TRANSCAT
A Dassault Systemes Company

XFileV5 V 1.x.x

for CATIA® V5

Installation Manual

Text version 1-Sep-06 5:55 PM

XFileV5

Orientation Symbols Used in the Manual

Warning triangle

The warning triangle refers to *critical circumstances*,
which should be considered imperatively
in order to avoid serious problems in your work.

Hint symbol

The light bulb relates to *hints*,
which provide you with practical examples
to simplify your work.

Note symbol

The hand symbol relates to *notes*,
which you should pay attention to in order to assure
that you can *work without problems*.

Info symbol

The info symbol relates to
background *information*.

Step symbol

The work steps symbol
refers to a
step-by-step instruction sheet.

TRANSCAT PLM on the Internet: http://www.transcat-plm.com/

E-mail: xfileV5@transcat-plm.com

© TRANSCAT PLM GmbH & Co. KG, 2006

Table of Contents

* * *

1. Software and Hardware Requirements

Hardware:
• PC • IBM RS/6000 • HP • SGI • SUN
Operation system: (minimal requirements):
• Windows 2000/XP • AIX 4.3.3 minimum requirements: C Set ++ Runtime version 5.x.x.x (`xlC.aix43.rte`) • HP-UX 11 • IRIX 6.5.16m • SOLARIS 2.8

CATIA:
All CATIA Platforms (P1, P2 and P3) are supported. Minimal required version: V5 R16 Depending on the CATIA platform, the following CATIA configuration packages must be installed and the following licenses must be available: CATIA P1-platform: • all configuration packages (complete installation) • PX1 and at least MD1 license CATIA P2-platform: • all configuration packages (complete installation) • PX1 and at least MD2 license CATIA P3-platform: • on request

Additionally required software

- **ADOBE ACROBAT READER** (minimal required version 4.0)

The ACROBAT READER is required to browse the XFILEV5 online-help.

To determine if you have ADOBE ACROBAT READER installed on your UNIX system, enter the following command:

```
which acroread
```

This command displays the directory where ADOBE ACROBAT READER is installed.

2. Installing and Uninstalling under WINDOWS

2.1 Installing

Steps:

To install TransCAT XFILEV5, follow these steps:

(1) Insert the XFILEV5 CD-ROM in the CD-ROM drive.

(2) Start the installation routine in WINDOWS Explorer, double-clicking on the file name `XFileV5Rx_xxx_setup.exe`.

(3) Follow the installation instructions, edited on the display.

The installation results in creating:

- two icons—one for interactive mode, one for the utility mode;
- three bat files for batch mode—one for the XFileV5 export, one for the XFileV5 import, and one for CONSISTENT FILE SET.

2.2 Uninstalling

Steps:

To uninstall TransCAT XFILEV5, follow these steps::

(1) Click in the Windows taskbar on the Start button and select the menu item:
Settings > Control Panel > Add/Remove Programs.

(2) Select XFILEV5, and click on the button Change/Remove.

3. Installation under UNIX

3.1 Unpacking Files

In case you have a compressed and packed `XFileV5Rx_xxx.tar.gz` file[2], proceed as follows:

Action	OS[1]	Example
Copy TAR archive into an installation directory of choice of choice.	*	`cp XFileV5Rx_xxx.tar.gz /catdat/tcsoft` [2]
Change directory to the installation directory	*	`cd /catdat/tcsoft`
Unpack the archive file	*	`gzip –d XFileV5Rx_xxx.tar.gz | tar –xvf -` [2]

Note:

[1] * stands for every CATIA UNIX operation system

[2] xxx stands for the current version number.
Rx stands for CATIA release number

3.2 The Created Directory Structure

Directory	OS[1]	Description
XFileV5Rx_xxx/aix_a	AIX	Program modules and message files
XFileV5Rx_xxx/irix_a	SGI	
XFileV5Rx_xxx/hpux_b	HP	
XFileV5Rx_xxx/solaris_a	SUN	
XFileV5Rx_xxx/doc/German	AIX	Product documentation in PDF-format in German
XFileV5Rx_xxx/doc/German	SGI	
XFileV5Rx_xxx/doc/German	HP	
XFileV5Rx_xxx/doc/German	SUN	
XFileV5Rx_xxx/doc	AIX	Product documentation in PDF format in English
XFileV5Rx_xxx/doc	SGI	
XFileV5Rx_xxx/doc	HP	
XFileV5Rx_xxx/doc	SUN	
XFileV5Rx_xxx/readme.txt	*	Latest program information and changes
XFileV5Rx_xxx/XFileV5Env.csh	*	C shell script to extend an existing environment
XFileV5Rx_xxx/XFileV5Env.sh	*	Shell script to extend an existing environment
XFileV5Rx_xxx/XFileV5SetEnv.sh	*	Shell script to create a new environment

Note:
1 * stands for every CATIA Unix operation system
2 xxx stands for the current version number.
Rx stands for CATIA release number

3.3 Adapting XFILEV5 to the Local CATIA Installation

There are two ways to adapt XFILEV5 to the local CATIA installation:

(1) Creating a new CATIA environment with automatic creation of a XFILEV5 icon in the application manager (see chapter 3.3.1).

(2) Extending an existing CATIA environment (see chapter **3.3.2**).

3.3.1 Creating a New CATIA Environment

To create a new CATIA environment with XFILEV5 the shell script `XFileV5SetEnv.sh` is delivered.
In the following, you will find an excerpt from this file. Adapt in this file the passages marked gray to the realities of your local XFILEV5 installation. Further information to this subject you can find in the following subchapters.

```
...
# environment name
#------------------
XFILEV5_ENV="CATIA_XFileV5"
#
# existing directory for environment
#-----------------------------------
XFILEV5_ENV_PATH="${HOME}/CATEnv"
#
# TC XFileV5 directory (where aix_a ... is)
#------------------------------------------
XFILEV5_INSTALLATION="/catdat/tcsoft/XFileV5"
#
# Catia installation directory
#-----------------------------
CATIA_INSTALLATION="/usr/catiav5r16/B16"
#
# get os dependent path
#----------------------
export OSDS=`${CATIA_INSTALLATION}/GetOSDS`
#
# Load directory
#----------------------
XFILEV5_LOAD="${XFILEV5_INSTALLATION}/${OSDS}/code/bin"
#
# Admin directory
#----------------------
XFILEV5_ADMIN="${XFILEV5_INSTALLATION}/admin"
#
# User manual
#----------------------
XFILEV5_DOC="${XFILEV5_INSTALLATION}/doc/manual.pdf"
...
```

```
...
setcatenv                    -e $ XFILEV5_ENV
                                -d $ XFILEV5_ENV_PATH
                                -p $CATIA_INSTALLATION:$XFILEV5_INSTALLATION
                                -new yes
                                -desktop yes
                                –a global \
 && change_cat_env || echo "\aCreating the environment failed."
```

3.3.1.1 Adapting the Declarations to the Existing Directories

Adapt the following XFILEV5 variables to your local directory structure. The specifications in the example above are only an example.

Variable name	Explanation
• XFILEV5_ENV	Name of the new CATIA environment
• XFILEV5_ENV_PATH	Path where the CATIA environment file is created
• XFILEV5_INSTALLATION	Path where XFILEV5 is installed
• CATIA_INSTALLATION	Path where CATIA V5 is installed
• XFILEV5_LOAD	Directory of the executable files
• XFILEV5_ADMIN	Directory of the XFileV5.par for default settings
• XFILEV5_DOC	Directory of the user manual file

3.3.1.2 Specifying the Action Options

To generate CATIA environments, different options are available:

Variable	Value	Description
-new	yes	An already existing environment with the same name will be overwritten. (Recommended)
	no	An already existing environment with the same name will not be over-written, the existing environment remains.
-desktop	yes	A desktop icon of the environment is generated. (Recommended)
	no	No desktop icon of the environment is generated.
-a	global	A global environment will be created. Note: To create a global environment, you must have the administrator rights.
	user	A user environment will be created.

3.3.1.3 Creating an Environment

To create the above defined CATIA environment, execute the `XFileV5SetEnv.sh` shell script.

Action	OS[1]	Example
(1) Go to the installation directory	*	`cd /catdat/tcsoft/XFileV5_xxx`
(2) Execute the script	*	`./ XFileV5SetEnv.sh`

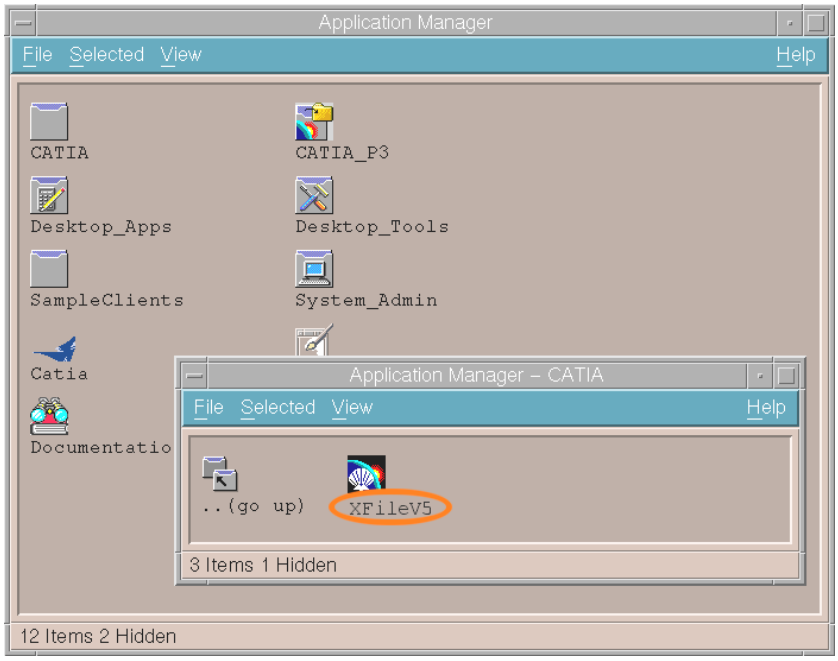
Note:
[1] * stands for every CATIA UNIX operation system
[2] XXX stands for the current version number.
RX stands for CATIA release number

ATTENTION:

To create a global environment, you must have the administrator rights.

NOTE:

The CATIA—XFILEV5 icon (see the following screenshot) is displayed in the *my_CATIA* folder of the Application Manager only after re-log in.



3.3.2 Extending an Existing CATIA Environment

To extend an existing CATIA environment, with the XFILEV5 the shell scripts `XFileV5Env.sh` or `XFileV5Env.csh` are delivered .

In the following, we give an extract of this file. Adapt in this file the passages marked gray to your local XFILEV5 installation. For further information to this subject, please refer to the following subchapters.

```
set +u

XFILEV5_PATH=/catdat/tcsoft/XFileV5
\export XFILEV5_PATH

XFILEV5_DOC=$XFILEV5_PATH/doc
\export XFILEV5_DOC

XFILEV5_LOAD=$XFILEV5_PATH/${OSDS}/code/bin
\export XFILEV5_LOAD

XFILEV5_ADMIN=$XFILEV5_PATH/admin
\export XFILEV5_ADMIN

XFILEV5CAA=$XFILEV5_PATH/${OSDS}
\export XFILEV5CAA

CATEnvironment=$XFILEV5CAA:$CATEnvironment
\export CATEnvironment
```

3.3.2.1 Adapting the Declarations to the Existing Directories

The values in the example file above are given only as an example; please adapt them to realities of your local installation.

Variable name	Explanation
• XFILEV5_PATH	Path, where XFILEV5 is installed
• XFILEV5_LOAD	Directory of the executable files
• XFILEV5_ADMIN	Directory of the XFileV5.par for default settings
• XFILEV5_DOC	Path, where the XFILEV5 documentation is situated

3.3.2.2 Starting CATIA with the XFILEV5 Environment

To integrate XFILEV5 in an already existing CATIA environment, you have to start CATIA as follows:

Step	OS[1]	Example	
(1) Set CATIA environment (here: CATIA default environment)	*	`. /home/root/CATEnv/CATIA_P3.V5R16.B16.sh`	
(2) Set XFILEV5 environment	*	`. /catdat/tcsoft/XFileV5_xxx/ XFileV5Env.sh` [2]	
(3) Start XFILEV5	*	For Interactive Mode:	`CNEXT`
		For Utility Mode:	`TCAXFileV5UtilityMd`
		For Batch Mode:	`TCAXFileV5BatchMd` (for options see XFILEV5 manual—section "Batch Mode")

Note:

[1] * stands for every CATIA UNIX operation system

[2] xxx stands for the current version number.
Rx stands for CATIA release number

4. Environment Variables

This table contains the complete overview of all environment variables, which may be used for XFILEV5.

Variable name	Explanation
• XFILEV5_DOC	Path, where the XFILEV5 documentation is situated
• XFILEV5_LOAD	Directory of the executable files
• XFILEV5_ADMIN	Directory of the XFILEV5.par for default settings
• XFILEV5_ENV	Name of the environment with PX1 license
• XFILEV5_DIRENV	Directory of the environment with PX1 license
• XFILEV5_EXP_TMP_DIR	Directory for packing files to be exported
• XFILEV5_EXP_TARGET_DIR	Default target directory for export container file
• XFILEV5_IMP_TARGET_DIR	Directory target directory for imported unpacked documents
• XFILEV5_EXP_EXTERNAL_PROCESS *(only for XFileV5 version 1.3.1)*	Path for external process

5. Installation of License Passwords

TRANSCAT PLM uses for XFILEV5 the license system *LUM*, which is also used for CATIA licensing. TRANSCAT PLM offers two types of licenses:

License type	Description
Nodelock	License for one only computer (license bound to the CPU-ID)
Concurrent	License is available in the network. A license server is needed.

NOTE:

A license can be entered:

- on a UNIX workstation only by the root-user,
- on PC only by users, having administrator rights.

5.1 License Request

To ensure a fast and errorless processing of your license request, we ask you to request your license on the following website:

http://www.transcat-plm.com/license

The CPU-ID will be output if you enter one of the following commands:

Platform	Command	Example of a CPU-ID
AIX	uname -m	009481814C00
AIX on p5-Series Workstations	/usr/opt/ifor/ls/bin /i4target -O	9481768C
IRIX (FLEXlm host ID)	lmhostid	6909b894
HP-UX (Permanent Target ID)	/var/lum/i4target	ffff28ea
SOLARIS	hostid	807fe3ee
WINDOWS (win32mac)	i4target	5DDE26F2
LINUX (MAC/LLA Address)	i4target -O	557cd770
CLUSTER	i4blt –H s –N cluster_name	9c1bb2a7e1a8.8d.41.d1.9c.4c .00.00.00

5.2 Installation of Nodelock Licenses

In the nodelock file, the *Nodelock* password must be entered, using a text editor. The nodelock file is situated platform-depending in one of the following directories:

```
IBM:                    /var/ifor
HP:                     /var/lum
SGI:                    /var/lum
SUN:                    /var/lum
WINDOWS 2000/XP:        c:\Documents and Settings\All
                        Users\Application Data\IBM\LUM
```

Enrolling a Nodelock license under UNIX

Action	OS[1]	Entries
(1) Log in as root user	*	su – root
(2) Go to the password directory	AIX	cd /var/ifor
	IRIX	cd /var/lum
	HP	cd /var/lum
	SUN	cd /var/lum
(3) Create or edit the nodelock file	*	vi nodelock
(4) Add new lines at the end (vi command)	*	<ESC>Go
(5) Enter the password text	*	(see text below the table)
(6) Save the file (vi command)	*	<ESC>wq
(7) Specify the file permissions	*	chmod 644 nodelock

Note:
[1] * stands for every CATIA UNIX operation system

Inserting Password text

In the license e-mail from TRANSCAT PLM, you will find a text analog to that in the following example:

```
Copy the following 2 lines into your nodelock file:
# TransCAT:  TC-XFileV5, Version 1.x, gueltig bis 31.12.2037
7db765b90080.02.81.96.00.18.00.00.00 64tkq3wfzxi2gzci5j7t8p49keaa "" "1"
```

To enter the password in the file, copy these two lines beginning from the # sign (and including it) to your nodelock file.

Enrolling a Nodelock license under WINDOWS

To enroll *nodelock* licenses under WINDOWS, open in the password directory (see on the top of this chapter) the nodelock file with any editor (e.g. WordPad).

If no nodelock file does yet exist, it must be created with an editor. Insert in the nodelock file the password text as described above for UNIX.

NOTE:

The nodelock file has no name extension—
neither under UNIX nor under WINDOWS.
Most of editors automatically add to the file name an extension (e.g. .txt). If an extension has been added, it must be deleted— otherwise the file will be inoperative.

5.3 Installation of Concurrent Licenses

Concurrent licenses are generated for a specific license-server and are bound to its CPU ID.

The prerequisite is that a *LUM* license manager is installed, configured and active, so that you can enter the concurrent password text. To enroll the license keys of the *Concurrent* type, you can use: the *i4blt command line interface* (in all platform cases) or the *Graphic User Interface* (since LUM version 4.6.5 for WINDOWS and all UNIX platforms, previous LUM versions only for AIX and WINDOWS).

For detailed information see your LUM documentation—chapter 6 "Using License Use Management Runtime" which is delivered with your operating system.

NOTE:

A license can be entered

- on a UNIX workstation only by the root user,
- on PC only by users, having administrator rights.

The tools and entries for the license manager are located in the following directories:

Operating System	Directory
IBM (AIX)	`/usr/opt/ifor/bin`
HP (HP-UX)	`/var/lum`
SGI (IRIX)	`/var/lum`
SUN (SOLARIS)	`/var/lum`
WINDOWS (2000/XP)	`X:\ifor\WIN\BIN` (X is the drive, on which *LUM* is installed)

Enrolling a *Concurrent* license

For the registration 3 possibilities are available.

- **Automatic registration**

If you have got the license certificate as `attachment`, we recommend the automatic registration.
In order to install the license, store the license file in a directory of your choice on the LUM server. Then enter the following command:

Command	Description
`i4blt -a -f filename`	`,filename'` stands for to the path and name of the license file.

- **Registration using the IMPORT function of the GUI i4blt version**

After starting the *GUI i4blt* version, the license certificate file can be read in and registered by the means of the IMPORT function.

STEPS

(1) Start *i4blt* Tool

(2) Select menu item *'Products'* and
go to submenu *'single product ...'*.

(3) In the window *'Enroll Product'* press the *Import* key

(4) In the following *IMPORT* window
select the *license certificate* and confirm with *'OK'*.

(5) After the return to the window *'Enroll Product'* conclude the registration pressing the *OK* button.

- **Manual registration with the *i4blt* command line interface**

To enter the license use to following syntax:

```
i4blt -a -n Server-Name -v "VendorName  [VendorID  VendorPassword]"
-p "ProductName  ProduktVersion  ProductPassword"
```

(The text above is shown on the screen in one line.)

Example:

```
i4blt -a -v "TransCAT  7db765b90080.02.81.96.00.18.00.00.00   ak9nui9b2ftjs" ##
-p "TC-XfileV5 1 46pdi5veptf5wket9xriygptqpnaaaa"
```

ATTENTION:

- The text must be entered in one line without line brake.
- The two number signs ## stand for 1 space sign.

Please take parameters for the keywords from your license certificate in analogy to the following example.

Note: The parameters in the example may differ from the parameters in your license certificate.

Example:

```
# i4admin -a -v "TransCAT" 7db765b90080.02.81.96.00.18.00.00.00 chh5afnqs6jx6
# i4admin –a -p "TransCAT" "TC-XFileV5V5" vmbif9d3s3vfcttqcpaiv83ug2qsaaa "1"

[LicenseCertificate]
CheckSum=D08CE54292F1ECE4720A49A52ADC70E1
TimeStamp=382196610
VendorName=TransCAT
VendorPassword=chh5afnqs6jx6
VendorID=7db765b90080.02.81.96.00.18.00.00.00
ProductName=TC-XFileV5
ProductID=5000
ProductVersion=1
ProductPassword=vmbif9d3s3vfcttqcpaiv83ug2qsaaa
ProductAnnotation=
LicenseStyle=concurrent
LicenseStartDate=02/05/2002
LicenseDuration=14214
LicenseEndDate=12/31/2037
LicenseCount=1
MultiUseRules=none
RegistrationLevel=3
TryAndBuy=No
SoftStop=No
TargetType=13
TargetTypeName=IBM AIX
TargetID=4fbf5a4c
```

* * *

http://www.transcat-plm.com/

© TransCAT PLM GmbH & Co. KG, 2006