



Q-CHECKER V1.14.1

for CATIA® V4

INSTALLATION GUIDE



Symbols Used in the Manual

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

Warning symbol



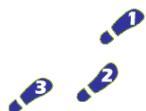
The warning symbol signals *critical moments* to which you should pay attention in order to avoid problems in your work process.

Tip symbol



The lamp symbol signals a *tip* that offers you practical experience to make your work easier.

Step Symbol



The step symbol signals that a *sequence of work operations* is given.

TRANSCAT PLM in the Internet:

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

Q-CHECKER in the Internet:

<http://www.q-checker.com/>

Q-CHECKER Hotline:

Phone: +49 721 97043 100

E-mail: q-checker@transcat-plm.com

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1. Software and Hardware Requirements

Hardware:	CATIA:
<ul style="list-style-type: none"> • IBM RS/6000 • HP • SGI • SUN 	<ul style="list-style-type: none"> • Minimal required version: V 4.2.4
Operation systems: (minimal required versions):	Required CATIA modules: <ul style="list-style-type: none"> • COM – CATIA Object Manager • DR2 – 2D Wireframe and Annotation
<ul style="list-style-type: none"> • AIX 4.3.3 (*) • HP-UX 10.20 • IRIX 6.5.16m • SOLARIS 2.6 	Additional CATIA modules—dependent on the elements to be checked: <ul style="list-style-type: none"> • DRA – Drafting • WF3 – 3D Wireframe • DRS – Draw–Space (2D/3D) Integration • SOE – Exact Solids • SUD – Surface Design • GSM – Generative Sheet Modeling • ELD – Electrical Device and Support Modeling
(*) For AIX: min. C Set ++ Runtime Version 5.x.x.x (xlC.aix43.rte)	If the Q-CHECKER option “Save current model temporarily“ for the criterion “Batch Criteria / Parameters for Batch Criteria“ is activated in the check profile, the following CATIA PTF must be installed: <ul style="list-style-type: none"> • – for CATIA 4.2.4 R1: UH05570 (SUN), UH05571 (HPUX), UH05572 (IRIX), UH05573 (AIX) • – for CATIA 4.2.4 R2: UH04706 (IRIX), UH04707 (SUN), UH04708 (HPUX), UH04709 (AIX) (For further information please refer to the user manual—chapter 4.4.1.)

Additionally required software

- **NETSCAPE NAVIGATOR**

The NETSCAPE NAVIGATOR is required to browse the Q-CHECKER HTML reports. To determine if you have NETSCAPE installed on your UNIX system, enter the command

```
which netscape .
```

This command displays the directory where NETSCAPE is installed.

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

The Acrobat Reader is required to browse the Q-CHECKER online-help. To determine if you have ADOBE ACROBAT READER installed on your UNIX system, enter the command

```
which acroread .
```

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

Supported Standards:

- VDA-Recommendation VDA-4955/2

2. Unpacking Files



NOTE:

To install and configure Q-CHECKER, you must be a “root” user.

If you are installing Q-CHECKER for the first time, for ease of installation of future Q-CHECKER releases it is recommended (but not mandatory) that you create the following Q-CHECKER installation directory:

```
/catdat/tcsoft.
```



STEPS

Unpacking comprises several steps. Dependent on the format of your install files, steps can be skipped.

(1) In case you have a `qcheckerV4_1113.tgz` file, proceed as follows:

Action	OS ¹	Example
Rename TAR archive	*	<code>mv qcheckerV4_1113.tgz qcheckerV4_1113.tar.gz</code>

¹ * stands for every CATIA V4 UNIX operation system

Continue with workstep (2).

(2) In case you have a `qcheckerV4_1113.tar.gz` file, proceed as follows:

Action	OS ¹	Example
Copy TAR archive into an installation directory of your choice.	*	<code>cp qcheckerV4_1113.tar.gz /catdat/tcsoft</code>
Change directory to the installation directory	*	<code>cd /catdat/tcsoft</code>
Unpack the archive file	*	<code>gzip -d -c qcheckerV4_1113.tar.gz tar -xvf -</code>



NOTE:

Unpack the compressed `*.gzip` file in a UNIX system and not under WINDOWS. Some of the WINDOWS packers during unpacking corrupt the content of the `*.gzip`, so that it can no more be used under UNIX.

3. The Created Directory Structure

Directory	OS ¹	Description
qcheckerV4_1.14.1/load/AIX	AIX	Program modules and message files for AIX
qcheckerV4_1.14.1/load/IRIX	SGI	Program modules and message files for SGI
qcheckerV4_1.14.1/load/HP-UX	HP	Program modules and message files for HP
qcheckerV4_1.14.1/load/SunOS	SUN	Program modules and message files for SUN
qcheckerV4_1.14.1/proc/	*	Procedure for IUA version
qcheckerV4_1.14.1/nedit/	*	Editor
qcheckerV4_1.14.1/docV4/lang_DE	*	Product documentation in PDF format in German
qcheckerV4_1.14.1/docV4/lang_EN	*	Product documentation in PDF format in English
qcheckerV4_1.14.1/docV4/lang_JP	*	Product documentation in PDF format in Japanese
qcheckerV4_1.14.1/htmlV4/lang_DE	*	HTML online-help in German
qcheckerV4_1.14.1/htmlV4/lang_EN	*	HTML online-help in English
qcheckerV4_1.14.1/htmlV4/lang_JP	*	HTML online-help in Japanese
qcheckerV4_1.14.1/adminV4/<Environment>	*	Administration files and profiles ²
qcheckerV4_1.14.1/adminV4/<Environment>/plugin	*	Q-CHECKER- <i>Plug-ins</i> (if existing) ²
qcheckerV4_1.14.1/adminV4/<Environment>/db	*	Database directory ²
qcheckerV4_1.14.1/qcheckerV4	*	Start script
qcheckerV4_1.14.1/readmeV4.txt	*	Latest program information and modifications
qcheckerV4_1.14.1/QCHECKER.dcls	*	Declaration file (see chapter 4.2)
qcheckerV4_1.14.1/QCHECKER.in	*	Example for batch input file

¹ * stands for every CATIA V4 UNIX operation system

² <Environment*> stands for the environment name.

Q-CHECKER is delivered with one environment named „Default“.

4. Adapting Q-CHECKER to the Local CATIA Installation

4.1 Creating the Link

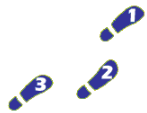
For ease of installation of new or updated Q-CHECKER releases, create the following link. This will speed up you installations and save administration time.

Action	OS ¹	Example
Change into the installation directory	*	<code>cd /catdat/tcsoft</code>
Create Link	*	<code>ln -sf qcheckerV4_1.14.1 qcheckerV4</code>

¹ * stands for every CATIA V4 UNIX operation system

4.2 Linking the CATIA Declaration File

The active CATIA environment must have access to the Q-CHECKER file system. In your local CATIA installation in an active declaration file (e. g.: `USRENV.dcls`) the directories for Q-CHECKER files have to be declared.



STEPS

- (1) Verify which `USRENV.dcls` file is the active one, using the command: `echo $CATMSTR`.
- (2) Open this `USRENV.dcls` file.
- (3) Insert with the command `INCLUDE` the following line (see below) and adapt the directory name (gray marked).

```
* -----*/
/* Q-Checker */
/* -----*/
INCLUDE ( '/catdat/tcsoft/qcheckerV4/QCHECKER.dcls ' ) ;
/* -----*/
```

4.3 Adapting the CATIA Declaration File



TIP:

If you have installed Q-CHECKER in the directory `/catdat/tcsoft/`, you do not need to make any modifications to the `QCHECKER.dcls` file.

Adapt in the `QCHECKER.dcls` file the directory names (marked **gray** in the following below file excerpt) to your local Q-CHECKER installation.



NOTE:

All paths may not be longer than 44 characters.

```

/* ----- */
/* QCHECKER - IUA Declarations for PROC and LOAD          */
/* ----- */

catia.IUAPROC   = '/catdat/tcsoft/qcheckerV4/proc' ;
catia.IUAMODULE = '/catdat/tcsoft/qcheckerV4/load/$CATIA_OS' ;

/* ----- */
/* QCHECKER - PATH Declarations                          */
/* ----- */

alias TRANSCAT = catia.QCHECKER_PATH:STRING;
alias QCPATH   = catia.QCHECKER_PATH='/catdat/tcsoft/qcheckerV4' ;

alias TRANSCAT = catia.QCHECKER_DOC:STRING;
alias QCDOC    = catia.QCHECKER_DOC='/catdat/tcsoft/qcheckerV4/docV4' ;

alias TRANSCAT = catia.QCHECKER_HTML:STRING;
alias QCHTML   = catia.QCHECKER_HTML='/catdat/tcsoft/qcheckerV4/htmlV4' ;

alias TRANSCAT = catia.QCHECKER_LOAD:STRING;
alias QCLOAD   = catia.QCHECKER_LOAD='/catdat/tcsoft/qcheckerV4/load/$CATIA_OS' ;

alias TRANSCAT = catia.QCHECKER_ADMIN:STRING;
alias QCADMIN  = catia.QCHECKER_ADMIN='/catdat/tcsoft/qcheckerV4/adminV4' ;

alias TRANSCAT = catia.QCHECKER_USER:STRING;
alias QCUSER   = catia.QCHECKER_USER='$HOME' ;

alias TRANSCAT = catia.QCHECKER_REPORT:STRING;
alias QCREPORT = catia.QCHECKER_REPORT='$HOME' ;

/* ----- */
/* QCHECKER - Licenses          (YES / NO)                */
/* ----- */

alias TRANSCAT = catia.QCHECKER_LICENSE_GEOMETRY:STRING;
alias QCLICGEO = catia.QCHECKER_LICENSE_GEOMETRY='YES' ;

alias TRANSCAT = catia.QCHECKER_LICENSE_STRUCTURE:STRING;
alias QCLICSTR = catia.QCHECKER_LICENSE_STRUCTURE='YES' ;

alias TRANSCAT = catia.QCHECKER_LICENSE_DATABASE:STRING;
alias QCLICDB  = catia.QCHECKER_LICENSE_DATABASE='NO' ;

/* ----- */
/* QCHECKER - For better Performance                      */
/* ----- */

...

```

**NOTE:**

If you install on your computer both Q-CHECKER V4 and V5 version, you should create separate user and report directories for each version.

If the `QCHECKER.usr` files and the check reports are stored in separate directories (e.g. `$USER/qcuserV4` and `$USER/qcuserV5`), this will facilitate to distinguish between the different report files and will prevent that files accidentally will overwrite one another.

4.3.1 Adapt Declaration File to the Local Directories

The files required by Q-CHECKER are grouped in different directories. The installation directory is declared with the `QCPATH` variable. In the TRANSCAT PLM standard installation the other directories are direct subdirectories of the installation directory. All these directories are declared in the `QCHECKER.dcls` file by variables (see the table below). If the user wishes to use other directories or subdirectories, the path declarations of these variables must be changed.

Variable	Description
• <code>QCPATH</code>	Q-CHECKER installation path
• <code>QCDOC</code>	Q-CHECKER documentation files path
• <code>QCHTML</code>	HTML online-help path
• <code>QCLOAD</code>	Load modules path
• <code>QCADMIN</code>	Administrator files path
• <code>QCUSER</code>	User profiles path
• <code>QCREPORT</code>	Report files path

**NOTE:**

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

As `QCUSER` and `QCREPORT` path should used the home directory of the respective user, since the files in this directory are user dependent and should be separate for each user.

4.3.2 Q-CHECKER License Declaration

Q-CHECKER consists of 3 modules.

Variable	Description
• catia.QCHECKER_LICENSE_GEOMETRY	License for the geometry module
• catia.QCHECKER_LICENSE_STRUCTURE	License for the structure module
• catia.QCHECKER_LICENSE_DATABASE	License for the database module

In the `QCHECKER.dcls` file it is indicated which license is to be used by Q-CHECKER with the program start. Dependent on the acquired license, please set the 3 variables to *YES* or *NO* corresponding to the following table, containing the relation between the product name and the settings of the module variables.

As default values of these variables in the `QCHECKER.dcls` file are set *YES, YES, NO*, what corresponds to the product *“TC-qchecker-all”*.

Please take the product name from the license certificate, received from TRANSCAT PLM or your Q-CHECKER reseller. Additionally, you can find the product name at the end of the license mail, sent by TRANSCAT PLM.

Product name	xxx.GEOMETRY	xxx.STRUCTURE	xxx.DATABASE
TC-qchecker-all	YES	YES	NO
TC-qchecker-all-DB	YES	YES	YES

4.4 Linking the “qcheckerV4” Start Script

In order to be able to start Q-CHECKER from every directory, the script must be executable from every directory (without path indication).

This can be assured in one of the following ways:

- Create a link to the script in one of the directories referenced by the `$PATH` variable,
- or expand the `$PATH`-variable.

These possibilities will be described in the following.

- **Creating the link**

Action	OS ¹	Example
Change to a directory referenced by the \$PATH variable (e.g.: /usr/bin).	*	cd /usr/bin
Create link	*	ln -sf /catdat/tcsoft/qcheckerV4/qcheckerV4 qcheckerV4

¹ * stands for every CATIA V4 UNIX operation system

- **Expanding the \$PATH variable**

Add in an appropriate file (for example in the `.profile` file) the following lines:

```
PATH=$PATH:/catdat/tcsoft/qcheckerV4
export PATH
```

4.5 Adapting the Q-CHECKER Start Script “qcheckerV4”



TIP:

If you have installed Q-CHECKER in the directory `/catdat/tcsoft/` , you do not need to make any modifications to the `qcheckerV4` file.

Adapt in the start-script the directory name (gray marked) for the `QCHECKER_PATH` to your local installation.

```
#!/bin/ksh
#-----
#                               Q-CHECKER
#                               (C) TransCAT GmbH & Co. KG
#                               Bismarckstrasse 45
#                               76133 Karlsruhe
#                               Tel.: +49-721-91231-0
#-----
# Set the path name or the directory where the QCHECKER and
# the load modules are installed.
#
# for example:
# export QCHECKER_PATH          = "/catdat/tcsoft/qcheckerV4"
# export QCHECKER_LOAD_PATH     = "$QCHECKER_PATH/load/$CATIA_OS"
#-----
export QCHECKER_PATH="/catdat/tcsoft/qcheckerV4"
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/qcheckerV4/docV4/pdq_help.html" &
# acroread "/catdat/tcsoft/qcheckerV4/docV4/pdq_help.pdf" &
```

4.6 Selecting the Language

The Q-CHECKER supports German (*DE*), English (*EN*) and Japanese (*JP*).

An alteration of the selected language affects the user interface, the soft copy and the check reports.

4.6.1 Language Specification for the First Program Start

The `QCHECKER.par` file contains the setting for the language, in which Q-CHECKER is opened when started for the first time.

```
qchecker.DEFAULT_LANGUAGE = DE   (German)
qchecker.DEFAULT_LANGUAGE = EN   (English)
qchecker.DEFAULT_LANGUAGE = JP   (Japanese)
```

See also in the Q-CHECKER User Manual: chapter “Administration”—subchapter “QCHECKER.par file”.

4.6.2 Language Selection by the User

While starting Q-CHECKER for the first time, the `QCHECKER usr` file is created. In this file, the user-specific settings are stored (among others, the language setting). This file is stored, if no other settings have been made, in the home directory of the respective user.

The language setting in this file is made with the variable

```
qchecker.USER_LANGUAGE.
```

The value of this variable can be changed manually in the file by the means of an editor. The selected language will be applied after saving this file and restarting Q-CHECKER.

The language setting also can be changed interactively by the user, using the Q-CHECKER *Options* menu. To apply the change in the language selection, in this case too, Q-CHECKER needs to be restarted. For the interactive language selection by the user see also Q-CHECKER User Manual—chapter “Administration”, subchapter “QCHECKER.usr— User Settings”.

5. Entering the License Password

TRANSCAT PLM uses for Q-CHECKER the *LUM* license system, which is used also for CATIA licensing. Two types of licenses are offered:

License type	Description
<i>NODELOCK</i>	Password valid only on one computer (license is bound to the CPU number)
<i>CONCURRENT</i>	License is available in the network, license server is essential.



NOTE:

The entering of licenses in all platform cases can be made only by root-user.

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.q-checker.com/license>.

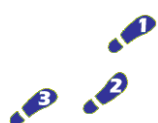
The CPU-ID will be output if you enter one of the following commands:

Platform	Command	Example of a CPU-ID
AIX	<code>uname -m</code>	009481764C00
-> on p5-Series Workstations	<code>/usr/opt/ifor/ls/bin/i4target -O</code>	9481768C
IRIX (FLEXlm host ID)	<code>lmhostid</code>	6909b894
HP-UX (Permanent Target ID)	<code>/var/lum/i4target</code>	ffff28ea
SOLARIS	<code>hostid</code>	807fe3ee
WINDOWS (win32mac)	<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

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

IBM:	<code>/var/ifor</code>
HP:	<code>/var/lum</code>
SGI:	<code>/var/lum</code>
SUN:	<code>/var/lum</code>



ENROLLING A NODELOCK LICENSE

Steps	OS ¹	Entries
(1) Change to user root	*	<code>su - root</code>
(2) Change to password directory	AIX IRIX HP SUN	<code>cd /var/ifor</code> <code>cd /var/lum</code> <code>cd /var/lum</code> <code>cd /var/lum</code>
(3) Create or edit the <i>nodelock</i> file	*	<code>vi nodelock</code>
(4) Add new lines at the end (vi command)	*	<code><ESC>Go</code>
(5) Incorporate password	*	(see example below)
(6) Save file (vi command)	*	<code><ESC>wq</code>
(7) Set right of file	*	<code>chmod 644 nodelock</code>

¹ * stands for every CATIA V4 UNIX operation system

In the license e-mail, sent by TRANSCAT PLM, you can find a text analogous to the following example:

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

```
# TRANSCAT: TC-qchecker-all, version 1.x, expiration date 12/31/2037
7db765b90080.02.81.96.00.18.00.00.00 64tkq3wfzxi2gzci5j7t8p49keaa " " "1"
```

For the step "*Incorporate password*", copy the last two lines, starting with the number sign # (including it), and insert these two lines in your `nodelock` file.

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 *ifor 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:

For the installation of the password you must be a root user.

The tools and entries for the license manager are contained 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 (NT/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:**

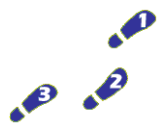
If you have got the license certificate as attachment, we recommend the automatic registration.

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	Explication
<code>i4blt -a -f filename</code>	, filename ' stands for to the path and name of the license file.

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

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



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 key '*OK*'.

- **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 on the screen is displayed in one line.)

Example:

```
i4blt -a -v "TransCAT 7db765b90080.02.81.96.00.18.00.00.00 ak9nui9b2ftjs" ##
-p "TC-qchecker 1 46pdi5veptf5wket9xriygpqnaaaa"
```

**NOTE:**

- Write the text in one line without a line break.
- The two number signs ## stand for one blank.

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

Note: The parameters in the example can be different from the parameters in your license certificate.

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

```
[LicenseCertificate]
Checksum=D08CE54292F1ECE4720A49A52ADC70E1
TimeStamp=382196610
VendorName=TransCAT
VendorPassword=chh5afnqs6jx6
VendorID=7db765b90080.02.81.96.00.18.00.00.00
ProductName=TC-qchecker-all
ProductID=1000
ProductVersion=1
ProductPassword=vmbif9d3s3vfcttqcpaiv83ug2qsaaa
ProductAnnotation=
LicenseStyle=concurrent
LicenseStartDate=02/05/2002
LicenseDuration=19114
LicenseEndDate=12/31/2037
LicenseCount=1
MultiUseRules=none
RegistrationLevel=3
TryAndBuy=No
SoftStop=No
TargetType=13
TargetTypeName=IBM AIX
TargetID=4fbf5a4c
DerivedLicenseStyle=
DerivedLicenseStartDate=
DerivedLicenseEndDate=
DerivedLicenseAggregateDuration=
```

6. CATIA Licenses

With starting the interactive CATIA session—dependent on the declaration file (e.g. `CATLIC.dcls`)—different licenses will be activated.

In the `CATLIC.dcls` file, there are basically the following entries:

License declarations	Explication
<code>catlic.LICENSE.REQUIRED</code>	For CATIA modules, to which this declaration was assigned, a licence must be available with the start of CATIA. Otherwise the CATIA session will not be started.
<code>catlic.LICENSE.OPTIONAL</code>	For all modules with this declaration CATIA tries to demand a license. If no license is available, CATIA will be started without these <i>OPTIONAL</i> licenses. <i>OPTIONAL</i> licenses can be made active or released by the interactive <i>LICENSE</i> function.
<code>catlic.LICENSE.DYNAMIC</code>	Modules with these declaration will be not activated automatically with the CATIA start. These modules are activated only by the interactive <i>LICENSE</i> function.

The licenses required for Q-CHECKER are listed in the chapter 1. *Software and Hardware Requirements*. To avoid license problems, we recommend to set all required modules to *REQUIRED* or *OPTIONAL*.

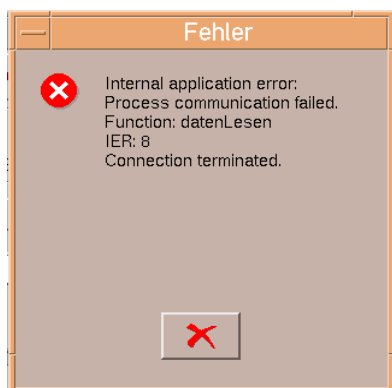
To provide a smooth batch-run of Q-CHECKER, we recommend to use the `catlic.CATUII.REQUIRED` or the `OPTIONAL` declaration.

Example of the `CATLIC.dcls` file:

```
/* License for CATIA Session */
CATLIC.LICENSE.REQUIRED = 'COMS410' ;
CATLIC.LICENSE.REQUIRED = 'DR2S410' ;
CATLIC.LICENSE.REQUIRED = 'WF3S410' ;
CATLIC.LICENSE.REQUIRED = 'DRSS410' ;
CATLIC.LICENSE.REQUIRED = 'SOES410' ;
CATLIC.LICENSE.REQUIRED = 'DRAS410' ;
CATLIC.LICENSE.REQUIRED = 'DROS410' ;
CATLIC.LICENSE.REQUIRED = 'SUDS410' ;

/* License for Utilities */
CATLIC.CATUII.OPTIONAL = 'COMS410' ;
CATLIC.CATUII.OPTIONAL = 'DR2S410' ;
CATLIC.CATUII.OPTIONAL = 'WF3S410' ;
CATLIC.CATUII.OPTIONAL = 'DRSS410' ;
CATLIC.CATUII.OPTIONAL = 'SOES410' ;
CATLIC.CATUII.OPTIONAL = 'DRAS410' ;
CATLIC.CATUII.OPTIONAL = 'DROS410' ;
CATLIC.CATUII.OPTIONAL = 'SUDS410' ;
```

If a required license is not available, an error message is displayed (see fig.), and the Q-CHECKER run will be terminated.



In the CATIA start window the following message on the missing license will be edited.

```
CATLIC008 LICENSING VIOLATION
The CATGEO routine GIRCSL cannot be called
(S/W Pd SL not found into used products).
Use appropriate product (ex: SOES410 ).
/catdat/tcsoft/qcheckerV4/qcheckerV4[153]: 15842 Terminated
```

If you do not have one or more of these modules licensed, ask your CATIA system administrator if the module(s) can be made available.

7. Verifying the Q-CHECKER Installation

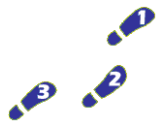


ATTENTION:

For checking your installation, you must be logged-in as a CATIA user.

Input	Result	Correction in case of wrong result
<code>catpath -l -A catia.iuamodule</code>	The directory, containing the IUA loading modules, will be displayed. Example: <code>/catdat/tcsoft/qcheckerV4/load/AIX</code>	Correct or include <code>QCHECKER.dcls</code> (see chapters 4.2 and 4.3)
<code>which qcheckerV4</code>	The directory of the Q-CHECKER start script will be displayed. Example: <code>/catdat/tcsoft/qcheckerV4/qcheckerV4</code>	Modify access to the start-script „qcheckerV4 “ (see chapter 4.4)—the correct path must be indicated.

8. Q-CHECKER Version Update



STEPS

To install a new Q-CHECKER version on a computer with an older Q-CHECKER version installed, a Q-CHECKER update is to be executed with the following steps:

Step	See chapter
(1) Untar the new version file into the desired target directory /catdat/tcsoft (into the directory where the old version is installed.)	2., 3.
(2) Create a link to the new version or modify the existing link.	4.1
(3) Adapt declaration file QCHECKER.dcls (not necessary, if Q-CHECKER is installed in the directory /catdat/tcsoft)	4.3, 0
(4) License declaration (not necessary, if you have a <i>Q-Checker-all</i> license)	4.3.2
(5) Adapt Q-CHECKER start script "qcheckerV4" (not necessary, if Q-CHECKER is installed in the directory /catdat/tcsoft).	0

9. Installing Check Profiles

For using Q-CHECKER, check profiles are necessary. The check profiles contain the requirements for the check-run.

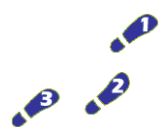
Users that work with Q-CHECKER in order to check CAD data to be transferred to OEMs (Original Equipment Manufacturers) can get the current profiles from the OEM or can downloading them from the TRANSCAT PLM web site

<http://www.q-checker.com>.

The download is free of charge. Before the first download, the user must register (under *Registration*). Please, note your user name and password exactly, you will need them again for every log-in for download. The passwords being encrypted on the server, TRANSCAT PLM has no control over the passwords. If the password once would be lost, a new registration will be required.

If there should occur download problems or the needed check profiles are not available on the web side, please address directly to TRANSCAT PLM:

q-checker@transcat-plm.com.



STEPS

Installing check profiles comprises 3 steps. Dependent on the format of your install files, the steps (1) and/or (2) can be skipped.

- (1) If the profile file is available as packed and compressed `*.taz` file, do first the following operation:

Action	OS ¹	Example
Rename TAR file	*	<code>mv *.taz *.tar.Z</code>

Continue with workstep (2).

- (2) If the profile file is available as `*.tar.Z` file, do the following operation:

Action	OS ¹	Example
Uncompress the TAR-archive	*	<code>uncompress *.tar.Z</code>

Continue with workstep (3).

- (3) To complete the profile installation, do following actions (they must be done in every case):

Action	OS ¹	Example
Copy TAR-archive into the admin directory	*	<code>cp *.tar ../qcheckerV4_1.14.1/adminV4</code>
Change into the admin directory	*	<code>cd ../qcheckerV4_1.14.1/adminV4</code>
Unpack archive file	*	<code>tar -xvf *.tar</code>

¹ * stands for every CATIA V4 UNIX operation system

While unpacking the profile archive, a new environment directory is created and the corresponding files are copied in the target directories. The new environment will be available after Q-CHECKER restart, the check-profiles in it will be available as standard profiles.

10. Troubleshooting



PROBLEM 1

The Q-CHECKER toolbar is available, but Q-CHECKER does not start.

In CATIA the following error message is displayed:
ERROR IN COMMAND

REASON

The Q-CHECKER load modules cannot be loaded. This could have several reasons.

VERIFICATION OF THE PROBLEM

- Start CATIA V4
- Select the CATIA function IUA – EXECUTE – CTRL ON
- Enter the command qchecker and select it in the procedure list
- The following error message should be displayed:

```
208: LOAD TCCADII ENTRY SHAREDCCR SHMID, SHMPTR, SEVERITY, MSG, IER
      LOAD MODULE CANNOT BE LOADED
```

SOLUTION

- Check that the path for catia.IUAMODULE in the file QCHECKER.dcls is correct.
Attention: The path (e.g. /catdat/tcsoft/qcheckerV4/load/\$CATIA_OS) should not be longer than 44 characters from the beginning till the end.
If Q-CHECKER is only installed locally on one machine the variable \$CATIA_OS can be replaced by AIX, HP-UX, IRIX or SunOS.
- Check that the path for the IUA-modules is displayed correctly. Therefore enter the command `catpath -l -A catia.iuamodule` on any UNIX shell.
- Check that the load modules in the directory `../qchecker.x.x.x/load/` have execute permissions (755).
- Check that the load modules have the correct size. Maybe they were damaged through the internet download or the Q-Checker gzip-file has been uncompressed on WINDOWS.
UNIX command: `sum` ; the result of this command is platform dependant!
Ask the Q-Checker hotline for the correct size.
- Depending on the CATIA installation it might be necessary to split the QCHECKER.dcls file into 2 different files. The CATIA related entries must be added to a Catia.dcls and the CATFRM entries to a CATFRM.dcls.
Such an installation is very rare. If you have checked all above points and you are not sure if you have such an installation please ask your CATIA business partner for help.

**PROBLEM 2**

No Q-CHECKER license found.

Q-CHECKER error message in CATIA:



Q-CHECKER error message in batch mode:

```

catadm@rsdemo9: /home/user/catadm>qcheckerV4 -b
*** OPTIONAL LICENSES REQUESTED ***
ALMC410 LICENSE OK

***** LICENSING CONFIGURATION *****
PRODUCT GRANTED ALMC410 = CATIA.All-in-One Mechanical Demo Configurati

Q-Checker Version: 1.7.4

(C) 2000
TransCAT GmbH & Co. KG
Karlsruhe
Germany

Q-Checker started in batch mode.

TransCAT licenses will be checked!
CATIA will be initialized!
tc_i4_ini_c: >tc_i4_ini_c: No servers available for this vendor.<

```

VERIFICATION OF THE PROBLEM

The licensing problem can be verified with the program TCLIC which is delivered with Q-CHECKER. The program simulates the licensing mechanism of Q-CHECKER and allows to grant and release LUM licenses.

The program TCLIC is stored in the directory .../load/<Operating system>/DLL .

To execute the program TCLIC enter the following command on a UNIX shell on the client machine:

TCLIC <Product ID> <Product Version>

TCLIC 1000 1 , if you have a TC-qchecker-all license

TCLIC 1003 1 , if you have a TC-qchecker-all-DB license

If you are not sure which license you have, refer to the license certificate or the Basic License Tool in case of concurrent licenses.

The output of the program is:

```

*****
*****
catadm-rsprog10:/catdat/tcsoft/qcheckerV4_1.14.1/load/AIX/DLL>TCLIC
1000 1

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

Product ID: 1000
Product Version: 1

    Try to get NODELOCKED license

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

License not granted
=====

    Try to get CONCURRENT license

License granted
=====

Type q to release the license
*****

```

In the above example a license for Q-CHECKER is requested. The request of the nodelock license failed (License not granted). The subsequent search for a concurrent license was successful and the license was granted. To release the license, type q.

SOLUTION

- Is the license key entered correctly? Refer to the installation guide for nodelock or concurrent license, chapter 5.
- Is the license correctly configured in the file QCHECKER.dcls? In case of a TC-qchecker-all license the database parameter must be set to NO.

**PROBLEM 3**

The Q-CHECKER batch mode interrupts with the error message on the CATIA start shell:

```
CATLIC006 NO PRODUCT GRANTED
CATLIC006 LICENSING REQUEST NOT SATISFIED
ABEND NUMBER U998
```

REASON

CATIA licenses can be declared for the interactive CATIA session and also for utilities. To use Q-CHECKER in batch mode the CATIA licenses must also be declared for the utilities.

SOLUTION

Declared the CATIA licenses also as `CATLIC . CATUII . OPTIONAL`. For further information refer to chapter 6.

**PROBLEM 4**

The Q-CHECKER check run (interactive and batch) interrupts with the error number U0999.

The message on the CATIA start shell is as followed:

```
-----
CATIA SOLUTIONS
VERSION 4 RELEASE 2

CATUTIL ENDED ....

Submitted utility : CATCLN
->Consult Output file name /tmp/pglPic for traces

EXECUTION SUCCESSFUL
-----
CATSYMB09: Symbol G7MRORG cannot be treated

CATTRACE FILE : /catroll/catiav4.catrace
CATSYMB09: Symbol G7MRORG cannot be treated

*****
* ERROR NUMBER : U0999 *
*****
```

REASON

Required CATIA PTF's are missing.

If the Q-Checker option "save current model temporarily" for the criterion "Batch Criteria / Parameters for Batch Criteria" is activated in the check profile the following CATIA PTF must be installed:

- for CATIA 4.2.4 R1
UH05570 (SUN), UH05571 (HUX), UH05572 (IRIX), UH05573 (AIX)
- for CATIA 4.2.4 R2
UH04706 (IRIX), UH04707 (SUN), UH04708 (HPUX), UH04709 (AIX)

This allows to perform the Q-Checker batch checks (CATCLEAN 1,2,3, Solid Updatable and View Update) on models which are loaded through VPM or LCA into CATIA.

Up until Q-Checker 1.9.2 a check was possible, but due to the temporary save of the model to run CATCLEAN the link to the PDM system was broken. An easy resave into the PDM system was therefore not possible. By using new routines this link is automatically rebuild.

SOLUTION

Install the above mentioned CATIA PTF's.

* * *