



HOME

User Manual

DELMIA Process Engineer[®]

Import and Export of Work System Components and Projects



Foreword

This manual provides an introduction to the basic operations and functions of the Import and Export of Work System Components and Projects.

While developing these functions we have made every effort to create a clearly organized, easy-to-understand program structure.

A user-friendly interface as well as a clear menu guide will enable you to quickly learn how to operate the program and to get familiar with its functions so that you can carry out your planning tasks in a quick and reliable way.

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1.Introduction

This manual explains how to use the Process Engineer Import and Export of Work System Components and Projects for your planning purposes.

1.1 How to Use this Manual

This manual enables you to get familiar with the operation and functions of the Process Engineer. This manual briefly describes:

- Import and Export of Work System Components and Project functions



Note

When handling the Import and Export of Work System Components and Projects functions, please also refer to the general introduction to Process Engineer in the General Introduction Manual.



Click [General Introduction](#) to access the manual.

1.2 Documentation Conventions and Symbols

The symbols used in this manual are intended to provide you with keys to the contents in an immediately understandable manner.



This symbol is used to introduce key concepts that are covered in the sections immediately following this symbol. As a result, this symbol most frequently appears at the beginning of chapters or sections.



Note

*This symbol is used to mark notes, which provide you with additional information you need to have for further work. You will either find the Note sign at the beginning of a chapter or in a particular text passage in the chapter. Texts bearing this sign are additionally marked with **Note**. The text is always in italics.*







Caution

*This symbol indicates that the text that follows describes particular circumstances that you must avoid to avoid potential errors with the operation of the program or harm to data. You will either find the Caution sign at the beginning of a chapter or near a particular text passage in the chapter. Texts that are introduced by this sign are additionally marked with **Caution**. The text is always in italics.*

Example

This symbol marks examples which serve to illustrate a certain situation.

-  This symbol marks the individual operational steps involved in a particular operating instruction. Operating instructions describe operational steps, for example, how to open a menu or execute a function.
-  This symbol marks listed subjects. The symbol for listed subjects can be either used to structure a continuous text or to list main subject keywords.
-  This symbol marks list inside a bulleted or numbered list.
-  This symbol marks cross reference information that is available in another manual.

1.3 New Functions in Import and Export of Work System Components and Projects

PTIMEX Import Operation

Rearranging the classes according to their project dependencies in PTIMEX algorithmn improves the memory efficiency and helps in importing more objects into the target database.

2.WSC Import and Export from E5 to E5

2.1 Introduction

In this chapter the system item (WSC) import and export from E5 to E5 is described. The system item im-/export E5 to E5 should enable an exchange of system items between different E5 installations.

As of Version 5.12, system components used in a project can be imported and exported with the project (*Please refer to the [WSC Import and Export from E5 to E5](#)*). This functionality has no effect on the import and export of system components described below.

Upwards Compatibility



Caution

System items created in previous versions of PE 5.10 (like 5.9, 5.8 ...) have an upwards compatibility to newer versions.

In order to successfully execute a system item export, the manufacturer's name (supplier) should not contain the following signs: \ / : * ? " < > | .

The reason for this limitation is as follows: During export, the system items are exported in individual files, separated according to the name of the manufacturer. The manufacturer's name is included in the file name. The special characters mentioned are not allowed in Windows file names, however.

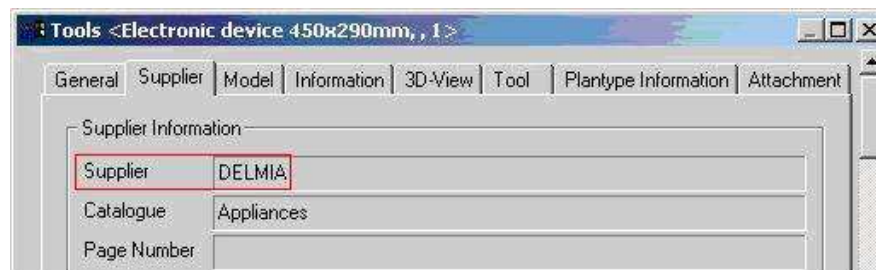


Figure 1: System Item, Name of Manufacturer

2.2 Starting the Export

- 1) Open the directory of your DELMIA Process Engineer® installation. Under **..\DELMIA\PPRClient\program\WSC-Import** you will find several batch processing files, exe files and two text files.
 - With **wscexport55** an export of E5 system items to E5 is started.
 - With **wscimport55** an import of E5 system items to E5 is started. In the text files the functioning of the import and export process is described.
- 2) Start the batch processing file **wscexport55.bat** to start the export of E5 System elements.
 - The DELMIA Process Engineer® login dialog appears.





Note

If you want to know more about the functioning of the import and export process, please read the two text files in the same directory.



Figure 2: DELMIA Process Engineer® Login Dialog

- 3) After the login the export process starts immediately. You can follow the export progress by watching the status display. In the upper part of the dialog you can see the system item type that is currently being exported; in the lower part you can see the system items of this type.

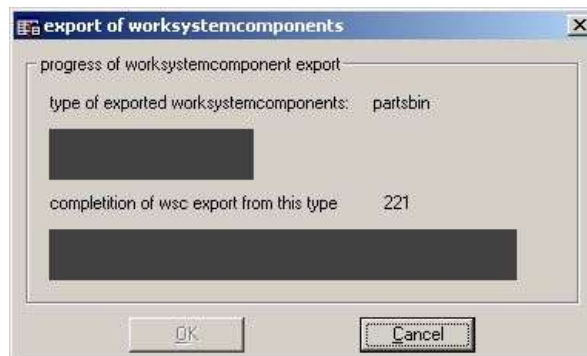


Figure 3: Status Notice during Export

If system items refer to moved or no longer existing external graphics, this can cause error messages. You can turn off the error message window.

You can see what kind of errors have occurred during export in the log file.

If the adjacent message appears after exporting, you are only being notified that you have switched off the display of error messages during export and that there may be further errors in the log file.



Figure 4: Error Message

Exported System Items

The exported system items can be found in the same folder where you started the export from. The exported system items can be recognised by the extensions: **.syn** and **.e5d**. The graphic files CGR, JT, and VRML can be found in the CAD file directory.

During the export process the entry screen for the import is created, too.

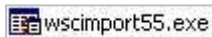


Note

If you have changed the **WSC plantype set** (system items plantype set) in the initial system in the system library, you must also import this, before the actual WSC import.

2.3 Import of System Items

You can only import system items if you have previously exported system items or if you have exported system items at another workplace. The exported system items can be recognised by the extensions: **.syn** and **.e5d**.



wscimport55.exe

- 1) To start the import of E5 system items, start the batch processing file **wscimport55.bat**.
 - The DELMIA Process Engineer® login dialog appears.
- 2) After the login a dialog opens in which you can select the manufacturer whose system components you want to import.

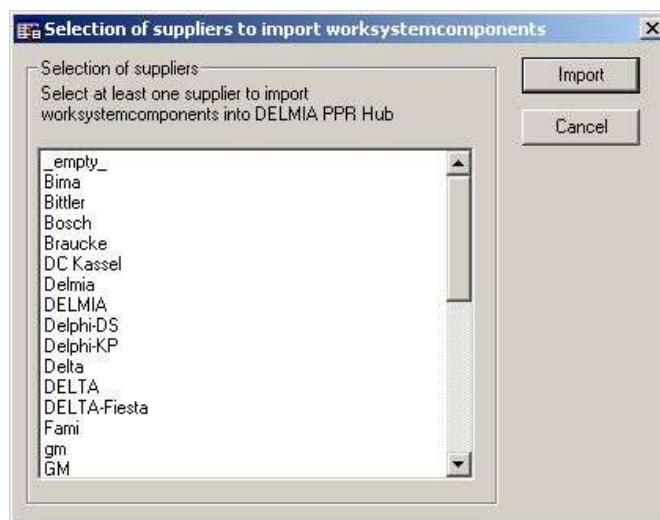


Figure 5: Selection Dialog: Manufacturer whose System Items should be Imported

- 3) Use the **Import** button to start the import process. You can follow the import progress by watching the status display.

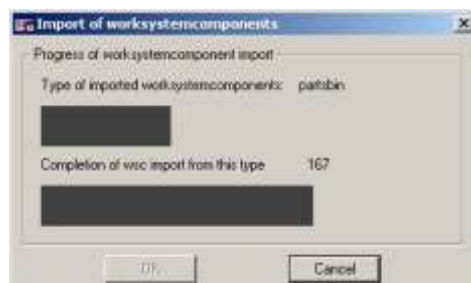


Figure 6: Status Display during Import

If when importing system items you discover that one or several identical system items (the GUID is the comparison criterion) already exist in the database, the following message appears.

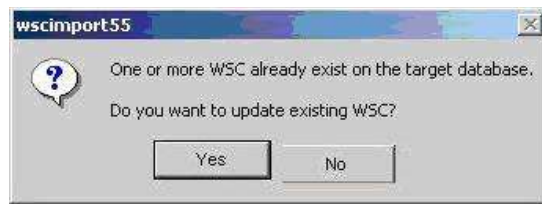


Figure 7: Status Display during Import

Dealing with this Message

When you move one or several files from one folder to another folder in Windows Explorer, you will also be asked whether or not existing files should be overwritten. If you answer the question with **yes**, the existing file will be replaced by the new file, i.e. it will be updated.

You can expect exactly the same procedure when importing system items.

By pressing the **yes** button, existing system items will be updated.

If you select the **No** button, the system items of the database remain the same as before importing. Only possible new system items become an additional part of the database



Figure 8: Import Completion Message

2.4 Starting Export or Import in Batch Mode

You can also start the import process using the command line.

The Command Line Application

You should always use the Batch Mode if you want to export selectively using the GUID.

- 1) Open the prompt. (The MS-DOS prompt has been renamed to prompt in Windows 2000 and is available in the Accessories menu.) Click in the Windows environment on **Start/Programs/Accessories** and then click **Prompt**. Or Click **Start/Execute...** and enter "**cmd**" in the dialog that is opening. Confirm the entry.
- The prompt opens.
In the `... \program\WSC-Import` directory of your Client Installation of the DELMIA Process Engineer® you will find the application `wscexport55.exe`. Enter this path. Example:

```
D:\DELMIA\PPRClient\program\WSC-Import>wscexport55.exe
```

You can find out which parameters are available by entering `/h` or `/?` as a parameter. The complete entry looks as follows:

```
D:\DELMIA\PPRClient\program\WSC-Import>wscexport55.exe /?
```

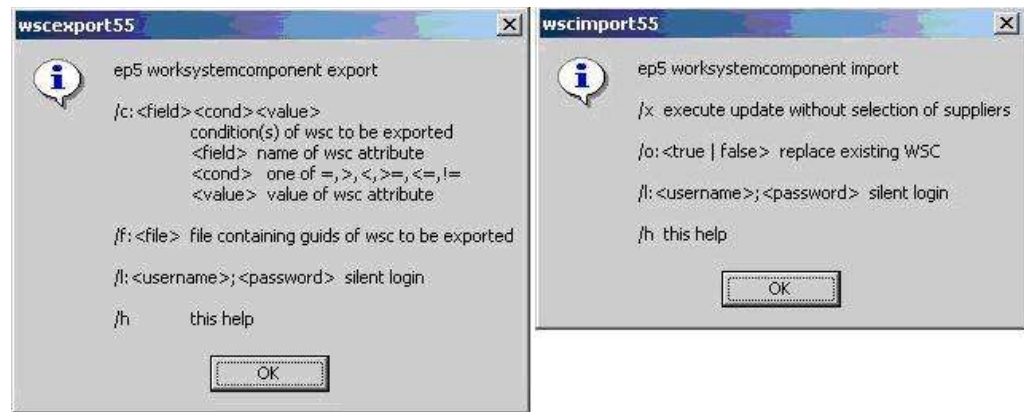


Figure 9: Parameter Information

Without parameters, you can start the Login dialog that you already know from the DELMIA Process Engineer®. Enter the name and the password here.



Figure 10: Dialog for Logging On

Of course you can also import system items without the dialog. In this case, use the following parameters, for example:

D:\DELMIA\PPRClient\program\WSC-Import>wscimport55.exe /l:"admin; admin"

To Export Individual System Items

You want to export the system item with order number C 045 SMD from [Figure 11](#).



Figure 11: System Item

The following parameters must be observed:

- **<field>** : Here you enter the attribute designation and not the displayed name of the attribute. You can find the attribute designation in the configuration manager.

- **<cond>** : Here you enter a relational operator. In the example: "=".
- **<value>** : Enter the value of the attribute just selected here.

The execution then appears as follows:

```
D:\DELMIA\PPRClient\program\WSC-Import>wscexport55.exe /c:"ordernumber=C 045 SMD"
```

Exporting and Importing a List of System Items

You should always use the Batch Mode if you want to export selectively using the GUID.

If you create a list of system items using a script, for example, whose GUID is written line by line in a text file (*Please refer to the [Figure 12](#)*), you can export these system items by calling up **/f <file>**.



Figure 12: GUID List of System Items

The easiest way is to copy the text file in the import directory, since the path information then no longer exists. The execution then looks as follows:

```
D:\DELMIA\PPRClient\program\WSC-Import>wscexport55.exe /f:exportliste.txt
```

3. Exporting and Importing Projects and Templates

3.1 Introduction

Starting with version PE 5.10 you can export projects and import them to another computer. During this process only the project data, without plantype set, system items and configuration are exported or imported. Projects are always imported as new projects. That is, none of the existing projects can be updated.

As of version PE 5.15 you have the option of starting the import or export via the command prompts. For further details read the section: [Starting the Export/Import of Projects from the Command Prompt](#).

A switched-off PPR server is **NO LONGER** a basic requirement for the operation of **PTIMEX**.

As of version PE 5.17 templates that are used in a project will be considered during project export or import. A separate export and import of templates is possible as well. Read more about this in section: [Exporting a Template Project](#) and [Importing a Template Project](#)



Note

Projects and Templates can be exported and imported only by users that have 'Superuser' permissions.

3.2 Prerequisites

- The project to be exported must not be in use.
- Together with the exported project, the **configuration**, and the **plantype set** used by the project must be exported, provided they do not already exist on the target system.
- If user rights are to be taken into account on export and import, the same users and groups must be available on the source and target systems.

The same applies to importing, but in reverse order, i.e. before importing a project you have to import the previously exported configuration, PlanTypeSet and system items, provided they do not already exist on the target system.



Note

*If you have changed the **WSC plantype set** in the system library of the initial system, you must also import it before the actual import.*

3.3 Starting the Export

Since you need exclusive access to the database, you must terminate DELMIA Process Engineer in order to start the export.



- 1) Terminate all client applications. You can also use the server tools for this.
 - 2) Quit the Process Engineer and enable the **ShutdownPPRServer** (optional) in the start menu.
 - 3) Open the directory of your DELMIA Process Engineer® Server installation on the server. In the **program bin** directory of the server, (e.g. **..\\DELMIAPPRServer\\program\\bin**) you will find the executable file **PTIMEX.exe**.
(Start this application)
- An application is opened where you can import and export projects. *Please refer to the Figure 13.*



Figure 13: PTIMEX

3.3.1 Exporting a Project

A menu bar and a display window are available.

The **display window** cannot be edited. The export and import information displayed here can be deleted, copied or exported (into a text file or a similar file format that can be read by your operating system).

Use the **File** menu item to start the import and export process.

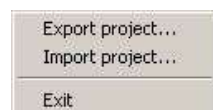


Figure 14: The "File" Menu Item

Using the **Edit** menu item, you can copy, store or delete the actions logged in the display window.

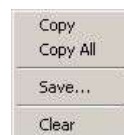


Figure 15: The "Edit" Menu Item

To Start the Export Process

Export project...

- 1) You can start the export process by enabling the **File/Export project...** menu.
- A project selection window opens where you can select the project that you want to export.

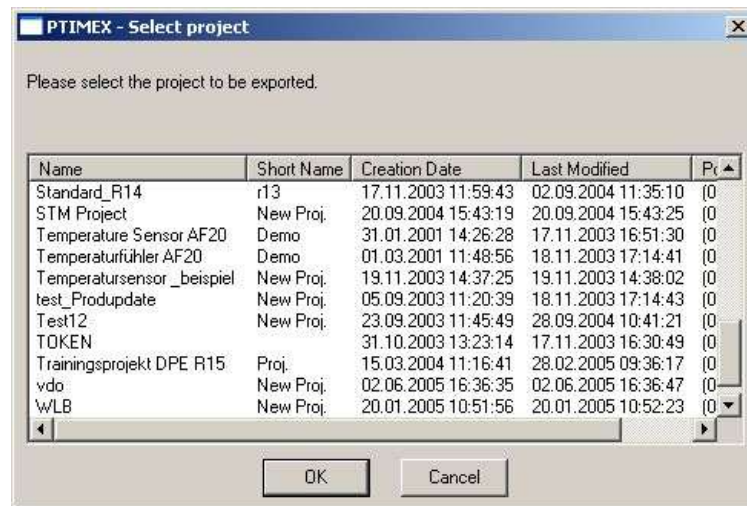


Figure 16: Project Selection Window

- 2) After selecting the project and confirming the selection with **OK**, you have to enter the location and the name for the project to be exported in the window that opens. If a project with the same name already exists in the selected directory, the project can be overwritten and exported with a different name.



Figure 17: Save File under Dialog

- 3) After clicking save button, set the following in the query that appears:
- Whether external files such as graphic files or attachments are also taken into account on export
 - Whether the system components used in the project are taken into account on export
 - Whether the access rights assigned in the project are also exported.



Figure 18: External Files, Taken into Account on Export



Note

The options that you set in this dialog are also important for importing. If, for example, no access rights are exported, no access rights can be imported.

Afterwards start the export process. In the display area you can see the progress of the export process and what functions are being executed. Please refer to the [Figure 19](#).

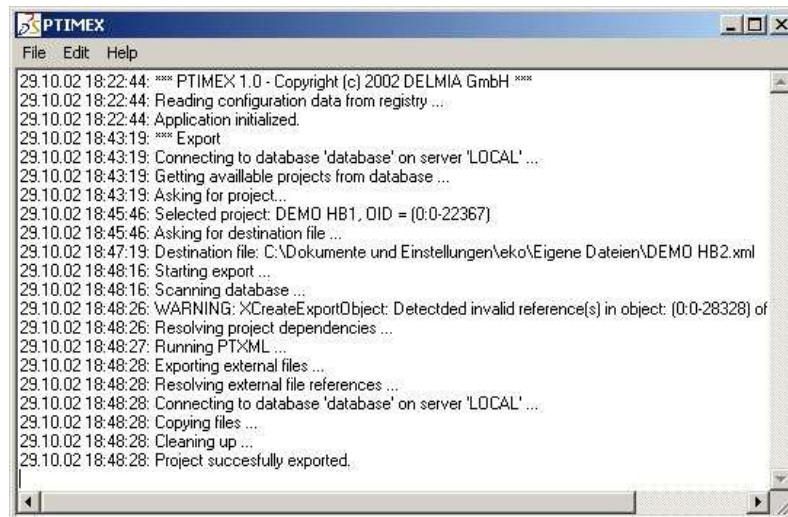


Figure 19: Display Window after Export

- 4) A message window informs you whether the export has been successful.



Figure 20: Message in the case of a Successful Export

If the following error message appears together with external files during the export process, this simply means that while there is a path to a file, the file has been deleted or moved.



Figure 21: Message when a File is no Longer Available

The same message is displayed during an import.

3.3.1.1 Messages during Export

Error Message: Export Failed!

When this message appears, a closer look at the display window or the protocol file is necessary.



Figure 22: Error Message: Export Failed

- The most common case for this message to appear is a project in process. Either the project is being edited by a DPE E5 user and one or several components are open for editing, or the project has been opened for editing in DPM V5. The entry ***E_OBJECT_LOCKED !*** appears in the protocol file. Only after the project has been released, export is possible.
- The entry in the protocol files ***E_DATAOBJECT_ALREADY_DELETED !*** indicates that an object used in the project was deleted from a template. In this case the pointer on the deleted object must be removed using the DBAnalyzer. For more information on use of the DBAnalyzer *please refer to the [DBAnalyzer Manual](#)*.

3.4 Importing a Project

You can only import a project if you have previously exported a project or if you have exported projects at another workplace. Exported project files can be recognised:



- By the extension ***.xml***.
- By the sub-directory with the same name (folder)
- By the external files

For importing, you need the ***.xml*** file and the **directory** with the same name.



Caution

Manual changes to the export file in most cases result in errors while importing. The structure of the external files must not be changed.

Before starting a project import, you should create a database backup.

Before you import a project, check whether the same plantype set and the same configuration are available. Import them first, if necessary. The same applies to system items.

Import project...

- 1) Start the import using the **File/Import project...** menu.
 - The file selection window opens, which is already familiar to you from the export. Select the project to be imported here (.xml file).
 - After making a selection, a dialog opens in which you set:
 - Whether external files such as graphic files or attachments are also taken into account on import
 - Whether the system components used in the project are taken into account on import, and are also imported
 - Whether the access rights assigned in the project are also imported.



Figure 23: External Files, WSCs and Access Rights taken into Account on Import



Note

The options selected during export as shown in , are also taken into account on import. Since in the example no access rights were exported, this option field is also inactive on import.



Caution

If the import is cancelled because of an error, then the PTIMEX.exe process must under no circumstances be ended by intervention, e.g. in the Task Manager. After a failed import attempt, PTIMEX.exe may need quite a bit of time to clean up the database. This process may last just as long if not longer than the actual import. If the process were ended by intervention during this time, the result would be an inconsistent database condition which could later lead to severe problems in using the DELMIA Process Engineer®. If in such a situation you nevertheless have to intervene to end the PTIMEX.exe process or if this happens e.g. in a crash, then you should always reload the most recent database backup.

A message window informs you whether the import has been successful.



Figure 24: Message in the Case of a Successful Import

3.4.1 PTIMEX Import Operation

The memory efficiency improvement in PTIMEX import operation allows to import more objects into the target database. For algorithm to run efficiently export those classes that have no or minimum project dependencies at the start.

The XML file which the application uses to import is reorganized, for each class a poet object is created and it assigns all the attributes to this object. If the attribute section contains a reference pointer, then it means it is linked to some other objects.

In such a case the application keep this object in memory until it finds the linked reference objects.

This logic is applied recursively for every object. As the references increases, a reference count is maintained. Whenever the linked object is found, the reference count is decremented. When the reference count reaches 0, the object is stored in the POET database and then it is unloaded from the memory.

3.4.2 Messages during Importing

The Error Messages: Ambiguous Items

If items from the system library (system items or raw materials) are ambiguous (GUID attribute for system items; name and DIN number for raw materials), the following error message appears:

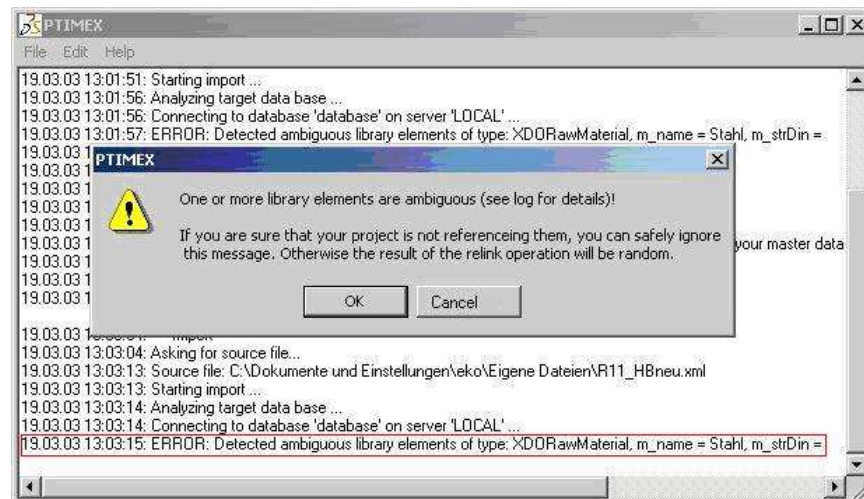


Figure 25: Error Message: Ambiguous Items

This error message does not pertain to the actual import process. Instead, there are two or more items with the same IDs in the database. This error message simply indicates that there are ambiguous items. If a link is created to such an ambiguous item, this can result in a false link because of the same ID appearing more than once (the first item found is always the one to be linked). This leads to a situation where at some point a different, false item is displayed.

Caution is advised when deleting such items, however, since you could delete the wrong item.

Messages and Error Messages: Plantype Set

This error message appears when the plantype set of the project to be imported cannot be found on the target system.

For a better understanding of the error messages below, it is important to note that the plantype set is identified by its short description. If the short description (nameshort) is the same due to an update, manual changes or for any other reason for different plantype sets, the import process alone cannot find the “right” plantype set. Therefore:

- If the plantype set can be determined unambiguously, the import process will be carried out without any additional error messages.
- If the plantype set is ambiguous, the following selection dialog appears:

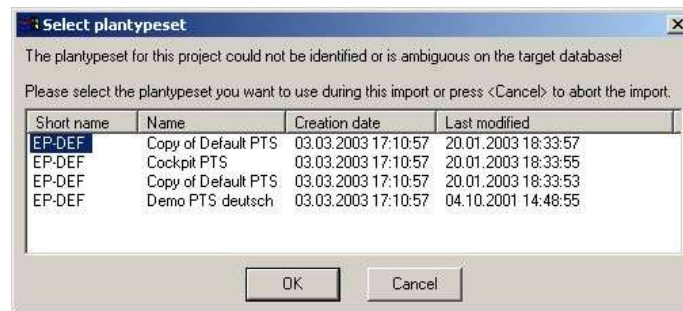


Figure 26: Plantype Set Selector

- In this dialog you are given an opportunity to make a selection from all of the ambiguous plantype sets, with their respective short descriptions. Select the plantype set that should be used by the project being imported.

If a plantype is not available within the selected plantype set, the following error message appears:



Figure 27: Error Message if a Plantype is not Available

- A selection dialog then appears (Figure 28) showing all of the plantype sets that are available.

Here you can select a plantype that corresponds to your project.

If a plantype set with a suitable plantype is not available, you must cancel the import and import or create the corresponding plantype set before re-starting the import process.

If the plantype set is not available, the selection dialog appears

You can now select a plantype set that corresponds to your project.

- If none of the plantype sets are suitable, you must cancel the import and import or create the corresponding plantype set before re-starting the import process.

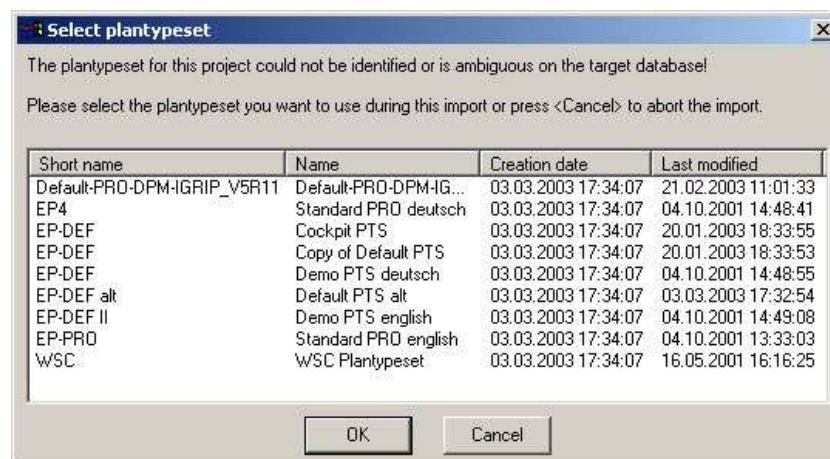


Figure 28: Plantype Set Selector

General Notes on Plantype Sets on Import

When importing a project, PTIMEX looks in the target database for a plantype set that has the same short name as that of one linked to the project in the initial database, and then links the newly imported project to the plantype set thus found.

Under certain circumstances there could be name conflicts in the target database. This means that there would be two or more plantype sets with the same short name. If this is the case, PTIMEX requests that you solve this conflict as previously described.

If the plantype set could be clearly identified by the short name or if the user has solved any name conflicts which may have arisen, PTIMEX simply checks the existence of the plantypes used by the project (again by their short names). No further extensive consistency or compatibility test takes place here.

For aforementioned reasons it is rarely possible for a project to be linked to an incorrect, possibly incompatible, plantype set. This could lead to problems or function errors in the DELMIA Process Engineer. Such a situation could theoretically occur randomly, but it is much more probable that two or more plantypes would be involved.

To avoid such problems, always keep the short names of your plantype sets unique. In certain cases it may be helpful to rename the plantype set to a unique name before export. The initial short name may be restored after the plantype set and project have been exported.

The Message: already Existing External Files

If files with the same designation already exist when importing external files, the following message appears:



Figure 29: Message in the case of Already Existing External Files

You then have four possibilities for importing to choose from, where you can individually overwrite or reject one or all files.

The messages: Different Drives and Paths at the Source and Target Location

With DELMIA Process Engineer you can incorporate external files from different drives and folders. These files (e.g. graphic files or attachments) are also included when exporting. When importing, the files are created again at the same location (as in the initial system). Thus the original folder structure is restored relative to the selected root folder.

The message below appears if the target PC does not have the same drives as the source PC. All files that could be assigned to a path and folder, however, are still filed in the “right” place.



Figure 30: Different Drives on Source and Target Location

If you confirm this message by clicking **OK**, you can enter the path in which the files of the unavailable drive are to be saved in the dialog that follows. All files will be saved in this folder, even if they originally came from different drives.

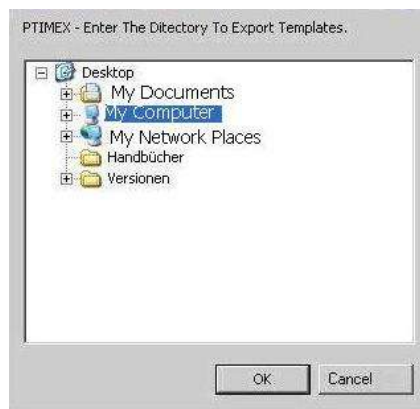


Figure 31: Search for Folder

Messages and Error Messages: System Component Import

If the referenced system components are already on the target system, you can decide whether the existing system components are written over. You can write over a single system component or consent to/reject the writing over of all referenced system components.

Other messages appear, as described under [Import of System Items](#).

Messages and Error Messages: Access Rights

If the users on the initial system are not on the target system, you are notified of this with an error message. The import is aborted after this message is confirmed.

This affects only the assigned access rights of users and groups for accessing the project and the library components referenced by the project.

In order to import the project anyway, you must repress the import of the access rights.



Figure 32: Message if there are no Users or Groups on the Target System



Note

Templates are exported or imported together with a project. As with the project itself, templates too are re-created for each import process. You cannot update existing templates using project import.

3.4.2.1 Log File

From Version PE 5.11 on, the import and export processes are logged. The log file `PTIMEX.Log` is located in the **log** folder of your server installation.

To allow to support all character sets (e.g. Japanese), the PTIMEX protocol file (PTIMEX.Log) can now also be written in the UNICODE format (UCS-2, little endian). This functionality is optional, that is, if you do not need the function, it can be activated or deactivated in the Windows registry.

HKEY_LOCAL_MACHINE\SOFTWARE\DELMIA\PTIMEX\LogUnicode = TRUE

If this entry is not yet present, it will be created by PTIMEX during the first run with default value FALSE.



Caution

If you change the value from FALSE to TRUE or vice versa, the existing protocol file will be overwritten upon the next start of PTIMEX.

3.5 Starting the Export/Import of Projects from the Command Prompt

3.5.1 Prerequisites

The same prerequisites that apply to interactive imports/exports apply here. The only difference is the unambiguousness of the plantype set when importing.



Note

*The plantype set must be **unambiguous** when importing in batch mode (no selection dialog for selecting the plantype set is displayed).*

3.5.2 Command Prompts Application

- 1) Open the table view.
- 2) The application **PtlmExCmd.exe** can be found in the `...PPRServer\program\bin` folder of your server installation of the DELMIA Process Engineer®.
 - You can find out which parameters are available by entering **-h** or **-?** as a parameter. The complete entry then looks like this:
`D:\DELMIA\PPRServer\program\bin>ptimexcmd.exe -h`
 - All parameters are listed.

```

D:\DELMIA\PPRServer\program\bin>PtImExCmd.exe -h
USAGE: ptimexcmd ACTION OBJECTS FILES OPTIONS

ACTION          -EXPORT          Export the project
specified

                  -IMPORT          Import the project
specified

OBJECTS         -PROJID    <project ID>    Project ID
                  -PROJ      <project name>    Project name

FILES           -FILE      <full path>      Path/location of in-
put file for import or output file for export

OPTIONS         -EXTL          Select external file
                  -WSC           Select work system
component
                  -RIGHTS        Select access rights
                  -USER          <user name>    User login name
                  -PASSWORD    <user password> User login password
                  -LOGDEBUG      Show debug messages
                  -H             Help

```

Figure 33: Calling up the help in Batch Mode

3.5.2.1 Description of the Parameters

The following parameters are relevant:

- **EXPORT**
Starts the export of a project.
- **IMPORT**
Starts the import of a project.
- **PROJID** <project ID>
Only relevant for the export.
If several projects with the same project names exist, it is necessary to identify the project to be exported with the "project ID".
The project ID can found most quickly by using the following script:
`sub main(ID)`


```
val = InputBox("The Object ID is: ", "Selected ID", ID)
end sub
```

} The script indicates e.g. the following ID: \$id\$(0:0-229217#0, 168)

Your ID should be structured similarly.

You need only the part marked in color for the export. The call-up then looks like this: **-projid "(0:0-229217)"**

If the project name unambiguous, you can also select the subsequent parameters for the project export.

This is not necessary for the import.

- **PROJ** <project name>

Enter the project name of the project to be exported when exporting. If the project name consists of several words, it must be set in quotation marks e.g. "Project Name".

If the "PROJID" – parameter has already been entered, this condition no longer applies.

- **FILE:** <full path>

Export

When exporting; enter the output path and the file name with the file extension .xml. The path can be either a relative path or an absolute path. If the specified folder is not located in the path, it is created and the specified file is saved in this new folder. If the export file already exists in this folder, it is overwritten. The path and file name must be set in quotation marks " ".

Import

When importing; use this parameter to specify the folder and the file name of the project to be imported. The path can be relative or absolute. If the input file is not found, the import will not work. The path and file name must be set in quotation marks " ".

- **EXTL**

Specify this parameter whenever external files such as graphic files or attachments should be taken into consideration in the export / import.

- **WSC**

Specify this parameter whenever the system elements used in the project should be taken into consideration in the export/import.

- **RIGHTS**

Specify this parameter in order to view the user rights for the export/import.



Note

If user rights are to be taken into account on export and import, the same users and groups must be available on the source and target systems.

- **USER** <user name>

Enter your user name for the login in DPE.

- **PASSWORD** <user password>

Enter your user password for the login in DPE.

- **-H**

Show all parameters with a brief description.

- **LOGDEBUG**

For internal purposes only.

3.5.2.2 Example of a Call-up

```
\\DELMIA\PPRServer\program\bin>PtlmExCmd.exe -export -proj "Proj name" -file
"C:\TEMP\R15\EXPORT_Ordner\Projname.xml" -extl -wsc -rights -user ad-
min -password admin
```

3.6 Exporting a Template Project

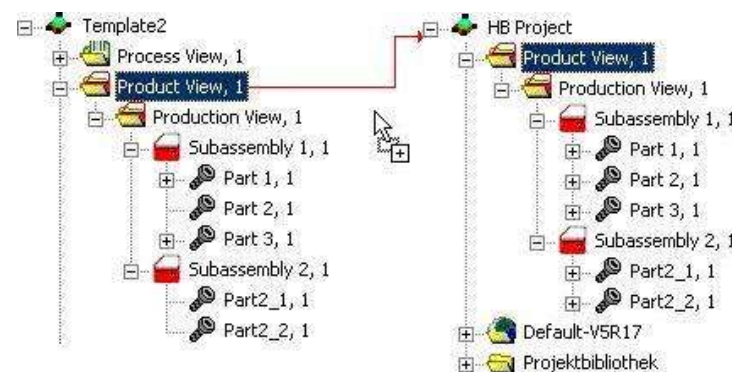
Templates also are exported and imported using PTIMEX.

Treating Templates differently from Projects

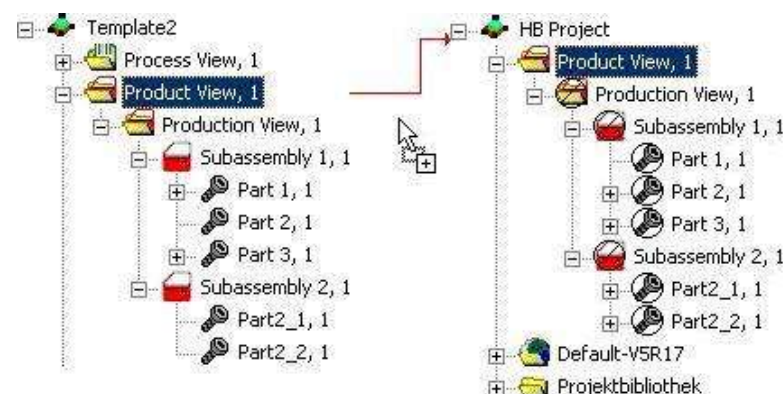
Templates and template projects are used in projects and other templates. There are three different ways to use this option.

- The template project is used as a whole in a project.

Copies of template objects are used in other projects/templates (depending on the keyboard layout either the **Strg** or the **Ctrl** button is used for copying).



- A template object is used as a reference in other projects/templates, which means that only the top node is a copy, while the children of this node only point to the components of the initial template. A special icon marks the children which are write-protected.



Whether they are a copy or a reference, the components include a pointer to the template.

3.6.1 Starting the Export

- 1) In the menu option **File** you can start Import or Export.

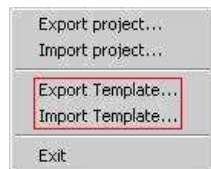


Figure 34: "File" Menu Item

Starting the Export Procedure

- 2) Activate in menu **File/Export Template...** to start export procedure.
- 3) Enter your user name and password in **Login** dialog.



Figure 35: Login Dialog

- Click **OK** button to close the login dialog; another dialog opens allowing to select the plantype set. Select the plantype set on the left of the dialog. The corresponding templates are shown on the right. From the right side select one or several templates and click **OK** button. The **OK** button will not react before a selection was made.

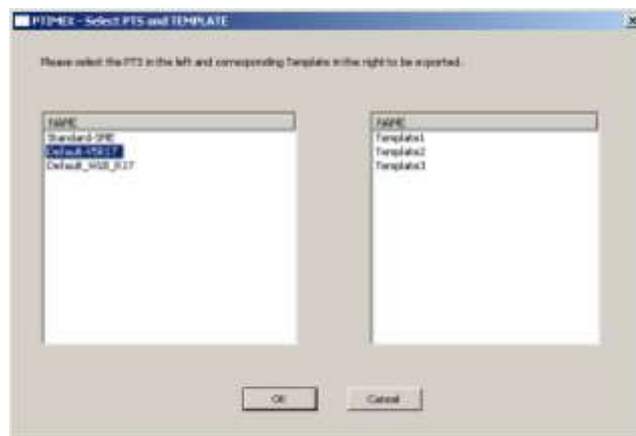


Figure 36: Plantype Set and Template Selector

- 4) After selecting the template and confirming the selection with **OK**, a storage location for the export templates must be set in the opening window *Please refer to the [Figure 37](#).*



Figure 37: Dialog File Search

- 5) After clicking **Save** button, set the following in the query that appears:
- Whether external files such as graphic files or attachments are also taken into account on export
 - Whether the system components used in the template project are taken into account on export
 - Whether the access rights assigned in the template project are also exported.



Figure 38: External Files, taken into Account on Export



Note

The options that you set in this dialog are also important for importing. If, for example, no access rights are exported, no access rights can be imported. Already existing Export data with the same name will be overwritten.

Afterwards start the export process. In the display area you can see the progress of the export process and what functions are being executed.



Figure 39: Display Window after the Export

- 6) A message window informs you whether the export has been successful.



Figure 40: Message in the Case of a Successful Export

If the following error message appears together with external files during the export process, this simply means that while there is a path to a file, the file has been deleted or moved.



Figure 41: Message when a File is no Longer Available

The same message is displayed during an import.


3.7 Importing a Template Project

You can only import a template if you have previously exported a template or if you have exported template at another workplace. Exported template files can be recognized:



- With the file name (name of the exported template with an additional number derived from the ObjectID; e. g the ObjectID (0:0-164864#0, 463) becomes -> "_0_0_164864_463_.xml".) and the ending will be **.xml**.

 Template2_0_0_178521_463_.xml

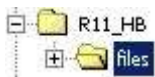
- By the sub-directory with the same name (folder)

 Template2_0_0_178521_463_

- By the external files with sub-directory with the same name

 Template2_0_0_178521_463_
 files

For importing, you need the **.xml** file and the **directory** with the same name.



Caution

Manual changes to the export file will in most cases result in errors while importing. The structure of the external files must not be changed.

Before you import a template, check whether the same plantype set and the same configuration are available. Import them first, if necessary. The same applies to system items.

Import project...

- 1) Start the import using the **File/Import Template...** menu.

- The file selection window opens, which is already familiar to you from the export. Select the template to be imported here (.xml file).
- After making a selection, a dialog opens in which you set::
 - Whether external files such as graphic files or attachments are also taken into account on import
 - Whether the system components used in the template are taken into account on import, and are also imported
 - Whether the access rights assigned in the template are also imported.
- Determine whether this template is to be imported as a new template or whether it is to overwrite an existent template. Since overwriting existing templates and using them in projects or other templates can have various effects, this setting is discussed in the section [Replacing an Existing Tem-](#)

plate and [Importing a Template as New](#). The **OEM ID** identifies the templates.



Figure 42: External Files, WSCs and Access Rights taken into Account on Import



Note

The options selected during export as shown in [Figure 38](#), are also taken into account on import. Since in the example no access rights were exported, this option field is also inactive on import.

A message window informs you whether the import has been successful.



Figure 43: Message in the Case of a Successful Import

3.7.1.1 Importing a Template as New

If the option **Import Template as new** is activated while importing a template, the template is imported as new and all its components receive a new OEM ID and a new Object ID. If a template with the same name already exists in the database, the prefix **Copy of** is added to the new template name.

3.7.1.2 Replacing an Existing Template

The import process will try to overwrite an existing template if the option **Import Template As New** is not activated during import of a template.

During this procedure the following are checked:

- First, all references to projects or other templates are checked.
- Second, all remaining components are inserted and any existing templates deleted.

The OEM IDs are not changed during the procedure.

Error message when updating a template

The import mechanism cannot update a template that is currently edited. The following error message is displayed.



Figure 44: Error Message when Updating a Template

Still the import is executed. Now two templates with identical OEM IDs and the same name exist in the plantype set of the system library. *Please refer to the Figure 45.*



Figure 45: Identical Templates after Import

There are two options for editing of these templates.

The context menu of a template contains the functions **New Template Identity** and **Replace Template**. *Please refer to the Figure 46.*

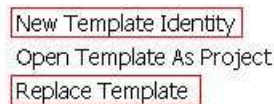


Figure 46: Context Menu of a Template

- The function **Replace Template** will replace one template with another. Only templates with identical OEM IDs can be replaced. If the function **Replace Template** is called up, then the appearing dialog will display the second Template3:



Figure 47: Displaying Second Template3

The function **Replace Template** is of no use for “Copy of” templates or any other templates, because these cannot be replaced.

- Only one Template3 will exist in the plantype set after the replacement.
- To assign new OEM IDs to a template and its components use the option **New Template Identity**.

3.8 Starting the Export/Import of Templates from the Command Prompt

3.8.1 Prerequisites

The same prerequisites that apply to interactive imports/exports apply here.



Note

The plantype set must be **unambiguous** when importing in batch mode (no selection dialog for selecting the plantype set is displayed).

- All parameters are listed (Yellow = only for templates relevant)

```
D:\DELMIA\PPRServer\program\bin>PtImExCmd.exe -h
USAGE: ptimexcmd ACTION OBJECTS FILES OPTIONS

ACTION      -EXPORT      Export the project specified
            -IMPORT      Import the project specified

OBJECTS     -PROJID      <project ID>    Project ID
            -PROJ        <project name>   Project name

FILES       -FILE        <full path>      Path/location of input file
            for import or output file for export

OPTIONS     -EXTL        Select external file
            -WSC         Select work system component
            -RIGHTS      Select access rights
            -USER        <user name>      User login name
            -PASSWORD    <user password>  User login password
            -LOGDEBUG    Show debug messages
            -H           Help
            -ASNEW       Template import as New
            -USER        <user name>      User login name
            -PASSWORD    <user password>  User login password
            -LOGDEBUG    Show debug messages
            -H           Help
```

Figure 48: Calling up the Help in Batch Mode

3.8.1.1 Parameter Description

The following parameters are relevant:

- **EXPORT**

Starts the export of a template.

- **IMPORT**

Starts the import of a template.

- **TEMPLID** <Template ID>

Only relevant for the export.

If several templates with the same template names exist, it is necessary to identify the template to be exported with the "project ID".

The project ID can found most quickly by using the following script:

```
sub main(ID)
val = InputBox("The Object ID is: ", "Selected ID", ID)
end sub
```

{ The script indicates e.g. the following ID: \$id\$(0:0-229217#0, 168)

Your ID should be structured similarly.

You need only the part marked in color for the export. The call-up then looks like this: **-TEMPLID "(0:0-229217#0, 168)"**

If the template name unambiguous, you can also select the subsequent parameters for the template export.

This is not necessary for the import.

- **TEMPL** <Template name>

Export:

Name of template to be exported.

Syntax

```
-EXPORT -TEMPL <Template Name> -DIR <Directory Name> <Export Options>
```

Example:

```
-EXPORT -TEMPL "Template" -TEMPLID "(0:0-178348#0, 463)" -DIR "C:\ExportedTemplates" (0:0-178348#0, 463)
```

Import:

For import TEMPL shows, that a template is imported.

Syntax

```
-IMPORT -TEMPL -FILE <Pfad der xml Datei> <options>
```

Example:

```
-IMPORT -TEMPL -FILE
```

```
"C:\ExportedTemplates\Template__0_0_164864__463_.xml"
```

- **DIR** <full path>

Export

Provide the output path for the export. Either the path is relative or absolute. If the specified folder is not located in the path, it will be created and the file specified is saved in this new folder. If the export file exists in this folder already, it will be overwritten. Path and filename must be set in quotation marks " ".

Import

When importing; use this parameter to specify the directory and the filename of the import project .The path can be relative or absolute. The import will not work, should the input file not be found. The path and file name must be set in quotation marks " ".

- **EXTL**

Specify this parameter whenever external files such as graphic files or attachments should be taken into consideration in the export/import.

- **WSC**

Specify this parameter whenever the system elements used in the project should be taken into consideration in the export/import.

- **RIGHTS**

Specify this parameter in order to view the user rights for the export / import.



Note

If user rights are to be taken into account on export and import, the same users and groups must be available on the source and target systems.

- **ASNEW**

Use this parameter to import the template as a **new** template.

Syntax

Ptimexcmd -IMPORT -TEMPL -FILE <Path and name of the xml file> -ASNEW

Example

-IMPORT -TEMPL -FILE "C:\Templates\Template__0_0_164864__463_.xml" -ASNEW

- **USER** <user name>

Enter your user name for the login in DPE.

- **PASSWORD** <user password>

Enter your user password for the login in DPE.

- **H**

Show all parameters with a brief description.

3.8.1.2 Example for Export of a Template

```
\\DELMIA\PPRServer\program\bin>ptimexcmd -EXPORT -TEMPL "Copy of
Template2" -TEMPLID "(0:0-182164#0 , 463)" -DIR "E:\DELMIA\Schablone" -
extl -wsc -rights -user admin -password admin
```

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