CATIA V5 Student Edition

User Guide

3DEXPERIENCE®

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Written by: Hervé FOUCHER

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1. Notice

This guide has been written by the Dassault Systèmes Education Department to help students order and install **CATIA Student Edition**.

It not only proposes step by step instructions but also includes frequently asked questions and troubleshooting sections inspired by the CATIA Student Edition online community (see below). References to community questions and posts are shown in grey.

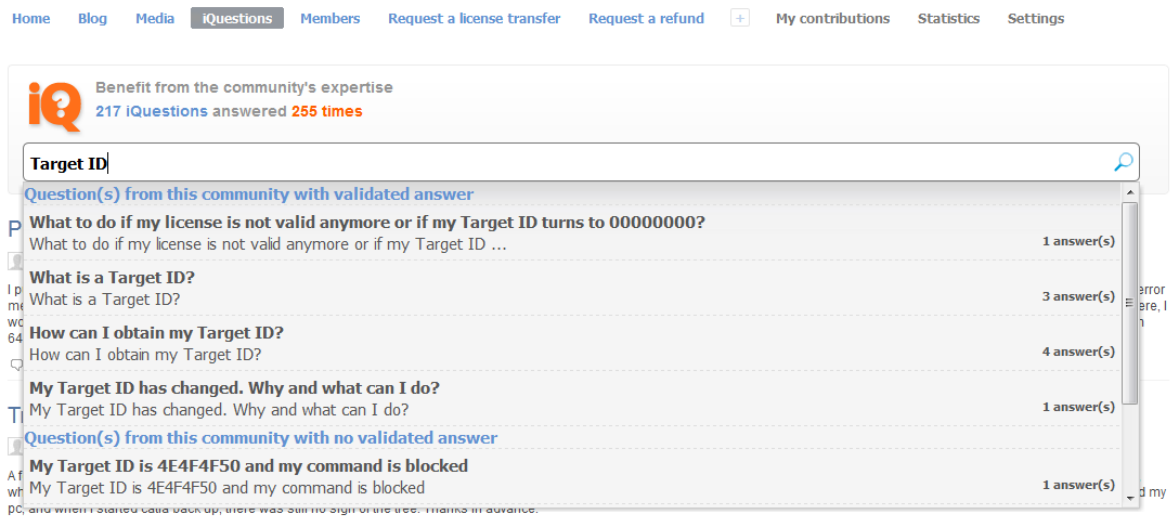
This guide MUST NOT be used by commercial customers, should they be academic institutions of industrial customers.

2. Support

Support is limited to the purchase and installation phases. Should you have any question, please use the CATIA Student Edition support community at:

https://swym.3ds.com/#community:514

Answers to frequently asked questions can be found under the iQuestion tab. You may check the FAQ by entering a few words in the text field:



Should you want to ask a question, press the "*Ask an iQuestion*" button on the right hand side.

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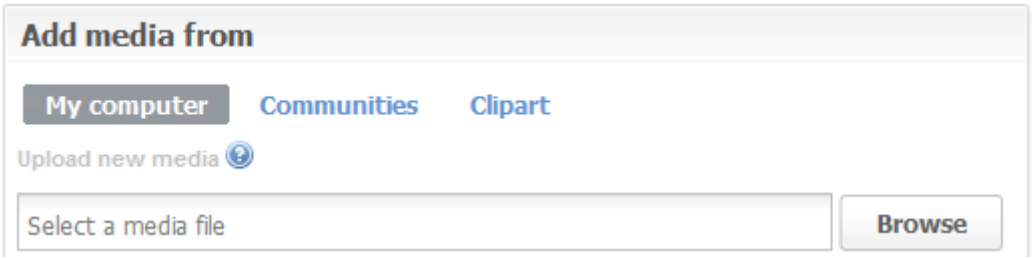
Please provide us with as many details as possible to help us answer your question as rapidly as possible. Screenshots are extremely helpful for us. You may attach screen captures by using the “Add media from” panel on the right:



3. Differences between CATIA V5 Student Edition and the "commercial" version

There is no major difference between **CATIA V5 Student Edition** and its corresponding commercial license. From a capacity point of view, they are identical but produced parts and products are watermarked, so they cannot be used with a commercial license.

3.1. Included Workbenches

CATIA Student Edition isn’t an all-in-one version. It includes a set of mechanical design-oriented workbenches:

- 3 Axis Surface Machining 2 (SMG) -- Easily defines 3-axis milling and drilling operations.
- Part Design (PDG) –Helps to design complex parts with highly productive and robust modeling features in an intuitive environment.
- Assembly Design 2 (ASD) -- Easily defines mechanical assembly constraints automatically positions parts and checks assembly consistency
- Generative Drafting 2 (GDR) --Generates drawings from 3D parts and assembly designs with assistance to manage complex schema.
- Interactive Drafting 1 (ID1) -- Addresses 2D design drawing production requirement
- Functional Molded Part (FMP) – Is a new generation product for designing cast, molded and forged parts and related tooling with unmatched productivity and flexibility.
- Structure Design 1 (SR1) –Helps to rapidly design structures using catalogues of standard or custom sections. SR1 enables to simply and quickly creates linear, curved structures, and plates, using standard or user-defined sections. Taking advantage of an optimized user interface, the user can easily create and modify structures thanks to fully associative design in context capability.

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- Sheetmetal Design (SMD) – Helps to design sheet metal parts in a very intuitive and productive environment.
- Real Time Rendering 2 (RTR) --Enables designers to interactively create realistic and dynamic renderings and animations in real-time, by extensively using all the hardware features available.
- Generative Shape Design (GSD) -- Helps to design advanced shapes that are based on a combination of wireframe and extensive multiple surfaces. It includes high-level features with full specification capture and reuse.
- Imagine and Shape (IMA) -- Enables designers and engineers to quickly, intuitively, transform a shape idea into a 3D geometric model. Probably one of students' favorite applications!
- DMU Kinematics Simulator (KIN) -- Defines, simulates, and analyzes mechanisms for digital mock-ups of all sizes.
- Photo Studio (PHS) -- Generates high quality photo-realistic images and movies of a digital mock-up, by using a powerful ray-tracing engine.
- Photo Studio Optimizer (PHO) -- Is an essential complement to Photo Studio for users who want to create images and movies that will match reality. PSO extends PHS's rendering capabilities with such advanced technologies as global illumination and caustics.
- Freestyle Sketch Tracer (FSK) -- Allows the integration of stylists' work (such as 2D painting) into a 3D format, as the basis for 3D virtual mock-ups.
- Freestyle Shaper 2 (FSS) -- Provides powerful easy-to-use surface-based tools to help designers create styled shapes, enabling even casual users to easily smooth and trim curves and surfaces.

And also...

DMU Space Analysis 2 (SPA), Plant Layout 1 (PLO), Generative Part Structural Analysis 2 (GPS), NC Manufacturing Review 2 (NCG), Prismatic Machining 2 (PMG), Lathe Machining 2 (LMG), STL Rapid Prototyping (TL1), Object Manager 2 (COM), Instant Collaborative Design 1 (CD1), IGES Interface 1 (IG1).

https://swym.3ds.com/#community:514/iquestions:11835

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3.2. End User Agreement

The Student License Agreement sets some usages for CATIA Student Edition. In particular:

- You must install the software on a computer owned or/and leased by you [...] identified in the order, placed by you by type, serial number, target ID and installation address. (article 1)
- [You must be] a natural person (i) regularly enrolled as a student in an academic program, (ii) holding a valid registration receipt for the current semester or a valid letter of enrollment on school letterhead for the current year (iii) who is registered on 3DS Academy. (article 1)
- CATIA V5 may only be operated by you, on your personal computer and only for your individual, personal and non-commercial learning, academic and/or research purposes, excluding any other purposes such as but without limitation any direct or indirect industrial, commercial and/or business purposes. (article 2)

4. Prerequisites

CATIA V5 Student Edition exclusively runs on Microsoft Windows. Some users reported it also works on MacOS but please note we don’t provide support in such case.

A network adapter, preferably an Ethernet one, is required as well as a recent 3D graphic card.

Dassault Systèmes provides a list of officially certified configurations but they are unaffordable for students:

http://www.3ds.com/support/certified-hardware/windows-certified-workstations

However, CATIA Student Edition is known for working well with most recent and decent PCs.

Notes:

- CATIA Student Edition isn't certified on Windows 7 32-bit.
- CATIA Student Edition isn't certified on Windows 8 but some students reported it works well.
- ATI Radeon graphic cards are not supported. CATIA Student Edition will not work with this GPU.

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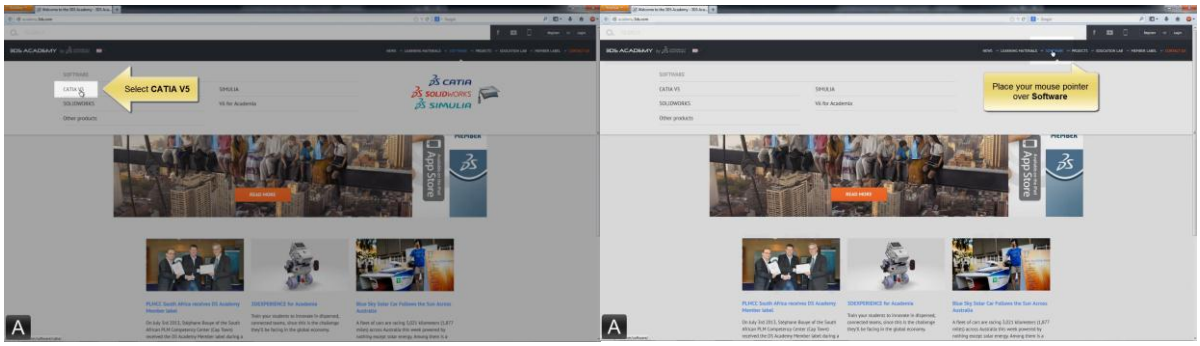
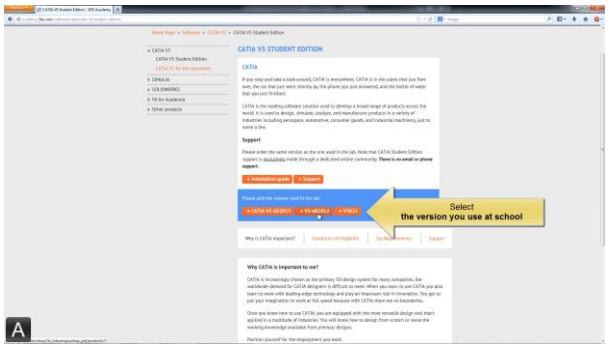
5. Application

To apply, please follow the steps shown on the following video:

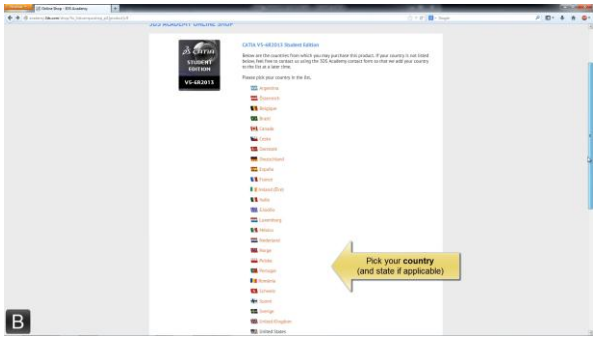
http://youtu.be/yaE-cIdkXl4U

(A) Browse the 3DS Academy website (academy.3ds.com)
Place your mouse pointer over software > Select CATIA V5 > Pick CATIA V5 Student Edition > Select the version you use at school





(B) Select your country (and state when applicable)



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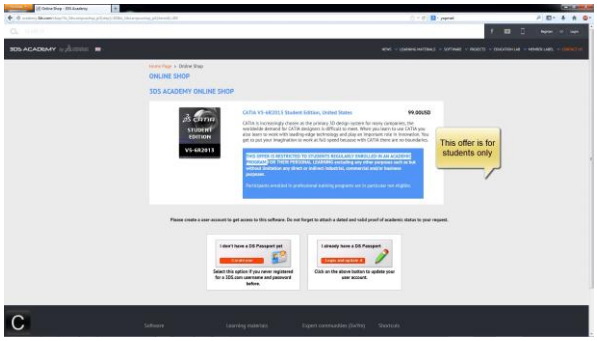
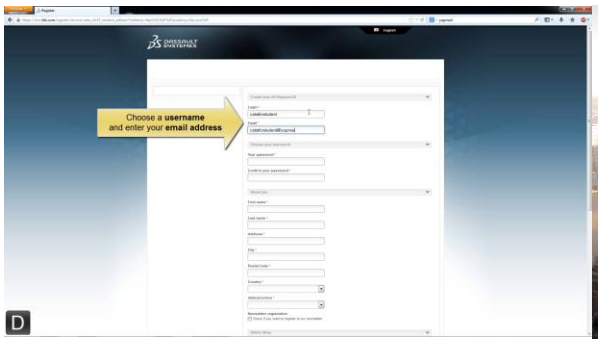
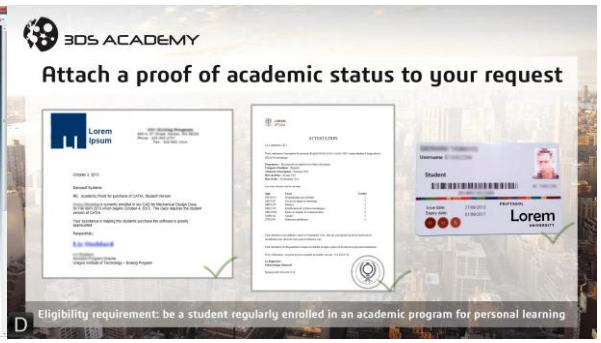
(C) Carefully read the eligibility requirements (this offer is for students only)



(D) Create a user account
Choose a username and enter your email address > Choose a password and confirm it > Enter your personal details > Provide details about your school/university > Attach a proof of academic status (a letter on school letterhead, a dated record showing student name or a valid student ID card) > Enter the verification text shown in the image > Submit > Your application is completed.





(E) Check your e-mail
Check your mailbox, you will receive 2 e-mails from us > one email explains that your request is being reviewed; the other indicates that you also automatically apply for the “3DS Academy” website.

If you need more help, don’t hesitate to ask your question on our SwYm’ Community.

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5.1. Frequently Asked Questions

5.1.1. In which countries is CATIA V5 Student Edition available?

CATIA V5 Student Edition is only available for download in the following countries for technical and legal reasons. We may add new countries to the list.

Argentina, Austria, Belgium, Brazil, Canada, Czech Republic, Denmark, Finland, France, Germany, Greece, Ireland, Italy, Luxembourg, Mexico, Netherlands, Norway, Poland, Portugal, Romania, Spain, Sweden, Switzerland, UK, USA

https://swym.3ds.com/#community:514/iquestions:11790

5.1.2. What are the conditions for eligibility?

To purchase either CATIA Student Edition or 3DVIA Virtools Student Edition, you must be a student.

By student, we mean: an individual, REGULARLY ENROLLED IN AN ACADEMIC PROGRAM FOR HIS/HER PERSONAL LEARNING excluding any other purposes such as but without limitation any direct or indirect industrial, commercial and/or business purposes.

Participants enrolled in professional training programs are in particular not eligible.

https://swym.3ds.com/#community:514/iquestions:11791

5.1.3. How long does it take to get approved?

Requests are reviewed from Monday to Friday (10am-5pm) in *Paris, France* for European students and in *Boston, MA* for American students.

Expect from 1 to 5 business days to get approved by our teams. To save time and to avoid back and forth emails, be sure to provide us with a valid proof of academic status (see paragraph 5.1.4).

https://swym.3ds.com/#community:514/iquestions:11860

5.1.4. Which proofs of academic status are requested to apply for CATIA Student Edition?

Acceptable forms of academic IDs are the following (only one is required):

- Scan of a **dated** and valid student ID
- Scan of a registration receipt for the current semester/year.
- Scan of a **dated** letter of enrollment on school letterhead for the current semester/year.

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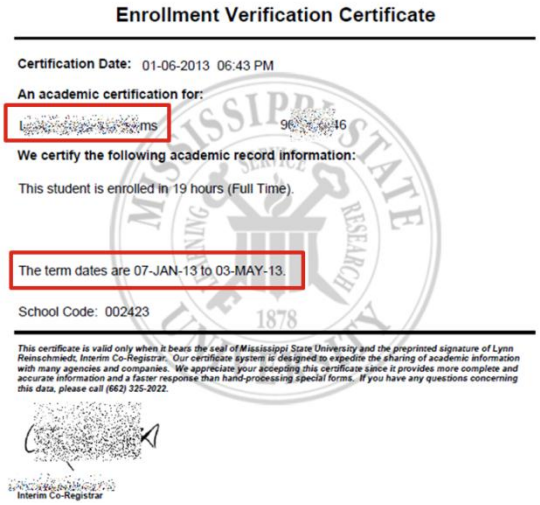
Examples:



Enrollment Verification Certificate

Certification Date: 01-06-2013 06:43 PM

An academic certification for:

We certify the following academic record information:

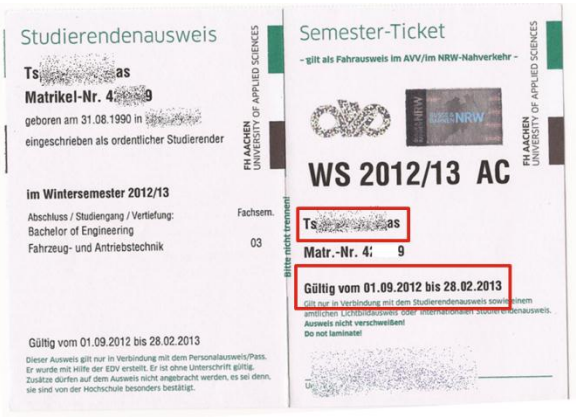
This student is enrolled in 19 hours (Full Time).

The term dates are 07-JAN-13 to 03-MAY-13.

School Code: 002423

This certificate is valid only when it bears the seal of Mississippi State University and the preprinted signature of Lynn Reinschmiedt, Interim Co-Registrar. Our certificate system is designed to expedite the sharing of academic information with many agencies and companies. We appreciate your accepting this certificate since it provides more complete and accurate information and a faster response than hand-processing special forms. If you have any questions concerning this data, please call (662) 325-2022.

Interim Co-Registrar



Studierendenausweis

Matrikel-Nr. 4 9

geboren am 31.08.1990 in

eingeschrieben als ordentlicher Studierender

im Wintersemester 2012/13

Abschluss / Studiengang / Vertiefung:
Bachelor of Engineering
Fahrzeug- und Antriebstechnik

Fachsem. 03

Gültig vom 01.09.2012 bis 28.02.2013

Dieser Ausweis gilt nur in Verbindung mit dem Personalausweis/Pass. Er wurde mit Hilfe der EDV erstellt. Er ist ohne Unterschrift gültig. Zusätze dürfen auf dem Ausweis nicht angebracht werden, es sei denn, sie sind von der Hochschule besonders bestätigt.

FH AACHEN UNIVERSITY OF APPLIED SCIENCES

Semester-Ticket

- gilt als Fahrausweis im AVV/im NRW-Nahverkehr -

WS 2012/13 AC

Matr.-Nr. 4 9

Gültig vom 01.09.2012 bis 28.02.2013

Gilt nur in Verbindung mit dem Studierendenausweis sowie einem amtlichen Lichtbildausweis oder internationalen Studierendenausweis.
Ausweis nicht verschweißen!
Do not laminate!

Bitte nicht trennen!

https://swym.3ds.com/#community:514/iquestions:11792

5.1.5. What is the license duration?

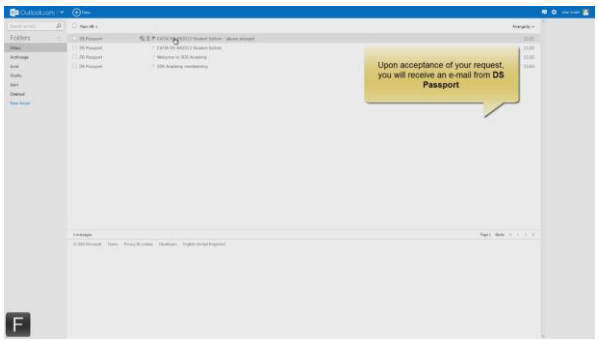
The license will expire one year after the payment.

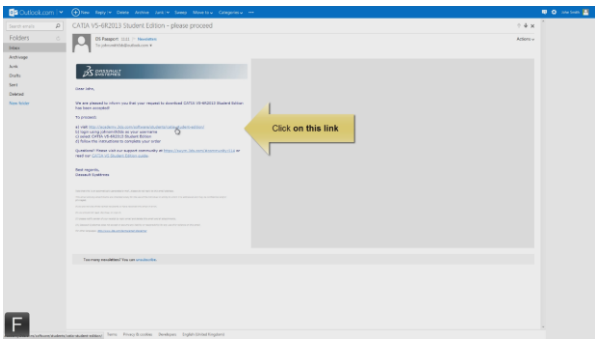
6. How to order

To order, please follow the steps shown on the following video:

http://youtu.be/OUgP94TS-Nk

(F) Check your emails and follow the links





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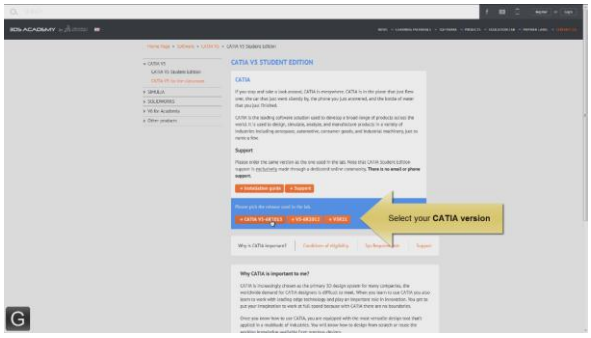
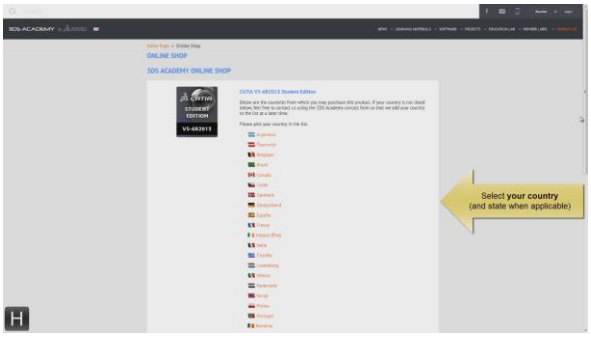
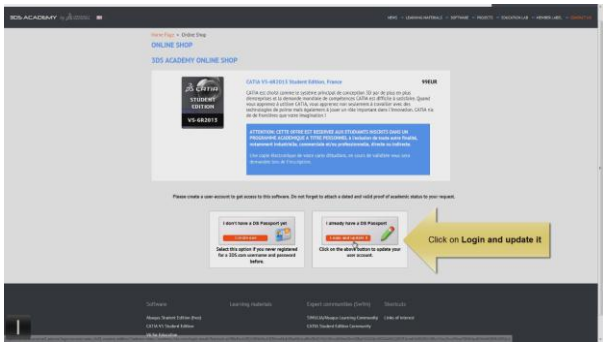
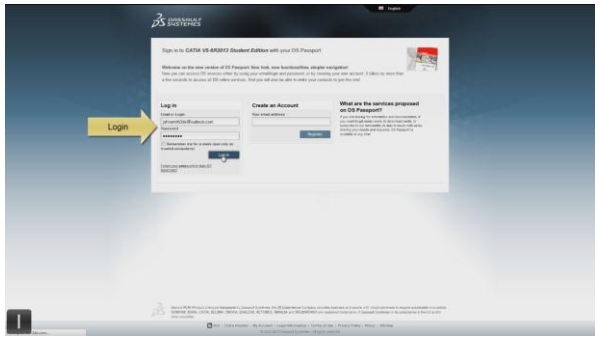
(G) Select your CATIA version (H) Select your country (and state when applicable)



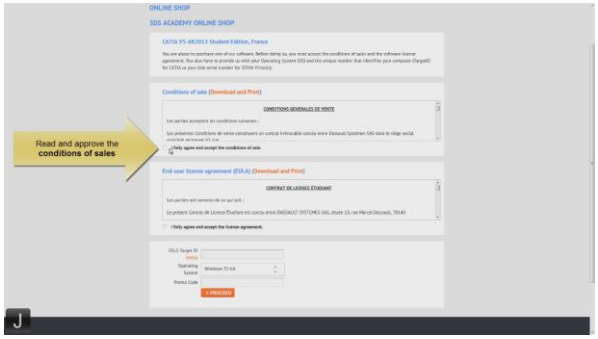


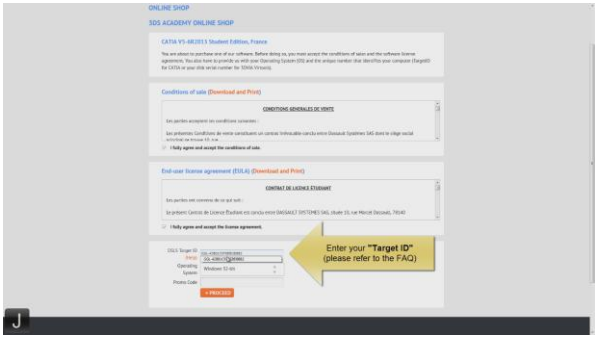
(I) Login (Click on '*Login and update it'* > Login)



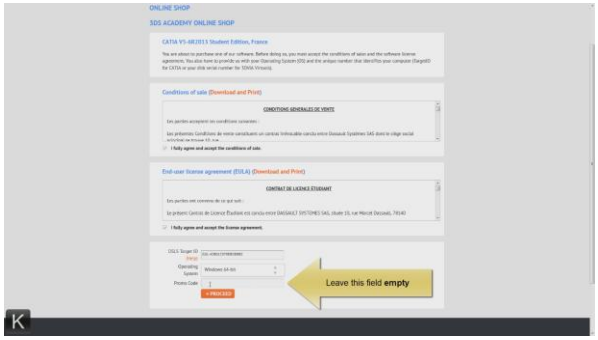


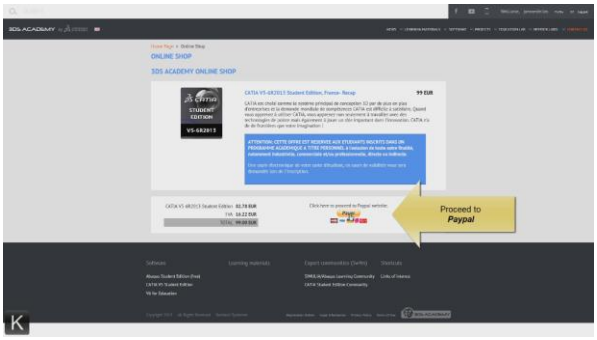
(J) Read and approve the conditions (conditions of sales & license agreement), enter your Target ID and select your operating system





(K) Leave the promo code field empty and proceed to Paypal





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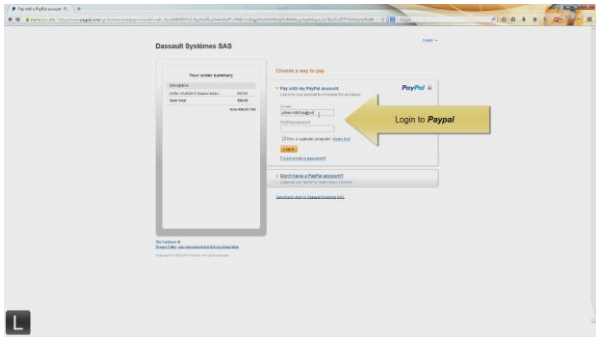
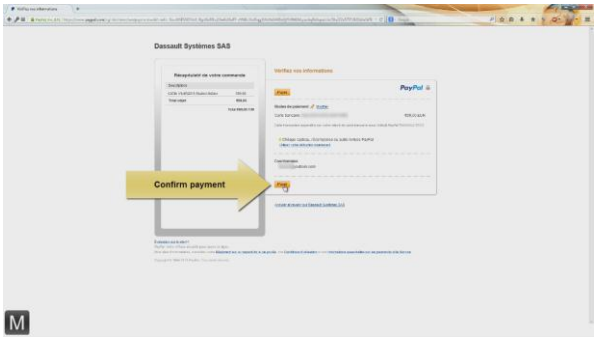
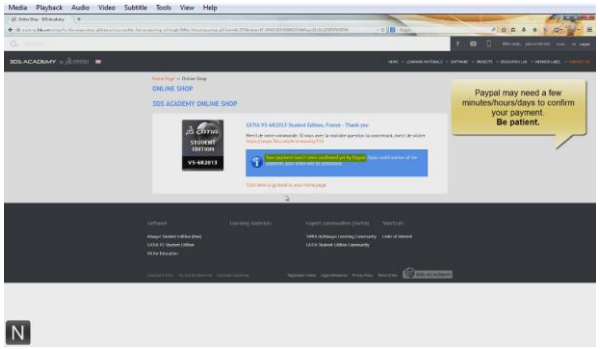
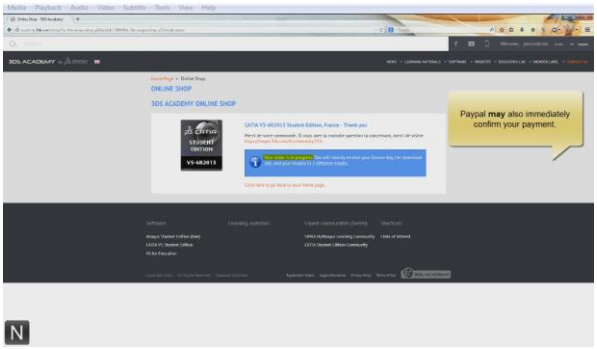
(L) Login to Paypal, (M) Confirm payment, (N) Wait for the confirmation of your payment

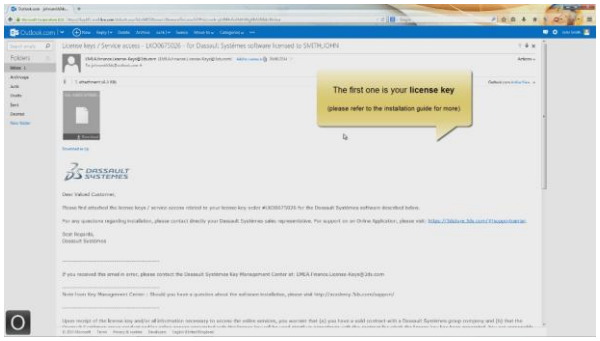


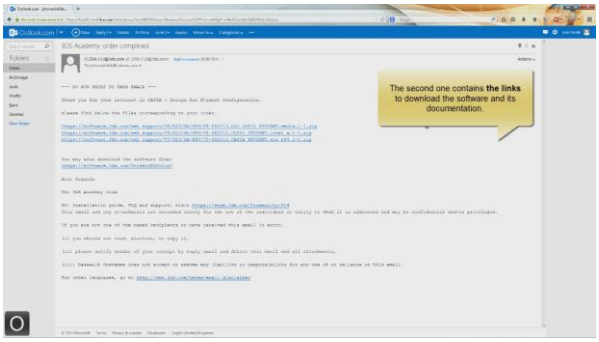




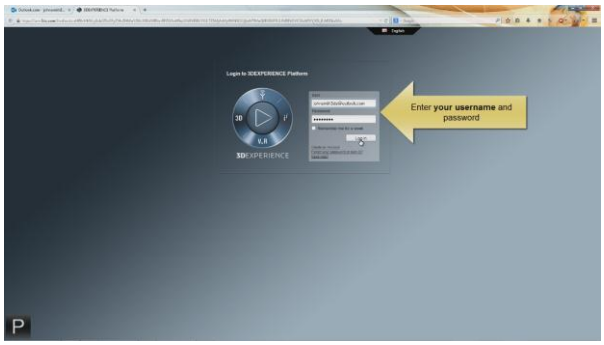


(O) Check your emails again: the first is your license key; the second contains the links to download the software and its documentation





(P) After clicking on a link, login and download the files
(Q) You can also directly download the software on software.3ds.com/StudentEdition



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6.1. Target ID generation

At step J of the above video, you will be asked to provide a Target ID. This is the trickiest part of the CATIA installation.

6.1.1. What is a Target ID?

The "Target ID" is a code calculated on your computer. It identifies your computer and it is used to generate your license key.

The calculation of the Target ID has to be performed on the computer where CATIA Student Edition will be used.

https://swym.3ds.com/#community:514/iquestions:11812

6.1.2. Target ID Generator

To determine your Target ID, you will use the "Target ID GEneratoR for students" (also known as “TIGER”).

The Target ID Generator aims at making students life easier. It is not officially supported by Dassault Systèmes and must NOT be used by commercial customers.

This small application automatically runs complex command lines to make sure the Target ID you'll get will be valid and won't ever change. Also, it will set one Windows environment variable.

https://swym.3ds.com/#post:13884

6.1.3. Download the generator

Download the **three** following files in a temporary directory (your Windows desktop for example of C:\temp):

- http://academy.3ds.com/fileadmin/files/shop/i4target.exe
- http://academy.3ds.com/fileadmin/files/shop/DSLicTarget.exe
- http://academy.3ds.com/fileadmin/files/shop/tiger.exe

6.1.4. Run the generator

Right-click on “targeted.exe” and select “Run as administrator”:

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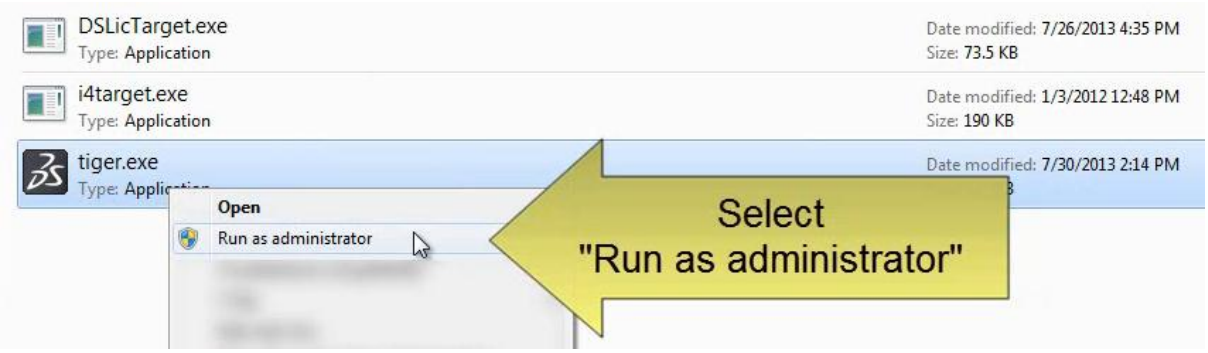
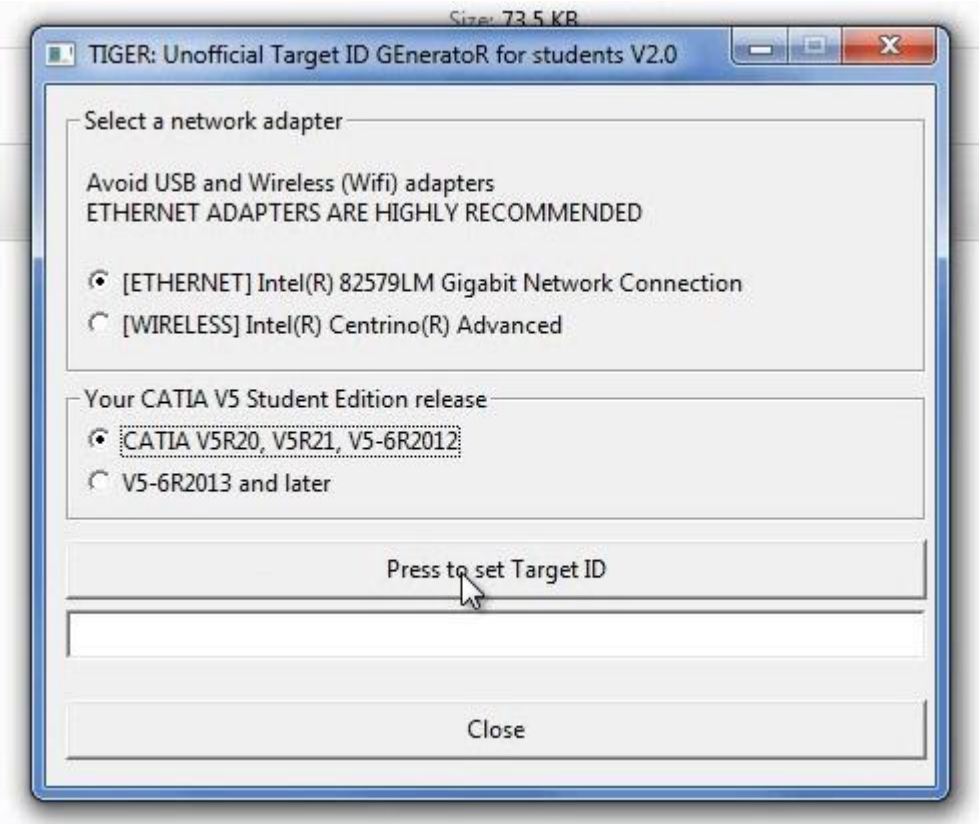
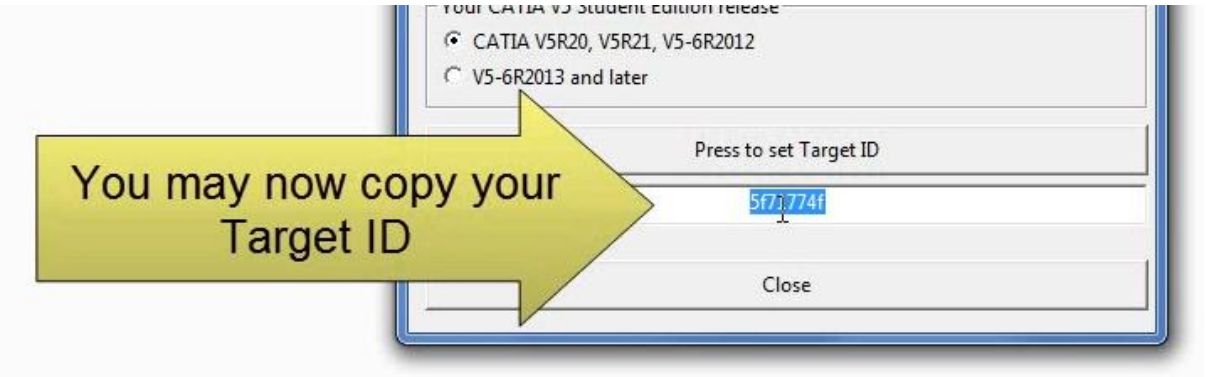


Select your **Ethernet** adapter and your CATIA Student Edition release:



Press the button located under the adapter list. Your Target ID will appear in the text field.



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You may now copy it and paste it in the online order form. The Target ID looks like a 8-character or 20-character code depending on your CATIA V5 release (for example: 21af6a85 or DMX-430B10DEF171774F).

See also the complete video tutorial at http://youtu.be/jn3T0geVY9U

6.2. Wait a few minutes

Once your payment is completed on Paypal, it will take a few minutes (between 5 and 30 minutes) for our servers to process it. Please be patient and do not order again. Should you need assistance, please open an iQuestion.

6.3. Frequently Asked Questions

6.3.1. What is a promo code?

At step **J**, you are asked for a promo code.

A promo code is used to apply discount rates during special marketing operations (we may offer free licenses during events for example). If you didn't receive a code from us, leave the field empty while ordering.

https://swym.3ds.com/#community:514/iquestions:11824

6.3.2. Which payment method can I use to purchase CATIA Student Edition?

We use Paypal to process student edition orders. Please refer to their website to see which payment methods are available in your country.

https://swym.3ds.com/#community:514/iquestions:11803

6.3.3. Can I pay by credit card without opening a Paypal account?

Yes. During the order phase, once on the Paypal website:

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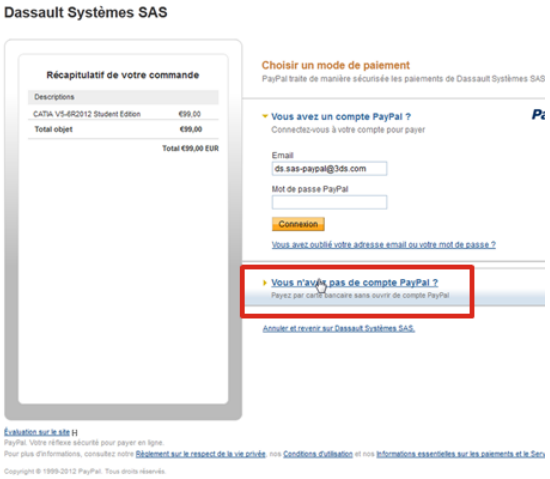
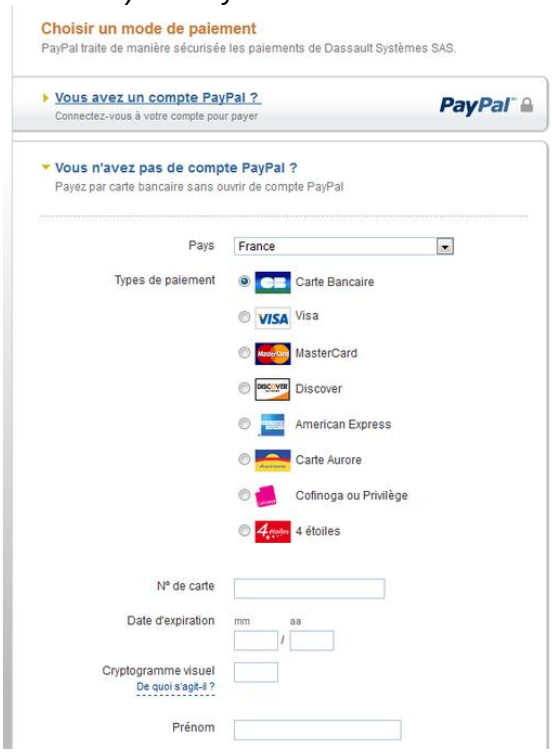
a) Click "I don't have a Paypal user account”



b) Enter your card number



https://swym.3ds.com/#community:514/iquestions:13567

6.3.4. How to renew a license key? Do I need to apply again, do I need to pay again?

If you must acquire a new license key. There are two cases:

- You want to renew the license for the same CATIA release (ex: V5R20)
  - No need to request access again. A new payment will be sufficient. See paragraph 6.
- You want to order a license for another CATIA release (ex: V5R21)
  - You need to apply for the new release. STEP C in the video (http://www.youtube.com/watch?v=epo_AT2pQFQ), please select "I already have a DS Passport" and use your username and password to login. While filling out the online form, don't forget to update your proof of academic status as the document you uploaded one year ago may have expired.

6.3.5. I didn’t receive the license key by email

You should receive your license key in less than 30 minutes. The message contains a “.LIC” file attached. It is sometimes considered as junk mail by Outlook, Gmail, Yahoo, Hotmail, etc. Please double-check in the corresponding folder. For example, should you use Gmail, the “SPAM” folder is accessible from the left menu:

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Still can't find the message? Open an iQuestion on our community website.

7. Download

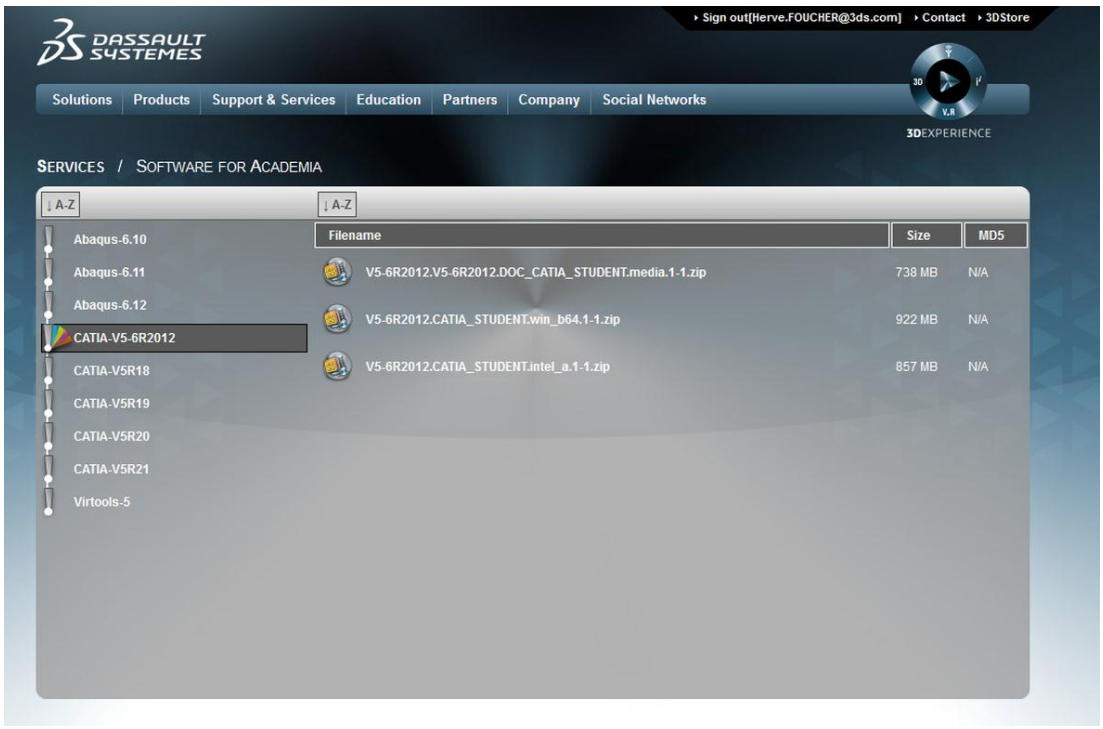
When your order will be completed, you will receive 3 links by emails.

- The file ending in DOC_CATIA_STUDENT.media.1-1.zip is the CATIA HTML documentation
- The file ending in CATIA_STUDENT.intel_a.1-1.zip is the CATIA Student Edition 32-bit installer
- The file ending in CATIA_STUDENT.win_b64.1-1.zip is the CATIA Student Edition 64-bit installer

Download the installer which corresponds to your operating system.

If you ever delete the email message by mistake, you may visit https://software.3ds.com/StudentEdition/ (see screenshot below)

https://swym.3ds.com/#community:514/iquestions:11919



7.1. Frequently Asked Questions

7.1.1. How to determine if my operating system is 32 or 64-bit?

Please read the corresponding Microsoft knowledge base article at http://support.microsoft.com/kb/827218

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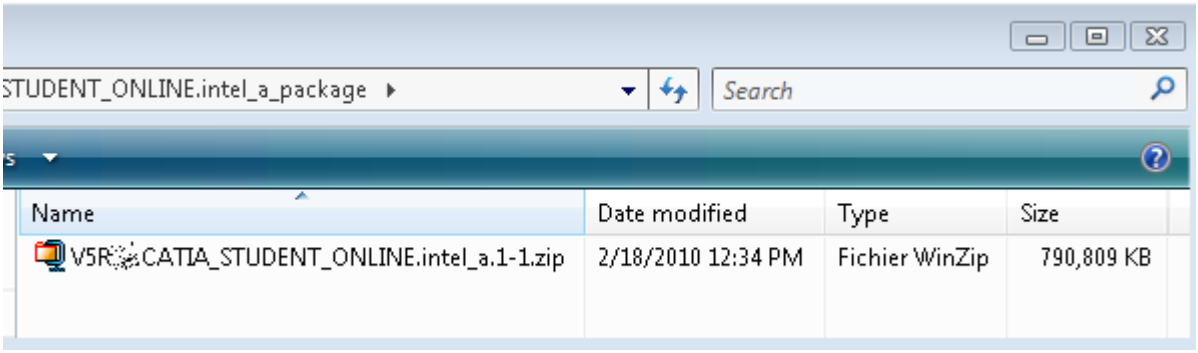
8. Setup

8.1. Download and unzip the zip files

Download the zip file in a temporary directory (C:\temp in our example).



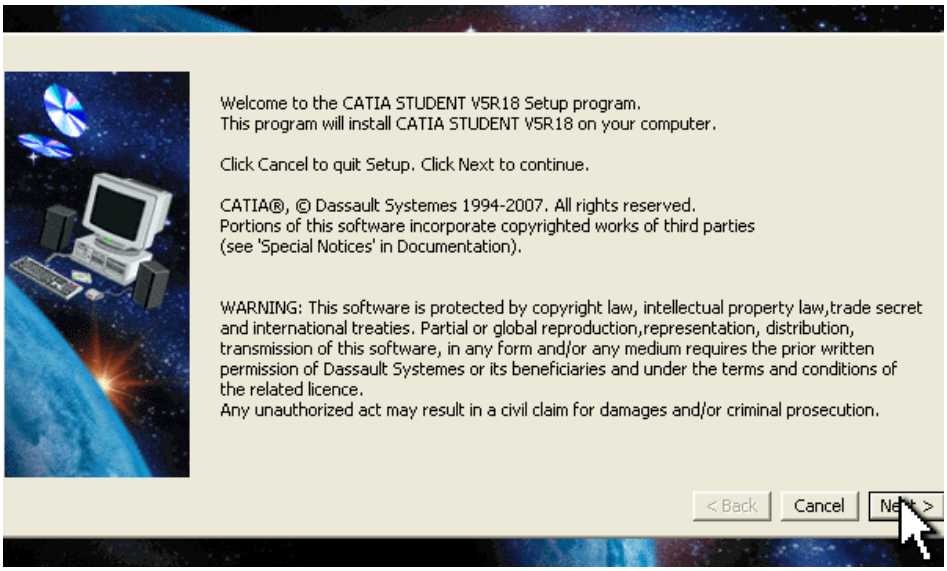
NB: CATIA V5 Student Edition install package is composed of only one ZIP file. The Documentation install package must be used separately.

Extract the zip file in the current folder. Then, double click:

```
CATIA_STUDENT.intel_a\1\setup.exe
```

8.2. Welcome screen

Press "*Next*"



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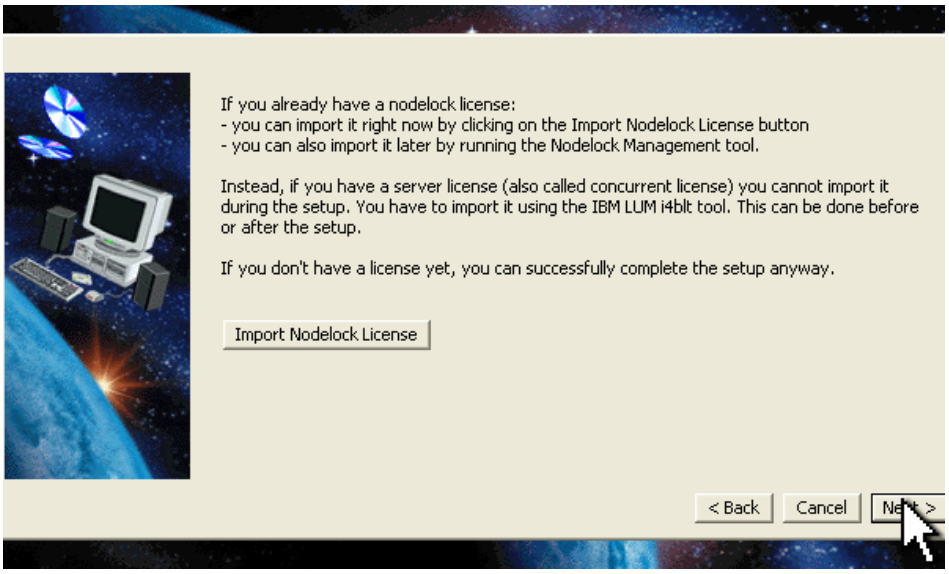
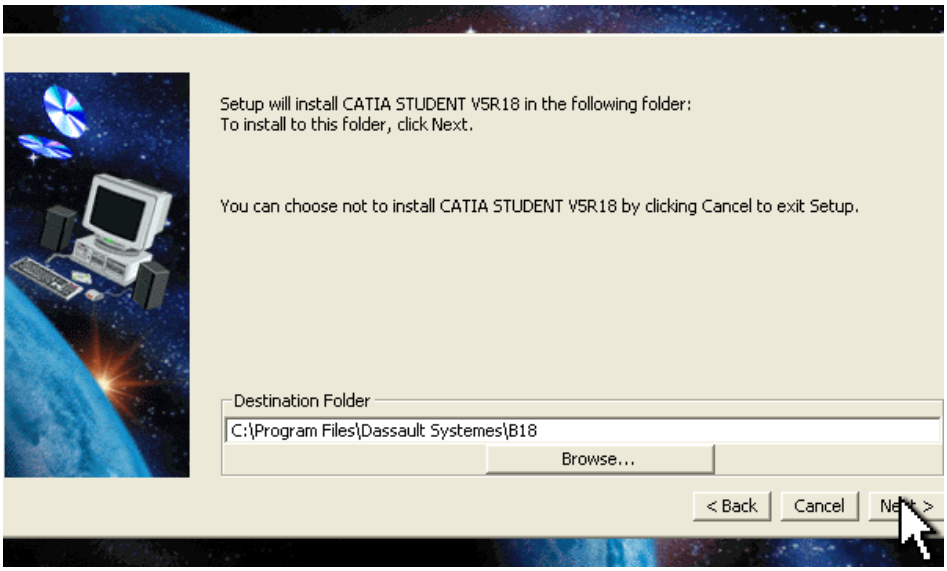
8.3. License

You will import the license key later on, using the Nodelock Management tool. For now, press *Next*



8.4. Installation Directory

Choose the directory where CATIA V5 data will be copied. Around 2Gb are necessary. We recommend using the default location. Press "*Next*".



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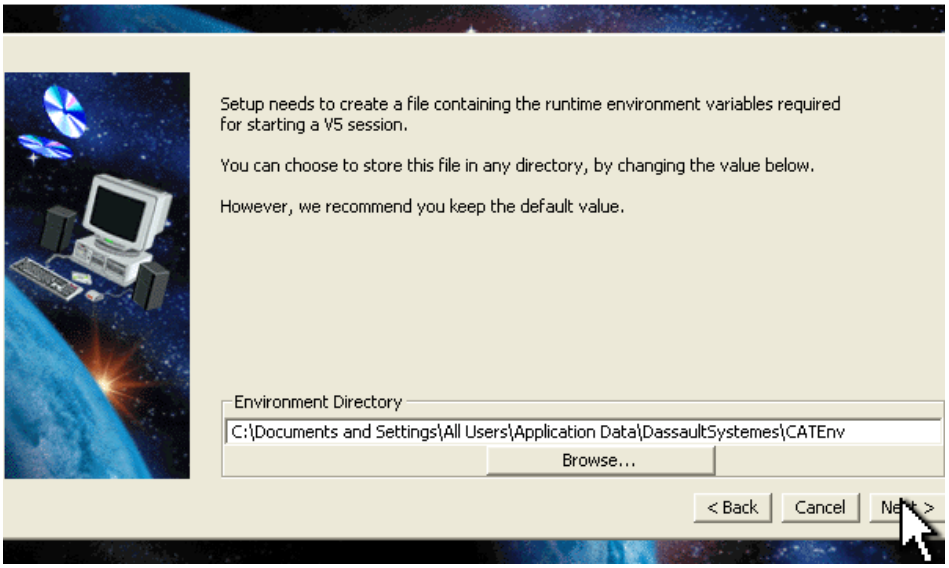
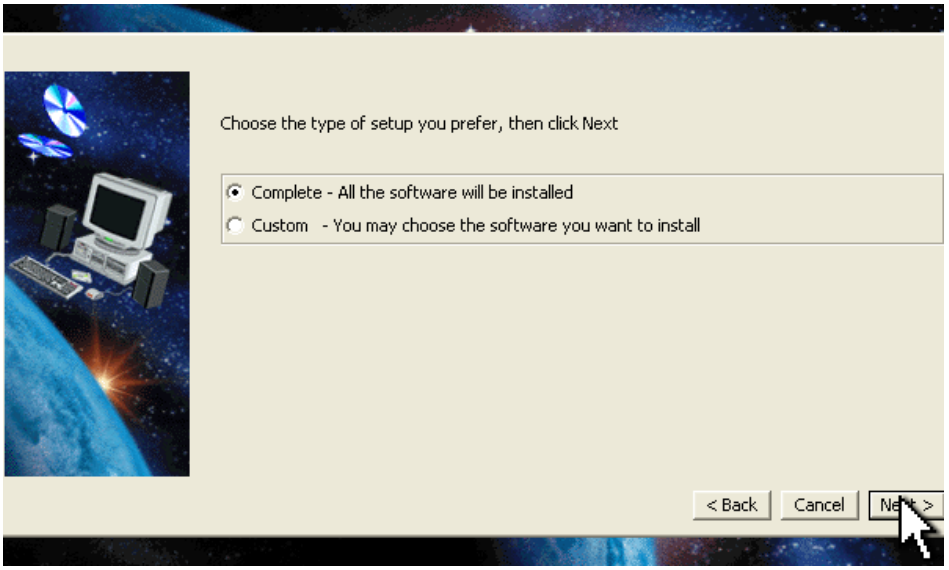
8.5. Environment

Setup needs to create a file containing the runtime environment variables required for starting a CATIA V5 session. We recommend you keep the default value. Press "*Next*".



8.6. Setup type

Pick "Complete" and press "Next".



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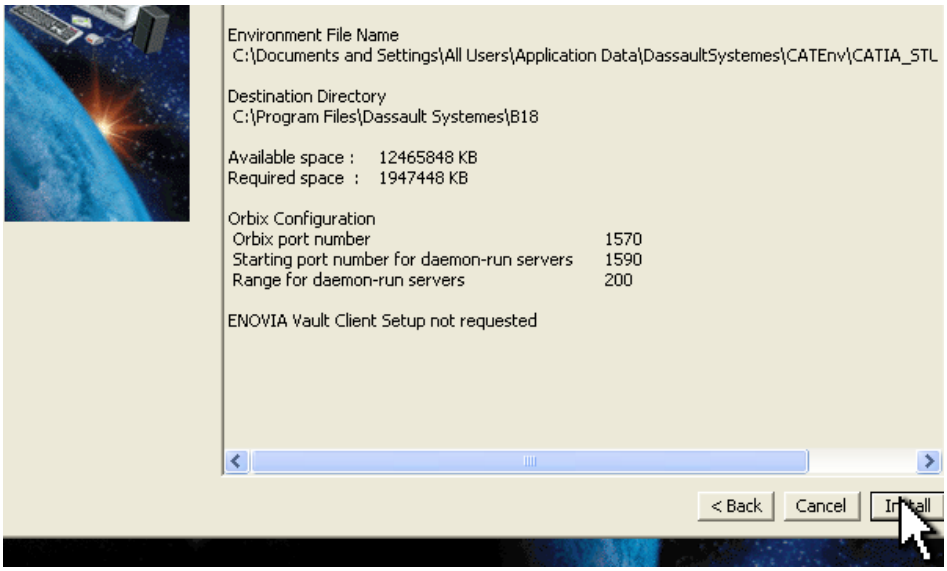
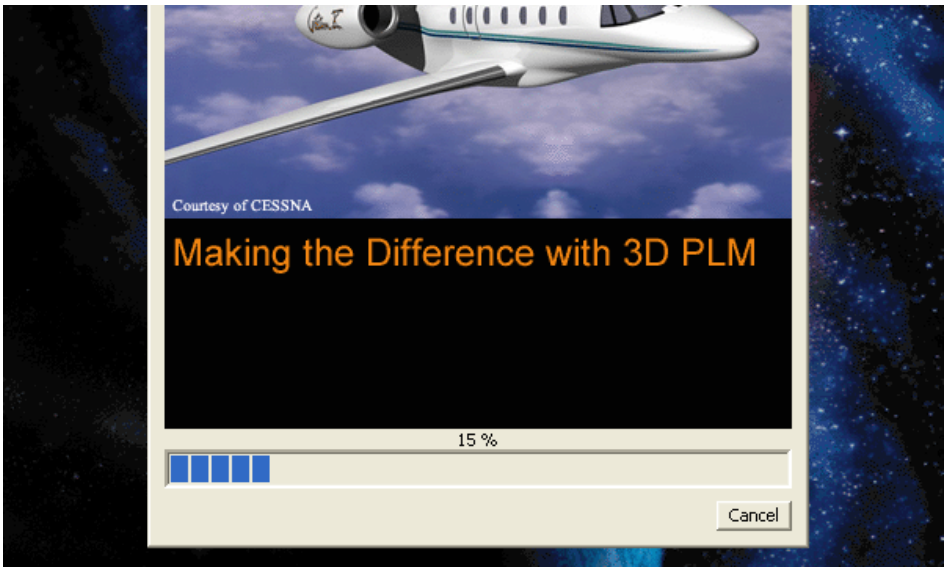
8.7. Press Next until you get a recap

This screen summarizes the different options that you selected. Press "*Next*" to start the installation.



8.8. Installation in progress

Wait until all the data is copied to your hard drive.



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8.9. Troubleshooting

8.9.1. Error: "setup Problem with VC8 Runtime. Please try to restart your computer or contact customer service"

This error message is generated immediately upon the completion of the Dassault Systemes Software Prerequisite x86 installation, at the beginning of the CATIA V5 client installation.

It is misleading: probably nothing is wrong with the C++ version installed on your computer. For example, Microsoft Visual C++ 2005 Redistributable Package (also known as “VC8”).

This error may be caused by a corrupted CATIA installation package, or a non-complete CATIA V5 or CATIA V6 code installation package. It will be generated if parts of the installation code are incomplete or became corrupted during the download or decompression.

To ensure that the installer is downloaded and managed properly and to avoid code corruption:

- Make sure that the ZIP file download is finished before unzipping (see table below)
- Uncompress it again using **7Zip**, **WinZip** or any efficient uncompression tool and try to run a new installation

CATIA version	File name	Expected file size
V5-R2014 32-bit	V5-6R2014.CATIA_STUDENT.intel_a.1-1.zip	863 MB
V5-R2014 64-bit	V5-6R2014.CATIA_STUDENT.win_b64.1-1.zip	930 MB
V5-R2013 32-bit	V5-6R2013.CATIA_STUDENT.intel_a.1-1.zip	868 MB
V5-R2013 64-bit	V5-6R2013.CATIA_STUDENT.win_b64.1-1.zip	935 MB
V5-R2012 32-bit	V5-6R2012.CATIA_STUDENT.intel_a.2013W03.1-1.zip	856 MB
V5-R2012 64-bit	V5-6R2012.CATIA_STUDENT.win_b64.2013W03.1-1.zip	921 MB
V5R21 32-bit	V5R21.CATIA_STUDENT.intel_a.1-1.zip	847 MB
V5R21 64-bit	V5R21.CATIA_STUDENT.win_b64.1-1.zip	892 MB

https://swym.3ds.com/#community:514/iquestions:14689

9. LUM Licensing for CATIA V5R20, V5R21 and V5-6R2012 users

9.1. How to import the license key received by email

Save the .LIC file received by email in a temporary directory

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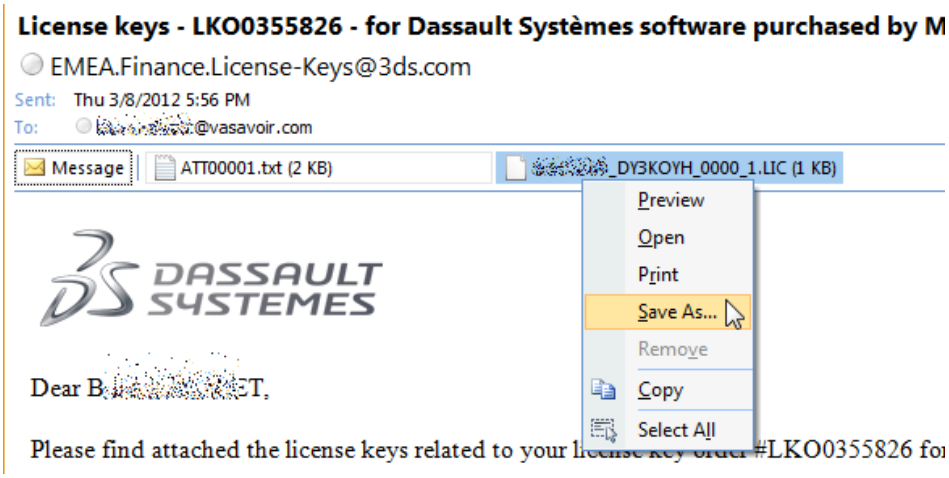
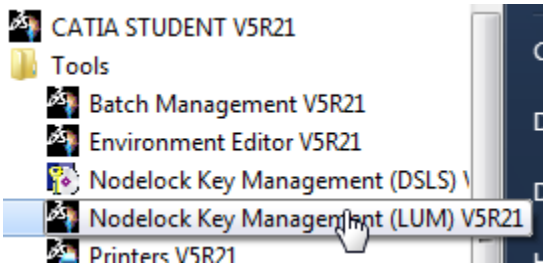
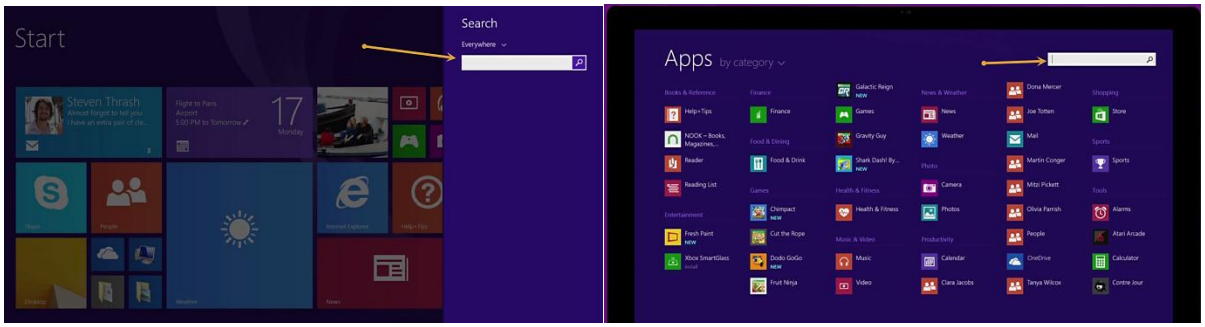


[Windows XP, Vista et 7] From the Windows start menu, select

```
Start > All Programs > CATIA STUDENT > Tools > Nodelock Key
Management (LUM) V5Rxx
```



[Windows 8] Use the search button (available in the “Charm Bar” or in the “Apps Menu”) and type “Nodelock Key Management” to find it



Use the menu to select:

```
File > Import
```

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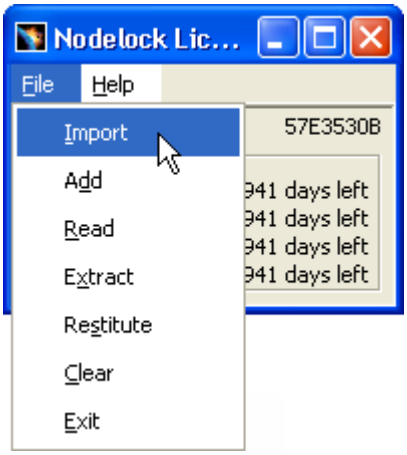
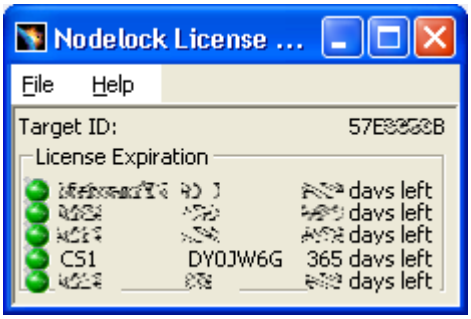


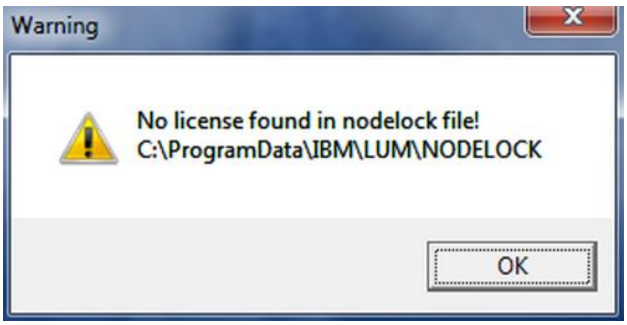
Pick the .LIC file you previously saved on your hard drive. Your CATIA Student Edition license (CS1) should appear in the list:



9.2. Troubleshooting

9.2.1. No license found in nodelock file

Some users get the following error message: "No license found in nodelock file! C:\Program Data\IBM\LUM\NODELOCK" when they run the LUM license manager:



It means that so far there is no license listed in the file named "NODELOCK". This is normal, as no license key has been imported until now.

https://swym.3ds.com/#community:514/iquestions:14291

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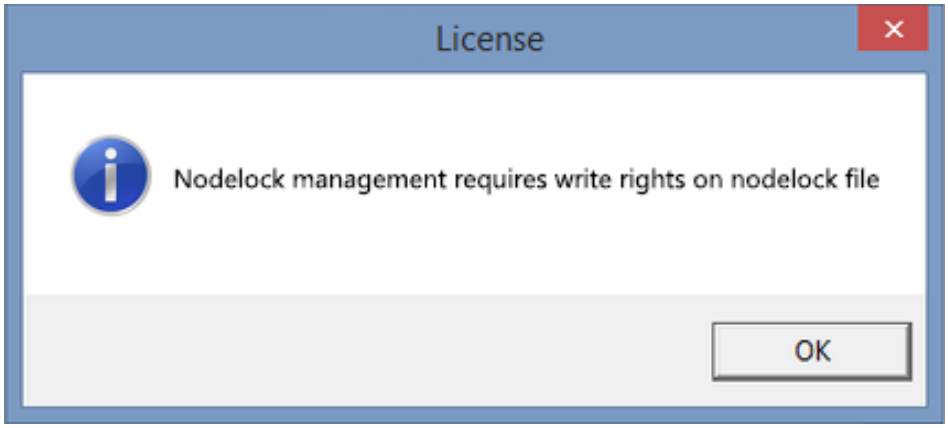
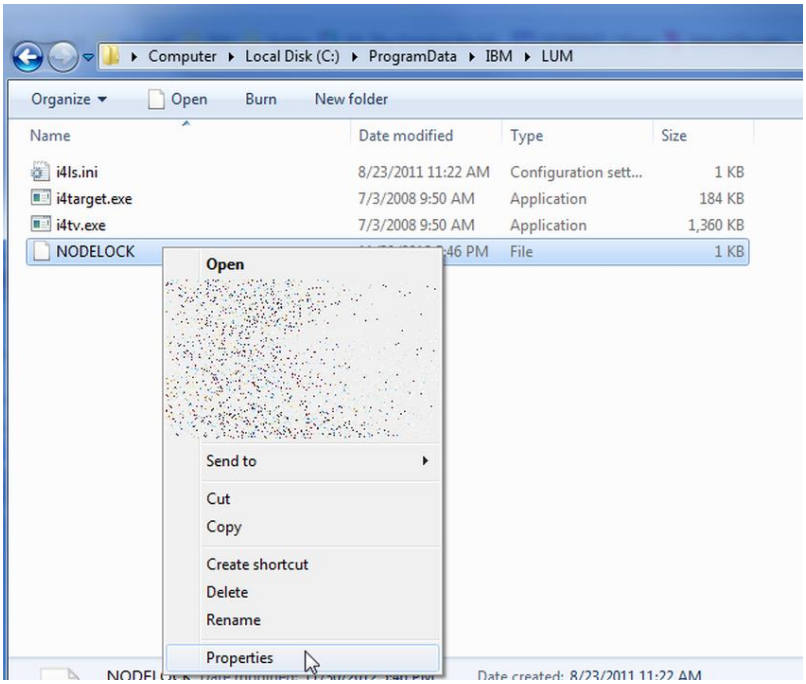
9.2.2. Nodelock management requires write rights on nodelock file



To fix this issue:

a) Either browse C:\ProgramData\IBM\LUM and right click on the NODELOCK file. Select "Properties" as shown below:



Then, open the "Security" tab, then "Edit" and make sure your Windows user (or even better: "Everyone") gets "full control" rights:

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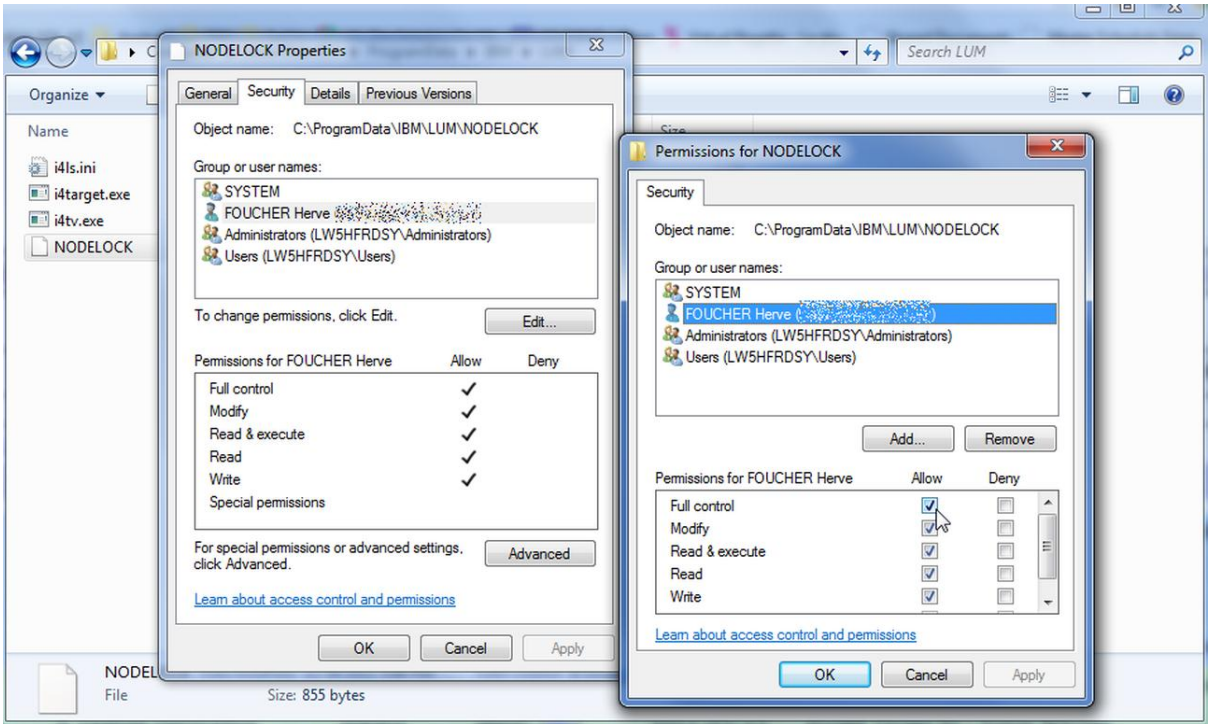
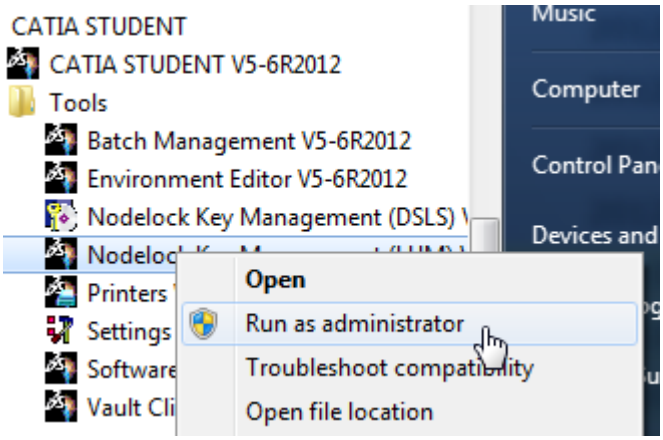


Or b) run the Nodelock Management tool as an administrator (right click on the menu entry as shown below)



https://swym.3ds.com/#community:514/iquestions:14291

9.2.3. Invalid Timestamp Error

You may get an "Invalid Timestamp" error when trying to import your .LIC file.

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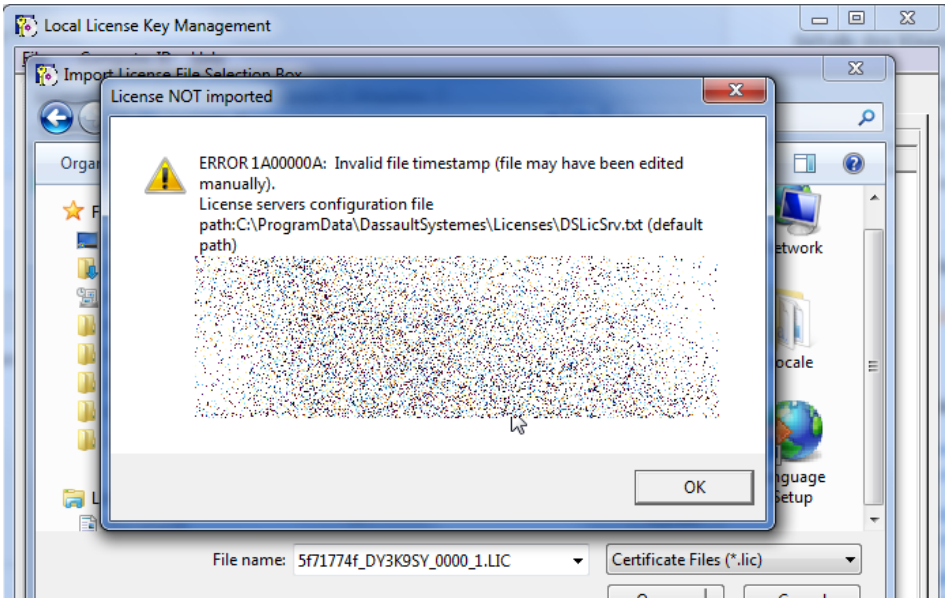
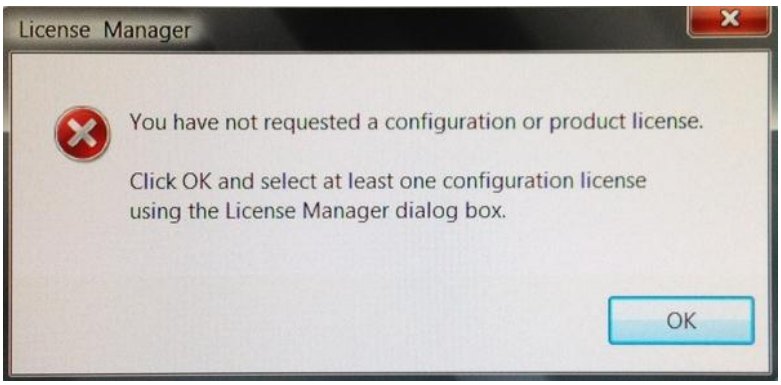


This error occurs when trying to import a LIC file using the **DSLS** License Manager instead of the **LUM** one.

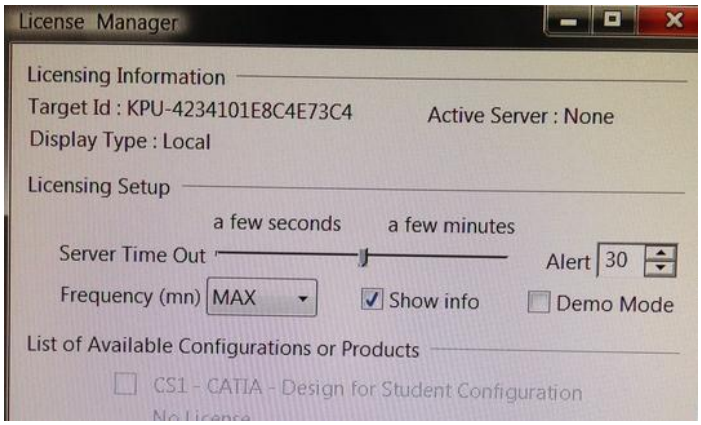
Start the LUM License Manager as explained in paragraph 9.1 and import the .LIC file.

9.2.4. You have not requested a configuration or product license

When running CATIA V5 Student Edition, some users get the following error:



Then:



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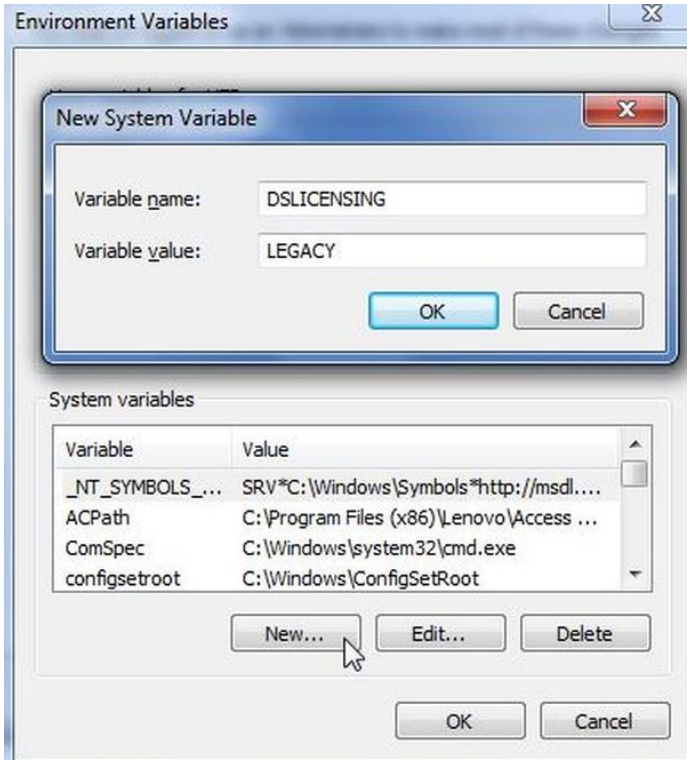
The above screenshot shows that CATIA is linked to the **DSLS** licensing manager instead of the **LUM** one. To fix this issue, run the Target ID Generator again (see paragraph 6.1.4). It will set an environment variable to you.

You may also do it manually (advanced users only):

- Open the Windows Control Panel.
- Choose “System and Security” > “System”
- Click “Advanced System Settings”
- Select “Environment variables” in the “Advanced” tab as shown below
- Click “New..” and add a new SYSTEM variable (in ALL UPPERCASE LETTERS, no space between words)

```
Variable name: DSLICENSING
Value:         LEGACY
```



https://swym.3ds.com/#community:514/iquestions:12882
https://swym.3ds.com/#post:12819

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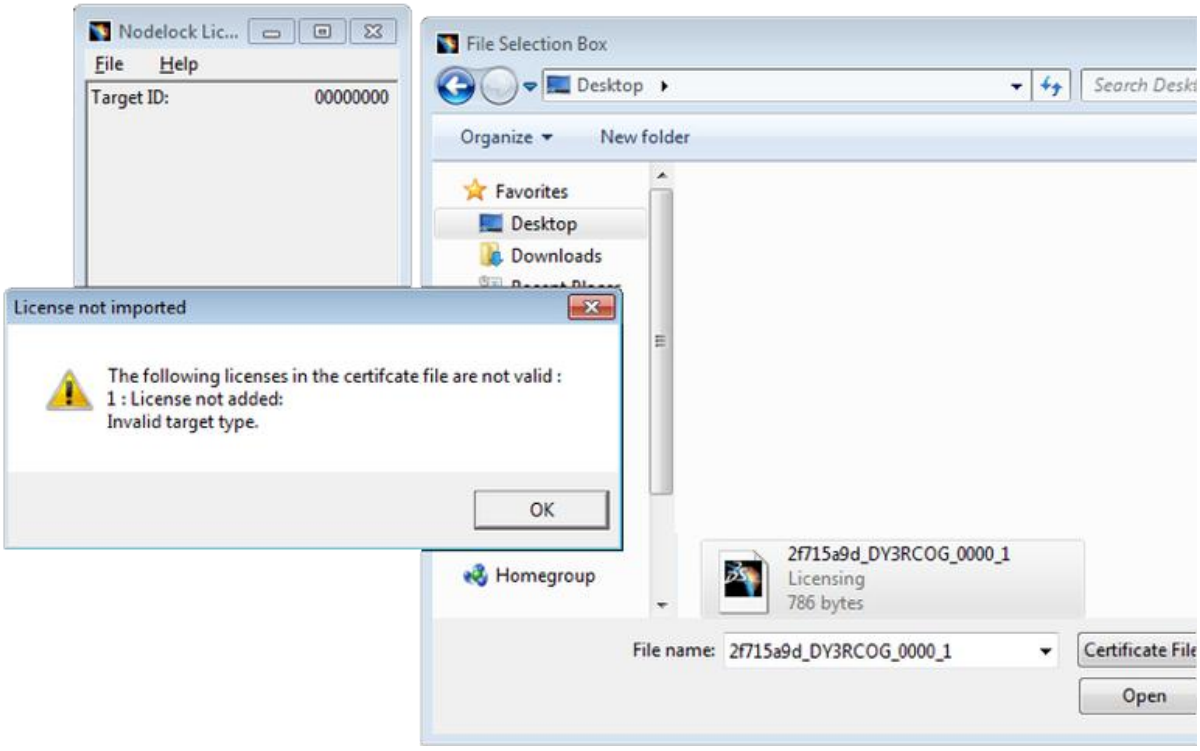
9.2.5. My Target ID is 00000000

Should you get the following:



Make sure you used the Target ID Generator to determine your Target ID.

If you already did, you are probably running a Virtual machine and CATIA will not work. In this case: a) use a real machine and request a license transfer, or b) request a refund.

https://swym.3ds.com/#community:514/iquestions:11798
https://swym.3ds.com/#community:514/iquestions:16165

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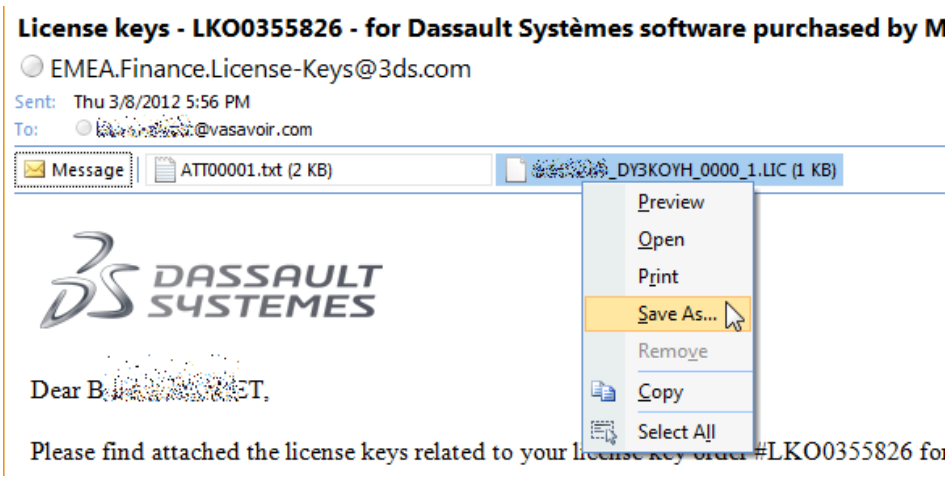
10. DSLS Licensing for V5-6R2013 (and later versions) users

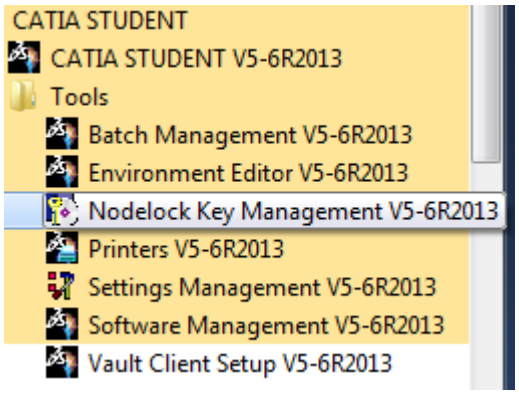
10.1. How to import the license key received by email

Save the .LIC file received by email in a temporary directory



From the Windows start menu, select

```
Start > All Programs > CATIA STUDENT > Tools > Nodelock Key
Management V5-6R20xx
```



Use the menu to select:

```
File > Import
```

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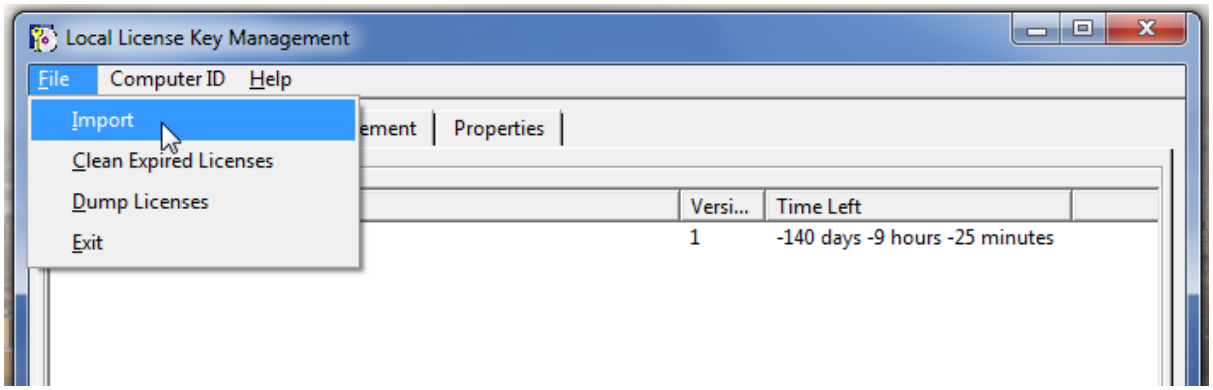
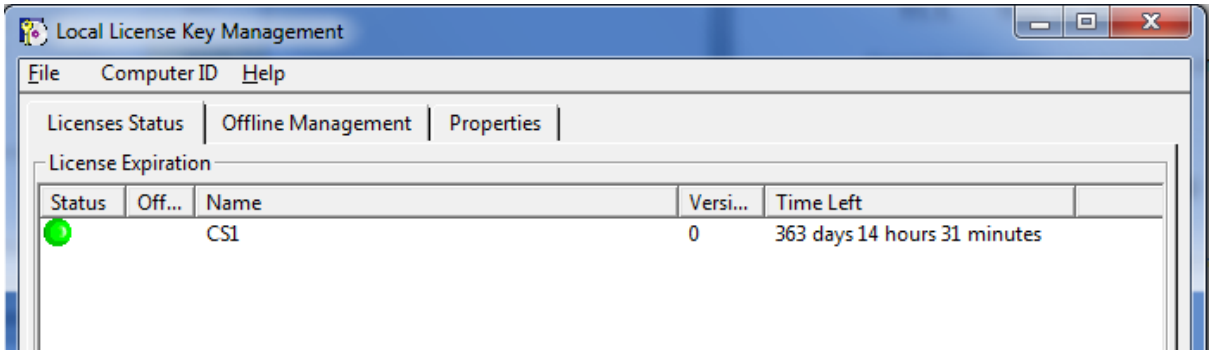


Pick the .LIC file you previously saved on your hard drive. Your CATIA Student Edition license (CS1) should appear in the list:



11. Run CATIA V5

11.1. You're done!

Congratulations! You are now done and you may now shape your ideas in 3D.

Enjoy CATIA V5.

11.2. Troubleshooting

11.2.1. You have not requested a configuration or product license

See paragraph 9.2.4

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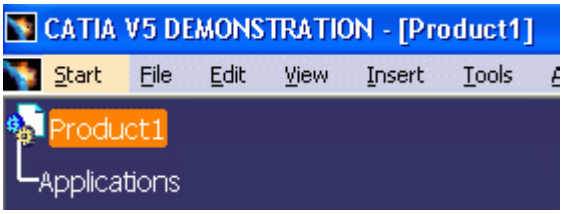
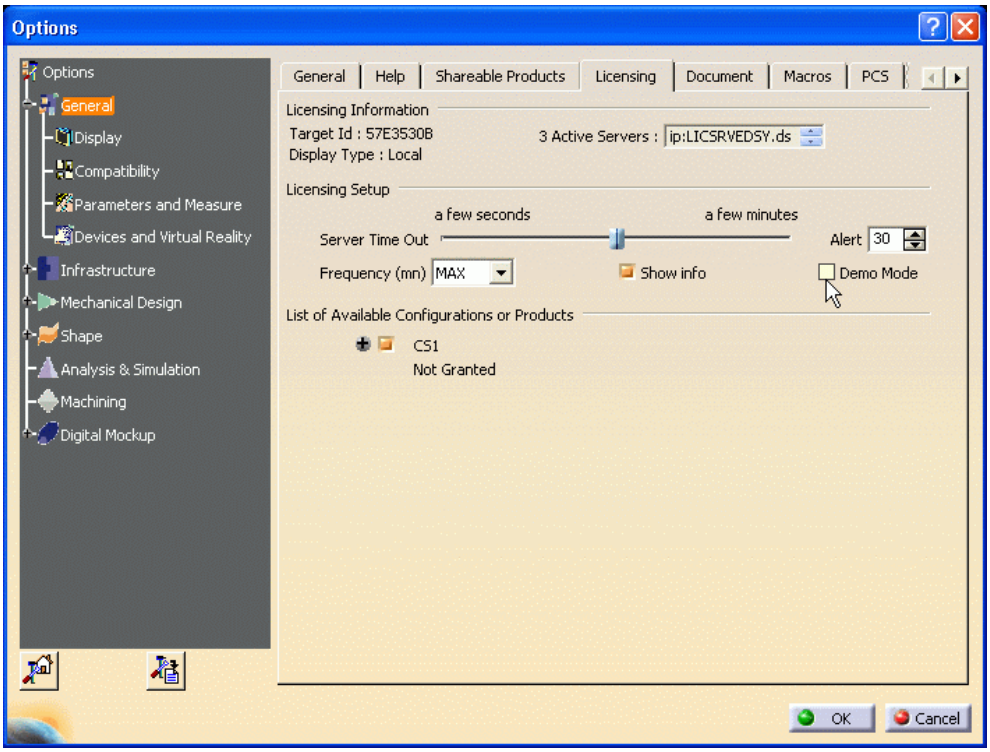
11.2.2. CATIA title bar show "CATIA V5 DEMONSTRATION"?



You probably checked the "demo" mode by mistake.

To fix the problem:

- Select "Tools" > "Options" from the menu
- Select the "Licensing" tab (as shown below)
- Uncheck the demo mode



You will be asked to restart CATIA V5. Once done, you should see "CATIA V5 for Student" in the CATIA title bar.

https://swym.3ds.com/#community:514/iquestions:11829

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