PLM Technical Support Series

CATIA V5 Licensing Cookbook

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IBM ***Product Lifecycle Management Worldwide Technical Support***

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CATIA V5 Licensing Cookbook

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This technical document is intended to provide the reader with tips and tools for the use of CATIA V5 and LUM, to aid in the setup of nodelocked, concurrent, and concurrent-offline licensing for CATIA V5. This document will aid both the systems administrator and the CATIA V5 user in understanding the implementation of CATIA V5 licensing. This information is valid for all Version 5 CATIA levels, unless otherwise specified, along with LUM Versions 4.6.7 or 4.6.8.

Introduction

Welcome to the CATIA V5 Licensing Cookbook. Setting up nodelocked licensing and/or concurrent licensing for CATIA V5 can be a difficult task. The trouble often starts with an attempt to obtain a valid target ID, and continues through to the starting of the CATIA V5 application using a properly-enrolled license. This document has been created to help eliminate many of the possible problems that can be encountered along the way. The CATIA V5 Licensing Cookbook contains the essential information needed when implementing licensing for IBM's PLM software products, tailored for use in a typical environment. Details are provided for various LUM and CATIA tools that are often used, as well as information on file locations, license enrollment, static and dynamic license allocation, plus concurrent-offline licensing. The concepts presented in this document have been used by many CATIA system administrators, and have proven to be useful techniques that should be periodically reviewed.

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Getting Started with CATIA V5 Licensing

The following basic items are needed when licensing CATIA V5:

- A valid **IBM Customer Number** under which IBM PLM software products (such as CATIA V5) have been purchased.
- A computer that has a **Network Interface Card** (NIC) installed, on which the license(s) will be installed.

The Target ID

- The **target ID** is the unique hardware identifier of each workstation or server on which CATIA V5 license(s) will be installed.
- For **nodelocked** (**standalone**) licenses, this is the hardware identifier for the workstation on which the CATIA V5 application is to be run.
- For **concurrent** (**network**) licenses, this is the hardware identifier for the network license server on which a pool of shared CATIA V5 licenses will be enrolled.
- The **target ID** must be supplied at the time when CATIA V5 license keys are ordered.

Obtaining the Target ID via CATIA V5

- If CATIA V5 is already installed on the workstation or on the license server, run the CATIA V5 **Nodelock Key Management** tool. On a Windows workstation, this can be done from the **Start → Programs → CATIA → Tools** menu,

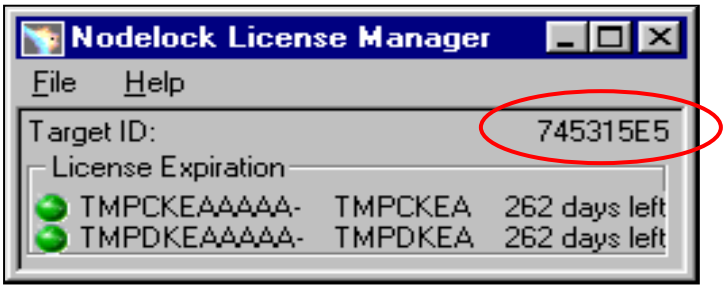


Figure 1 – Nodelock License Manager

- The **target ID** information is also displayed at the beginning of the CATIA V5 installation process on the workstation.
- There is no requirement to have a license in place when installing CATIA V5 code, but a license will be required in order to run the CATIA V5 application.

Obtaining the Target ID via LUM

- If CATIA V5 is not installed, the **target ID** can be obtained via the LUM **i4target** tool.
- The **i4target** tool will be installed when LUM code is installed.
- The latest LUM code for all platforms can be downloaded from URL
  http://www.ibm.com/software/lum
- Note: For Windows, the **i4target** executable can be downloaded by itself, separately from the full LUM code for Windows, at the above web site.
- LUM code, including the **target ID** tool, is also provided for all CATIA V5 platforms on a separate LUM CD, packaged inside the shrink-wrapped box containing the CATIA V5 code.

Locating LUM Code on a System

- The **i4target** tool is located in the directory where LUM executables have been installed.
- The default LUM install directories for the various platforms are:

  Windows NT/2000/XP
  - **C:\ifor\win\bin**

  AIX
  - **/var/ifor** or **/usr/opt/ifor/ls/os/aix/bin**

  HP, IRIX, SOLARIS
  - **/var/lum**
    or
  - **/opt/lum/ls/os/hpux/bin** (HP-UX)
  - **/opt/lum/ls/os/svr4.sgi/bin** (IRIX)
  - **/opt/lum/ls/os/solaris/bin** (SOLARIS)

Use of the i4target command

- Run the following command to display the **target ID**:
  i4target -O
- On AIX, run the following command, and use the **preferred target ID** value:
  i4target -Ol
- On Windows, it is possible to double-click on **i4target.exe** from within Windows Explorer, which will cause a message box to be displayed, showing the **win32mac target ID** of the machine on which the **i4target.exe** is run.
- The **target ID** is a number represented in hexadecimal notation.
- The following is an example of output from an **i4target –O** command on Windows, showing a valid **win32mac target ID**:

  LUM Target ID

  745315e5 win32mac MAC-HW Address

Target ID Problems on Windows

- For Windows, the hardware-based **win32mac target ID** is retrieved from the device driver that controls the network adapter, not from the operating system itself.
- The entry **I4DRIVER** is stored in the Windows Registry, in the path **HKEY_LOCAL_MACHINE\SOFTWARE\IBM\License Use Runtime**, to record the name of the network device driver used for retrieving the **target ID**.
- For this mechanism to work, a device driver that complies with Network Driver Interface Specification (**NDIS**) **4** must be installed on the workstation where licenses will be installed. If there is a question as to whether a device driver complies with NDIS 4, contact the supplier of the device driver to confirm NDIS 4 compliance.
- A **win32 target ID** cannot be used for enrolling CATIA V5 licenses on Windows, as it is not a unique hardware-based **target ID**. A **win32mac target ID** must be used.
- A **target ID** value of 000000 or 000001 usually indicates invalid content within the **I4DRIVER** Registry entry, often due to the removal of a network card. Clearing (erasing) the **I4DRIVER** Registry entry, and then re-running the **i4target** tool, will often resolve this problem.

Nodelocked vs. Concurrent Licenses

- CATIA V5 licenses can be ordered in two different types:
  nodelocked (standalone) or **concurrent** (network)
- A **nodelocked** license is stored on a specific workstation, for use of CATIA V5 on that workstation only.
- A **concurrent** license is stored on a License Use Management (LUM) license server, and can be used by client workstations having network connectivity to that license server.
- A third type of license, High-Availability Licensing (HAL) using **Clusters**, is beyond the scope of this CATIA V5 Licensing Cookbook, and will not be covered here.

Nodelocked License Principles

- A **nodelocked** license restricts the use of a CATIA V5 configuration and/or product to the workstation whose **target ID** is specified in the license file.
- Enrolled **nodelocked** license keys for CATIA V5 products are stored in a **nodelock** file on the workstation.
- CATIA V5, rather than License Use Management (LUM), manages the use of **nodelocked** licenses.
- When CATIA V5 is started on the workstation, the CATIA V5 code checks the **nodelock** file to ensure that it contains a valid license.
- Installation of License Use Management (LUM) code on the workstation is not required when only **nodelocked** licenses are used for running CATIA V5.

Concurrent License Principles

- Multiple CATIA V5 client workstations can share the pool of **concurrent** licenses for CATIA V5.
- LUM code must be installed and configured on each license server, as well as on each client workstation, and each client workstation must be network-connected to one or more license servers.
- The LUM license server should be configured as a **network license server**. IBM PLM software products do not make use of LUM's **nodelocked license server** capability, nor of its **central registry license server** capability, so these other LUM services should not be configured, for reasons of performance, unless other non-PLM licenses are known to require these LUM services.
- CATIA V5 client workstations should be configured to use LUM's **direct binding** method, rather than its **namespace binding** method, for reasons of network efficiency and Windows support.
- When a user at a client workstation starts CATIA V5, LUM code on the license server(s) determines whether a **concurrent** license is available.
- While CATIA V5 is running on a client workstation, the **concurrent** licenses that have been reserved at the start of this session of CATIA V5 remain unavailable to other users.
- When CATIA V5 stops running on that client workstation, these **concurrent** licenses are returned to the license server(s), where they become available to other CATIA V5 users.
- **Concurrent** licenses allow as many users to run CATIA V5 simultaneously as there are valid license quantities for CATIA V5 configurations and products available from the network license server(s).

Ordering License Keys

- Call the IBM PLM Key Center to order licenses:
  - 1-800-446-8989 (for USA only)
- A complete list of IBM PLM Key Center phone numbers worldwide can be found at http://www-1.ibm.com/support/docview.wss?rs=886&context=SW860&uid=swg27005921
- The following information will be needed:
  - **IBM Customer Number** used to purchase CATIA V5
  - **Target ID** for the machine on which the license(s) will be enrolled
  - CATIA **Product Number(s)**, and **quantity** of each license requested
  - **Software Serial Number(s)** (for configurations)
  - **Platform** (operating system) on which the license(s) will be enrolled
  - License Type **– nodelocked** or **concurrent**

Verify License Keys Received

- Check the e-mail received from the IBM PLM Key Center, to verify that the following information for the requested licenses is correct:
  - Target type (Platform)
  - Target ID
  - License type (Nodelocked or Concurrent)

Product name . . . . . : MD2-Catia Mechanical Design C2
Product number . . . . . : 5691MD2
Target type. . . . . : win32mac Target id. . . . . : 745315e5
Password type. . . . . : LICENSE
No. of connections . . . . . : 1 License type . . . . : NODELOCKED
Passwords are valid From : 2002-03-04 To . . . . . : 2003-03-04

Generated by userid. . . . . : KEYREGS1 Generated by sys : BLD-MENU
Generation reference No. : 2002-03-05-11.46.57.624231

Vendor name. . . . . : Dassault Systemes
Vendor id. . . . . : 5242378dbf8d.02.c0.09.c8.93.00.00.00
Vendor Password. . . . . : dgq5mxkpvqhbi
Product Password . . . . . : kukeitb8ipbgnvnnwc32g9apdhu7s5hauzackdimangaa
Product Version . . . . . : 5.1

License Certificate Files

- Check the attachments to the e-mail received from the IBM PLM Key Center, as individual License Certificate files are usually supplied as attached files.
- Alternatively, a License Certificate file can be created by copying and pasting the license certificate lines from the e-mail that was received from the IBM PLM Key Center into a text file, creating a separate License Certificate file for each separate license.

Creating a License Certificate File

- Copy and paste the following lines into a text file:

  - [LicenseCertificate]  First line
  - .
  - VendorName=Dassault Systemes
  - VendorPassword=dgq5mxkpvqhbi
  - VendorID=5242378dbf8d.02.c0.09.c8.93.00.00.00
  - ProductName=MD2-Catia Mechanical Design C2
  - ProductVersion=TMPMCFA
  - ProductPassword=kukeitb8ipbgnvnnwc32g9apdhu7s5hauzackdimangaa
  - ProductAnnotation=TMPMCFAAAAA-
  - .
  - TargetTypeName=MS Win-32 MAC
  - TargetID=745315e5
  - .
  - SerialNumber=TMPMCFAAAAA
  - .
  - MaxOfflinePeriod=  Last line

- Each License Certificate file can be given a meaningful file name of choice (e.g., **MD2.lic**).
- The normal naming convention for License Certificate files is to use a **.lic** extension.
- License Certificate files can be stored in any directory of choice, from where they will eventually be imported.
- The example above shows only the partial contents of a License Certificate file, in order to highlight the first and last lines of the License Certificate file.
- The first line of the License Certificate file should contain the word **LicenseCertificate** within square brackets. If characters other than square brackets are shown, there has been a problem during file transfer/upload/download of the License Certificate file, and the License Certificate will not successfully import.
- The specific line content of a License Certificate files can, and does, change periodically, with new lines typically being added at the end. If a License Certificate file contains somewhat different lines from the examples shown in this document, do not alter that License Certificate to match these examples.

Sample License Certificate file

- This page shows a sample of a complete License Certificate file.

```
[LicenseCertificate]
CheckSum=2CA72409B863E93B74449C72A0AD6F19
TimeStamp=1015354197
PasswordVersion=7
VendorName=Dassault Systemes
VendorPassword=dgq5mxkpvqhbi
VendorID=5242378dbf8d.02.c0.09.c8.93.00.00.00
ProductName=MD2-Catia Mechanical Design C2
ProductID=2119
ProductVersion=TMPMCFA
ProductPassword=kukeitb8ipbgnvnnwc32g9apdhu7s5hauzackdimangaa
ProductAnnotation=TMPMCFAAAAA-
LicenseStyle=nodelocked
LicenseStartDate=03/04/2002
LicenseDuration=366
LicenseEndDate=03/04/2003
LicenseCount=1
MultiUseRules=
RegistrationLevel=3
TryAndBuy=No
SoftStop=No
TargetType=26
TargetTypeName=MS Win-32 MAC
TargetID=745315e5
ExtendedTargetType=
ExtendedTargetID=
DerivedLicenseStyle=
DerivedLicenseStartDate=
DerivedLicenseEndDate=
DerivedLicenseAggregateDuration=
SerialNumber=TMPMCFAAAAA
Upgrade=No
CapacityType=
Bundle=No
InstallProgram=
AdditionalLicenseData=
CustomAttribute1=No
CustomAttribute2=No
CustomAttribute3=No
SubCapacityEligibleProduct=No
MaxOfflinePeriod=
```


Importing License Certificates

- **Nodelocked** licenses can be installed by importing License Certificate files via the CATIA V5 **Nodelock Key Management** tool.

- **Concurrent** licenses can be installed by either:
  - Importing License Certificate files via the LUM Basic License Tool Graphical User Interface (**GUI**)
    or
  - Using the **i4blt** command from the command line interface to import License Certificates.

Starting the CATIA V5 Nodelock Key Management Tool

- To start the CATIA V5 **Nodelock Key Management** tool:

- On **Windows,** click:
  Start → Programs → CATIA → Tools → Nodelock Key Management

- On **UNIX,** enter the following command:
  ./catstart -run CATNodeLockMgt
  This command is located in directory
  /usr/DassaultSystemes/Bxx/OS_a/code/command
  where **Bxx** represents the CATIA release (e.g., "B16" for CATIA V5R16)
  and where **OS_a** represents the operating system:
  - **aix_a**
  - **hpux_a**
  - **irix_a**
  - **solaris_a**

Importing a Nodelocked License Certificate using CATIA V5

- If there are no **nodelocked** licenses currently installed, the following warning message will appear when the CATIA V5 **Nodelock Key Management** tool is first started:

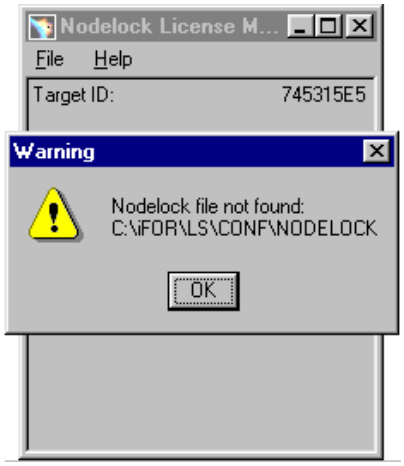


Figure 2 – Nodelock License Manager Warning.

- The actual pathname in the warning message may be different from the pathname shown above. Select **OK** to close the **Warning** window.
- Select **Import** from the **File** menu in the **Nodelock License Manager** window.

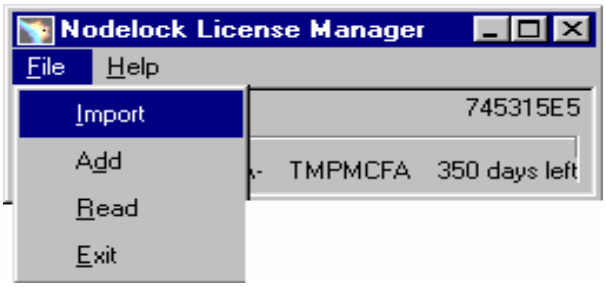


Figure 3 – Nodelock License Manager – Import

- Select the location of the License Certificate file that was created, or that was supplied by the IBM PLM Key Center, then press **Open,** and click **OK**.

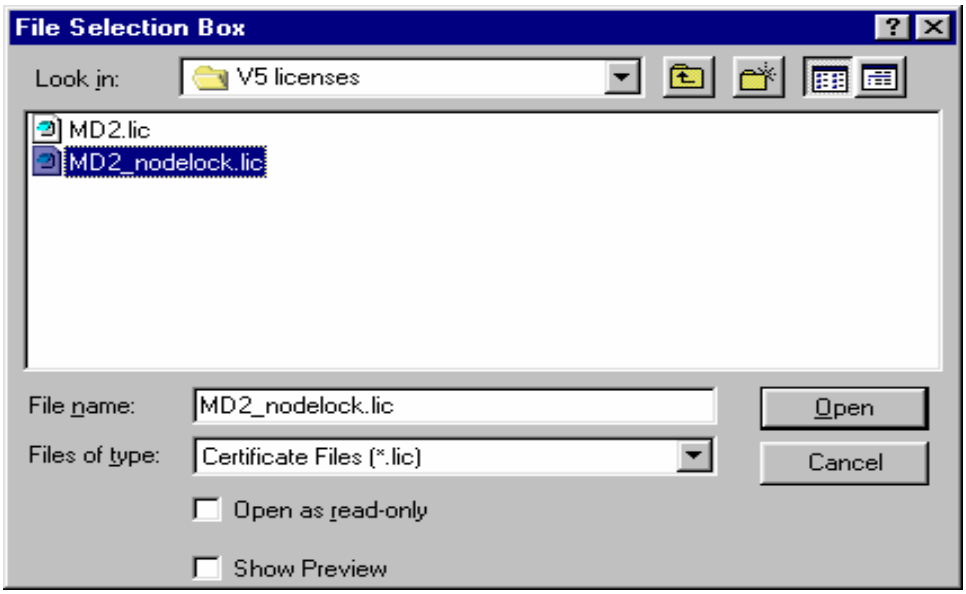


Figure 4 – File Selection Box

- The License Certificate file will be imported into the **nodelock** file on the workstation.
- Repeat the above steps for each remaining License Certificate file.

Content of the Nodelock File

- A **nodelock** file looks like this after a License Certificate file has been imported:

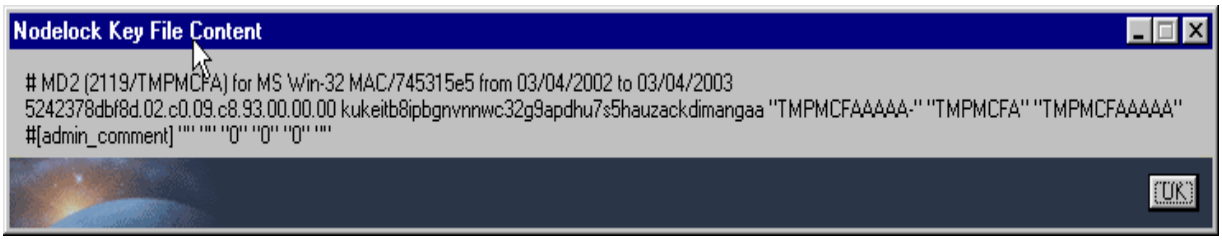


Figure 5 – Nodelock Key File Contents

Location of the Nodelock File

- The location of the **nodelock** file varies by platform:

Platform	Location
Windows NT	\Ifor\Ls\Conf
Windows 2000 and XP	\Documents and Settings\All Users\ Application Data\IBM\LUM *
AIX	/var/ifor
HP, IRIX, SOLARIS	/var/lum or /opt/lum/ls/conf

Figure 6 –Location of the Nodelock File

- ***Note**: If LUM is installed on Windows 2000, the location of the **nodelock** file may be **C:\IFOR\LS\CONF**

Installing a Concurrent License by Importing a License Certificate File

- To install a **concurrent** license on a LUM License Server, use the Basic License Tool provided with LUM. LUM must already be installed, and must be configured as a Network License Server.
- A License Certificate can be imported by using either the Basic License Tool Graphical User Interface (**GUI**) or by using an **i4blt** command issued from the command line.

Importing a Concurrent License Certificate using the GUI

- Using the Basic License Tool **GUI**, start **i4blt** and select **Enroll → Single product** from the **Products** menu:

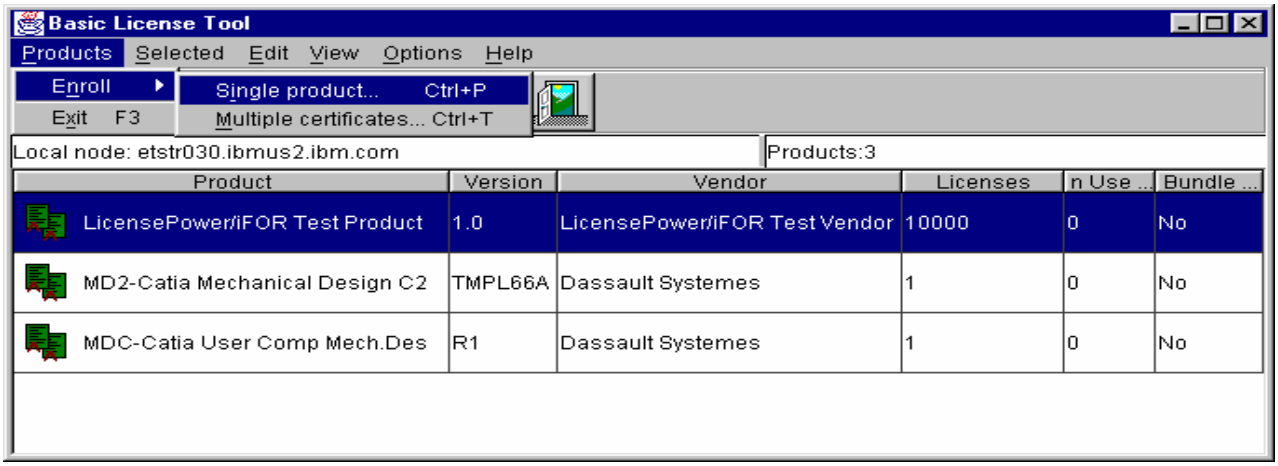


Figure 7 – Enrolling with the Basic License Tool

- Select the **Import** button at the bottom of the **Enroll Product** window.

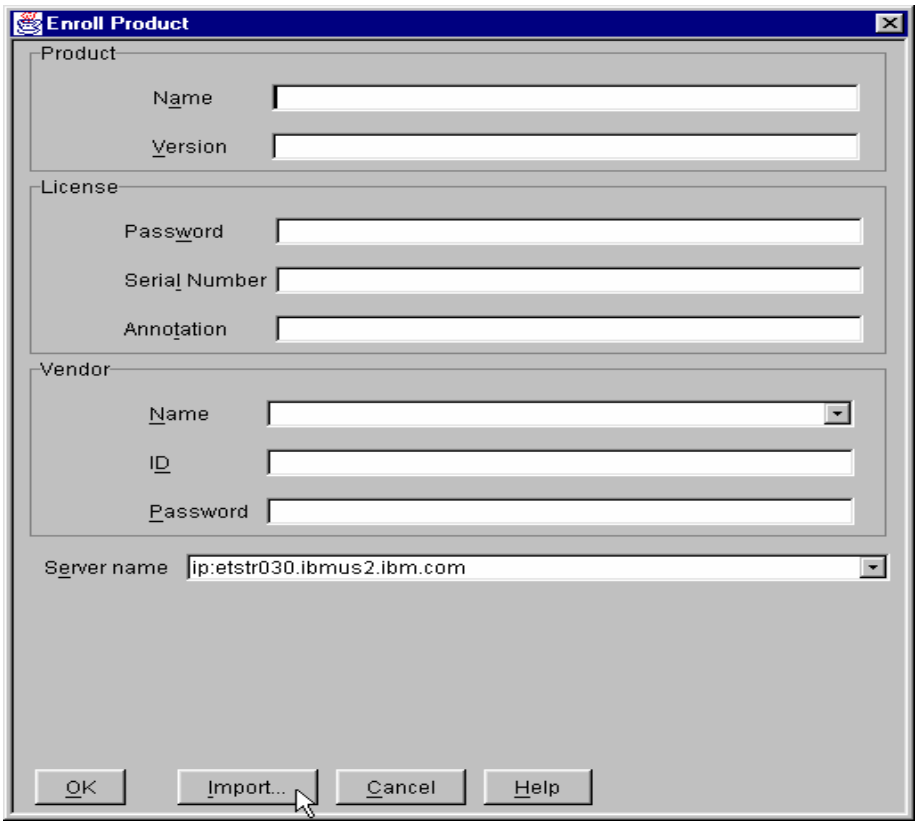


Figure 8 – Enroll Product window

- Select the location of the License Certificate file that was created, or that was supplied by the IBM PLM Key Center, and press **Open.**

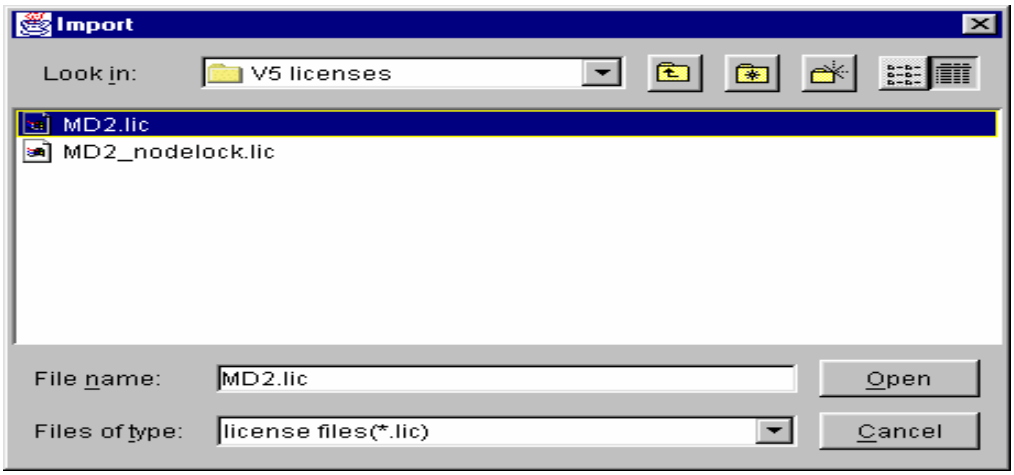


Figure 9 – Import Panel

- Press **OK** in the **Enroll Product** window.
- This will cause the selected license to be enrolled on the license server.
- Repeat these steps for the remaining License Certificate files.

Importing a Concurrent License Certificate using i4blt

- If the LUM GUI is not installed, the LUM command line interface can be used to import a License Certificate file.
- To import a License Certificate using LUM's **i4blt** command , enter
  i4blt -a -f filename
  at the command line, where **filename** is the name (including the path) of the License Certificate file that was created, or that was supplied by the IBM PLM Key Center.

Installing Concurrent Licenses directly using i4blt

- To install licenses without creating or using License Certificate files, use the **i4blt** commands provided in the e-mail that was received from the IBM PLM Key Center.
- From the command line, on any platform, copy and paste the **i4blt** commands found in the e-mail from the IBM PLM Key Center, following the line of e-mail text that reads

```
Install commands for server xxxxxxxx
----------------------------------
```

  where **xxxxxxxx** is the **target ID** associated with the license server.
- Place these copied **i4blt** commands into a **.cmd** file (Windows) or **.sh** file (UNIX) for execution as a series of one or more **i4blt** commands. Alternatively, one can copy/paste the **i4blt** commands, one at a time, directly onto the command line, for processing.
- Note that these copied **i4blt** commands will need to be edited before they can be used, to remove the "**+**" (plus sign) characters that are used as "continuation characters" in the e-mail text, and to combine multiple text lines from the e-mail into single-line **i4blt** commands, one **i4blt** command per line. Examples of this editing task are provided below.

Command for Installing Concurrent Licenses

- Following is an example of an **i4blt** command as provided in an e-mail from the IBM PLM Key Center:

```
i4blt -a -v "'Dassault Systemes' 5242378dbf8d.02.c0.09.c8.93.00.00.00 +
dgq5mxkpvqhbi"   -p   "'MD2-Catia   Mechanical   Design   C2'   TMPKCFA   +
zvexusn7favx3gumftmccdk7i3gzrg29krttcaadg6fsgcsa TMPKCFAAAAA-" -S  +
TMPKCFAAAAA
```

- Note the "+" (plus sign) characters at the ends of the first 3 lines in the above example.
- The syntax for this form of the **i4blt** command is:

```
i4blt -a -v "'VendorName' VendorID VendorPassword" -p "'ProductName'
     ProductVersion ProductPassword ProductAnnotation" -S SerialNumber
```

- Each **i4blt** command should be entered all on one long line. The "+" (plus sign) characters shown in the lines above must be removed, using a text editor, and all lines must be combined into a single command line, beginning with **i4blt**, and ending with the SerialNumber parameter.
- Once the **i4blt** commands have been appropriately edited, they can be run on the license server, either from the command line, or from a shell script (UNIX), or from a command file (Windows), which will cause the licenses to be enrolled on the license server.

Selecting Licenses to be used for running CATIA V5

- The license(s) with which CATIA V5 will be run must be selected before CATIA V5 is actually started.
- To accomplish this on Windows, click **Start → Programs → CATIA → Tools → Settings Management**

Figure 10 - Settings Management

- Select the **Licensing** tab in the **General** section on the **Options** window.
- Select the license(s) for starting CATIA from the available (intensified) choices, and then select **OK.**

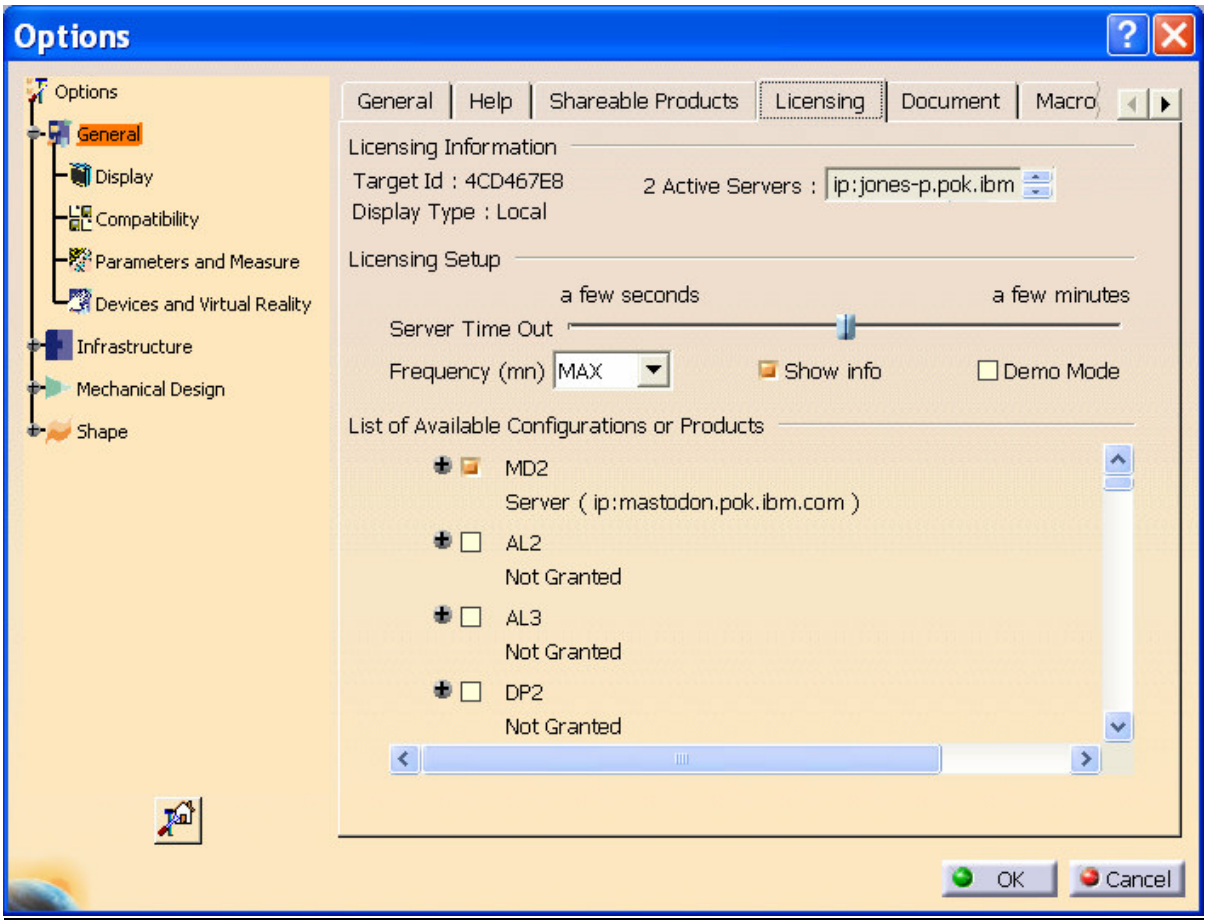


Figure 11 – Licensing Tab

- At least one CATIA V5 Configuration must be selected. Additional configurations and/or products can also be selected.
- The license selection will be saved in CATIA V5's **Licensing.CATSettings** file.
- Once the license(s) have been selected, CATIA V5 can be started.
- If an attempt is made to start CATIA V5 without first selecting a license, a license selection panel will appear, and CATIA V5 must then be restarted, in order to have the license selection take effect.

Figure 12 – CATIA Starting

Static License Allocation

- There are many CATIA V5 products that can be used in conjunction with CATIA V5 configurations.
- These products can be selected in the **Tools/Options/General/Licensing** tab and then CATIA V5 should be restarted. The user will hold these license(s) until CATIA V5 is ended.
- This is referred to as "static license allocation", because these licenses are allocated for the duration of the CATIA V5 session, and cannot be released without ending the CATIA V5 session.
- Licenses that are not available are under-intensified, and cannot be selected. This situation typically occurs when there is a "mismatch" between the available CATIA V5 licenses and the installed CATIA V5 configurations/products.
- The license server name of the active license server is shown in the **Tools/Options/General/Licensing** panel. If there is more than one available license server, all will be listed.
- Static license selections are saved in CATIA V5's **Licensing.CATSettings** file.
- Note: At least one CATIA V5 configuration license must be selected statically in order for CATIA V5 to start successfully.

Shareable (Dynamic) License Allocation

- For licenses that are available only in limited quantities, or that are only used occasionally for short periods of time, there exists a capability to share such licenses dynamically among several users.
- A **shareable** CATIA V5 product such as IG1 – CATIA – IGES INTERFACE 1 Product can be dynamically allocated by a user as needed during a CATIA V5 session, and then dynamically released, without the need to end and restart the CATIA V5 session.
- This is done by selecting the product in the **Shareable Products** tab within **Tools/Options/General** while CATIA V5 is running.
- The selected square first appears orange in color, then selecting **OK** pulls the license dynamically from the license server.
- If the license is not available (already in use), a message is provided indicating this condition.

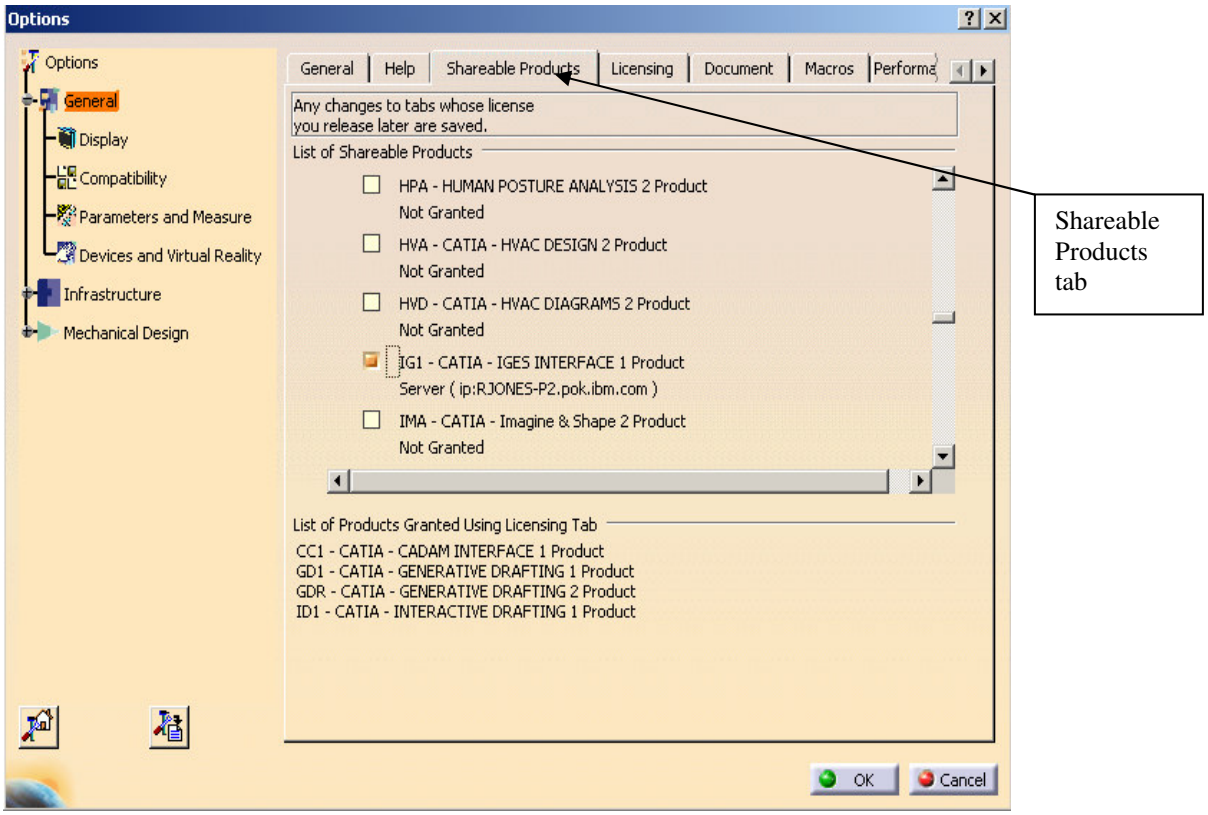


Figure 13 – Shareable Products Tab

- When the user has finished using the dynamic license, it should be returned back to the license pool, for availability to other users.
- Select **Tools/Options/General/Shareable Products** tab, select the dynamically allocated product to be released, and click **OK**. The license will be released from this user, and made available to other users.
- There is no need to stop or restart CATIA V5 when allocating or releasing licenses for shareable CATIA V5 products.
- Dynamic (shareable) license allocation requests are not stored in CATIA V5's **Licensing.CATSettings** file.
- Note that AddOn CATIA V5 products cannot be dynamically allocated and released, as they are, by definition, permanently tied to a specific CATIA V5 configuration.

Concurrent Offline Licensing

- Concurrent Offline Licensing (COL) is currently available only for CATIA V5 clients running on Windows 32-bit platforms.
- Concurrent offline licensing allows a license to be extracted (taken offline) temporarily from a license server, allowing the license to be used on a workstation, usually a laptop, which will run CATIA when disconnected from the network. The license is useable for a specified period, which cannot exceed 30 days. Once extracted from the license server, the offline license works similarly to a **nodelocked** license. The license is taken offline via the **Extract** option of the **CATIA V5 Nodelock Key Management** tool, and can be returned to the license server via the **Restitute** option.

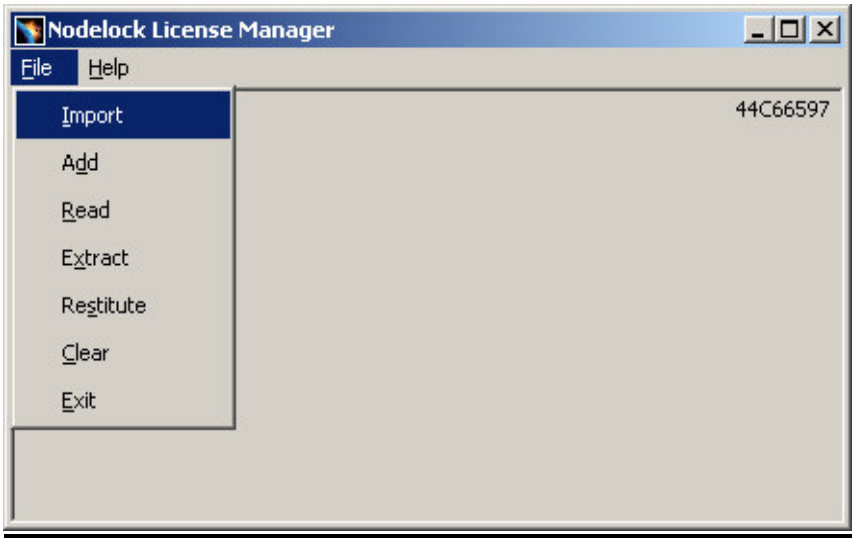


Figure 14 – Nodelock License Manager showing Extract and Restitute

- Offline licenses that have not been explicitly restituted will be automatically returned to the license server at the expiration of the offline checkout period.
- Offline licenses cannot be extracted from a High Availability Licensing (HAL) Cluster.

Concurrent Offline Licensing Requirements

- A license server running LUM 4.6.7 or higher, plus a client workstation running CATIA V5R13 or higher, are required in order to be able to make use of Concurrent Offline Licensing.
- Application of current patch levels to LUM is strongly advised, as there are several important corrections available for Concurrent Offline Licensing (COL).
- Stop the license server and run the **i4_offline_mig** executable, in order to convert the enrolled licenses from **concurrent** to **concurrent-offline** status, then restart the license server.
- The **i4_offline_mig** executables for various platforms are available in a .zip file that can be downloaded from the IBM PLM website at URL http://www-306.ibm.com/software/applications/plm/support/prodannounce.html
- After restarting the license server and running **i4blt**, then selecting a CATIA V5 product and performing **Open as details**, the tab for **Concurrent** will have changed to **Concurrent-Offline**.
- At this point, these licenses are not yet available for offline use.

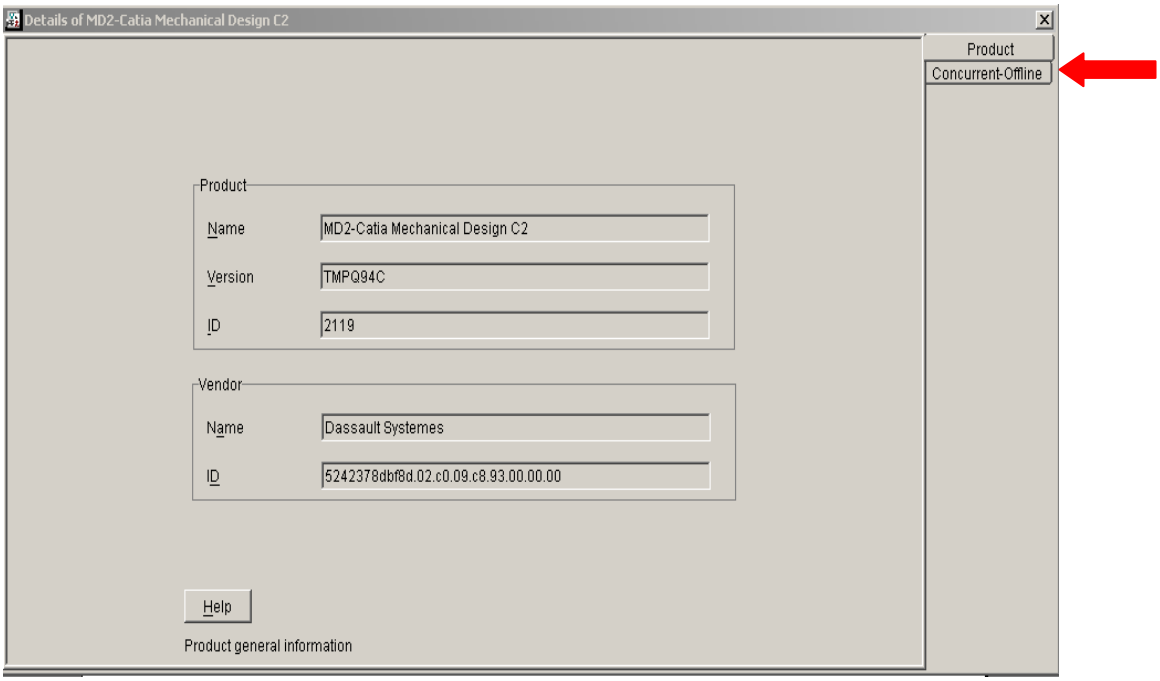


Figure 15 – Concurrent-Offline Tab

- Authorizations will need to be set in order to make **Concurrent-Offline** licenses available for offline use. Run **i4blt**, select (highlight) a CATIA V5 license, then click **Selected** on the toolbar, and click **Authorizations** from the pull-down menu.

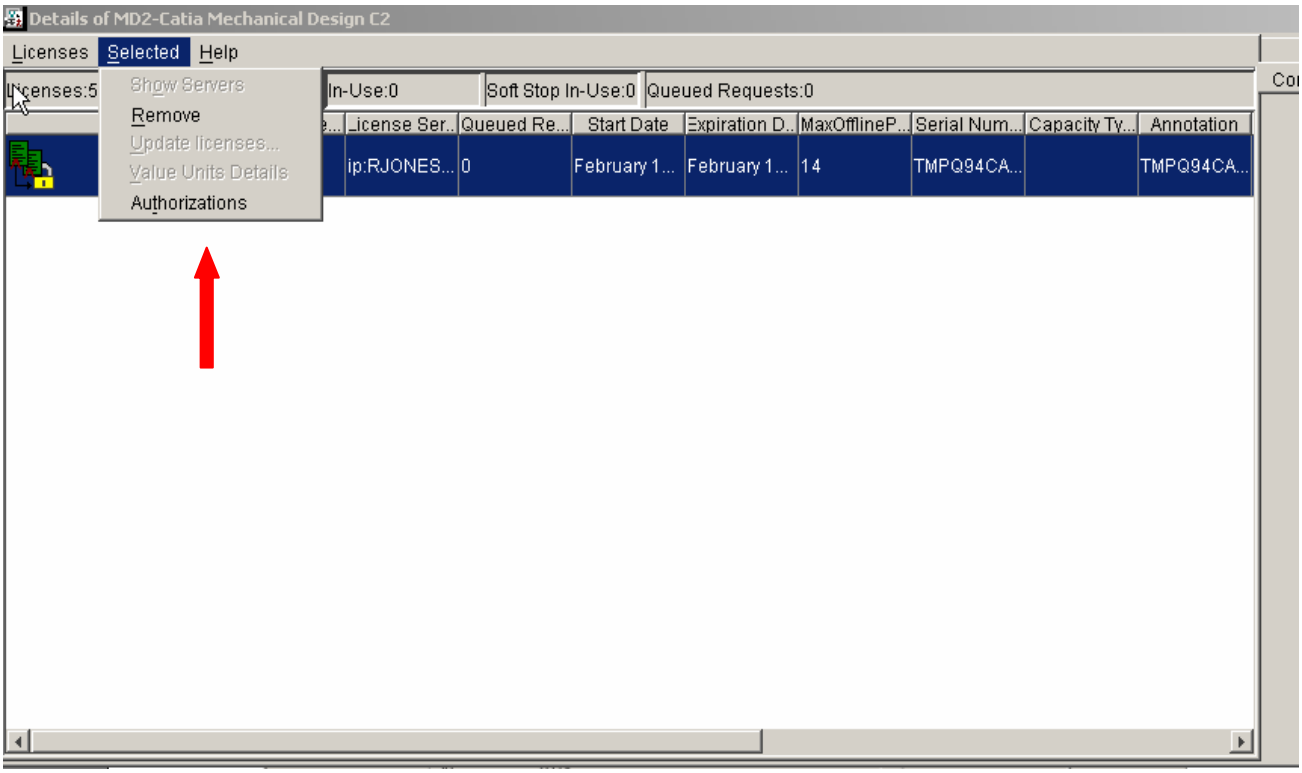
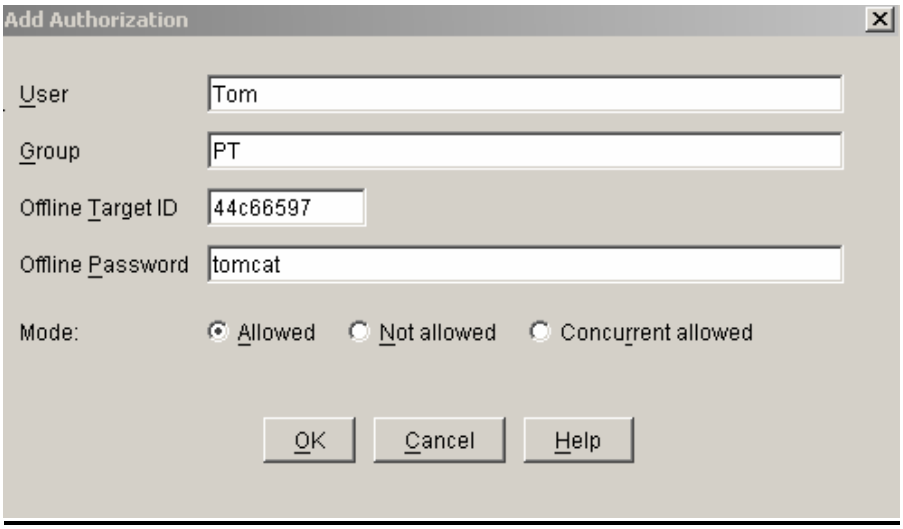
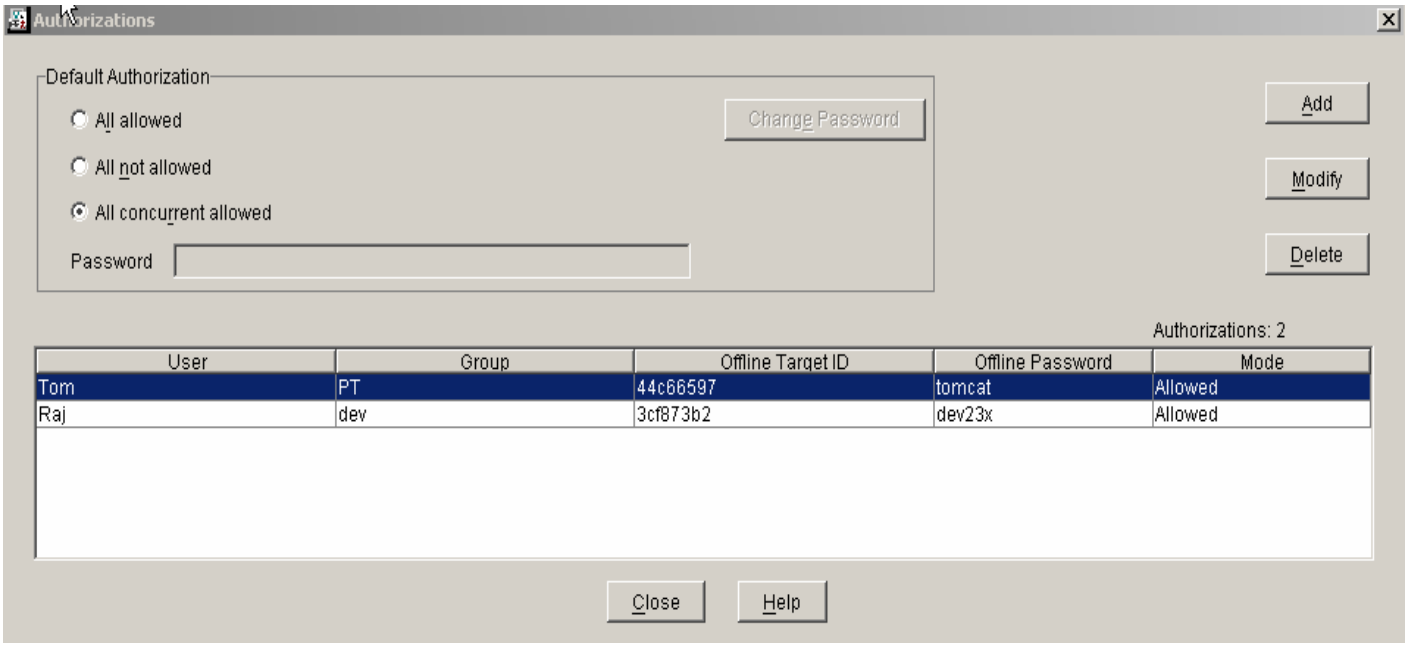


Figure 16 – Authorizations

Adding Authorizations for Offline Licenses

- Authorizations for offline license usage can optionally be made by user, by group, or by **target ID**.
- Passwords can also be specified.
- The default authorization mode is **All concurrent allowed**, where concurrent usage is allowed, but offline usage is not allowed.
- If unrestricted use of offline licenses is desired, the default authorization mode can be changed from **All concurrent allowed** to **All allowed**, which will allow both concurrent and offline usage of the licenses.

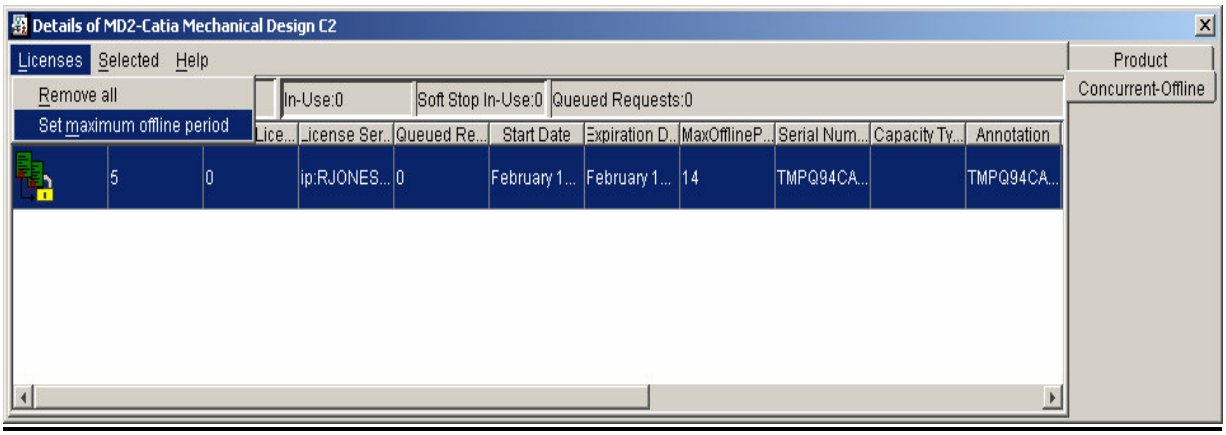


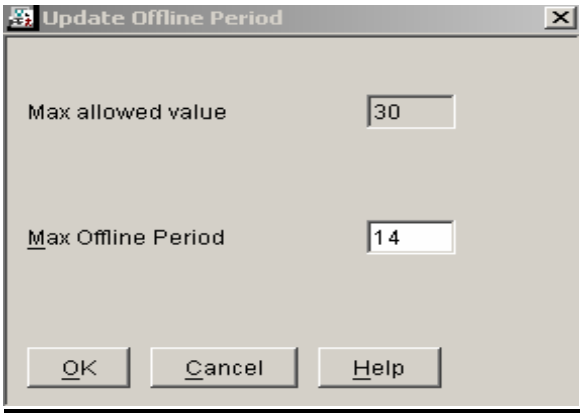


Figures 17 and 18 – Add Authorizations

Setting the Default Offline Period

- The default maximum offline period for a CATIA V5 license is 30 days. This maximum cannot be changed to a higher value.
- A value lower than 30 days can be specified.
- Different licenses can be assigned different default values.
- If problems occur with an offline license, the offline license can become "hung" (unusable either offline or on the license server) until the expiration date of the offline license occurs. For licenses in short supply, this can become a significant problem.





Figures 19 and 20 – Setting Offline Period

- See LUM's *Using License Use Management Runtime – Version 4.6.8* documentation, available at URL http://www.ibm.com/software/lum/library.html, for additional details on license server setup for Concurrent Offline Licensing.

Extracting the License to the Client Workstation

- To make the license available for offline use on the client workstation, run CATIA V5's **Nodelock Key Management** tool on the client workstation that is to use the license on offline mode.
- The client workstation must be networked connected to the license server at this time, in order to extract the license from the license server.
- After starting the CATIA V5 **Nodelock Key Management** tool on the client workstation, click **File** and select **Extract.** A list of licenses available for extraction will be displayed, with the associated maximum offline periods.
- Select (highlight) the desired license(s) and click the **Extract** button.
- Prompting for a password will occur if a password had been set during the Authorization process.
- A shorter expiration period than the default expiration period can be requested.
- It is recommended that the shortest practical expiration period be set wherever possible, in order to minimize the effect of "hung licenses." For example, if a laptop is to be used at an offsite 3-day event, consider assigning a 7-day offline period rather than a 30-day offline period when extracting the license for that event.

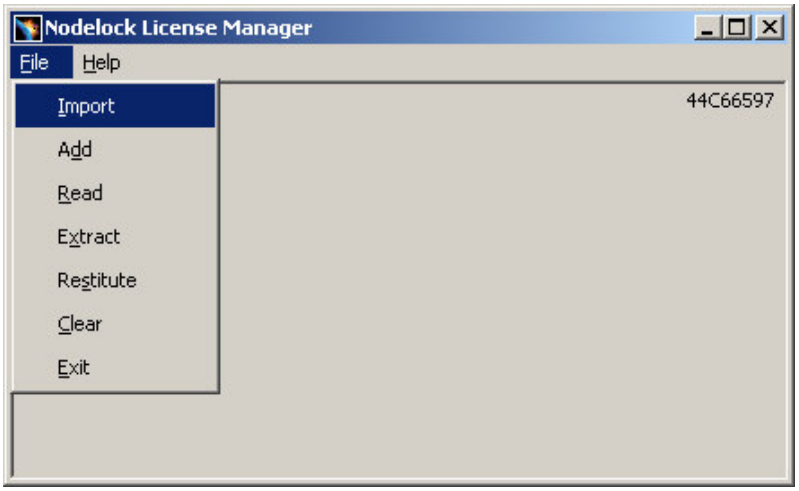


Figure 21 - Extract

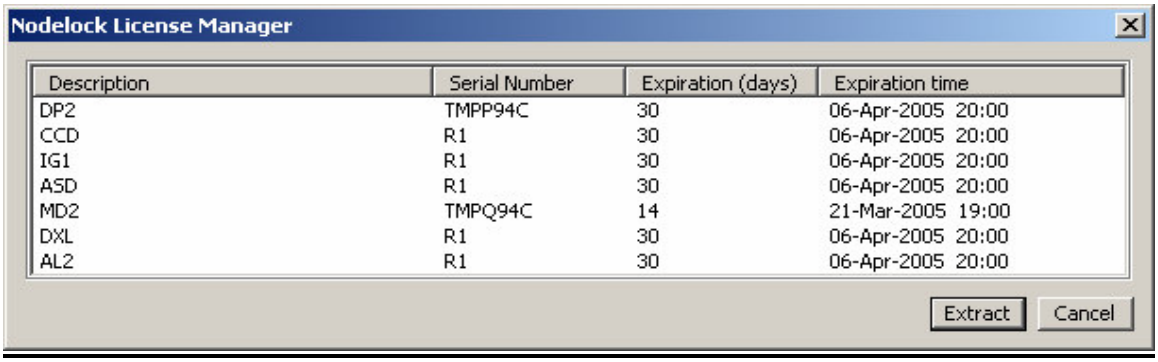


Figure 22 –List of Available Licenses

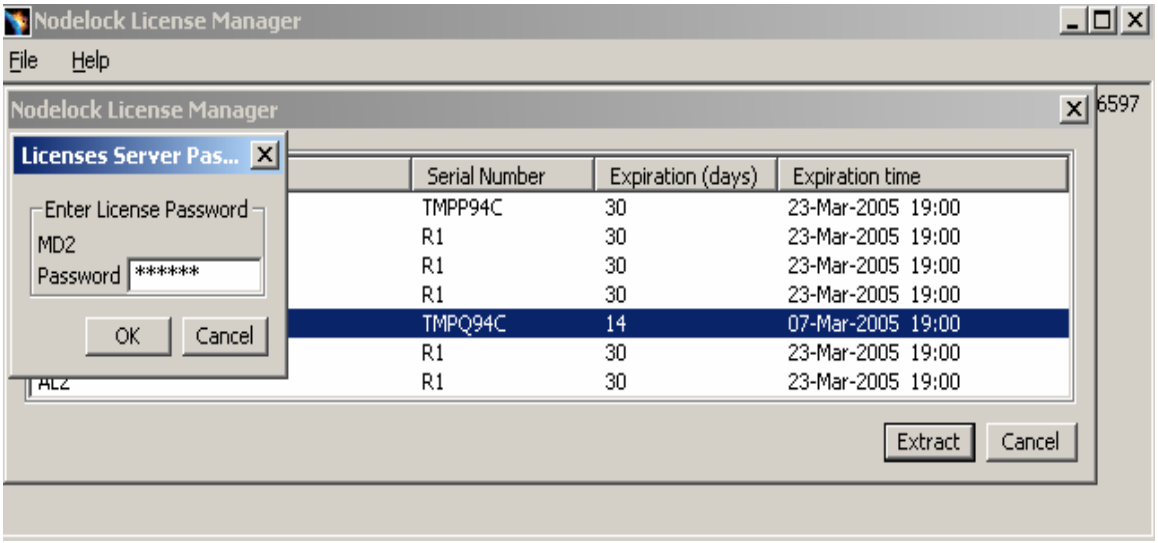


Figure 22 – License Selection and Password Entry Window

- After successfully extracting the license from the server, the client workstation can be disconnected from the network.
- The offline license will be found in the **nodelock** file on the client workstation, usable for the specified amount of days.
- On the **Tools/Options/General/Licensing** tab, the offline license(s) will be shown in blue, and will be identified as local license(s) instead of server license(s).
- The license(s) can be returned to the license server before the expiration date occurs, by connecting the client workstation to the network, and using the **File/Restitute** commands in the CATIA V5 **Nodelock Key Management** tool.
- Offline licenses that are not explicitly restituted will expire at the end of the checkout period, and will then automatically become available for use on the license server.

Conclusion

The ability to set up a stable licensing environment is necessary, but the process is sometimes very confusing. This Cookbook document was written as a desktop reference assistant. It has been proven to be a useful tool with the implementation of CATIA V5 licenses, including nodelocked, concurrent, and concurrent-offline.

Author

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