



# LECTRA ENTERPRISE SOLUTIONS SERVER BACKUP AND RESTORE

**How-To**

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Modifications made to the document since its last publication are highlighted in [blue](#).

## **1. GENERAL OVERVIEW**

This document describes the procedure to perform a full backup of an Enterprise platform based solution on a Lectra platform server.

It presents an overview of the different steps of installation of Modaris Team on a server and on a client workstation with the associated reference documents.

### **1.1 User classes**

- Database or System administrators

### **1.2 Pre-requisites**

- This procedure concerns ORACLE database only.
- This method involves a cold backup: the system will be unavailable while the backup is being carried out.

## 2. BACKUP

Data backup should be done during a period of low activity as the database must be stopped. It's called a cold backup.

Here are the different steps to follow to backup platform data including database configuration files, files stored in the repository folder (File Manager), and data from database.




### 2.1 Stop the Enterprise Server system


#### 2.1.1 Stop PLM Services

##### 2.1.1.1 Stop File Operator and SOAP services.

These three services manage the files in the File Manager repository.









Stop  the service associated with Lectra File operators and SOAP Services:

|   |  |                 |         |        |       |
|---|--|-----------------|---------|--------|-------|
|  | Lectra File Operators (Downloader Service) | Lectra File ... | Started | Manual | .\plm |
|  | Lectra File Operators (Processor Service)  | Lectra File ... | Started | Manual | .\plm |
|  | Lectra SOAP Service                        | Lectra SOA...   | Started | Manual | .\plm |

 The version and name of services may change



##### 2.1.1.2 Stop the service associated with the Application Server

###### Lectra Server Wildfly Service:

|   |   |                 |         |           |               |
|---|---|-----------------|---------|-----------|---------------|
|  | KtmRm for Distributed Transaction Coordinator   | Coordinate...   |         | Manual    | Network S...  |
|  | Lectra File Manager Directory Watcher - 3.1.... |                 |         | Manual    | Local System  |
|  | Lectra File Operators (Downloader Service)      | Lectra File ... | Started | Automatic | .\Administ... |
|  | Lectra File Operators (Processor Service)       | Lectra File ... | Started | Automatic | .\Administ... |
|  | Lectra Server JBoss Service                     | Lectra dedi...  | Started | Automatic | .\Administ... |
|  | Lectra SOAP Service                             | Lectra SOA...   | Started | Automatic | .\Administ... |
|  | Lectra Workflow Admin Server                    | Lectra Wor...   |         | Manual    | Local System  |
|  | Lectra Workflow Background Server               | Lectra Wor...   |         | Automatic | Local System  |

##### 2.1.1.3 Stop the 2 services associated with the Workflow Management

###### Lectra Workflow Background Server and Lectra Workflow Server:

|   |                                   |                                   |         |        |       |
|---|-----------------------------------|-----------------------------------|---------|--------|-------|
|  | Lectra Workflow Background Server | Lectra Workflow Background Server | Started | Manual | .\plm |
|  | Lectra Workflow Server            | Lectra Workflow Server            | Started | Manual | .\plm |

## 2.2 Oracle configuration and data backup

### 2.2.1 Get the database bundle package from the ISO file

Unzip plm-ora\_se\_win-bundle-win.zip under a path without blanks in the path

This package provide scripts:

- to export/import schema data:
  - Using classic export/import:
    - ORA\_SE\_WIN\PLM\admin\export\_import\APP\_generate\_export.bat
  - Using datapump export/import:
    - ORA\_SE\_WIN\PLM\admin\export\_import\advanced\ STD\_DATAPUMP.cmd
- To drop and create a schema before importing
  - Drop a schema
    - ORA\_SE\_WIN\PLM\admin\manage\_schema\01\_PLM\_create\_schema.cmd
  - Create an empty schema
    - ORA\_SE\_WIN\PLM\admin\manage\_schema\03\_APP\_drop\_schema.cmd

For more information refer to the “Lectra Fashion PLM Non-interactive Installation and Configuration How To” database documentation

### 2.2.2 Generate and backup the dump

- Generate and run export schema scripts using DatabaseBundle package (2.2.1)
- Backup the generated dump and log file.

### 2.2.3 Generate and backup the control file

- Log in as the system user of the instance:

```
alter database backup control file to trace as '<drive>:\<path>\<controlfilename>.trc';
```

#### Example:

```
sqlplus /nolog
```

```
connect as system/password@instance
```

```
alter database backup controlfile to trace as 'c:\mycontrolfile.trc';
```

- Backup the generated file.

### 2.2.4 Generate and backup the spfile file

- Log in as sysdba user on the instance:

```
create pfile='<drive>:</path></pfilenames>' from spfile;
```



**Example:**

```
sqlplus /nolog
```

```
connect sys/password@instance as sysdba
```

```
create pfile='c:/initdb1.ora.bkp' from spfile;
```


- Backup the generated file.

## 2.3 Oracle data cold backup

### 2.3.1 Stop the database

Stop  the service associated with the PLM instance:

|   |         |           |              |
|---|---------|-----------|--------------|
|  OracleServiceLDGLY000 | Started | Automatic | Local System |
|  OracleServiceLDGLYK   | Started | Automatic | Local System |
|  OracleServiceLDGLYV3  |         | Automatic | Local System |
|  OracleServiceLDPLM000 | Started | Automatic | Local System |
|  OracleServiceRCDM000  | Started | Automatic | Local System |

 The name of service may change

### 2.3.2 Backup data files

- Backup flash area if it exists.

**Example:** C:\app\oracle\flash\_recovery\_area\LDPLM0000

- Backup data

**Example:** C:\app\oracle\oradata\LDPLM0000

## 2.4 File Repository backup

### 2.4.1 Definition

- The repository is a binary folder linked to the database.

### 2.4.2 Backup

- Backup the folder

By default: <DRIVE>:\<PLM server install folder>\PLM\PLMContentRepository

Warning: this folder may be extremely large. For faster operation, you are advised to zip this folder prior to backing up.

## 2.5 Start the Enterprise Server System









### 2.5.1 Start the database


Start  the service associated with the PLM instance:

|   |         |           |              |
|---|---------|-----------|--------------|
|  OracleServiceLDGLY000 | Started | Automatic | Local System |
|  OracleServiceLDGLYK   | Started | Automatic | Local System |
|  OracleServiceLDGLYV3  |         | Automatic | Local System |
|  OracleServiceLDPLM000 | Started | Automatic | Local System |
|  OracleServiceRCDM000  | Started | Automatic | Local System |

## 2.5.2 Start PLM Services




### 2.5.2.1 Start the service associated with the PLM instance

|   |   |                 |         |           |               |
|---|---|-----------------|---------|-----------|---------------|
|  | KtmRm for Distributed Transaction Coordinator   | Coordinate...   |         | Manual    | Network S...  |
|  | Lectra File Manager Directory Watcher - 3.1.... |                 |         | Manual    | Local System  |
|  | Lectra File Operators (Downloader Service)      | Lectra File ... | Started | Automatic | .\Administ... |
|  | Lectra File Operators (Processor Service)       | Lectra File ... | Started | Automatic | .\Administ... |
|  | Lectra Server JBoss Service                     | Lectra dedi...  | Started | Automatic | .\Administ... |
|  | Lectra SOAP Service                             | Lectra SOA...   | Started | Automatic | .\Administ... |
|  | Lectra Workflow Admin Server                    | Lectra Wor...   |         | Manual    | Local System  |
|  | Lectra Workflow Background Server               | Lectra Wor...   |         | Automatic | Local System  |

 The name of service may change









## 2.5.3 Start File operator and SOAP services.


Start  the service associated to File operator and SOAP services:

|   |  |                 |         |        |       |
|---|--|-----------------|---------|--------|-------|
|   | Lectra File Operators (Downloader Service) | Lectra File ... | Started | Manual | .\plm |
|  | Lectra File Operators (Processor Service)  | Lectra File ... | Started | Manual | .\plm |
|  | Lectra SOAP Service                        | Lectra SOA...   | Started | Manual | .\plm |

### 2.5.3.1 Start the service associated with the application server

#### Lectra Server Wildfly Service:

|   |   |                 |         |           |               |
|---|---|-----------------|---------|-----------|---------------|
|  | KtmRm for Distributed Transaction Coordinator   | Coordinate...   |         | Manual    | Network S...  |
|  | Lectra File Manager Directory Watcher - 3.1.... |                 |         | Manual    | Local System  |
|  | Lectra File Operators (Downloader Service)      | Lectra File ... | Started | Automatic | .\Administ... |
|  | Lectra File Operators (Processor Service)       | Lectra File ... | Started | Automatic | .\Administ... |
|  | Lectra Server JBoss Service                     | Lectra dedi...  | Started | Automatic | .\Administ... |
|  | Lectra SOAP Service                             | Lectra SOA...   | Started | Automatic | .\Administ... |
|  | Lectra Workflow Admin Server                    | Lectra Wor...   |         | Manual    | Local System  |
|  | Lectra Workflow Background Server               | Lectra Wor...   |         | Automatic | Local System  |

 The version and name of services may change



### 3. RESTORE

#### 3.1 Stop the Enterprise server system

#### 3.2 Restore Oracle data

##### 3.2.1 Cold restore

- Stop the database
- Copy the backed up data
- Start the database

##### 3.2.2 Normal restore

- Create an empty target schema before importing (2.2)
- Generate import script and import the dump (2.2)

#### 3.3 Replace repository by backup repository folder

#### 3.4 Start PLM Services