TRANSCAT

XFILEV5 2.X.X

for CATIA® V5

INSTALLATION MANUAL

XFileV5

Orientation Symbols Used in the Manual

Warning triangle

The warning triangle refers to *critical circumstances*, which should be considered i m p e r a t i v e l y in order to avoid s e r i o u s problems in your work.

Hint symbol

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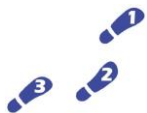
Note symbol

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.

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1.   Software and Hardware Requirements

Hardware:	CATIA:
• PC • IBM RS/6000 • HP • SUN	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
Operation system: (minimal requirements):	
• WINDOWS 2000/XP • AIX 5.1, 5.2, 5.3 • HP-UX 11.11 • SOLARIS 2.8	

Additionally required software

• **ADOBE ACROBAT READER** (minimal required version 5.0)

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

• Manual XFILEV5 installation using `zip` file

If you don't want to install XFILEV5 via `setup.exe`, as described above, you can as an alternative perform a manual installation, using `zip` file. This might be necessary e. g. in case of server installation. Further information about this installation you can find in the document `Product_Installation_using_ZIP-archive.pdf`, that you can download from the Q-CHECKER download site http://www.transcat-plm.com/tcsoft/downloads/q-checker_v5.html .

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]

N o t e :
[1]   * stands for e v e r y 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	OS¹	Description
`XFileV5Rx_xxx/aix_a`	AIX	Program modules and message files
`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`	HP	
`XFileV5Rx_xxx/doc/German`	SUN	
`XFileV5Rx_xxx/doc`	AIX	Product documentation in PDF format in English
`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

N o t e :
[1]   * stands for e v e r y 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 **3.3.1.4**).

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"
...
```

```
...                                                                    XFileV5
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 overwritten, 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	OS¹	Example
(1) Go to the installation directory	*	`cd /catdat/tcsoft/XFileV5_xxx`
(2) Execute the script	*	`./ XFileV5SetEnv.sh`

N o t e :
¹   * stands for e v e r y CATIA UNIX operation system
²   `xxx` stands for the current version number.
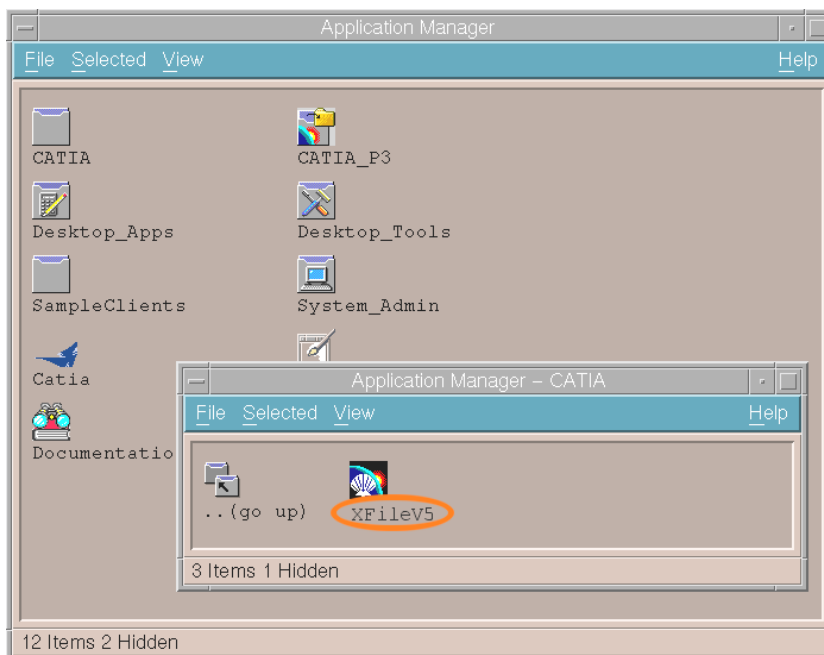   Rx stands for CATIA release number

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.

3.3.1.4   Example of a CATIA Environment File

```
!--------------------------------------------------------
!   DASSAULT SYSTEMES  -  V5 ENVIRONMENT FILE
!--------------------------------------------------------
! MODE : Global
! TYPE : CATIA
! TMSTMP : 1179298808
!--------------------------------------------------------

CATEnvironment=/catiav5/R17/$OSDS:/catdat/tcsoft/XFileV5/load/$OSDS
CATInstallPath=/catiav5/R17/$OSDS:/catdat/tcsoft/XFileV5/load/$OSDS
LIBPATH=/catiav5/R17/$OSDS/code/bin:/catdat/tcsoft/XFileV5/load/$OSDS/code/bin:$LIBPATH
LD_LIBRARY_PATH=/catiav5/R17/$OSDS/code/bin:/catdat/tcsoft/XFileV5/load/$OSDS/code/bin:$LD_LIBRARY_PATH
LD_LIBRARYN32_PATH=/catiav5/R17/$OSDS/code/bin:/catdat/tcsoft/XFileV5/load/$OSDS/code/bin:$LD_LIBRARYN32_PATH
SHLIB PATH=/catiav5/R17/$OSDS/code/bin:/catdat/tcsoft/XFileV5/load/$OSDS/code/bin:$SHLIB PATH
CATICPath=/catiav5/R17/$OSDS/code/productIC:/catdat/tcsoft/XFileV5/load/$OSDS/code/productIC
CATCommandPath=/catiav5/R17/$OSDS/code/command:/catdat/tcsoft/XFileV5/load/$OSDS/code/command
CATDictionaryPath=/catiav5/R17/$OSDS/code/dictionary:/catdat/tcsoft/XFileV5/load/$OSDS/code/dictionary
CATDocView=/catiav5/R17/$OSDS/doc:/catdat/tcsoft/XFileV5/load/$OSDS/doc
CATReffilesPath=/catiav5/R17/$OSDS/reffiles:/catdat/tcsoft/XFileV5/load/$OSDS/reffiles
CATFontPath=/catiav5/R17/$OSDS/resources/fonts:/catdat/tcsoft/XFileV5/load/$OSDS/resources/fonts
CATGalaxyPath=/catiav5/R17/$OSDS/resources/galaxy:/catdat/tcsoft/XFileV5/load/$OSDS/resources/galaxy
CATGraphicPath=/catiav5/R17/$OSDS/resources/graphic:/catdat/tcsoft/XFileV5/load/$OSDS/resources/graphic:/catiav5/R17/$OSDS/resour
    ces/graphic/icons:/catdat/tcsoft/XFileV5/load/$OSDS/resources/graphic/icons:/catiav5/R17/$OSDS/resources/graphic/figures:/catd
    at/tcsoft/XFileV5/load/$OSDS/resources/graphic/figures:/catiav5/R17/$OSDS/resources/graphic/splashscreens:/catdat/tcsoft/XFile
    V5/load/$OSDS/resources/graphic/splashscreens:/catiav5/R17/$OSDS/resources/graphic/symbols:/catdat/tcsoft/XFileV5/load/$OSDS/r
    esources/graphic/symbols:/catiav5/R17/$OSDS/resources/graphic/textures:/catdat/tcsoft/XFileV5/load/$OSDS/resources/graphic/tex
    tures
CATMsgCatalogPath=/catiav5/R17/$OSDS/resources/msgcatalog:/catdat/tcsoft/XFileV5/load/$OSDS/resources/msgcatalog
CATFeatureCatalogPath=/catiav5/R17/$OSDS/resources/featurecatalog:/catdat/tcsoft/XFileV5/load/$OSDS/resources/featurecatalog
CATDefaultCollectionStandard=/catiav5/R17/$OSDS/resources/standard:/catdat/tcsoft/XFileV5/load/$OSDS/resources/standard
CATKnowledgePath=/catiav5/R17/$OSDS/resources/knowledge:/catdat/tcsoft/XFileV5/load/$OSDS/resources/knowledge
CATStartupPath=/catiav5/R17/$OSDS/startup:/catdat/tcsoft/XFileV5/load/$OSDS/startup
CATW3ResourcesPath=/catiav5/R17/$OSDS/docs:/catdat/tcsoft/XFileV5/load/$OSDS/docs
CATReconcilePath=
USER_HOME=$HOME
CATReferenceSettingPath=
CATUserSettingPath=\$USER_HOME/CATSettings
CATCollectionStandard=
CATTemp=\$USER_HOME/CATTemp
CATMetasearchPath=/tmp
CATW3PublishPath=/tmp
CATSharedWorkbookPath=/tmp
CATErrorLog=\$USER_HOME/CATTemp/error.log
CATReport=\$USER_HOME/CATReport
CATDisciplinePath=
JAVA HOME aix a=$JAVA HOME
JAVA HOME aix a64=$JAVA HOME
JAVA_HOME_irix_a=$JAVA_HOME
JAVA_HOME_hpux_b=$JAVA_HOME
JAVA_HOME_solaris_a=$JAVA_HOME
JAVA_HOME=\$JAVA_HOME_$OSDS
CLASSPATH JDBC aix a=
CLASSPATH JDBC aix a64=
CLASSPATH_JDBC_irix_a=
CLASSPATH_JDBC_hpux_b=
CLASSPATH_JDBC_solaris_a=
CLASSPATH=\$CLASSPATH_JDBC_$OSDS:$CLASSPATH
PATH=/catiav5/R17/$OSDS/code/bin:/catdat/tcsoft/XFileV5/load/$OSDS/code/bin:/catiav5/R17/$OSDS/code/command:/catdat/tcsoft/XFileV
    5/load/$OSDS/code/command:$JAVA HOME/bin:$PATH
XFILEV5 PATH=/catdat/tcsoft/XFileV5
XFILEV5_LOAD=/catdat/tcsoft/XFileV5/$OSDS/code/bin
XFILEV5_ADMIN=/catdat/tcsoft/XFileV5/admin
XFILEV5_DOC=/catdat/tcsoft/XFileV5/doc
```

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
```
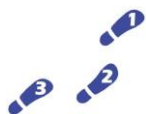
3.3.2.1 Adapting the Declarations to the Existing Directories

The values in the example file above are given only as an e x a m p l e ; 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	OS¹	Example	
Set CATIA environment (here: CATIA default environment)	*	`. /home/root/CATEnv/CATIA_P3.V5R16.B16.sh`	
Set XFILEV5 environment	*	`. /catdat/tcsoft/XFileV5_xxx/XFileV5Env.sh` ²	
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 e v e r y 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_TMP_DIR	Directory for packing files to be exported or unpacking files to be imported
• XFILEV5_EXP_TARGET_DIR	Default target directory for export container file
• XFILEV5_IMP_TARGET_DIR	Directory target directory for imported unpacked documents
• I4LIB_VERB	LUM environment variable. It is recommended to set this variable to YES when running XFileV5 in batch mode.

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 o n e only computer (license bound to the CPU-ID)
• *Concurrent*	License is available in the n e t w o r k . A license server is needed.

NOTE:

A license can be entered:
- on a UNIX workstation only by the r o o t - u s e r ,
- 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

* stands for e v e r y 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`

Operating System	Directory
• 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 the following 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 *Products* menu item and
go to the *single product …* submenu.

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

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

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

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