the Lectra Enterprise Installer**

The Enterprise Installer is a Windows executable.

The installer name is: **installer-LectraEnterprise-<VERSION>.exe**

This executable is a self-extracting executable that launches the Installer after deploying the Sun Java Runtime on the server. No prerequisites are required to be able to launch the Installer on the server.

### 3.2.1 Optional – configuration file load during installation

It is possible to load configuration files during installation process.

To use this feature, it is necessary to:

- Create a folder named “config” in the same folder than the installer executable;
- Create a folder named “bundles” in the folder “config”;
- Copy into the "bundles" folder the configuration bundles you want to load.

### 3.2.2 Running installer

The installer is a self-extracting executable that launches the Installer after deploying the Sun Java Runtime on the server. No prerequisites are required to be able to launch the Installer on the server.

Double-click on executable to launch the Installer. If a popup appears, click on “Open” or “Run” to initiate the installation.

A progression bar indicating the status of the extraction is displayed, when the extraction is completed, a new MS-DOS window is launched. This window must not be closed during the installation procedure.



Data extraction may take a few minutes.

## 3.3 Small installation

The following table lists all the screens displayed in the small installation process.

Clicking on the screen name allows going to the screen description in this documentation.



The “[option value]” indicates the option to select on the screen.

[License Panel](#)  
[Offer Selection](#)  
[Target Path](#)  
[Installation Type \[Small\]](#)  
[Required Information](#)  
[Database settings \[in advanced mode\]](#)  
[Content Folder](#)  
[Customization deployment 3](#)  
[Installation Summary](#)  
[Installation Screen](#)  
[Installation Finished](#)  
[Result Small](#)

---

<sup>3</sup> This screen is displayed only if a customization installer or a config folder is detected in the same folder as the installer executable.


### 3.4 Typical Installation

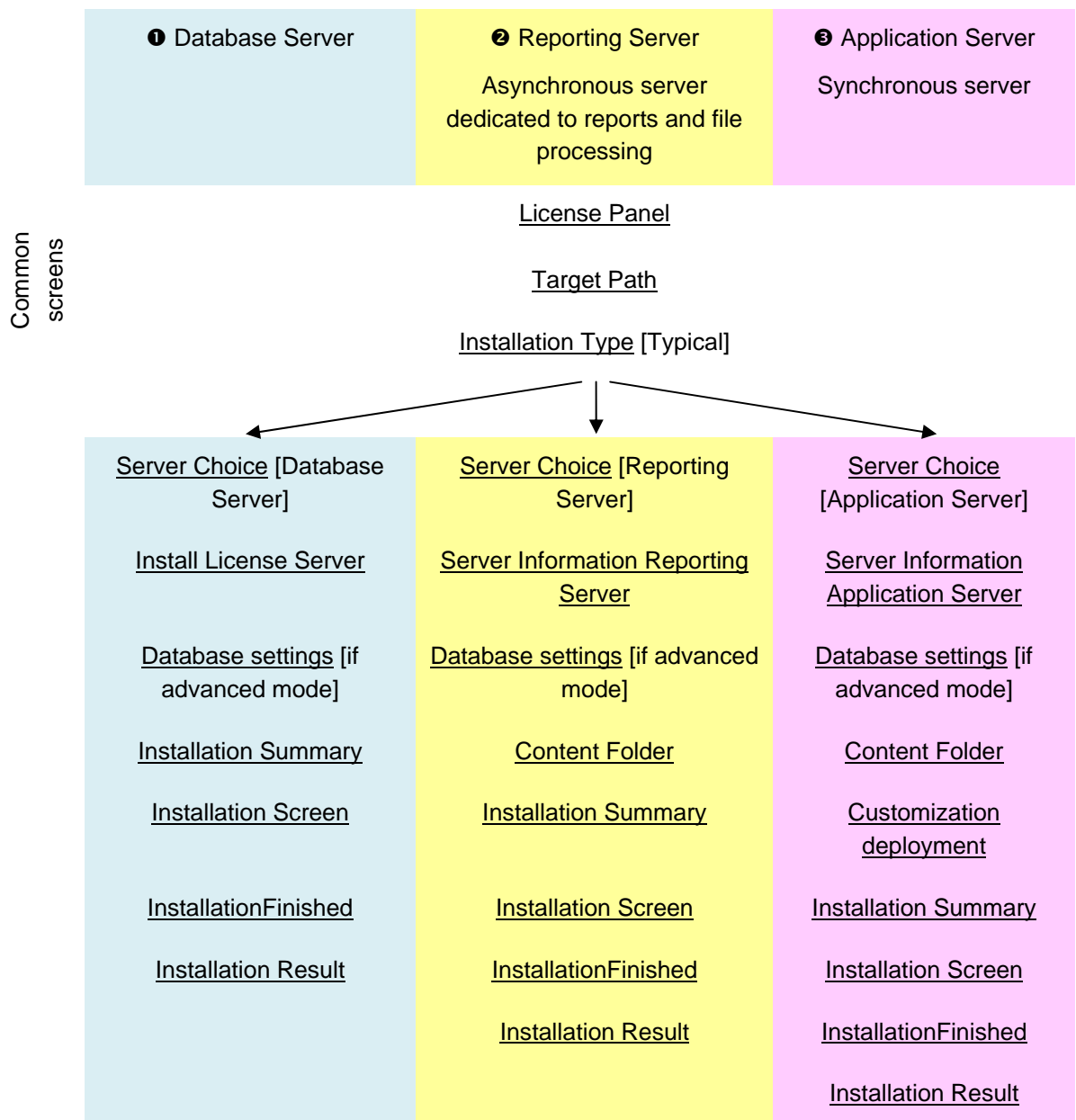
The typical infrastructure consists of three servers.

The Installer cannot perform a remote installation on all three servers at the same time in this targeted infrastructure, so the Installer must be launched three times: once on each server.

To perform this installation, you must launch the Installer onto each server individually.


Note that the order of the installation process must be respected:

 The "[option value]" indicates the option to select on the screen.



### 3.5 Custom Installation


The following matrix describes component location in typical configuration.


 The (X) means selection is optional.

The \* means that the component does not exist in all the offers.

Component / Server	Application Server	Reporting Server	Database Server
License Server			(X)
Oracle JDK	X	X	X
JBoss/Wildfly	X	X	
Database Bundle			X
PLM System Administration	X		
Operator Server		X	
Lectra ModaREST		X	
Lectra File Directory Watcher *		X	
PLM Package	X	X	
Apache Http Server	X		
HornetQ		X	
PLM Asynchronous server configuration		X	
Install customization	(X)		
PLM synchronous server	X		
PLM initialization package	X		
Load configuration and initialization files	(X)		

The following table lists all the screens displayed in the custom installation process.

 All the screens marked with an \* are optional, depending on the pack selection.

 The “[option value]” indicates the option to select on the screen.

Clicking on the screen name allows going to the screen description in the documentation.

[License Panel](#)

[Offer Selection](#)

[Target Path](#)

[Installation Type \[Custom\]](#)

[Packs Selection](#)

[Database settings](#)

[Wildfly settings \\*](#)

[Lectra Operator Settings \\*](#)

[Asynchronous Server settings \\*](#)

[Synchronous Server Settings \\*](#)

[Apache settings \\*](#)

[Customization deployment \\*](#)

[Installation Summary](#)

[Installation Screen](#)

[Installation Finished](#)

[Result Custom](#)

## **3.6 Installer Common Screens**

### **3.6.1 License Panel**

You must accept this license agreement to continue with the installation.



The bottom of the "TERMS OF USE" lists all third parties components licenses.

### **3.6.2 Offer Selection**

This screen allows you to select the application to be deployed.

The following solution is available:

- Lectra Fashion PLM

Select the desired application, and then click on "Next".

### **3.6.3 Target Path**

This screen allows you to select the target installation directory for the application.

Only the Lectra components will be deployed in this directory, other 3rd party prerequisites are installed in the standard Program files directory.

### 3.6.4 Installation Type

This screen allows selecting the installation type you want to do. There are three choices:

- Small: all component will be installed on the server;
- Typical: infrastructure with three servers (Database Server, Reporting Server, Application Server);
- Custom: the most flexible but also with more inputs. Allows defining which component(s) will be installed on this server.

### 3.6.5 Required Information

FIELD NAME	DESCRIPTION	VALIDATION RULE
<b>Messaging server (SMTP host)</b>	Name of the Messaging Host Server e.g. "mail.lectra.com"	No check
<b>PLM System 's Root user password</b>	The password of the platform root user. Default value: lectra	Mandatory field with length > 5
<b>License server</b>	Name of the License Server  <u>Note: If the "@" character preceding server name is omitted, the installer automatically adds it.</u>  <u>e.g. "plmlicenser" becomes "@plmlicenser"</u>  <u>If PLM licensing is not configured on the license server's default port (27000), it should be set to avoid a time-consuming port scan at each request.</u>  <u>e.g. "27003@plmlicenser"</u>	Check that the license PLM_USER is available
<b>Install license server</b>	If this field is checked a license server will be installed on the server	If selected : Check that the lic and opt files are available in the folder config/licenses  "Config" is a folder located in the same folder than the installer
<b>Windows "System" user login</b>	Windows System Administrator account (local or domain)  Dedicated user for the platform	Mandatory field
<b>Windows "System" user password</b>	Windows System Administrator user password	Mandatory field
<b>DNS name of application server</b>	DNS name of the application server. This name must be accessible for all recipients of	Mandatory field



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FIELD NAME	DESCRIPTION	VALIDATION RULE
	notifications. The mails sent by the application contain link based on this name.  This field could be set with the server hostname.	



---

<b>Advanced mode</b>	<p>Activating this mode allows using a database instance that does not match Lectra prerequisites.</p> <p>Activating this mode allows using a remote database.</p> <p>A dedicated screen will be displayed in the next step if this option is checked.</p>
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### 3.6.6 Database settings

This screen is available in several contexts:

- Small installation advanced mode,
- Typical installation, advanced mode
- Custom installation, every time but with more information if the “Database Bundle” pack is selected.

Depending on the context, some fields can be hidden.

 Changing the database server hostname allows using a remote database. In fact, it is possible to specify a remote hostname. If you want to do that, the Oracle client must be installed and configured on the server. Please refer to the dedicated section in this document for more details.

FIELD NAME	DESCRIPTION	VALIDATION RULE
<b>Database server</b>	Database server hostname. Default value is localhost.	JDBC connection test + oracle client connection test
<b>Admin password</b>	Password of system Oracle user.	Connection test with system user
<b>Instance name</b>	Name of Database instance to use	Connection test with system user
<b>Listener port</b>	Oracle listener port	Valid number format Connection test with system user
<b>PLM schema</b>	PLM dedicated schema to create	Mandatory field
<b>PLM schema password</b>	PLM schema password	Mandatory field

### 3.6.7 Content Folder

This screen allows defining the Content Repository folder. A default value is proposed by the Installer. It is recommended to choose another location on the server. In fact, default value is a sub folder of installation path and could be deleted during uninstall if the option “force directory deletion” is selected in uninstaller.



It is necessary to create a backup before uninstalling the application and removing this folder.

### 3.6.8 Customization deployment

This screen is optional. It is displayed if a “config” folder or a customized Installer is detected in the Installer base directory. This screen contains one or two checkboxes:

- If a “config” folder exists in the same folder as the Installer, the “load data and configuration” checkbox is displayed.
- If a pdm-custom-installer.jar (customization installer) file is detected in the same folder as the installer, the “update application with customization” checkbox is displayed.

FIELD NAME	DESCRIPTION	VALIDATION RULE
Load data and configuration ...	Checked or unchecked	If checked, all the zip files contained in the config/bundles will be loaded
Update application with customization	Checked or unchecked	If checked, the customization installer will be launched

### 3.6.9 Server choice

This screen allows you to select the server for the installation.

There are three choices:

- Database Server,
- Reporting Server,
- Application Server.



Remote installation is not possible; you must select the Server on which you have launched the Installer

### 3.6.10 Install License server

This screen allows you to choose to install the license server or not. This is required only if you do not have yet the LectraFLEXImServer component already installed. In such a case, it has to be installed on the database server.

Note: if you want to install a license server, you can pre-configure the license server file (.lic) and eventually the option file (.opt). They must be placed in config\licenses folder before launching the Installer.

FIELD NAME	DESCRIPTION	VALIDATION RULE
<b>Install license server</b>	Install license server	
<b>Advanced mode</b>	<p>Activating this mode allows using a database instance that does not match Lectra prerequisites.</p> <p>Activating this mode allows using a remote database.</p> <p>A dedicated screen will be displayed in the next step if this option is checked.</p>	

### 3.6.11 Installation summary

This screen displays a summary of data input during setup. That screen is the last one before the installation on the server really starts.

The "next" button launches the installation process. This screen allows checking parameters before start the installation.

### 3.6.12 Servers information (Reporting Server)

This screen displays required information necessary to install the Reporting server.




A Windows "System" User account will be used to manage rights on PLMContentRepository. In fact this folder is located on the Reporting Server and is shared with the Application server.

FIELD NAME	DESCRIPTION	VALIDATION RULE
<b>License server</b>	<p>Name of the License Server</p> <p>Note: The "@" character must not be added at the beginning, the installer does this for you.</p> <p>e.g. "plmlicensserver"</p>	Check that the license PLM_USER is available
<b>Database server</b>	Name of the Database server	An SQL request is issued to validate the connection with the Database server.
<b>System user login</b>	Windows "System" User Account. This account must be a member of the Administrators group. This user must exist on both the Reporting Server and the Application Server	None
<b>System user password</b>	Windows "System" User Password.	None


<b>Advanced mode</b>	<p>Activating this mode allows using a database instance that does not match Lectra prerequisites.</p> <p>A dedicated screen will be displayed in the next step if this option is checked.</p>	None
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### 3.6.13 Servers information (Application server)

This screen displays information required to install the Application server.

 Note: Windows "System" user account defined in this screen will be used to launch the JBoss/Wildfly server application as service.

The Reporting server and the Application server must share the content (PLMContentRepository) located on the reporting server. Using a "system" account allows to access the content repository shared on the reporting server from the application server.

 You must input the same user as during the reporting server installation.

FIELD NAME	DESCRIPTION	VALIDATION RULE
<b>License server</b>	<p>Name of the License Server</p> <p>Note: The "@" character must not be added at the beginning, the installer does this for you.</p> <p>e.g. "plmlicensesserver"</p>	Check that the license PLM_USER is available
<b>Database server</b>	Name of the Database server	An SQL request is issued to validate the connection with the Database server.
<b>Reporting Server</b>	Reporting server name	Check that the PLMContentRepository shared folder is available on this server
<b>Messaging server (SMTP host)</b>	<p>Name of the Messaging Host Server</p> <p>e.g. "mail.lectra.com"</p>	No check
<b>PLM System root user's password</b>	<p>Windows User account. This account must be member of "Administrators" group of the server. This user must exist on both Reporting Server and Application Server</p>	Mandatory field with length > 5
<b>System user login</b>	<p>Windows "System" User Account. This account must be a member of the Administrators group. This user must exist on both the Reporting Server and the Application Server</p>	None

FIELD NAME	DESCRIPTION	VALIDATION RULE
<b>System user password</b>	Windows "System" User Password.	None
<b>DNS name of application server</b>	DNS name of the application server. This name must be accessible for all recipients of notifications. The mails sent by the application contain link based on this name.  This field could be set with the server hostname.	Mandatory field
<b>Advanced mode</b>	Activating this mode allows using a database instance that does not match Lectra prerequisites.  A dedicated screen will be displayed in the next step if this option is checked.	

### 3.6.14 Installation screen

The Installation screen displays two progression bars:

- The first one indicating the installation progress of the current pack being installed;
- The second one indicating the overall installation progression.

The progression bar at the bottom of the panel displays the current panel number in the installation wizard.

### 3.6.15 Installation Finished

When the installation process is complete, an "Installation Finished" screen should be displayed.

Click on the "Done" button: end of installation, exit the installer.

## 3.7 Installer Custom screens

### 3.7.1 Packs selection

Select packs you want to install on the server. The Installer manages dependencies between packs; some packs cannot be installed without selecting another one.

PACK NAME	DEPENDS	DESCRIPTION
<b>License Server pack</b>	NA	Installs the FlexLM License server. Opt and lic files are required. An error is displayed if these files are not found.
<b>Oracle JDK package</b>	NA	Installs the Oracle JDK
<b>JBoss package</b>	Oracle JDK	Installs JBoss/Wildfly

PACK NAME	DEPENDS	DESCRIPTION
<b>Lectra DatabaseBundle</b>	NA	Installs the Database Bundle
<b>PLM System Administration</b>	Apache Http Server package	Installs the Lectra Fashion PLM System Administration web console
<b>Operator Server</b>	NA	Installs the Operator Server
<b>Lectra File Directory Watcher</b>	NA	Installs the Lectra File Directory Watcher
<b>PLM /PDM package</b>	JBoss/Wildfly	Installs the PLM
<b>Apache Http Server</b>	NA	Installs and configures the Apache Server
<b>PLM asynchronous server configuration</b>	PLM package	Manages firewall for required ports Shares plm content repository
<b>Install customization</b>	PLM package	Installs the customization contained in a dedicated installer
<b>PLM synchronous server</b>	PLM package	Updates the configuration to delegate asynchronous process to Reporting server. All JMS request are processed by asynchronous server.
<b>PLM initialization package</b>	PLM package	Bootstrap, Init, Update root user password
<b>Load configuration and initialization files</b>	PLM package	Load bundles contained in config/bundles folder
<b>Lectra Fashion PLM Event Bus</b>	NA	Install HornetQ
<b>Lectra ModaREST</b>	Na	Install Lectra ModaREST

### 3.7.2 Wildfly settings

This screen is available if JBoss/Wildfly pack is selected.

This screen allows setting Wildfly port configuration. It is not possible to specify all ports, three configurations are pre defined. This screen only displays main ports required for PLM configuration.

When you select a configuration, associated ports are displayed. This configuration must be change if you have port conflicts on the server.

FIELD NAME	DESCRIPTION	VALIDATION RULE
<b>Server ports configuration</b>	Default configuration / Ports 01 / Ports 02	There is no check
<b>Windows 'System' user</b>	Login of PLM "system" dedicated Windows user. This user must be a	Mandatory field

FIELD NAME	DESCRIPTION	VALIDATION RULE
<b>login</b>	member or Administrators group	
<b>Windows 'System' user password</b>	Password of PLM "system" dedicated Windows user. This user must be a member of Administrators group	Mandatory field

### 3.7.3 Lectra Operators settings

This screen is available if the "Lectra Operators Server" pack is selected.

This screen allows defining configuration of Lectra Operators Server. It is possible to define listening port and system user account used to launch services.

FIELD NAME	DESCRIPTION	VALIDATION RULE
<b>Operator Server port</b>	Available port	There is no check
<b>Windows 'System' user login</b>	Login of PLM "system" dedicated Windows user. This user must be a member or Administrators group	Mandatory field
<b>Windows 'System' user password</b>	Password of PLM "system" dedicated Windows user. This user must be a member of Administrators group	Mandatory field
<b>Lectra Enterprise Server Name Url:Port</b>	The URL used by the Designer to communicate with the platform. This information is used to update the access-config.xml file.	Mandatory field

### 3.7.4 PLM settings

These screens are available if the "PLM" pack is selected.

#### 3.7.4.1 PLM settings (1/3)

FIELD NAME	DESCRIPTION	VALIDATION RULE
<b>PLM server host name</b>	Front end host name Default value set to hostname	Mandatory field
<b>PLM server host port</b>	Available http port. Default value set depending on Wildfly settings if JBoss/Wildfly pack is also selected.  On asynchronous server::  If the default Wildfly config is used on Application Server, the value to set is 8080. Possible value 8080, 8180, 8280.	Number format and Mandatory field
<b>JNDI provider url</b>	JNDI provider url of Wildfly application server. Default is set with Wildfly settings if JBoss/Wildfly pack is also selected.  If the default Wildfly config is used on Application Server, the value to set is remote://localhost:4447. The port could be 4547, 4647 depending on Wildfly ports configuration	Mandatory field
<b>Operator Server</b>	Operator server host name and port. Set with Operator Server settings if Operator Server pack is also selected.	Mandatory field
<b>PLM system root user's password</b>	New password of Lectra Fashion PLM Server user root	Mandatory field with length > 5
<b>License Server</b>	Existing license server name. Default value set to hostname if license pack is also selected	Mandatory field + checkout of PLM_USER license is validated
<b>SMTP Server</b>	SMTP host name	There is no check
<b>Admin console login</b>	Login to access plm-console	Mandatory field
<b>Admin console password</b>	Password to access plm-console	Mandatory field



<b>DNS name of application server</b>	<b>DNS name of application server. This name must be accessible for all recipients of notifications. Mail sent by application contain link based on this name.</b>	<b>Mandatory field</b>
---------------------------------------	--	------------------------

### 3.7.4.2 PLM settings (2/3)

Note: if database bundle pack is selected, all values are set with the database settings values.

FIELD NAME	DESCRIPTION	VALIDATION RULE
<b>Database Server</b>	Database server host name	Mandatory field
<b>Database name</b>	Oracle instance name	Mandatory field
<b>Listener port</b>	Static listener port defined in instance configuration	Number format and Mandatory field
<b>PLM schema name</b>	PLM schema to use	Mandatory field
<b>PLM schema password</b>	PLM schema password	Mandatory field

### 3.7.4.3 PLM settings (3/3)

FIELD NAME	DESCRIPTION	VALIDATION RULE
<b>PLM Content folder</b>	Folder where user has read/write access	There is no check

### 3.7.5 Asynchronous server settings

This screen allows defining the required information to launch Lectra JBoss/Wildfly service with the dedicated user.

FIELD NAME	DESCRIPTION	VALIDATION RULE
<b>Windows 'System' user login</b>	PLM dedicated Windows user account. This user must have read / write rights on PLMcontentRepository shared folder on asynchronous server	Mandatory field
<b>Windows 'System' user password</b>	PLM dedicated Windows user password	Mandatory field

### 3.7.6 Synchronous settings

This screen allows defining the required information to setup JBoss/Wildfly to delegate asynchronous process to another instance.

FIELD NAME	DESCRIPTION	VALIDATION RULE
<b>Windows 'System' user login</b>	PLM dedicated Windows user account. This user must have read / write rights on PLMcontentRepository shared folder on asynchronous server	Mandatory field
<b>Windows 'System' user password</b>	PLM dedicated Windows user password	Mandatory field
<b>Reporting Server host name</b>	Host name where Reporting Server is deployed	Mandatory field
<b>Naming Service port</b>	Asynchronous naming service port Default value 4447.  Possible values: 4447, 4547, 4647 depending on the Wildfly ports set on the reporting server.	Number format and mandatory field

### 3.7.7 Apache settings

This screen allows defining parameters required for the Apache Server deployment.

FIELD NAME	DESCRIPTION	VALIDATION RULE
<b>PLM host</b>	Host name where PLM is deployed.  If there are several PLM servers, set the hostname of the synchronous server.	Mandatory field
<b>Wildfly AJP Port</b>	AJP port defined in PLM Wildfly configuration. Possible values are 8009, 8109 or 8209 depending on choice made during installation	Number format and Mandatory field

## 3.8 Post-installation operations

### 3.8.1 Cluster for Event Bus (e.g. : WebSocket)

A HornetQ server is installed on each of the asynchronous servers. By default, clustering between servers is not enabled, so events published on bus will not be received by other servers.

To enable clustering, you have to modify HornetQ configuration on all asynchronous servers, and restart the corresponding services (Lectra Fashion PLM Event Bus).

The configuration files are in :

- /hornetq-2.4.0.Final/config/stand-alone/clustered

#### 3.8.1.1 hornetq-configuration.xml

- Add a <connector> block for each of the asynchronous servers in the cluster :

```
<connectors>
  <connector name="netty">
    <factory-class>org.hornetq.core.remoting.impl.netty.NettyConnectorFactory</factory-class>
    <param key="host" value="\${hornetq.remoting.netty.host:localhost}"/>
    <param key="port" value="\${hornetq.remoting.netty.port:6445}"/>
  </connector>

  <!--mod Cluster : add connector for each cluster node, !change server name -->
  <connector name="netty2">
    <factory-class>org.hornetq.core.remoting.impl.netty.NettyConnectorFactory</factory-class>
    <param key="host" value="ASYNC_SERVER2"/>
    <param key="port" value="6445"/>
  </connector>

  <connector name="netty3">
    <factory-class>org.hornetq.core.remoting.impl.netty.NettyConnectorFactory</factory-class>
    <param key="host" value="ASYNC_SERVER3"/>
    <param key="port" value="6445"/>
  </connector>
```

- Uncomment <cluster-connections> block and add a <connector-ref> block for each of the asynchronous servers in the cluster :

```
<!--mod Cluster : add connector-ref for each cluster node-->
<cluster-connections>
  <cluster-connection name="my-cluster">
    <address>jms</address>
    <connector-ref>netty</connector-ref>
    <static-connectors>
      <connector-ref>netty2</connector-ref>
      <connector-ref>netty3</connector-ref>
    </static-connectors>
  </cluster-connection>
</cluster-connections>
```

### 3.8.1.1 hornetq-jms.xml

- Add a <connector-ref> for each of the asynchronous servers in the cluster :

```
<connection-factory name="NettyConnectionFactory">
  <xa>false</xa>
  <connectors>
    <connector-ref connector-name="netty"/>
    <!-- cluster mod: add connector-ref for each cluster node -->
    <connector-ref connector-name="netty2"/>
    <connector-ref connector-name="netty3"/>
  </connectors>
  <entries>
    <entry name="/ConnectionFactory"/>
  </entries>
</connection-factory>
```

## 4. INSTALLATION RESULT

### 4.1.1 Small installation

#### 4.1.1.1 Components location

The table below lists all the folders created in the destination folder during the installation process.

FOLDER NAME	DESCRIPTION
apache-http	Apache http server
HornetQ	HornetQ messaging system
config	Contains bundles and associated logs loaded during installation process.
DatabaseBundle	Lectra module containing database scripts for the admin user.
externalized-customization	Contains customization files : configuration (xml file) and implementation (jar file)
File Manager Directory Watcher	File Directory Watcher
Wildfly-<version>	Application Server dedicated to Lectra Fashion PLM Server application.
jdk-<version>	Oracle JDK required for Java applications
lectra	Contains installers and configuration files embedded in the Lectra Enterprise Installer
logs	Installer & Wildfly server logs
PDM or PLM	Product Development module / PLM J2EE application, parameters and configuration folder
scripts	Contains scripts used during the Installation
Uninstaller	Contains uninstaller for the application deployed and JRE required to launch the uninstaller.
LectraFLEXImServer (optional)	Home directory of the Lectra FlexLm Server deployed by the installer
patches\ContentProcessor	contains .bat files which can be used to launch MDL or MTG content processing

The table below lists the components deployed on other folders than the destination one.

FOLDER NAME	DESCRIPTION
C:\Program Files (x86)\Common Files\Lectra\	Lectra Applications dedicated for image processing : Designer, Operator Server and required dependencies
C:\Program Files (x86)\Lectra\	Lectra Applications dedicated for image processing : Designer, Operator Server, <a href="#">Lectra ModaRest</a> and required dependencies

There is another folder: PLMContentRepository. This folder contains data. It is necessary to create a backup before uninstalling the application and removing this folder. This folder is created in destination selected during the installation.



It is recommended to choose another location (not the default one) on the server. In fact, default value is a sub folder of installation path and could be deleted during uninstall if force directory deletion is selected in uninstaller.

#### 4.1.1.2 Services definition

SERVICE NAME	DESCRIPTION	STARTING MODE	STARTING ACCOUNT
Apache2.4	Apache Server	Automatic	SYSTEM
Lectra File Manager Directory Watcher	Lectra File Manager Application	Manual	SYSTEM
Lectra File Operators (Downloader service)	Lectra File Operator Services.	Automatic	PLM dedicated user
Lectra File Operators (Processor service)	Lectra File Operator Services.	Automatic	PLM dedicated user
Lectra Fashion PLM System Administration	Lectra Fashion PLM System Administration	Automatic	PLM dedicated user
Lectra Soap Server	Lectra File Operator Services	Automatic	PLM dedicated user
Lectra Server JBoss Service	JBoss/Wildfly application server service	Automatic	PLM dedicated user
LectraPLMEventBus	HornetQ service	Automatic	PLM dedicated user
ModaRest	ModaRest service	Automatic	PLM dedicated user
Lectra PLM FlexIm (optional)	License service. This service is created if license server is installed on this server.	Automatic	SYSTEM

## 4.1.2 Typical installation

### 4.1.2.1 Database Server

#### Components location

The table below lists all the folders created in the destination folder during the installation process.

FOLDER NAME	DESCRIPTION
<b>DatabaseBundle</b>	Lectra module containing database scripts for the admin user.
<b>jdk-&lt;version&gt;</b>	Oracle JDK required for Java applications
<b>lectra</b>	Contains installers and configuration files embedded in the Lectra Enterprise Installer
<b>logs</b>	Installer & Wildfly server logs
<b>scripts</b>	Contains scripts used during the Installation
<b>Uninstaller</b>	Contains uninstaller for the application deployed and JRE required to launch the uninstaller.
<b>LectraFLEXImServer (optional)</b>	Home directory of the Lectra FlexLm Server deployed by the installer

#### Services definition

SERVICE NAME	DESCRIPTION	STARTING MODE	STARTING ACCOUNT
<b>Lectra PLM FlexIm (optional)</b>	License service. This service is created if license server is installed on this server.	Automatic	SYSTEM

### 4.1.2.2 Reporting Server

#### Components location

The table below lists all the folders created in the destination folder during the installation process.

FOLDER NAME	DESCRIPTION
<b>File Manager Directory</b>	File Directory Watcher

FOLDER NAME	DESCRIPTION
<b>Watcher</b>	
<b>Wildfly-&lt;version&gt;</b>	Application Server dedicated to Lectra Fashion PLM Server application.
<b>Hornetq</b>	Hornetq messaging system
<b>jdk-&lt;version&gt;</b>	Oracle JDK required for Java applications
<b>lectra</b>	Contains installers and configuration files embedded in the Enterprise Installer
<b>logs</b>	Installer & Wildfly server logs
<b>PDM or PLM</b>	Product Development module/ PLM J2EE application, parameters and configuration folder
<b>scripts</b>	Contains scripts used during the Installation
<b>Uninstaller</b>	Contains uninstaller for the application deployed and JRE required to launch the uninstaller.

The table below lists the components deployed on other folders than the destination one.

FOLDER NAME	DESCRIPTION
<b>C:\Program Files (x86)\Common Files\Lectra\</b>	Lectra Applications dedicated for image processing : Designer, Operator Server and required dependencies
<b>C:\Program Files (x86)\Lectra\</b>	Lectra Applications dedicated for image processing : Designer, Operator Server and required dependencies

There is another folder: PLMContentRepository. This folder contains data. It is necessary to create a backup before uninstalling the application and removing this folder. This folder is created in destination selected during the installation.



It is recommended to choose another location (not the default one) on the server. In fact, default value is a sub folder of installation path and could be deleted during uninstall if force directory deletion is selected in uninstaller.

### Services definition

SERVICE NAME	DESCRIPTION	STARTING MODE	STARTING ACCOUNT
<b>Lectra File Manager Directory Watcher</b>	Lectra File Manager Application	Manual	SYSTEM
<b>LectraPLMEventBus</b>	HornetQ service	Automatic	PLM dedicated user



SERVICE NAME	DESCRIPTION	STARTING MODE	STARTING ACCOUNT
<b>Lectra File Operators (Downloader service)</b>	Lectra File Operator Services	Automatic	PLM dedicated user
<b>Lectra File Operators (Processor service)</b>	Lectra File Operator Services	Automatic	PLM dedicated user
<b>ModaRest</b>	ModaRest service	Automatic	PLM dedicated user
<b>Lectra Soap Server</b>	Lectra File Operator Services	Automatic	PLM dedicated user
<b>Lectra Server JBoss Service</b>	JBoss/Wildfly application server service	Automatic	PLM dedicated user

#### 4.1.2.3 Application Server

##### Components location

The table below lists all the folders created in the destination folder during the installation process.

FOLDER NAME	DESCRIPTION
<b>apache-http</b>	Apache http server
<b>config</b>	Contains bundles and associated logs loaded during installation process.
<b>externalized-customization</b>	Contains customization files : configuration (xml file) and implementation (jar file)
<b>Wildfly-&lt;version&gt;</b>	Application Server dedicated to Lectra Fashion PLM Server application.
<b>jdk-&lt;version&gt;</b>	Oracle JDK required for Java applications
<b>lectra</b>	Contains installers and configuration files embedded in the Lectra Enterprise Installer
<b>logs</b>	Installer & Wildfly server logs
<b>PDM or PLM</b>	Product Development module/ PLM J2EE application, parameters and configuration folder
<b>scripts</b>	Contains scripts used during the Installation
<b>Uninstaller</b>	Contains uninstaller for the application deployed and JRE required to launch the uninstaller.



FOLDER NAME	DESCRIPTION
patches\ContentProcessor	Contains .bat files which can be used to launch MDL or MTG content processing

Services definition

SERVICE NAME	DESCRIPTION	STARTING MODE	STARTING ACCOUNT
Apache2.4	Apache Server	Automatic	SYSTEM
Lectra Fashion PLM System Administration	Lectra Fashion PLM System Administration	Automatic	PLM dedicated user
Lectra Server JBoss Service	JBoss/Wildfly application server service	Automatic	PLM dedicated user

### 4.1.3 Custom installation

With this mode, the result is depending on the choices made on the “packs selection” panel.

To check the result, you can consult the [Small installation result section](#).

You will obtain the same result filtered with your packs selection.

## 5. INSTALLATION VALIDATION

### 5.1.1 Validate Product development module installation

Open a web browser and browse to the, URL <http://<servername>:8080/pdm>, where <servername> is the name of the Application Server. You should obtain a PDM login.

### 5.1.2 Validate Operator Server



Validation must be done on server (for small configuration) or on reporting server for typical installation.

To confirm that the installation was successful, launch a web browser and browse to the URL <http://localhost:8080/enterpriseserver-web>. Connect with the username “root” and the password set during the installation process (the default value is “lectra”).

Click on File Manager Board link on the right of the screen.

The “Operator Server Status” is displayed. Validate that the Operator Server status is “started” and that the two links are valid (i.e. no error 404 when you click on links)

### 5.1.3 Validate config file load

A folder “config” is created in destination folder; it contains the logs about configuration files load. Each bundle loaded during installation process is copied in this folder with the associated log file. Those files are located in a subfolder whose name is the loading time.

## 6. LOGS

### 6.1 Installer logs

The logs corresponding to the installation process are stored in the folder %DEST\_FOLDER%\logs.

If you encounter an error during installation process, please send all the content of this folder to the support team.



lzpack-inputs.xml is very useful because it contains all the data set by the user.

### 6.2 Product Development logs

The server logs are stored in the folder %DEST\_FOLDER%\logs\

There is another log file named server.log located in the folder %PDM\_HOME%\Wildfly-<VERSION>\standalone\log\server.log.

This file contains only startup information but could be very useful when the JBoss/Wildfly Windows Service does not correctly start.

## 7. REPAIR APPLICATION

The "repair" mode is available launching again the same installer as the version already deployed on the server.

This mode allows modifying parameters on already installed Enterprise Solutions on server: license servers, server ports... without fully install again all the application. It is not necessary to deploy again customization (if it exists) after repair installed application.

When the installer is launched, a check tests the existence of the Enterprise Solution on the server. If the same version is detected, the "repair" mode is proposed to the end-user.



The "repair" mode overwrites some configuration files. If manual modifications have been done on installation, these modifications have to be done again after repair. A history folder will be created to store some configuration files and information about installation before repair operation.

### 7.1 Program maintenance

A screen indicating than an existing version has been detected and only the repair mode is available.

### 7.2 Parameters available in repair mode

"Repair" mode only allows overriding some parameters set during previous installation. Repair mode does not allow creating new schema.

The "DatabaseBundle" input page in "Custom" installation is disabled. All others parameters available during installation (depending on type of installation) are available in repair mode.

Screens displayed in repair mode are the same than during installation you want to repair. It is impossible to change value not displayed during previous installation. Same fields are displayed.

### 7.3 Installation history

It indicates the existing and the location of the history folder. The “history” folder is used to backup information: parameters, logs, from the previous installation.

## 8. UPGRADE APPLICATION

The upgrade mode is available launching again an installer more recent than the previous version already deployed on the server.

When installer is launched, a check tests existence of application on the server. If previous version is detected and if this version is upgradable, upgrade mode is proposed to user.



The “upgrade” mode overwrites some configuration files. If manual modifications have been done on installation, these modifications have to be done again after repair. A history folder will be created to store some configuration files and information about installation before upgrade operation.

It is necessary to install again customization after application upgrade.

### 8.1 Program maintenance

A screen indicating than an existing version has been detected and only the upgrade mode is available.

### 8.2 Parameters available in upgrade mode

Screens displayed in upgrade mode are the same than during installation you want to upgrade. It is impossible to change value not displayed during previous installation. Same fields are displayed.



Note: all fields already existing in previous version are initialized with values set during previous installation.

### 8.3 Installation history

It indicates the existing and the location of the history folder. The “history” folder is used to backup information: parameters, logs, from the previous installation.

### 8.4 Content processing

Run **MDLProcessor.bat** (located in **patches\ContentProcessor**).

This batch file:

1. Retrieve all MDL file IDs from the installed database
2. For each MDL file ID, call operator server to process them, and display server response

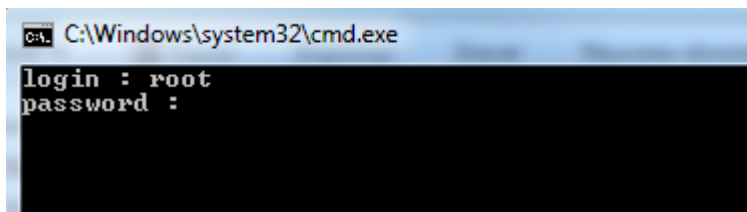
Run **MTGProcessor.bat**.

This batch file:

1. Retrieve unprocessed MTG file IDs (i.e. either MTG files with no OBJ file associated or MTG files with null-sized OBJ file associated) from the installed database
2. For each MTG file ID, call operator server to create the OBJ file, and display server response

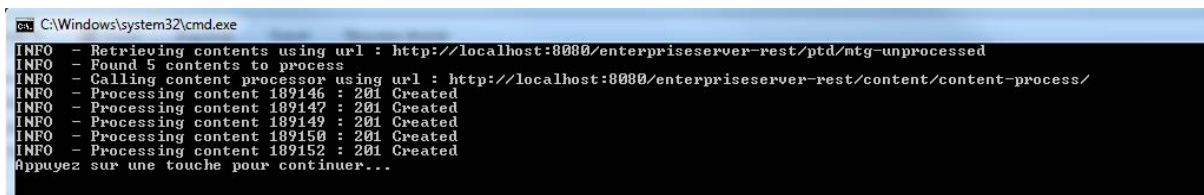
**Instructions:**

1. Launch bat file
2. Enter credentials (note that only root user is allowed to execute this patch) :



3. Wait for patch execution completion

Each execution appends information to the contentReprocessor.log file. This information is also displayed in the command prompt window while the patch is executing:



## 9. UNINSTALL APPLICATION

### 9.1 Before uninstalling application

The uninstallation of the application removes all components from the server. All components and uninstaller behavior are described in next section.

Uninstallation removes database schemas and it could also delete PLMContentRepository depending on target folder you selected during installation. So, it is necessary to backup your database and your PLMContentRepository before uninstall application if you want to preserve your data.

To prevent loose of data, the uninstaller exports PLM database before removing database schemas. The export is done in the home directory of the user who launches the uninstaller.

### 9.2 Launch uninstaller

The Uninstaller is available throw "Add or Remove Program" component of Windows operating system. You could uninstall the Enterprise Server Solutions, as you uninstall other applications on your computer.

Select the product and click on "Uninstall".

An IzPack window appears, click "Uninstall" to launch uninstallation of application.



If you check "Force the deletion of xxxx" and if your PLMContentRepository is in the same folder, you will lose your data.



There are several operations launched before the beginning of the files deletion. The progression bar stays inactive during this step. That does not mean that the uninstaller does not start.

When "Finished" message is displayed, click on "Quit" to exit Uninstall program.

The uninstaller removed all component installed during installation process, except the Designer module.

## 10. DIAGNOSTIC

The aim of this section is to describe the messages displayed by the installer. There are error and warning messages. The aim is to identify and fix the issues.

MESSAGE	CAUSE	HOW TO FIX
Impossible to contact database server, please check database settings and network settings.	The information set are not valid or There is a firewall issue	Check the information : instance, port, hostname or Validate that the database listener port is authorized on the firewalls or In typical installation, ensure that the Database server is already installed.
It seems that your Oracle Client configuration does not work.	a) The tnsnames.ora is not well set up b) The alias in the tnsnames.ora has not the same name as the instance c) There is a firewall issue	a) Fix the tnsnames.ora b) Check the firewall c) Validate that the database listener port is authorized on the firewalls
It is impossible to configure one server as synchronous and asynchronous.	You select both the "PLM asynchronous pack" and the "PLM synchronous pack".	Uncheck the two checkboxes. In fact, the default behaviour for a server is to be Application & Reporting Server.  Note: synchronous and asynchronous must be used when there are several servers.
Application server cannot be installed on the same server as reporting server.	You try to install the application server (typical installation) on the same server as the Reporting. That is not allowed by the installer	Install application server on another server or change the type of installation.  Note: changing the installation type requires uninstalling the current Reporting server.
Impossible to write file in PLMContentRepository (shared directory on reporting server). Check reporting server installation.	The installer cannot write in the PLMContentRepository located in the reporting server because :  - the folder is not correctly shared on the reporting	Manually share the PLMContentRepository on the reporting server. or Launch the installer with the user dedicated to the server installation = the same



MESSAGE	CAUSE	HOW TO FIX
	server - The user used to launch the installer is not the same as the one set during reporting server installation.	as the one set during reporting server installation
The required license cannot be checked out. Try again or check your settings.	The required license is not available on the license server	Check the licenses available on the license server and add the correct one : PLM_USER
The license server is unreachable. Try again or check your settings.	The installer cannot contact the license server.	Check the license server set is valid or Check the network state
Microsoft .NET Framework 3.5 SP1 is required and not installed.	The .NET framework required version is not installed	Add the feature .NET framework. On windows 2008 server : Server Manager -> Features -> Add Feature Select .NET framework 3.5 SP1 (child of .NET framework 3.5 SP1 features) Install  On windows 2012 server : Open a command window as an administrator Run the following command <code>DISM /Online /Enable-Feature /FeatureName:NetFx3 /All</code>
Required port xx is already used on this server.	Another application uses a required port	Change the port configuration if you are in custom mode or



MESSAGE	CAUSE	HOW TO FIX
		<p>Stop the application using the port</p> <p>To identify the application, use the following command</p> <pre>netstat -nao</pre> <p>The PID of the application using the port can be identified and then stop thru the task manager.</p>
Required port 80 is already used on this server.	The port 80 is currently used	<p>Using the netstat command shows that the port is used by SYSTEM process.</p> <p>This is due to the IIS web server available on 2008 Server.</p> <p>Stop the service "World Wide Web Publisher" and change his starting mode to Manual.</p>
Your installation of Oracle is not compliant with this type.	<p>Default mode is used and there is a missing prerequisite.</p> <p>With default mode, it is mandatory to have :</p> <p>Instance name LDPLM000</p> <p>System password LDPLM000</p> <p>Listener Port 1521</p>	Change the instance parameters to match prerequisites or use the advanced mode.
sqlplus is not recognized as an internal or external command.	The sqlplus is not found in the path.	<p>Oracle client (advanced mode) or Oracle server (default mode) is not correctly installed.</p> <p>or</p> <p>The path is not up to date, force the refresh of environments variables restarting the server or making a fake modification on an existing environment variable, then restart the installer from a new explorer window.</p>
Impossible to install server. opt and lic files not found in %INSTALLER_BASEDIR%/config/licenses directory	You make the choice to install the license server with the installer but you do not copy opt and lic files in	Copy the missing file in the right place: the config/licenses folder in the same folder as the installer executable.



MESSAGE	CAUSE	HOW TO FIX
	the config/licenses folder	Note: that must be valid files with the right licenses. If the files are invalid, the installation will fail.
Not enough free disk space.	There is no enough disk space on the selected drive.	Clean your drive.  Note: the installer is temporary uncompress in the temp folder => when the installer is started, you have less space than before starting.
The database server must be upgraded first.	Your are upgrading the reporting or application server without having upgrade the database server	Upgrade the database server first