



Q-CHECKER V2.10.1
FOR CATIA V5




INSTALLATION GUIDE



Updates to this manual

For every release of Q-CHECKER Transcat PLM provides updated manuals. The updates cover newly added functions and may contain revised descriptions of previously introduced functions.

Using this PDF manual

- For direct access to sections in this manual you can use the *BOOKMARKS* tab of your PDF reader (e.g. ADOBE READER).
- When the mouse pointer  changes to , you can follow the cross-reference given in the text. Press the  button in the navigation toolbar of Adobe Reader to return to the previous view.
- For better clarity you can split the page view in ADOBE READER (menu item *WINDOW > SPLIT*). That way you can view different sections of the manual in parallel, e.g. a screenshot and its associated parameters.

Orientation symbols used in this manual

For better orientation in the manual the following symbols are used:



The warning triangle icon indicates *critical information* which is essential for avoiding or handling serious problems while working.



The light bulb icon indicates a *hint*, providing practical information from our experience to facilitate your work.



The hand icon indicates a *note* that helps you to avoid problems.



The info icon indicates *background information*.



The steps icon indicates *step-by-step instructions*.

TRANSCAT PLM on the internet:

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

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1 Hardware and Software Requirements

Hardware	Operation system
PC	MICROSOFT WINDOWS 2000 MICROSOFT WINDOWS XP/XP x64 MICROSOFT WINDOWS VISTA x86/VISTA x64
IBM	AIX 5.2, AIX 5.3
HP	HP UX 11.11
SUN	SOLARIS 8, SOLARIS 10

CATIA V5
<p>Version and Releases: V5 R16 or later releases</p> <p>Platforms: All CATIA platforms (P1, P2 and P3) are supported.</p> <p>Depending on the CATIA platform, the following configuration packages must be installed and the following licenses must be available:</p> <p>CATIAP1 platform:</p> <ul style="list-style-type: none"> • all configuration packages • at least MD1 license <p>CATIAP2 platform:</p> <ul style="list-style-type: none"> • at least E1+MD2+PM2+SA2 configuration and PX1 product • at least MD2 license <p>CATIAP3 platform:</p> <ul style="list-style-type: none"> • on request <p>In order to use the Q-CHECKER criterion <i>MML (Multi-Model Link) Reference Not Published</i> a PX1 license is required.</p>

Additional Software

- HTML browser

An HTML-Browser such as MOZILLA FIREFOX or MICROSOFT INTERNET EXPLORER (version 5 or later) is required for viewing the HTML check protocols generated by Q-CHECKER.

Q-CHECKER can be configured to display the criteria online help in an internal browser or to call an external HTML browser.

- ADOBE ACROBAT READER, version 7.0 or later

In order to view or print the PDF manuals, ADOBE ACROBAT READER or an equivalent software is required.

Supported Norms and Standards

- VDA Recommendation VDA 4955/2

2 Installing and Uninstalling for Windows

2.1 Installing



Step-by-step instruction:

Follow these steps to install Q-CHECKER:

- (1) Insert the Q-CHECKER CD-ROM into the CD-ROM drive, or get the install package from the Q-CHECKER website.
- (2) Start the installation routine by double-clicking on the file name in Windows Explorer.

`qcheckerV5Rxx_2101_setup.exe` (32 bit version) or

`qcheckerV5Rxx_2101_setup.exe` (64 bit version)

- (3) Follow the on-screen instructions.

The installation dialogs and options are described below.

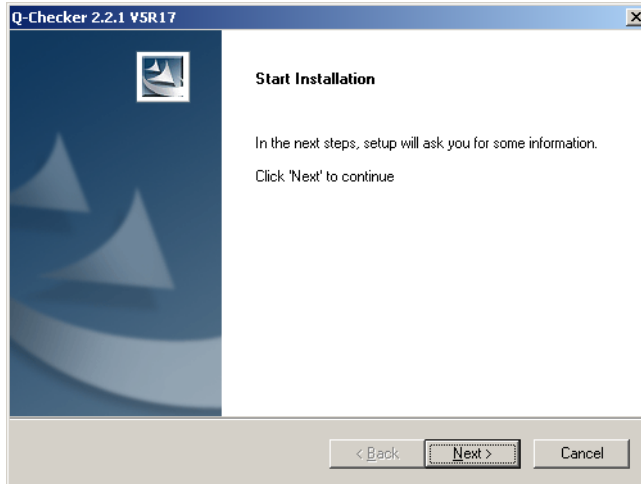
Starting the installation



HINT:

In some cases, such as installing on a server, this installation routine cannot be used. Instead, you can manually install the software from a zip archive, as described in section 2.3 *Installing manually on Windows*.

After starting the setup, the following *Welcome* screen will be displayed.

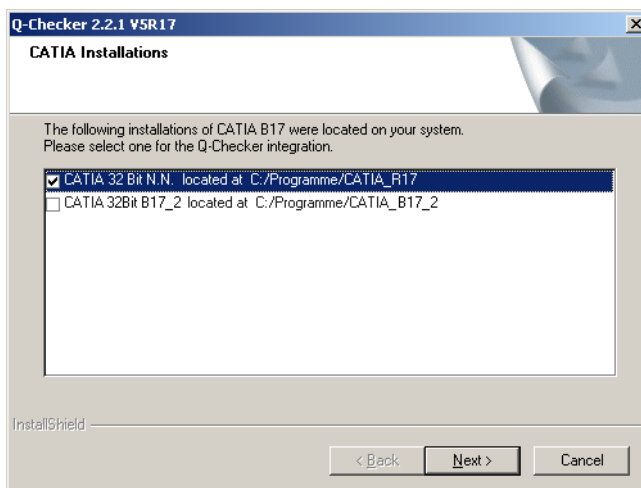


To continue the installation, click the *Next* button after each step.

To abort the installation, click the *Cancel* button. The installation can be aborted at any of the installation steps by clicking the *Cancel* button; all settings will be cancelled. By clicking on the *Back* button you can return to the preceding steps and modify the settings you already made.

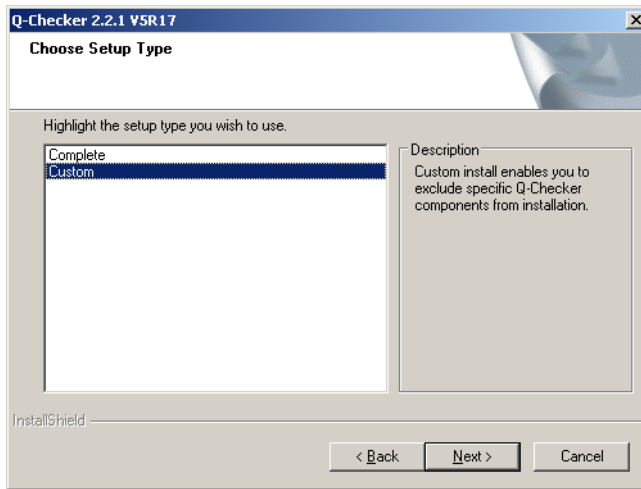
Selecting the CATIA version

The installation program looks up which versions of the respective CATIA release are installed on the computer. Select the required version.

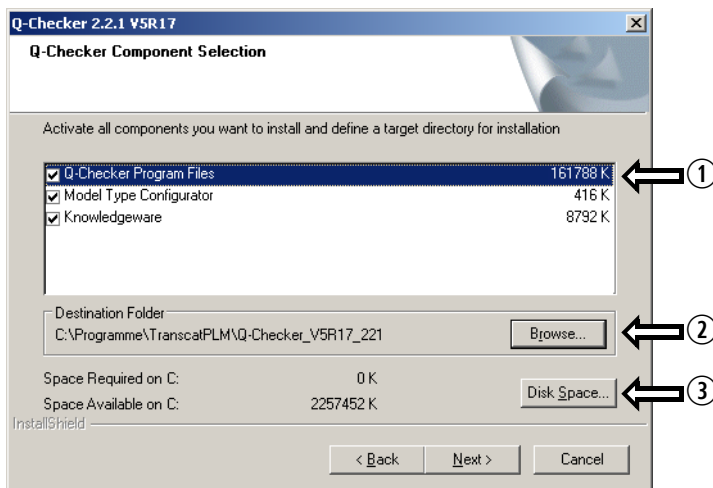


Choose the setup type

Select whether you wish to execute a *complete* or a *custom* installation.



If you choose a custom installation, you have to select the components to be installed.



Select the software components to be installed:

- | | |
|---------------------------|--|
| ① Q-CHECKER Program Files | Q-CHECKER itself |
| Model Type Configurator | For further information see the ADMINISTRATION MANUAL, Kapitel 10.9 <i>Model-Type Identification by Feature Attribute (FEATURE_ATTRIBUTE)</i> , page 64. |
| Knowledgeware | Files preparing the use of Knowledgeware (plug-ins). For further information see the ADMINISTRATION MANUAL, section 15 <i>Plug-ins</i> . |

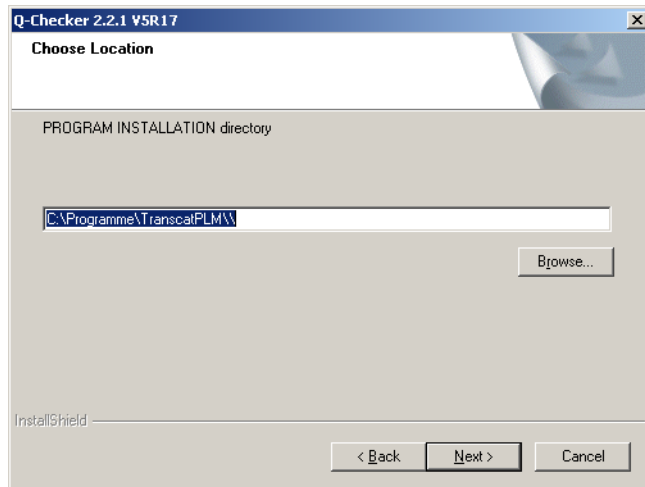
- ② The installation directory preset for Q-CHECKER is displayed on the left. After pressing the *Browse* button, a folder selection dialog is opened where it is possible to modify the directory in which Q-CHECKER and its components are to be installed.
- ③ On the left side, the free disk space for the selected drive is displayed ②. By pressing the *Disk Space* button a dialog displays the disk space available on other drives.

Selecting the installation directory for the program files

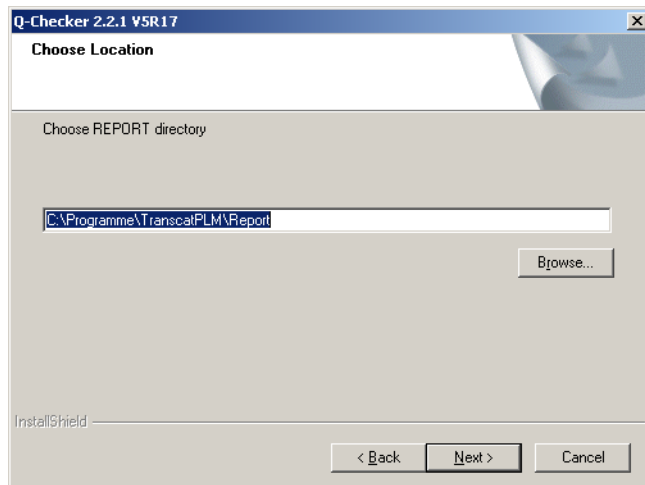
Specify the installation directory in which to install the Q-CHECKER files.

- for Q-CHECKER itself

(This dialog will not be displayed if there is already a Q-CHECKER custom installation for which the directory has already been set.)



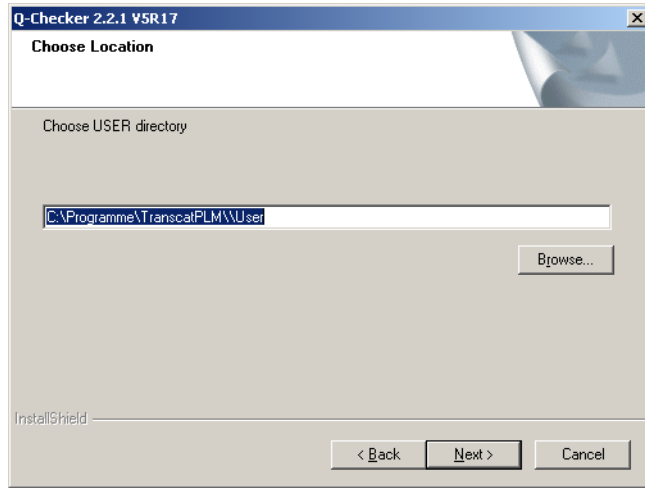
- for Q-CHECKER report files



**NOTE:**

This path can also be modified afterwards in the CATIA environment file (variable `QCADMIN`).

- the Q-CHECKER user files

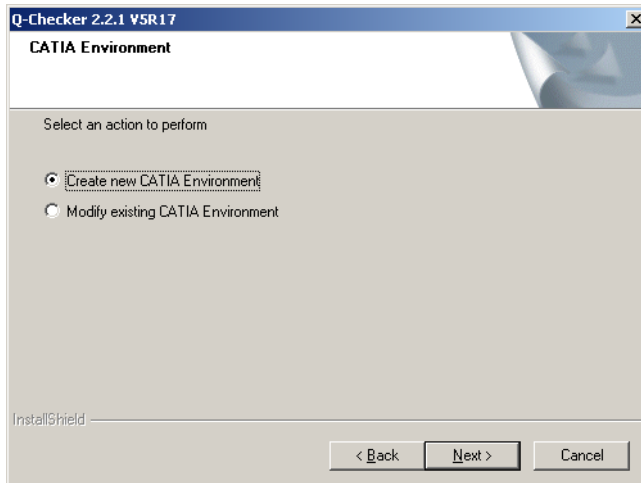
**NOTE:**

This path can also be modified afterwards in the CATIA environment file (variable `QCUSER`).

Setting the CATIA environment

To make Q-CHECKER available in CATIA, a CATIA environment must be prepared. Choose one of the options in the CATIA *Environment* dialog:

- Create a new environment (recommended), or
- Modify an existing environment in which Q-CHECKER will be integrated.



If you select the *Modify existing CATIA environment* option, a file selection dialog shows the local environment directory for the respective CATIA version. (Example: If you are installing Q-CHECKER for CATIA V5 R16, the environment directory for CATIA R16 will be opened.) If necessary, choose a different directory. Select the CATIA environment file to be modified for use with Q-CHECKER, and click the *Open* button. Subsequently, the selected CATIA environment file will be adapted automatically.

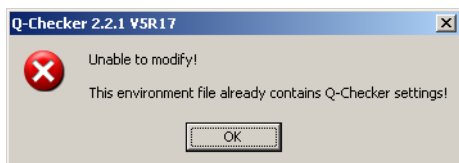


NOTE:

When the installation is finished, it is recommended to check the adapted CATIA environment.

Certain circumstances may cause the automatic adoption to fail, such as write-protection or a very complex CATIA environment.

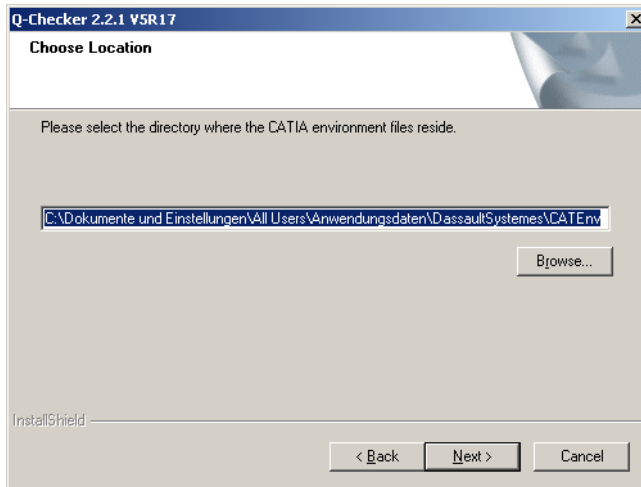
Modifications can be made only to environment files that do not yet contain Q-CHECKER variables. If the selected environment file already contains Q-CHECKER variables, an alert like the following will be displayed:



Specifying the installation directory for the CATIA environment file

If you want a new environment to be placed in a different directory than the default directory, press the *Browse* button and select the desired directory from the dialog.

(This window will not be displayed if an existing environment file is to be modified.)



Specifying the name of the CATIA environment file

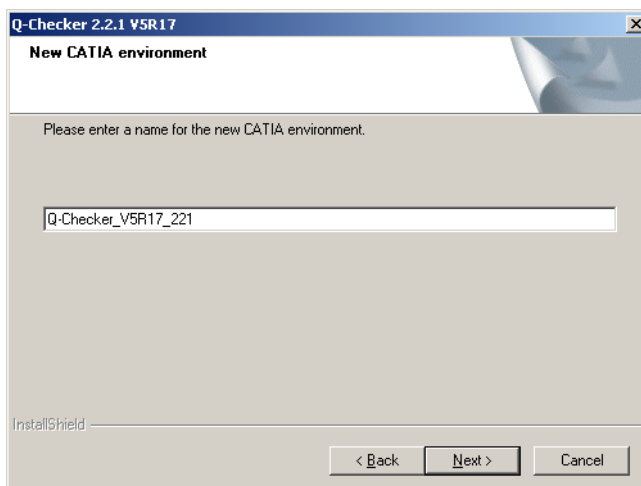
If desired, you can adjust the name of the new CATIA environment file in the text box of the current dialog. We recommend to include the version numbers of both Q-CHECKER and CATIA in the name, for example Q-Checker_V5_2101_CatiaR17 or Q-Checker_V5R17_2101).



NOTE:

The name of the environment must not contain blanks.

(This window will not be displayed if an existing environment file is to be modified.)



Defining the database capability

Select whether Q-CHECKER is to be installed with or without database connection. Normally, the *Without DB connection* option is appropriate.

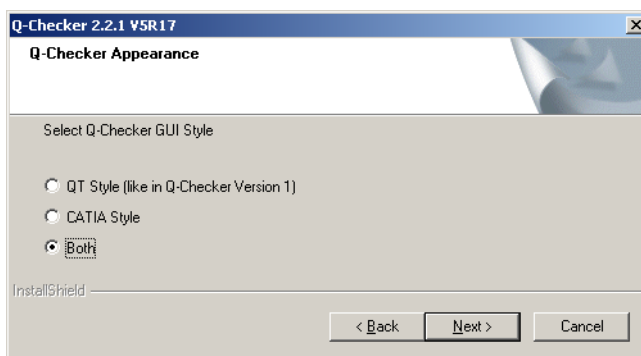
Only in case you work with Q-MONITOR and want to store the Q-CHECKER check results in a database, select the *With DB connection* option.



NOTE:

The database connection requires an additional license, TC-qcheckerV5-db.

Selecting Q-Checker GUI



Choose the Q-CHECKER GUI to be used (cf. the screenshots below). If the selection is set to *QT Style* or *CATIA Style*, Q-CHECKER can be opened only with the respective GUI. If *Both* is selected, Q-CHECKER can be started with either GUI.

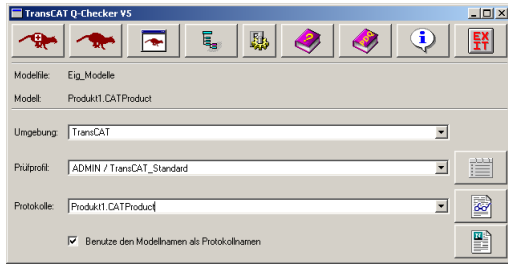
QT GUI

Q-CHECKER Start Window

CATIA GUI

Q-CHECKER Start Window

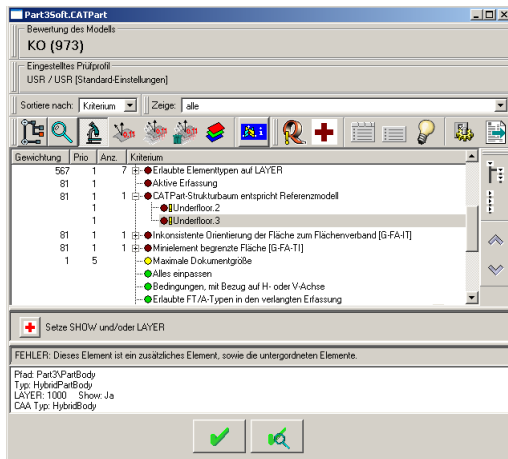
QT GUI



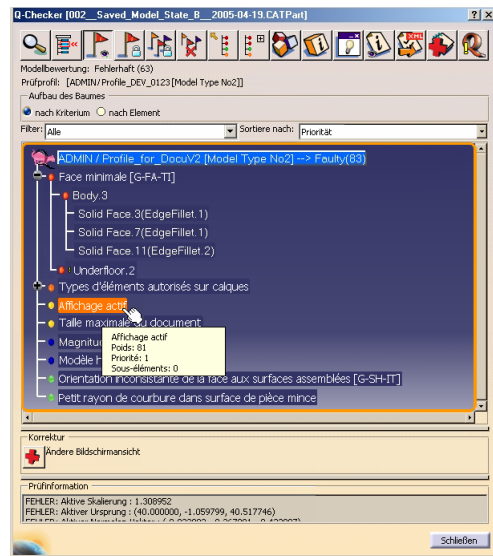
CATIA GUI



Q-CHECKER Analysis Window

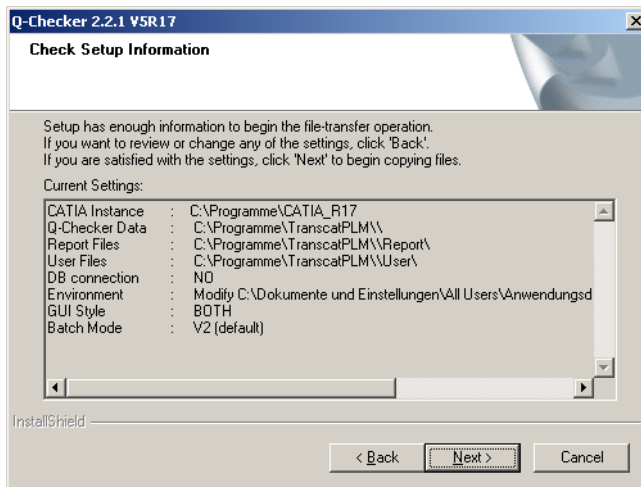


Q-CHECKER Analysis Window

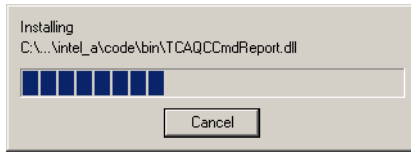


Completing the installation routine

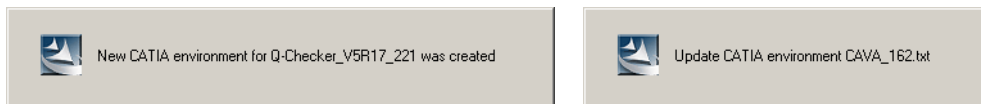
When all specifications have been entered, a summary is displayed in a dialog.



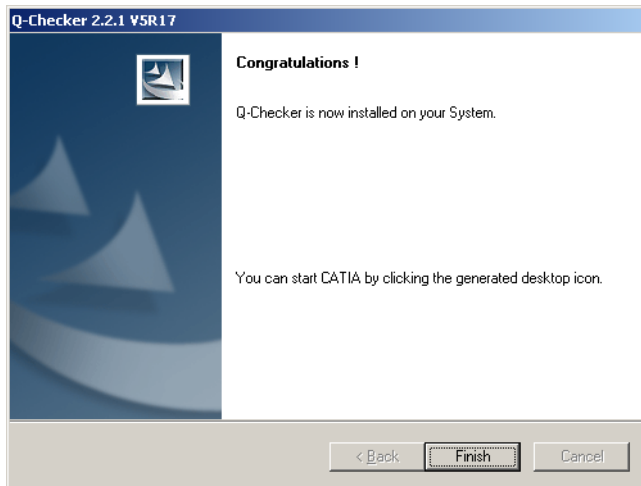
To start the installation with the specified settings, click the *Next* button. The installation will then copy the required files to the installation directory.



At the end of the installation routine, the environment file will be created or modified, respectively.



The installation has been completed when the following dialog is displayed.



Confirm this message by clicking the *Finish* button.

When the installation is completed, on your desktop an icon is available with the name of the newly created CATIA environment. Clicking on this icon will start CATIA with integrated Q-CHECKER.

2.2 Uninstalling

To uninstall Q-Checker:

- (1) In Windows, click on the Start button, and select Settings > Control Panel > Add/Remove Software.

- (2) Select the Q-CHECKER entry from the list of installed software, and click the Remove button.

Further information on particular directories, the CATIA environment file and other files can be found in section 3 *Installing for UNIX* on page 19.

2.3 Installing manually on Windows

A manual Q-CHECKER installation on WINDOWS is intended for cases in which the installation routine described in section 2.1 cannot be used. A typical use case is the installation on a server, where no local CATIA environment files are available for modification.

The files required for installation are available as a zip archive. Further adjustments have to be made manually.



Working Steps: Installing manually on WINDOWS

Download and unpack the zip installation package

- (1) Download the zip installation package of the required Q-CHECKER version from the TRANSCAT PLM website.

http://www.transcat-plm.com/tcsoft/downloads/q-checker_v5.html

Make sure to choose the appropriate Q-CHECKER installation package for your version of CATIA.

- (2) Unpack the zip file into the desired directory.

You can use the utility integrated in WINDOWS Explorer (from WINDOWS XP: context menu of the file icon > *Extract all files ...*) or a zip tool such as WINZIP, WINRAR or 7-ZIP.

When unpacked, all files are located in a directory named like Q-CheckerV5Rxx_yyy.

Create or modify a CATIA V5 environment file

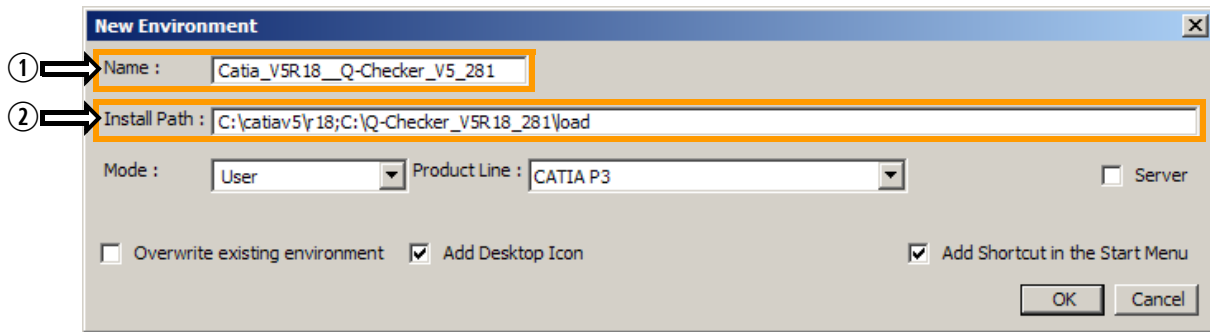
- (3) Run the CATIA Environment Editor:

Windows start menu > *Programs* > *Catia Pn* > *Tools* > *Environment Editor V5Rxx*

The environment editor helps you to create a new CATIA environment—step (4), or to modify an existing environment—step (5).

- (4) To create a new environment:

▷ Choose menu *Environment > New*.



▷ Enter a name in the *Name* text box ①. We recommend to use name clearly indicating the configuration or purpose of the environment.

▷ In the *Install Path* field ②, append a semicolon [;] to the preset value. Then, append the full path to the `load` directory of the unpacked Q-CHECKER package. Example:

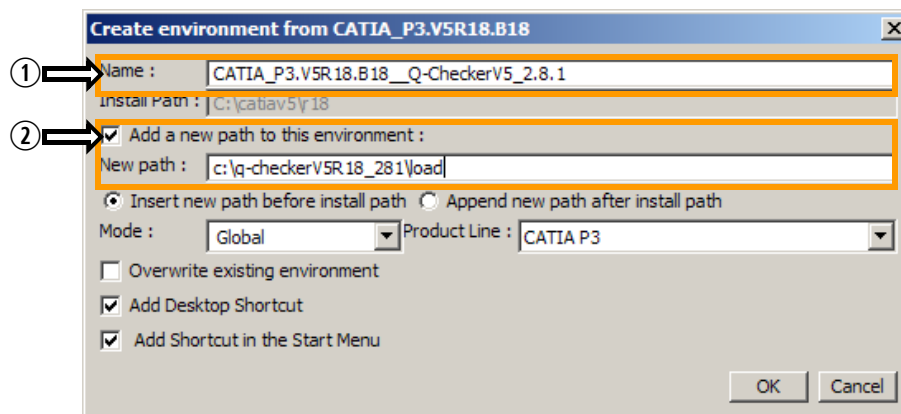
```
C:\catia5\r18;C:\Q-Checker_V5R18_2101\load
```

Click *OK*.

(5) To modify an existing environment:

▷ Select the environment to be adapted from the upper list in the environment editor window.

▷ Choose *Environment > New from*.



▷ Enter a name in the *Name* text box ①. We recommend to use name clearly indicating the configuration or purpose of the environment.

▷ Choose the *Add a new path to this environment* option, and enter the full path to the load directory of the unpacked Q-CHECKER package.

▷ Check the settings of the other options on the dialog, and confirm with *OK*.

The relevant values on the lower list in the environment editor window have been modified.

(6) For both new and adapted environments: Define the remaining environment variables that are necessary to run Q-CHECKER.

To add a new variable, right-click on the lower list in the environment editor window, and choose the *New Variable* menu item from the context menu.

The required variables are documented in section 3.3.1.1 *Adapt the declarations to existing directories*. Below, the required variables and sample values are listed:

QCUSER	C:\Program Files\Transcat PLM\Q-CheckerV5R18_2101\User
QCREPORT	C:\Program Files\Transcat PLM\Q-CheckerV5R18_2101\Report
QCLICDB	NO
QCPATH	C:\Program Files\Transcat PLM\Q-CheckerV5R18_2101
QCADMIN	C:\Program Files\Transcat PLM\Q-CheckerV5R18_2101\adminV5
QCDOC	C:\Program Files\Transcat PLM\Q-CheckerV5R18_2101\docV5
QCHTML	C:\Program Files\Transcat PLM\Q-CheckerV5R18_2101\htmlV5
QCLOAD	C:\Program Files\Transcat PLM\Q-CheckerV5R18_2101\load\intel_a\code\bin

Adapt the Q-CHECKER startup script

(7) ▷ Open the `qcheckerV5.vbs` file in a text editor.

▷ Set the values of the following variables according to the path of your Q-CHECKER installation, as shown in the example:

```
'#path of the load modules
QCHECKER_LOAD_PATH = "C:\Q-Checker_V5R18_2101\load\intel_a\code\bin"

'#path of the java database library
QCHECKER_LOAD_JAVA = "C:\Q-Checker_V5R18_2101\load"
```

▷ Save the changes to the script file.

3 Installing for UNIX

3.1 Unpacking the Files



Step-by-step instruction:

(1) If you received a file with the extension `.tgz` or `.taz`, rename the file as follows:

- rename `.tgz` to `.tar.gz`: `mv *.tgz *.tar.gz`
- rename `.taz` to `.tar.Z`: `mv *.taz *.tar.Z`

(2) Place the archive file in the desired installation directory, e.g.

```
cp qcheckerV5_2101.tar.gz /catdat/tcsoft
```

(3) Change to the installation directory, e.g.

```
cd /catdat/tcsoft
```

(4) Decompress and unpack the archive file:

```
gzip -d -c qcheckerV5_2101.tar.gz | tar -xvf -
```

or, for files with `.tar.Z` extension,

```
uncompress qcheckerV5_2101.tar.Z | tar -xvf -
```



NOTE:

We recommend to decompress and unpack these archive files directly on UNIX- and not on WINDOWS. Some archive tools running on WINDOWS modify the contents of archive files, making them unreadable on UNIX.

3.2 Generated Directory Structure

Directory	Description
Operating system-dependent:	
<code>qcheckerV5_2.10.1/load/aix_a64</code>	Software modules for AIX 64bit
<code>qcheckerV5_2.10.1/load/aix_a</code>	Software modules for AIX 32bit

Directory	Description
qcheckerV5_2.10.1/load/hpux_b	Software modules for HP-UX
qcheckerV5_2.10.1/load/solaris_a	Software modules for SOLARIS
For all available operating systems:	
qcheckerV5_2.10.1/nedit	Editor
qcheckerV5_2.10.1/KweQChecker	Q-CHECKER checks as knowledgware
qcheckerV5_2.10.1/docV5/lang_DE	German manual in PDF format
qcheckerV5_2.10.1/docV5/lang_EN	English manual in PDF format
qcheckerV5_2.10.1/docV5/lang_FR	French manual in PDF format
qcheckerV5_2.10.1/docV5/lang_JP	Japanese manual in PDF format
qcheckerV5_2.10.1/htmlV5/lang_DE	HTML online help files in German
qcheckerV5_2.10.1/htmlV5/lang_EN	HTML online help files in English
qcheckerV5_2.10.1/htmlV5/lang_FR	HTML online help files in French
qcheckerV5_2.10.1/htmlV5/lang_JP	HTML online help files in Japanese
qcheckerV5_2.10.1/adminV5/ <Environment>	Administration files and check profiles
qcheckerV5_2.10.1/adminV5/ <Environment>/plugin/ KweQCheckerPlugin	Knowledgware plug-ins (if used)
qcheckerV5_2.10.1/adminV5/ <Environment>/structure	Start model
qcheckerV5_2.10.1/adminV5/ <Environment>/db	Database directory
qcheckerV5_2.10.1/qcheckerV5	Startup script
qcheckerV5_2.10.1/readmeV5.txt	List of latest changes and additions
qcheckerV5_2.10.1/QCHECKER.in	Batch input sample file
qcheckerV5_2.10.1/QCheckerEnv.csh	C-shell script to enlarge existing environment
qcheckerV5_2.10.1/QCheckerEnv.sh	Shell script to enlarge existing environment
qcheckerV5_2.10.1/QCheckerSetEnv.sh	Shell script to create new environment

Note:

In the table, <Environment> is a placeholder for the actual name of the respective check profile. A standard installation of Q-CHECKER contains only the DEFAULT profile and the respective folder `qcheckerV5_xxx/adminV5/DEFAULT`

3.3 Adapting Q-CHECKER to the local CATIA installation

There are two ways to adapt Q-CHECKER to the local installation:

- Creating a new CATIA environment and automatically creating a CATIA-with-Q-CHECKER icon in the application manager—see section 3.3.1 *Creating a new CATIA environment* (recommended option)
- Expanding an existing CATIA environment—see section 3.3.1.5 *Catia environment sample file*

3.3.1 Creating a new CATIA environment

To create a new CATIA environment, the `QCheckerSetEnv.sh` shell script is included with Q-CHECKER. Below is an excerpt from this file. Adapt the entries printed in boldface to the requirements of your installation, as explained in the following subsections.

```
...

# Name of the new environment
#
QCHECKER_ENV="QCHECKER_V5R17_2101"
#
# Store the new environment in this directory
#
QCHECKER_ENV_PATH="/transcat/Catiav5r17/CATEnv"
#
# Installation directory of Q-Checker
#
QCHECKER_INSTALLATION="/catdat/tcsoft/qcheckerV5R17_2.10.1"
#
# CATIA installation directory
#
CATIA_INSTALLATION="/Catiav5/R17"
#
# This value is important for aix. The value can be aix_a or aix_a64
#
AIX OSDS="aix_a"
#
```

```

...
chcatenv -e $QCHECKER_ENV -d $QCHECKER_ENV_PATH -var
  QCPATH=${QCHECKER_INSTALLATION} -new
chcatenv -e $QCHECKER_ENV -d $QCHECKER_ENV_PATH -var
  QCDOC=${QCHECKER_INSTALLATION}/docV5 -new
chcatenv -e $QCHECKER_ENV -d $QCHECKER_ENV_PATH -var
  QCHTML=${QCHECKER_INSTALLATION}/htmlV5 -new
chcatenv -e $QCHECKER_ENV -d $QCHECKER_ENV_PATH -var QCLOAD=${QCHECKER_
  INSTALLATION}/load/$OSDS/code/bin -new
chcatenv -e $QCHECKER_ENV -d $QCHECKER_ENV_PATH -var QCADMIN=${QCHECKER_
  INSTALLATION}/adminV5 -new
chcatenv -e $QCHECKER_ENV -d $QCHECKER_ENV_PATH -var
  QCUSER=\$USER_HOME/qcuserV5 -new
chcatenv -e $QCHECKER_ENV -d $QCHECKER_ENV_PATH -var
  QCREPORT=\$USER_HOME/qcreportV5 -new
chcatenv -e $QCHECKER_ENV -d $QCHECKER_ENV_PATH -var
  QCLICDB=NO -new
chcatenv -e $QCHECKER_ENV -d $QCHECKER_ENV_PATH -var
  QCGUI=V2 -new
chcatenv -e $QCHECKER_ENV -d $QCHECKER_ENV_PATH -var
  QCBATCH=V2 -new chcatenv -e
chcatenv -e $QCHECKER_ENV -d $QCHECKER_ENV_PATH -var
  QCLANGCAT=NO -new
...
setcatenv -e $QCHECKER_ENV -d $QCHECKER_ENV_PATH -p $CATIA_
  INSTALLATION:$QCHECKER_INSTALLATION/load -new yes -desktop yes -a
  global \
  && change_cat_env || echo "\aCreating the environment failed."

```

**NOTE:**

When using Q-CHECKER V4 and V5 or more than one version of Q-CHECKER V5 in parallel, we strongly recommend to use separate user and report directories for each Q-CHECKER version.

Keeping the QCHECKER.usr files and check reports in separate directories prevents files from being overwritten and helps you to distinguish between check protocols of different origin.

Example:

```

\$USER_HOME/qcuserV4
\$USER_HOME/qcuserV5

```

3.3.1.1 Adapt the declarations to existing directories

The following Q-CHECKER variables must be adapted to the local installation. The entries shown in the example above are only an example.

Variable	Description:	
QCHECKER_ENV	Name of the new CATIA environment	
QCHECKER_ENV_PATH	Path of the environment file	
QCHECKER_INSTALLATION	Path where Q-CHECKER is installed	
CATIA_INSTALLATION	Path where CATIA V5 is installed	
AIX_OS_DS	aix_a	Use this value for CATIA 32bit.
	aix_a64	Use this value for CATIA 64bit.
QCPATH	Path where Q-CHECKER is installed (identical to the QCHECKER_INSTALLATION variable)	
QCDOC	Path to the Q-CHECKER manuals	
QCHTML	Path to the Q-CHECKER HTML online help	
QCLOAD	Path to the Q-CHECKER load modules	
QCADMIN	Path to the administration files	
QCUSER	Path to user check profiles	
QCREPORT	Path to check reports	
QCLICDB	Q-CHECKER License declaration (section 3.3.2.2 <i>Q-Checker License declaration</i>)	
QCLANGCAT	YES	Q-CHECKER language identical with CATIA language—for the Q-CHECKER-supported languages German, English and French. For other languages Q-CHECKER is opened in English.
	NO	Q-CHECKER language settings can be adjusted in the User Settings dialog in Q-CHECKER. (Default)
QCGUI	BOTH	GUI will be available in Q-CHECKER in both QT and CATIA versions.
	V1	... is available only in QT version.
	V2	... is available only in CATIA version. (Default)
QCBATCH	V1	Q-CHECKER batch run not integrated in CATIA.
	V2	Q-CHECKERQ-Checker batch run not integrated in CATIA. (Default)
	Explanation: Integrating the Q-CHECKER batch operation in CATIA speeds up processing. This integration uses an internal program level invisible to the user.	

Variable	Description:	
QCHECKER_EDM_PATH	Path setting for the QCHECKER_EDM_SAVE keyword	
QCHECKER_EDM_SAVE	Controlling an inquiry prompt asking about saving of models that have been processed by an EDM system.	
	1	<p>An inquiry prompt is displayed whether the processed model is to be saved or not.</p> <ul style="list-style-type: none"> • If with the keyword QCHECKER_EDM_PATH a path has been specified, the inquiry prompt is displayed only if the respective model was taken from the specified path. • If no path has been defined with the QCHECKER_EDM_PATH keyword, the inquiry prompt is displayed in any case.
	0	Q-CHECKER works as normal—no inquiry prompt is displayed.
TCTRACE	<p>Setting this variable activates the Q-CHECKER trace mode. Specify a file name as value, e.g. TCTRACE=/tmp/TCTRACE.log.</p> <p>Explanation: In Trace mode, significant program steps executed during Q-CHECKER check operation are written into a protocol file. The trace file enables the administrator to identify problems with check routines, files or elements that have occurred during check operation. This variable should not be set permanently, but only when the necessity arises.</p>	
QC_REPORTS_IN_SPECTREE	Display options for the internal check report (cf. HANDBUCH Q-CHECKER – ALLGEMEIN, section 4 <i>Internes Prüfprotokoll</i>)	
	NO	The internal check report is not displayed in the CATIA-specification tree, only in the browser for internal check profiles.
	YES	The internal check report is displayed in the CATIA-specification tree (for certain document types only) and in the browser for internal check profiles.
	SPECTREE_ONLY	<p>The internal check report is displayed only in the CATIA specification tree.</p> <p>This applies for certain document types only. In case the document type does not allow to display the check profile in the CATIA specification tree, the check protocol is displayed in the browser for internal check reports.</p>

**NOTE:**

In the standard installation, the QCADMIN path is user independent. The files in this directory can be used by all users.

QCUSER and QCREPORT should be set to the home directory of the respective user, since the files in this directory are user-dependent and therefore kept separate for each user.

3.3.1.2 Q-CHECKER License declaration

Q-CHECKER can be extended by a separate module that enables database connections. Therefore an environment variable has to be set whether to activate or deactivate the database connection module. Depending on the availability of a license for the database connection module, set the QCLICDB variable as shown in the following table.

Product	License name	Value for QCLICDB
Q-CHECKER	TC-qcheckerV5	NO
Q-CHECKER DATABASE CONNECTION	TC-qcheckerV5-DB	YES

You can look the product name in the license document you received from TRANSCAT PLM or the reseller.

3.3.1.3 Defining the action options

To generate CATIA environments, different options are available:

Option:	Value	Description:
-new	YES	An existing environment with the same name will be replaced. (Recommended)
	NO	An environment with the same name will be not replaced, the existing environment will be maintained.
-desktop	YES	On the desktop an icon of the environment is created. (Recommended)
	NO	No icon of the environment is created on the desktop.
-a	GLOBAL	A global environment is created. Note: To create a global environment you need administrator rights. (Recommended)
	USER	A user environment is created.

3.3.1.4 Creating an environment



To create the above-mentioned CATIA environment execute the `QCheckerSetEnv.sh` shell script.

(1) Change to the installation directory

Example: `cd /catdat/tcsoft/qcheckerV5_2.10.1`

(2) Execute the script

Input: `./QCheckerSetEnv.sh`



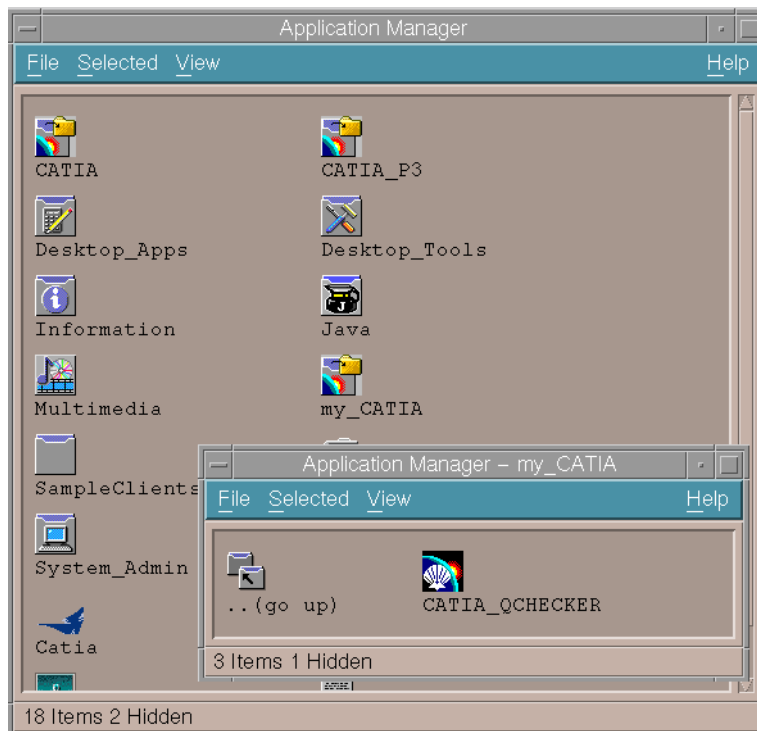
NOTE:

To create a global environment, you need administrator rights.



HINT:

The CATIA-QCHECKER icon (see screenshot below) will be displayed in the application manager in the `my_CATIA` directory only after re-login.



Continue with the installation in section 3.3.3 *Adapting the qcheckerV5 startup script* on page 33.

3.3.1.5 CATIA environment sample file

CATIA environment sample file

```

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

CATEnvironment=/catia5/R17/$OSDS:/catdat/tcsoft/qcheckerV5R17_2.3.1/load/$OSDS
CATInstallPath=/catia5/R17/$OSDS:/catdat/tcsoft/qcheckerV5R17_2.3.1/load/$OSDS
LIBPATH=/catia5/R17/$OSDS/code/bin:/catdat/tcsoft/qcheckerV5R17_2.3.1/load/$OSDS/code/
bin:$LIBPATH
LD_LIBRARY_PATH=/catia5/R17/$OSDS/code/bin:/catdat/tcsoft/qcheckerV5R17_2.3.1/load/$OSDS/
code/bin:$LD_LIBRARY_PATH
LD_LIBRARYN32_PATH=/catia5/R17/$OSDS/code/bin:/catdat/tcsoft/qcheckerV5R17_2.3.1/load/$OSDS/
code/bin:$LD_LIBRARYN32_PATH
SHLIB_PATH=/catia5/R17/$OSDS/code/bin:/catdat/tcsoft/qcheckerV5R17_2.3.1/load/$OSDS/code/
bin:$SHLIB_PATH
CATICPath=/catia5/R17/$OSDS/code/productIC:/catdat/tcsoft/qcheckerV5R17_2.3.1/load/$OSDS/
code/productIC
CATCommandPath=/catia5/R17/$OSDS/code/command:/catdat/tcsoft/qcheckerV5R17_2.3.1/load/$OSDS/
code/command
CATDictionaryPath=/catia5/R17/$OSDS/code/dictionary:/catdat/tcsoft/qcheckerV5R17_2.3.1/load/
$OSDS/code/dictionary
CATDocView=/catia5/R17/$OSDS/doc:/catdat/tcsoft/qcheckerV5R17_2.3.1/load/$OSDS/doc

CATReffilesPath=/catia5/R17/$OSDS/reffiles:/catdat/tcsoft/qcheckerV5R17_2.3.1/load/$OSDS/
reffiles
CATFontPath=/catia5/R17/$OSDS/resources/fonts:/catdat/tcsoft/qcheckerV5R17_2.3.1/load/$OSDS/
resources/fonts
CATGalaxyPath=/catia5/R17/$OSDS/resources/galaxy:/catdat/tcsoft/qcheckerV5R17_2.3.1/load/
$OSDS/resources/galaxy
CATGraphicPath=/catia5/R17/$OSDS/resources/graphic:/catdat/tcsoft/qcheckerV5R17_2.3.1/load/
$OSDS/resources/graphic:/catia5/R17/$OSDS/resources/graphic/icons:/catdat/tcsoft/
qcheckerV5R17_2.3.1/load/$OSDS/resources/graphic/icons:/catia5/R17/$OSDS/resources/
graphic/figures:/catdat/tcsoft/qcheckerV5R17_2.3.1/load/$OSDS/resources/graphic/
figures:/catia5/R17/$OSDS/resources/graphic/splashscreens:/catdat/tcsoft/
qcheckerV5R17_2.3.1/load/$OSDS/resources/graphic/splashscreens:/catia5/R17/$OSDS/
resources/graphic/symbols:/catdat/tcsoft/qcheckerV5R17_2.3.1/load/$OSDS/resources/
graphic/symbols:/catia5/R17/$OSDS/resources/graphic/textures:/catdat/tcsoft/
qcheckerV5R17_2.3.1/load/$OSDS/resources/graphic/textures
CATMsgCatalogPath=/catia5/R17/$OSDS/resources/msgcatalog:/catdat/tcsoft/qcheckerV5R17_2.3.1/
load/$OSDS/resources/msgcatalog
CATFeatureCatalogPath=/catia5/R17/$OSDS/resources/featurecatalog:/catdat/tcsoft/
qcheckerV5R17_2.3.1/load/$OSDS/resources/featurecatalog
CATDefaultCollectionStandard=/catia5/R17/$OSDS/resources/standard:/catdat/tcsoft/
qcheckerV5R17_2.3.1/load/$OSDS/resources/standard
CATKnowledgePath=/catia5/R17/$OSDS/resources/knowledge:/catdat/tcsoft/qcheckerV5R17_2.3.1/
load/$OSDS/resources/knowledge
CATStartupPath=/catia5/R17/$OSDS/startup:/catdat/tcsoft/qcheckerV5R17_2.3.1/load/$OSDS/
startup

```

CATIA environment sample file (continued)

```

CATW3ResourcesPath=/catiaV5/R17/$OSDS/docs:/catdat/tcsoft/qcheckerV5R17_2.3.1/load/$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/$OSDS/code/bin:/catdat/tcsoft/qcheckerV5R17_2.3.1/load/$OSDS/code/bin:/
catiaV5/R17/$OSDS/code/command:/catdat/tcsoft/qcheckerV5R17_2.3.1/load/$OSDS/code/
command:$JAVA_HOME/bin:$PATH
QCPATH=/catdat/tcsoft/qcheckerV5R17_2.3.1
QCDOC=/catdat/tcsoft/qcheckerV5R17_2.3.1/docV5
QCHTML=/catdat/tcsoft/qcheckerV5R17_2.3.1/htmlV5
QCLOAD=/catdat/tcsoft/qcheckerV5R17_2.3.1/load/aix_a/code/bin
QCADMIN=/catdat/tcsoft/qcheckerV5R17_2.3.1/adminV5
QCUSER=\$USER_HOME/qcuserV5
QCREPORT=\$USER_HOME/qcreportV5
QCLICDB=NO
QCGUI=V2
QCBATCH=V2
QCLANGCAT=NO

```

3.3.2 Extending an existing CATIA environment

To extend an existing CATIA environment, the `QCheckerEnv.sh` and `QCheckerEnv.csh` shell scripts are supplied with Q-CHECKER.

Below is an excerpt of an environment file using sample values. The portions printed in bold-face have to be adjusted to the actual paths and desired settings. The adjustments are explained in detail in the following subsections.

```
set +u

QCPATH=/catdat/tcsoft/qcheckerV5R17_2.10.1
\export QCPATH

QCDOC=${QCPATH}/docV5
\export QCDOC

QHTML=${QCPATH}/htmlV5
\export QHTML

QCLOAD=${QCPATH}/load/$OSDS/code/bin
\export QCLOAD

QCADMIN=${QCPATH}/adminV5
\export QCADMIN

QCUSER=$USER_HOME/qcuserV5
\export QCUSER

QCREPORT=$USER_HOME/qcreportV5
\export QCREPORT

QCLICDB=NO
\export QCLICDB

QCGUI=V2
\export QCGUI

QCBATCH=V2
\export QCBATCH

QCLANGCAT=NO
\export QCLANGCAT
```

**NOTE:**

When using Q-CHECKER V4 and V5 or more than one version of Q-CHECKER V5 in parallel, we strongly recommend to use separate user and report directories for each Q-CHECKER version.

Keeping the QCHECKER.usr files and check reports in separate directories prevents files from being overwritten and helps you to distinguish between check protocols of different origin.

Example:

```
\$USER_HOME/qcuserV4
\$USER_HOME/qcuserV5
```

3.3.2.1 Adapting the declarations to existing directories

The entries shown in the example above are only sample values. Adjust them where necessary.

Variable	Description:	
QCPATH	Path where Q-CHECKER is installed (identical to the QCHECKER_INSTALLATION variable)	
QCDOC	Path to the Q-CHECKER manuals	
QHTML	Path to the Q-CHECKER HTML online help	
QCLOAD	Path to the Q-CHECKER load modules	
QCADMIN	Path to the administration files	
QCUSER	Path to user check profiles	
QCREPORT	Path to check reports	
QCLICDB	Q-CHECKER License declaration (section 3.3.2.2 <i>Q-Checker License declaration</i>)	
QCLANGCAT	YES	Q-CHECKER language identical with CATIA language—for the Q-CHECKER-supported languages German, English and French. For other languages Q-CHECKER is opened in English.
	NO	Q-CHECKER language settings can be adjusted in the User Settings dialog in Q-CHECKER. (Default)

Variable	Description:	
QCGUI	BOTH	The Q-CHECKER GUI will be available in Q-CHECKER in both QT and CATIA versions.
	V1	... is available only in QT version.
	V2	... is available only in CATIA version. (Default)
QCBATCH	V1	Q-CHECKER batch run not integrated in CATIA.
	V2	Q-CHECKER Q-Checker batch run not integrated in CATIA. (Default)
	Explanation: Integrating the Q-CHECKER batch operation in CATIA speeds up processing. This integration uses an internal program level invisible to the user.	
QCHECKER_EDM_PATH	Path setting for the QCHECKER_EDM_SAVE keyword	
QCHECKER_EDM_SAVE	Controlling an inquiry prompt asking about saving of models that have been processed by an EDM system.	
	1	<p>An inquiry prompt is displayed whether the processed model is to be saved or not.</p> <ul style="list-style-type: none"> If with the keyword QCHECKER_EDM_PATH a path has been specified, the inquiry prompt is displayed only if the respective model was taken from the specified path. If no path has been defined with the QCHECKER_EDM_PATH keyword, the inquiry prompt is displayed in any case.
	0	Q-CHECKER works as normal—no inquiry prompt is displayed.
TCTRACE	<p>Setting this variable activates the Q-CHECKER trace mode. Specify a file name as value, e.g. TCTRACE=/tmp/TCTRACE.log.</p> <p>Explanation: In Trace mode, significant program steps executed during Q-CHECKER check operation are written into a protocol file. The trace file enables the administrator to identify problems with check routines, files or elements that have occurred during check operation. This variable should not be set permanently, but only when the necessity arises.</p>	

**NOTE:**

- In the standard installation, the QCADMIN path is user independent. The files in this directory can be used by all users.

You may want to locate the QCADMIN directory on a file server to be accessible from all workstations.

- QCUSER and QCREPORT should be set to the home directory of the respective user, since the files in this directory are user-dependent and therefore kept separate for each user.

3.3.2.2 Q-CHECKER License declaration

Q-CHECKER can be extended by a separate module that enables database connections. An environment variable has to be set whether to activate or deactivate the database connection module. Set the QCLICDB variable as shown in the following table, depending on the availability of a license for the database connection module,

Product	License name	QCLICDB
Q-CHECKER	TC-qcheckerV5	NO
Q-CHECKER DATABASE CONNECTION	TC-qcheckerV5-DB	YES

You can look up the product name in the license document you received from TRANSCAT PLM or the reseller.

3.3.2.3 Starting CATIA with Q-CHECKER environment



To integrate Q-CHECKER in an existing CATIA environment, follow these steps:

- (1) Set the CATIA environment (here: CATIA default environment)

Example: `./transcat/CATIAv5r17/CATEnv/CATIA_P3.V5R17.B17.sh`

- (2) Set the Q-CHECKER environment

Example: `./catdat/tcsoft/qcheckerV5R17_2.1.1/QCheckerEnv.sh`

- (3) Start CATIA

Input: `CNEXT`

Continue with the installation according to section 3.3.2.2 *Q-Checker License declaration*.

3.3.3 Adapting the qcheckerV5 startup script

In the startup script, adapt the `QCHECKER_PATH` variable to the actual path names (printed in boldface in the example below).

```
#!/bin/ksh
#-----
#
#               Q-CHECKER
#           (C) TransCAT PLM GmbH & Co. KG
#
#               Am Sandfeld 11c
#               76149 Karlsruhe
#               Tel.: +49-721-9 70 43 - 0
#-----
#
# Set the path name or the directory where the QCHECKER and
# the load modules are installed.
#
# for example:
#
# export QCHECKER_PATH          = "/catdat/tcsoft/qcheckerV5"
# export QCHECKER_LOAD_PATH    = "$QCHECKER_PATH/load/${CATIA_OS}"
#-----
#
export QCHECKER_PATH="/catdat/tcsoft/qcheckerV5R17_2.10.1"
export QCHECKER_LOAD_PATH="$QCHECKER_PATH/load/${CATIA_OS}"
export QCHECKER_LOAD_JAVA="$QCHECKER_PATH/load/"

...

qchecker_show_pdq ()
{
# Enter the program and document that should be displayed when clicking on
# the PDQ help icon on the Q-Checker start panel. This functionality is
# optional and not required to run Q-Checker! Example:
# netscape "/catdat/tcsoft/qcheckerV5R17_2.10.1/docV5/pdq_help.html" &
# acroread "/catdat/tcsoft/qcheckerV5R17_2.10.1/docV5/pdq_help.pdf" &
```

4 Language Selection

Q-CHECKER supports the following languages: English (EN), German (DE), French (FR), Japanese (JP). The language setting is applied to the GUI, screen output and newly created check protocols.

4.1 Language specification for the first program start

In the `QCHECKER.par` file, the language to be used for the first Q-CHECKER session can be specified.

See also ADMINISTRATION MANUAL, section 5 *QCHECKER.par file—Q-Checker General Settings*, page 20.

4.2 Language selection by the user

On the first start, the `QCHECKER.user` user file is created. This file stores the user-defined language settings and other user-specific settings. By default, the file is located in the home directory of the respective user (or as specified in the `QCUSER` environment variable).

The language setting can be changed by setting the `qchecker.USER_LANGUAGE` variable to the desired value.

```
qchecker.USER_LANGUAGE
```

This setting can be changed manually using a text editor. After saving this file and restarting Q-CHECKER, the selected language will be applied.

When using the QT GUI, the language also can be changed interactively using the Q-CHECKER option menu. You need to restart Q-CHECKER for the change to take effect. Further information on changing the language can be found in HANDBUCH „Q-CHECKER V5 ALLGEMEIN“ (Kapitel Interaktives Arbeiten in CATIA – Startfenster – Punkt Schalter „Q-CHECKER-Optionen bearbeiten“).

5 Enrolling licenses

Q-CHECKER uses the same *LUM* license system as used for CATIA. Two types of licenses are available:

Nodelock	Password valid only on one computer (tied to the hardware)
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 a WINDOWS PC only by users having administrator rights.

5.1 License request

To ensure that your license request is processed as quickly as possible, we ask you to send your license request using the online forms at

<http://www.transcat-plm.com/lizenz>

The required Target ID can be retrieved using one of the following commands:

Operation system	Command	Sample pattern of a target ID
IBM AIX	<code>uname -m</code>	009481814C00
IBM AIX on P5 Series Workstation	<code>/usr/opt/ifor/ls/bin/i4target -O</code>	9481768C
SGI IRIX (FlexLM Host ID)	<code>lmhostid</code>	6909b894
HP-UX (Permanent Target ID)	<code>/var/lum/i4target</code>	ffff28ea
SUN SOLARIS	<code>hostid</code>	807fe3ee
MICROSOFT WINDOWS (Win32 MAC)	<code>i4target</code>	5DDE26F2
LINUX (MAC/LLA Address)	<code>i4target -O</code>	557cd770
Cluster	<code>i4blt -H s -N cluster_name</code>	9c1bb2a7e1a8.8d.41.d1 .9c.4c.00.00.00

5.2 Installation of Nodelock licenses

The `nodelock` password must be added to the `nodelock` file using a text editor. This file can be found in one of the following directories, depending on your operating system:

Operation system	Directory
IBM AIX	<code>/var/ifor</code>
HP-UX	<code>/var/lum</code>
SGI	<code>/var/lum</code>
SUN	<code>/var/lum</code>
WINDOWS 2000/XP	<code>c:\Documents and Settings\All Users\Application Data\IBM\LUM</code>



Adding nodelock licenses on UNIX

- (1) Change to root user `su -root`
- (2) Change to password directory `cd /var/ifor` (on AIX)
`cd /var/lum` (on SGI, HP, SUN)
- (3) Create or edit the `nodelock` file `vi nodelock`
- (4) Add new lines at the end of the file `Esc G o`
(vi command)
- (5) Add the password text (see below)
- (6) Save the file. `Esc W q`
- (7) Set permissions for the file `chmod 644 nodelock`

Inserting the password text

In the license e-mail from Transcat PLM, you can find a text similar to the following example:

Copy the following 2 lines into your `nodelock` file:

```
# TransCAT: TC-qcheckerV5, Version 2.x, gueltig bis 31.12.2037
7db765b90080.02.81.96.00.18.00.00.00 64tkq3wfzxi2gzci5j7t8p49keaa "" "2"
```

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

To enroll nodelock licenses on WINDOWS, open the `nodelock` file from the password directory (see above) using a text editor (z. B. WORDPAD). If no `nodelock` file does yet exist, create the file using a text editor. Insert the two lines for the password into the `nodelock` file, as described above for UNIX.



NOTE:

The `nodelock` file has no filename extension, neither for UNIX nor for WINDOWS.

Some text editors automatically add a filename extension such as `.txt`. Make sure the `nodelock` filename has no extension. Rename the file if necessary.

5.3 Installation of concurrent licenses

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

When entering license keys, *LUM* License Manager must be installed, configured and activated. To enter concurrent license keys, you can use

- the *i4blt Command Line Interface* (all operating systems), or
- the *Graphic User Interface* (requires *LUM* version 4.6.5, earlier versions can be used on WINDOWS and AIX only).

For further information please refer to the *LUM* documentation, section *Using License Use Management Runtime*.



NOTE:

A license can be entered

- on UNIX workstations only by the Root User,
- on a WINDOWS PC only by users having administrator rights.

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

Operation system	Directory
IBM AIX	<code>/usr/opt/ifor/bin</code>
HPUX	<code>/var/lum</code>
SGI IRIX	<code>/var/lum</code>
SUN SOLARIS	<code>/var/lum</code>
MICROSOFT WINDOWS 2000/XP	<code>X:\ifor\WIN\BIN</code> (replace X with the drive where <i>LUM</i> is installed)

Enrolling a concurrent license

For registration the following methods are available:

(a) Automatic registration

If you received the license certificate as an e-mail attachment, automatic registration is recommended.

To install the license, save the license file on the *LUM* server in a directory of your choice. Enter the command

```
i4blt -a -f filename
```

Replace *filename* with the path and name of the license file on the *LUM* server.

(b) Registration using the IMPORT function of the *i4blt* GUI:

After starting the *i4blt* GUI, the license certificate file can be registered using the *Import* function.



Step-by-step instruction:

- (1) Start the *i4blt* tool.
- (2) Select menu *Products > Single product ...*. The *Enroll Product* window appears.
- (3) Press the *Import* button. The *Import* dialog appears.
- (4) Select the license file and press *OK* to confirm.
- (5) Exit the *Enroll Product* by clicking the *OK* button.

6 Installing Check Profiles

Q-CHECKER relies on check profiles, in which the checks are defined.

Q-CHECKER users checking CAD data for compliance with the requirements of an OEM (Original Equipment Manufacturer) can receive the latest check profiles from their respective OEM. The Q-CHECKER website links to the online resources of some OEMs (login required) and also a number of check profiles for direct download.

<http://www.q-checker.com> > Downloads > Q-CHECKER V5 > Check Profiles

If you cannot find the required check profiles on our website, please contact TRANSCAT PLM:

q-checker@transcat-plm.com



Step-by-step instruction:

(1) If you received a file with the extension `.tgz` or `.taz`, rename the file as follows:

- rename `.tgz` to `.tar.gz`: `mv *.tgz *.tar.gz`
- rename `.taz` to `.tar.Z`: `mv *.taz *.tar.Z`

(2) Place the archive file (in the example `profile.tar.gz`) in the Q-CHECKER-adminV5 directory, e.g.

```
cp profile.tar.gz ../qcheckerV5_2.10.1/adminV5
```

(3) Change to the Q-CHECKERadminV5 directory, e.g.

```
cd ../qcheckerV5_2.10.1/adminV5
```

(4) Decompress and unpack the archive file, e.g.

```
gzip -d -c profile.tar.gz | tar -xvf -
```

or, for files with `.tar.Z` extension,

```
uncompress profile.tar.Z | tar -xvf -
```



NOTE:

We recommend to decompress and unpack these archive files directly on a UNIX system and not on WINDOWS. Some archive tools running on WINDOWS modify the contents of archive files, making them unreadable on UNIX.

When unpacking, an environment directory containing all required files is placed in the target directory. The new environment will be available after Q-CHECKER restart. The contained check profiles will be available as standard profiles.

7 Troubleshooting



This section provides troubleshooting information for the following problems:

- On Windows, the Q-Checker icon in Catia is visible, but Q-Checker cannot be started.
- No Q-Checker icon in Catia
- On Windows, the Q-Checker setup routine aborts.
- On UNIX, Q-Checker does not start and displays the error message “Can't find libCATGeometricObjects.a”
- Q-Checker license cannot found



Problem 1

On WINDOWS, the Q-CHECKER icon in CATIA is visible, but Q-CHECKER cannot be started.

Reason: The `qcheckerV5.vbs` startup script is a VISUAL-BASIC script (VB Script). An anti-virus software may block the execution of VB scripts.

Solution: Check whether the problem is caused by anti-virus software and change its configuration as necessary.



Problem 2

No Q-CHECKER icon in CATIA

Reasons and possible solutions: Check whether one or more of the following circumstances apply:

- System requirements not fulfilled: The CATIA configuration packages EI2 + MD2 + PM2 + SA2 and PX1 must be installed.
- CATIA has been started with a CATIA environment in which Q-CHECKER is not included.
- Wrong Q-CHECKER release; for example, Q-CHECKER for V5 R14 cannot be used with CATIA V5 R16.
- Icon is hidden

Check in CATIA whether the `QCheckerTB` is activated (*View menu > Toolbars*), or check in CATIA if Q-CHECKER has been loaded (*View menu > Toolbars > Customize > Commands tab*)

card; select *All Commands* from the value list on the left, and look up “Q-CHECKER” in the value list on the right).

- Check whether the Q-CHECKER icon is displayed for other document types (CATProduct, CATDrawing, CATPart).
- Check whether the Q-CHECKER icon is displayed when using the *PartDesign* workbench.
- Delete all CATSettings and restart CATIA.



Problem 3

On WINDOWS, the Q-CHECKER setup routine aborts.

Reason: In the WINDOWS registry, the keywords in the branch `HKEY_LOCAL_MACHINE\SOFTWARE\Dassault Systemes\B16\0` are missing.

- The `DEST_FOLDER` keyword must point to the CATIA installation directory.
- The `DEST_FOLDER_OSDS` keyword must point to the subdirectory `\intel_a` of the CATIA installation directory.

Solution:

- Add the respective keywords or values to the Windows registry (using the WINDOWS tool `regedit.exe`).
- Re-install CATIA.



Problem 4

On UNIX, Q-CHECKER does not start and displays the error message “Can't find libCATGeometricObjects.a”

Solution: Add an export command for the `LIBPATH` variable to the `qcheckerV5` script (the portion printed in boldface in the following excerpt from the `qcheckerV5` file).

The `echo $LIBPATH` command in the example is for testing purposes only and prints the value of `LIBPATH` to the console. You may delete this line after the problem is solved.

Excerpt from the qcheckerV5 file:

```
#-----
#
# Call the Q-CHECKER catia
#
#-----
if [ "${1}" = "-c" ]; then
if [ "${OSDS}" = "aix_a" ]; then
# replace dead_circumflex by asciicircum for QT
export DEAD_CIRCUM_KEY=`xmodmap -pke | grep dead_circumflex | head -1`
xmodmap -e "`echo ${DEAD_CIRCUM_KEY} | sed -e s/dead_circumflex/asciicircum/g`"

# replace dead_tilde by asciitilde for QT
export DEAD_TILDE_KEY=`xmodmap -pke | grep dead_tilde | head -1`
xmodmap -e "`echo ${DEAD_TILDE_KEY} | sed -e s/dead_tilde/asciitilde/g`"
fi

export LIBPATH=/usr/catiav5r16/B16/aix_a/code/bin:$LIBPATH
echo $LIBPATH

    "${QCHECKER_LOAD_PATH}"/TCAQChecker -c "${2}"

if [ "${OSDS}" = "aix_a" ]; then
xmodmap -e "`echo ${DEAD_CIRCUM_KEY}`"
xmodmap -e "`echo ${DEAD_TILDE_KEY}`"
fi
    exit
fi
#-----
```



Problem 5

Q-CHECKER license cannot found

Verifying the problem: Use the TCALIC application to verify the problem. The application simulates the Q-CHECKER license mechanism and allows to request *LUM* licenses and release them again. In order to get granted a license, TCALIC first looks for a nodelock license. If no nodelock license can be found, then in the network for a Concurrent license is searched. If available; the license is drawn.

- (1) Start at a UNIX or WINDOWS command prompt.
- (2) The TCALIC application is located in the Q-CHECKER load/<Betriebssystem>/code/bin directory. Change to this directory.
- (3) To run TCALIC, enter a command as follows:

```
TCALIC 5000 <Product ID> <Product Version>
```

Typical commands are

```
TCALIC 5000 2           for TC-qcheckerV5 license
TCALIC 5001 2           for TC-qcheckerV5-DB license
```

For the correct values of Product ID and Product Version, refer to your license certificate or the Basic License Tool (when using network licenses).



NOTE:

To use Q-CHECKER with database connection, both a TC-qcheckerV5 and a TC-qcheckerV5-DB license are required.

(4) TCALIC returns an output like the following:

```
*****
catadm-rsprog10:/catdat/tcsoft/qcheckerV5_2.10.1/load/aix_a/code/bin>TCALIC 5000 2

TCLIC try to get license for:
=====

Product ID: 5000
Product Version: 2

Try to get NODELOCKED license

tc_i4_ini_c: >tc_i4_ini_c: License not found in the database.<

License not granted
=====
```

In the example, a nodelock license was not found; the test failed (“License not granted”).

```
Try to get CONCURRENT license

License granted
=====

Type q to release the license
*****
```

In the example, a concurrent license was found and granted to TCALIC (“License granted”).

Press the **q** key to release the license.

Possible solutions: Verify the following issues:

- Is the license key registered correctly? cf. section 5 *Enrolling licenses* on page 35
- Are the license settings in the CATIA environment file correct? If you have no *TC-qcheckerV5-DB* license, the parameter `QCLICDB` must be set to `NO`.

TRANSCAT PLM on the internet

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