CATIA Data Security (DS9) - OEM application

BPA Delivery 7 for V5R19 (V5.7)

User Guide

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Introduction

This document describes the commands included in the BPA DS9 at OEM Site, and the way to use them.

Installation Check

After successful installation of BPA DS9 at OEM, start CATIA with the environment specified during installation.

The CATIA Security toolbar should be visible.

The following environment variables should also be defined in the DS9_OEM.txt file installed:

ToSuppliers
To set the location (directory) of the target directory during Export operation

FromSuppliers
To set the location (directory) of the origin directory during Import operation

AuthorizationFilePath
To set the location of the text file containing the list of suppliers / passwords. The text file may be empty.

The Export Command

Description:

The Export command performs the following actions:

1. Read all the files from a directory specified by the user. Sub-directories are supported.
2. Encrypt them together with allowed suppliers information. CATIA V5 files are protected by DRM and can carry DRM authorizations: “read only”, “expiry date” and “allow unprotected”.
3. Copy them into the directory specified by the environment variable *ToSuppliers.* Specific sub-folders are created for each supplier and for each encryption operation.
4. Delete the processed files from the origin folder, except if the option “Keep Origin Files” is checked.

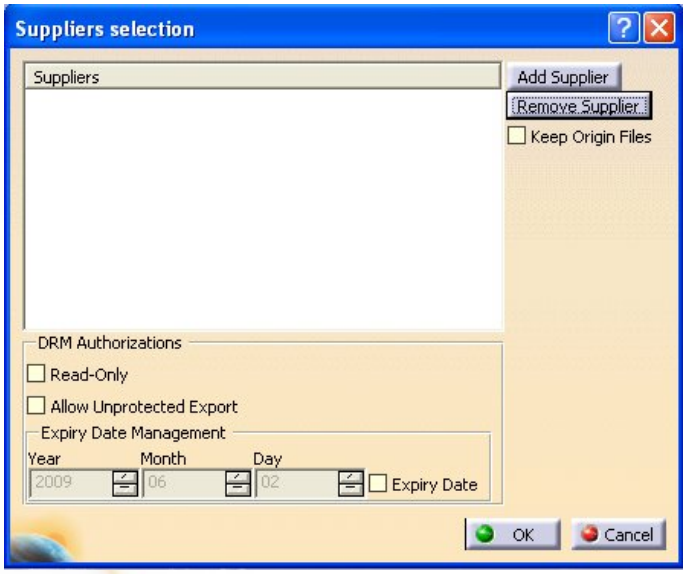
File types

All the files will be encrypted, but only the CATIA V5 formats below are protected by DRM in the CATIA session:

- CATPart
- CATProduct
- CATDrawing
- CATShape
- CATAnalysis
- CATMaterial
- CATProcess
- CATSystem
- CATSwl
- 3dxml
- cgr
- catalog

Click on the “Export” icon 

At first launch, the panel below appears. It is empty because no suppliers have been defined.



Defining a new supplier

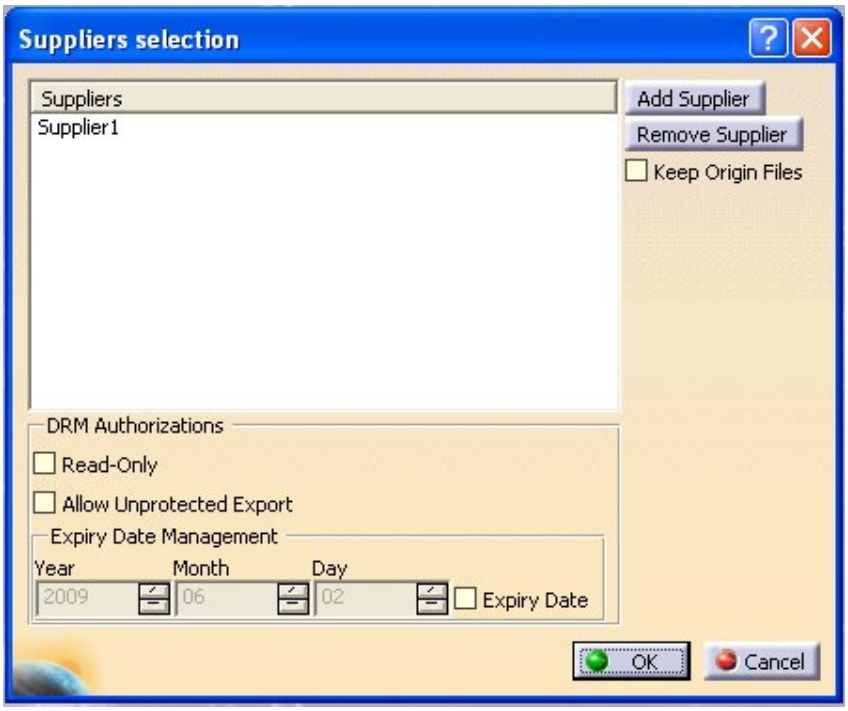
Click on the “AddSupplier” button. The panel below appears:

Type in a supplier name and a password (only single byte ASCII characters are allowed)

For example:

Click on OK.

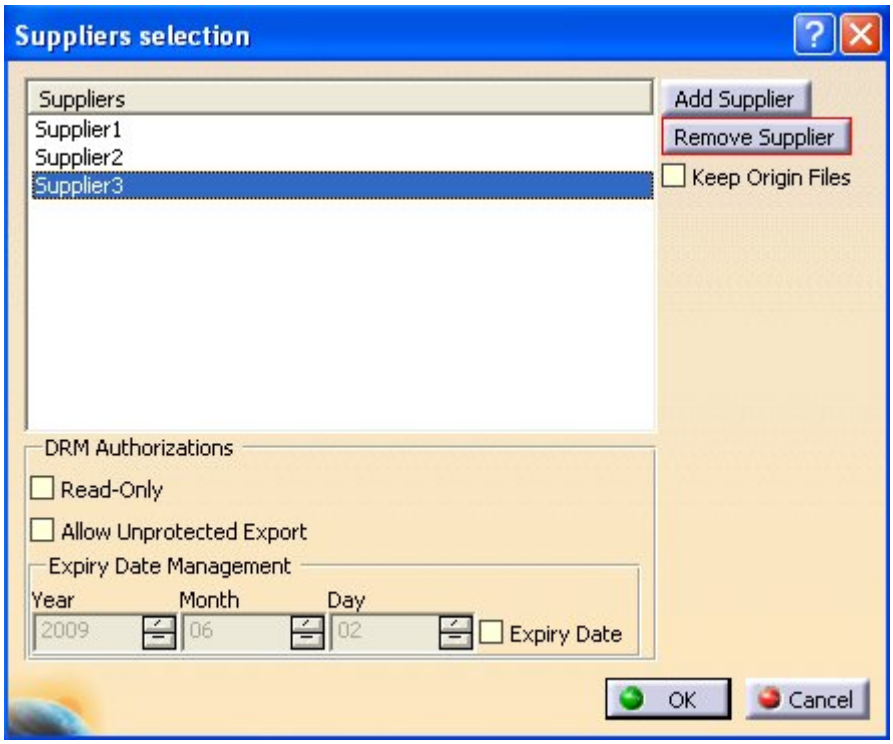
The supplier “Supplier1” is now listed and can be selected:



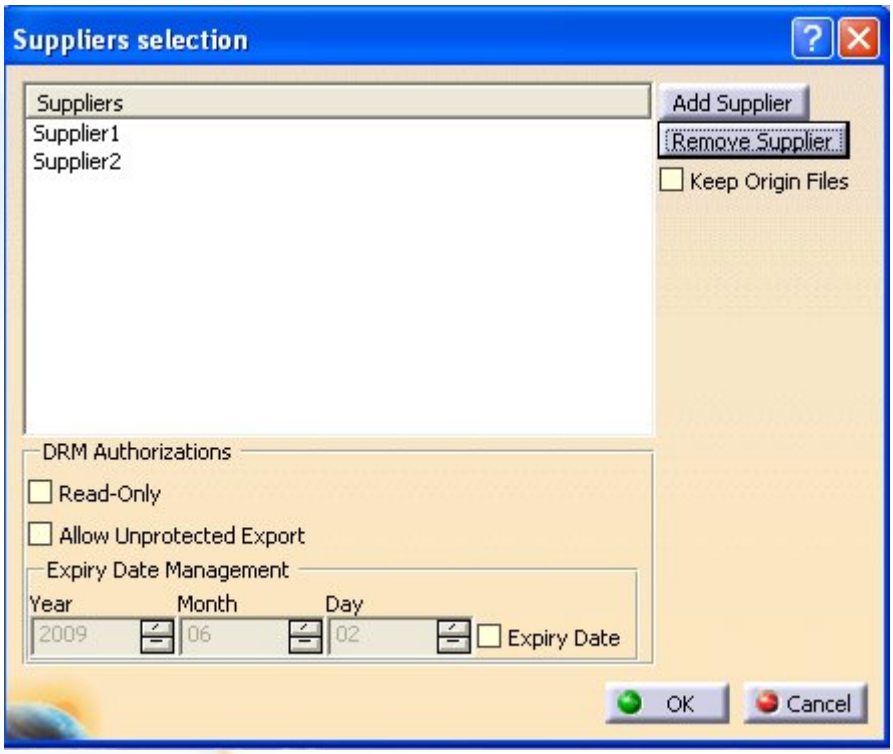
Multi-selection is possible, using CTRL-click or SHIFT-click.

Removing a supplier

Select the supplier(s) to remove and click on the “Remove Supplier” button.



The supplier(s) are removed from the list.



Set DRM Authorizations: Read-Only, Allow Unprotected Export, Expiry Date

Three parameters can be set: read-only, allow unprotected export and expiry date.
These parameters will affect only the CATIA V5 files protected by DRM.

Read-Only

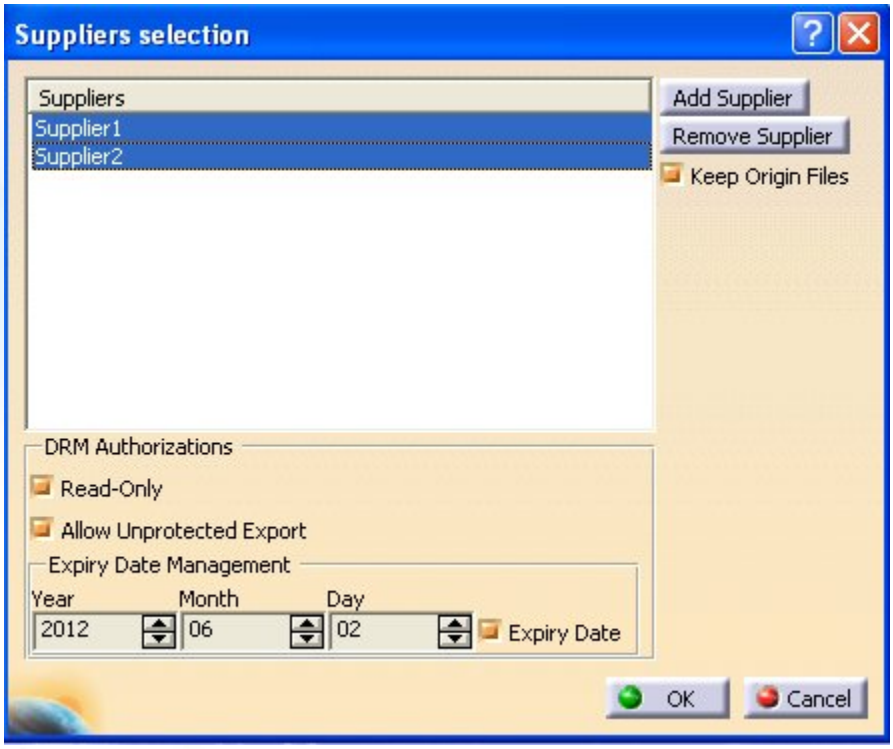
If the "Read-Only" box is checked, suppliers will be able to open and edit the files but not to save the modifications. A file "DS9ReadMe.txt" containing the message "The files in this folder are encrypted and protected with a Read-only attribute. You may be able to modify them inside CATIA, but Save will not be allowed" will be created in each supplier directory.

Allow Unprotected Export

If the "Allow Unprotected Export" box is checked, suppliers will be able to save the files into non-encryptable formats (STEP, IGES). A file "DS9ReadMe.txt" containing the message "The files in this folder are encrypted with a Unprotected Export attribute. **Caution: Export into non-encryptable formats (IGES, STEP) is allowed.**" will be created in each supplier directory.

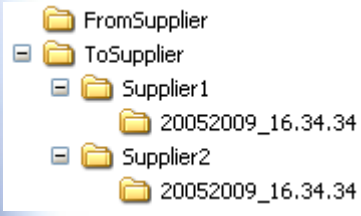
Expiry Date

If the "Expiry Date" box is checked: select the expiry date with format, then the files cannot be opened after this date on the supplier side. A file "DS9ReadMe.txt" containing the message "The files in this folder are encrypted and carry a validity date information. Open and use of these files will be possible only until yyyy/mm/dd" will be created in each supplier directory.



When all the parameters are set, click on "OK" button.

The folder selection panel appears. The Export command will always store the encrypted files into the directory specified by the environment variable “ToSuppliers”. Under this directory, a sub-folder is created for each supplier selected during execution of the Export command. At each execution of the Export command, a sub-folder is created under each applicable “supplier” folder. The name of this new folder is the time stamp of the Export command beginning of execution. The format is ddMMyyyy_hh.mm.ss.

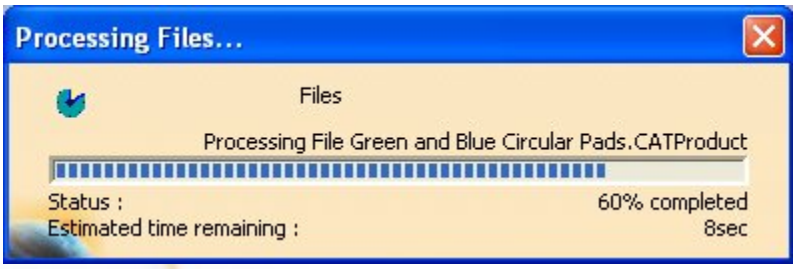


In the panel below, select the Origin Directory, from which the non-encrypted data will be read.

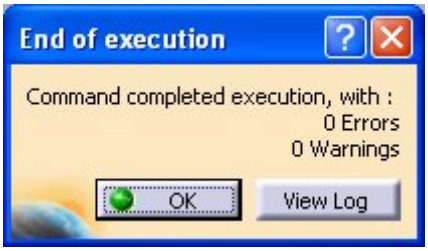
Once the folder is selected, press OK.

The encryption operation starts.

Depending on the number and size of the files, it may take some time, but you can follow the execution with the progress bar displayed on-screen.



At the end of execution, a panel will show the number of errors and warnings:



Errors occur when a file could not be successfully encrypted.

Warnings occur when a file could not be deleted before or after the operation.

For more detailed information, press “View Log”:

The log also displays the list of encrypted files.

Command execution is finished: the encrypted files are available for shipping to your supplier in the directory specified by “ToSuppliers”, and the original files have been deleted, except if you checked the “Keep Origin Files” option.

The Import Command

Description:

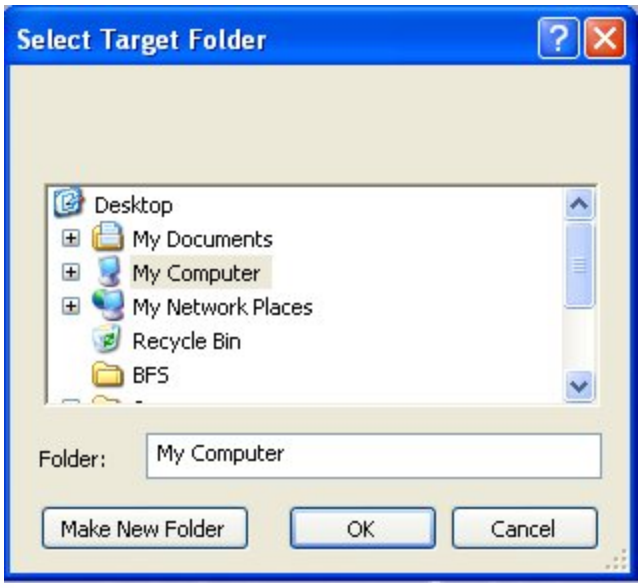
The Import command performs the following actions:

1. Read all the files from the directory specified by the environment variable “FromSuppliers”. Sub-directories are supported.
2. Decrypt them.
3. Copy them into the directory specified by the user.
4. Delete the processed files files from the “FromSuppliers” folder if required.

Click on the “Import” icon 

The folder selection panel appears. The Import command will always read the encrypted files from the directory specified by the environment variable “FromSuppliers”.

In the panel below, select the Target Directory, where the decrypted data will be stored.

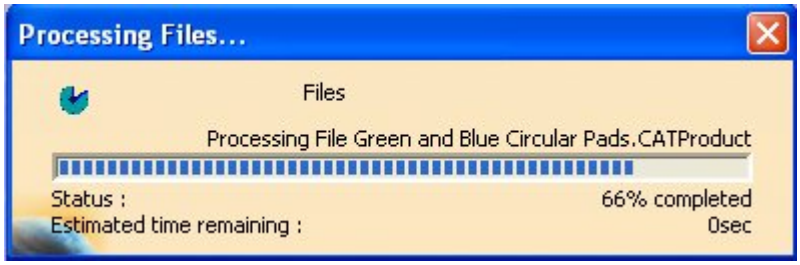


Once the folder is selected, press OK.

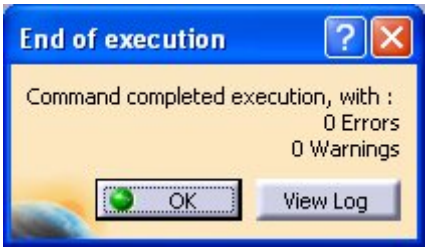
A panel appears to ask if the origin files must be kept (YES: the origin files will be kept, NO: the origin files will be deleted). Click on the desired answer.

The decryption operation starts.

Depending on the number and size of the files, it may take some time, but you can follow the execution with the progress bar displayed on-screen.



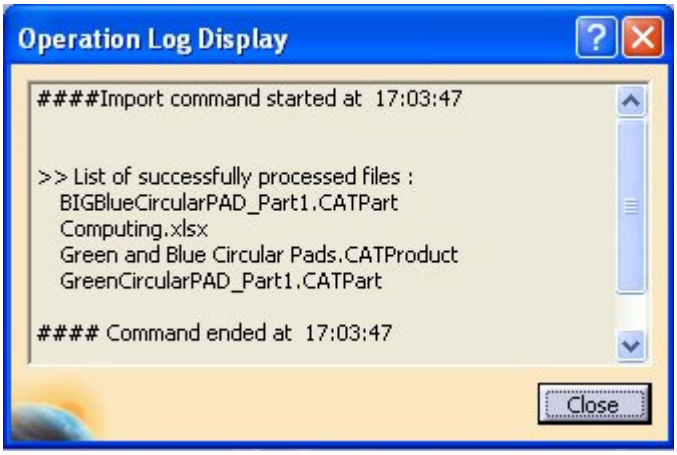
At the end of execution, a panel will show the number of errors and warnings:



Errors occur when a file could not be successfully decrypted.

Warnings occur when a file could not be deleted before or after the operation.

For more detailed information, press “View Log”:



The log also displays the list of decrypted files.

Command execution is finished: the decrypted files are available in the directory specified by the user (they can be safely re-injected in your PDM system if needed).

The CheckStatus Command

Description:

The CheckStatus command allows to view in a given directory which files are encrypted (or not) and to get information about suppliers, read-only status, allow unprotected export option and expiry date of encrypted files.

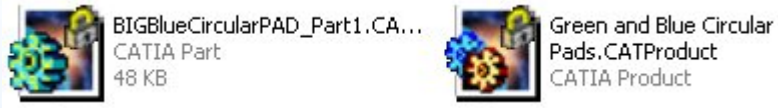
Click on the “Check Status” icon 

The folder selection panel appears. Select the folder you want to investigate.

After selecting the folder, click “OK”

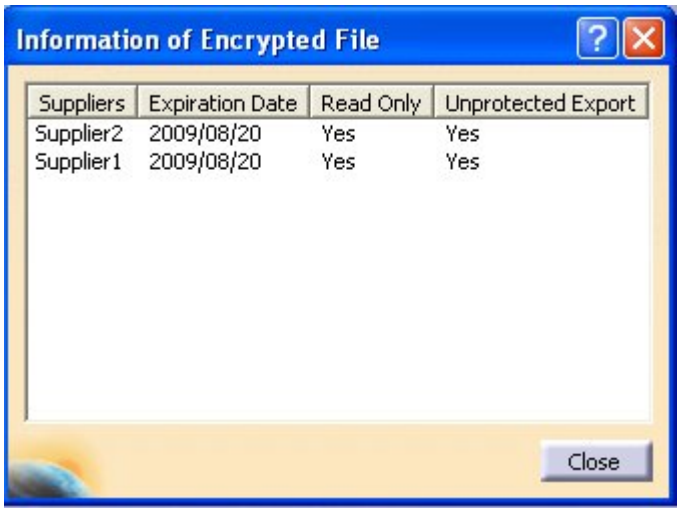
All the files present in the selected folder are listed in this panel, together with their encryption status (YES for an encrypted file, NO for a non-encrypted file).

The encryption status can also be checked directly in Windows Explorer. The icons of all the encrypted files have a lock to identify them.



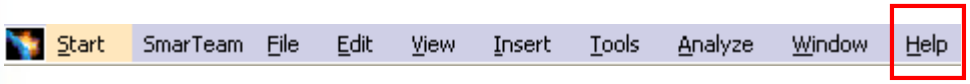
In the Check Files Status window, select a file and click on “Information of Encrypted File”

The list of suppliers, the expiration date (if available), the Read-Only status and the Unprotected Export status are displayed.



Help About- CATIA Data Security

1. Click on Help in the Menu bar.



2. Now click on About CATIA Data Security.