

Installation Instructions

SPIEGEL for CATIA ®

SPIEGEL

. Unpacking files i. e. data tapes

The program is generally delivered on CD-Rom or data tapes. It can also be downloaded from our homepage www.transcat.de/tcsoft.

- **Data on data tapes:**

Action	BS	Example
Switch to installation directory	*	cd /catdat/iua
Copy data to installation directory	AIX SGI HP	tar -xvf /dev/rmt0 tar -xvf /dev/tape tar -xvf /dev/rmt/0m

- **or Data as TAR-archive**

If the archive file is in `spiegel*.taz` format, (e. g. CD or Download):

Action	BS	Example
Rename TAR-Archive	*	mv spiegelxxx.taz spiegelxxx.tar.Z

If the archive file is in `spiegel*.tar.Z` format:

Action	BS	Example
uncompress TAR-Archive	*	uncompress spiegelxxx.tar.Z

Generally

Action	BS	Example
Put TAR-Archive into installation directory	*	cp spiegelxxx.tar /catdat/iua
Switch to installation directory	*	cd /catdat/iua
Unpack archive file	*	tar -xvf spiegelxxx.tar

SPIEGEL

2. Created directory structure

spiegel.*.*./doc/	*	Product documentation in MS-Word-Format
spiegel.*.*./load/AIX	AIX	Program-Module for AIX AIX.4.3.x und CATIA.4.2.0 or higher
spiegel.*.*./load/IRIX	SGI	Program-Module for SGI IRIX.6.5 und CATIA.4.2.0 or higher
spiegel.*.*./load/HP-UX	HP	Program-Module for HP CATIA.4.2.0 or higher
spiegel.*.*./load/SunOS	Sun	Program-Module for SunOS CATIA.4.2.0 or higher
spiegel.*.*./loadEN/*	*	english executables
spiegel.*.*./spiegel	*	Script to start the motfprozess
spiegel.*.*./proc/	*	IUA-Procedure
spiegel.*.*./msg	*	Message-file (all Modules)
spiegel.*.*./readme.txt	*	Latest program information and modifications
spiegel.*.*./SPIEGEL.dcls	*	CATIA-Declaration file

3. Adjust SPIEGEL-Program to the local listallation

The SPIEGEL-Program consists of a IUA-Module and a Motif-Module, which must both be installed.

Adjust CATIA declaration file

The directories for the SPIEGEL files must be declared in the local CATIA installation (e. g. USRENV.dcls).

The SPIEGEL.dcls file that comes along may be used for this purpose and can be combined into an active declaration file.

Entry into an active declaration file:

```
/* ----- */
/* SPIEGEL-Programm */
/* ----- */
INCLUDE ( ` /catdat/iua/spiegel.3.*/SPIEGEL.dcls ` );
/* ----- */
```

The *SPIEGEL.dcls* file must be adjusted to the local installation:

SPIEGEL

The paths for the IUA-procedure, the IUA-loadingmodule and the message file must be adjusted:

```
/* ----- */
/* IUA Programme                                     */
/* ----- */
catia.IUAPROC      = '/catdat/iua/spiegel.1.3.x/proc';
catia.IUAMODULE    = '/catdat/iua/spiegel.1.3.x/load/$CATIA_OS';
/* ----- */
/* MESSAGE-Datei                                     */
/* ----- */
catia.MESSAGE     = '/catdat/iua/spiegel.1.3.x/msg';
/* ----- */
```

Two paths can be declared for handling files in the SPIEGEL-Program. The SPIEGEL_DEFAULT_PATH indicates where the files, which are accessible to everyone, e. g. mirror and vehicle data.

The SPIEGEL_HOME_PATH indicates where the last user settings are being stored.

```
/*                                     */
/* directory for user independant data  */
Spiegel.SPIEGEL_DEFAULT_PATH:STRING;
Spiegel.SPIEGEL_DEFAULT_PATH='$HOME';

/* directory for user depending data   */
Spiegel.SPIEGEL_HOME_PATH:STRING;
Spiegel.SPIEGEL_HOME_PATH='$HOME';
```

The number of the pattern, which has been created during the calculation of the occultation can be defined with the following variable.

```
/* Nummer des zu verwendenden Pattern  */
Spiegel.SPIEGEL_PATTERN:INTEGER;
Spiegel.SPIEGEL_PATTERN=16;
```

SPIEGEL

The textstandard that is to be used, must be entered.

```
/*      Textstandard                                     */
Spiegel.SPIEGEL_TEXTSTANDARD:STRING;
Spiegel.SPIEGEL_TEXTSTANDARD=' ISO ';
```

The views that represent the screen can be scaled with the following factor:

```
/*      Scalingfactor                                   */
Spiegel.SPIEGEL_SCALING:REAL;
Spiegel.SPIEGEL_SCALING=0.5;
```

Please be sure that the defined paths exist in that form, e. g. by marking the defined path with the mouse and checking it with the ls command.

The directories may not exceed 44 characters.

Adapt the SPIEGEL start-script "spiegel"

Please adapt the directory names in the start-script to your local installation.

```
#!/bin/ksh
#-----
#
#              SPIEGEL
#              (C) TransCAT GmbH & Co. KG
#
#              Bismarckstrasse 45
#              76133 Karlsruhe
#              Tel.: +49-721-91231-0
#
#-----
#
# Set the path name or the directory where the SPIEGEL and
# the load modules are installed.
#
# for example:
#
# export SPIEGEL_PATH          = "/catdat/tcsoft/spiegel.1.3.x"
# export SPIEGEL_LOAD_PATH    = "$SPIEGEL_PATH/load/$CATIA_OS"
#-----
#
export SPIEGEL_PATH="/catdat/tcsoft/spiegel.1.3.2"
export SPIEGEL_LOAD_PATH="$SPIEGEL_PATH/load/$CATIA_OS"
#
```

SPIEGEL

In order to be able to start SPIEGEL, the script must be available. You can either copy the script in a directory referenced by the \$PATH-variable of the operating system or expand the \$PATH-variable.

Add for example the following line to the ".profile"-file:

```
PATH=$PATH:/catdat/tcsoft/spiegel.1.1.3.2
export $PATH
```

Some operation systems may have problems with CATIA, when the screen is split into numerous windows. This is depicted by a CATIA crash with an error message Uxxxx, as soon as a switch occurs to the *Adjust Mirrors* or *Display Contour* menu points.

E. g. the error occurred at IRIX.6.5 with CATIA.4.2.0 or at HP.10.2 with CATIA.4.2.0.

The error can be avoided in the SPIEGEL-Program, by setting the environment variable ***TC_SPIEGEL_ONE_SCREEN*** to **TRUE** (in the start script).

```
export TC_SPIEGEL_ONE_SCREEN =TRUE
```

The CATIA window is no longer split, the user can choose between the different views with the switch in the motif window.

SPIEGEL

4. Entering licence passwords

TransCAT GmbH & Co. KG uses the licensing system iFOR/LS (aka NetLS) for its software products. Three types of license are offered here:

nodelocked	Password is only valid on one computer (CPU-Number)
concurrent	Licence for network, Licenceserver required
use-once	Licence for single application of the product

Entering the licence is only possible as a **root-User** in all cases.

- **Installation of nodelocked Licences:**

Action	BS	Example
Change to User <i>root</i>	*	su - root
Change to Password directory	AIX SGI HP SUN	cd /usr/lib/netls/conf cd /var/ifor cd /var/opt/ifor cd /var/ifor
Create/ edit file <i>nodelock</i>	*	vi nodelock
Add new line at end (vi-command)	*	<ESC>Go
Enter Password	*	siehe Beispiel unten ..
Save file (vi-command)	*	<ESC>wq
Set access rights of files		chmod 644 nodelock

Example:

```
#-----  
#--          Passwoerter der Firma TransCAT Karlsruhe          --  
#-----  
  
# TransCAT: TC-product, Version x.x.x valid to: xx.xx.xxxx  
7db765b90080.02.81.96.00.18.00.00.00 kxqjgqmyrasemewkph3fctxds35s "3D" "3"
```


SPIEGEL

The prior example results in:

Enter vendor ID

```
ls_admin -a -v <vendor name> <vendor id> <target>
ls_admin -a -v "TransCAT" 7db765b90080.02.81.96.00.18.00.00.00 xyrfi4bapkh9e
```

Enter product password

```
ls_admin -a -l <lic.annot.> -p <vendor name> <name> <product password> <version>
ls_admin -a -l "3D" -p "TransCAT" "TC-vdacs" z6qxzfe5ttui35qkv2nb6kcufibaa72 "3"
```

Remark for SGI- and HP-customers

If you are using the concurrent licences, then copy the following root users onto the clients.

Platform:	file	From directory ...	Into directory ...
SGI	libi4shl.so	../load_sgi/DLL/	/usr/lib/
HP	libi4shl.sl	../load_hp/DLL/	/usr/lib/

Action	BS	Example
Sign in as Root-User	*	su - root
Switch to appropriate directory	SGI HP	cd Spiegel.1.3.1/load_sgi/DLL cd Spiegel.1.3.1/load_hp/DLL
Copy library into directory /usr/lib/	SGI HP	cp libi4shl.so /usr/lib/. cp libi4shl.sl /usr/lib/.
Change access rights to Read & Execute	SGI HP	chmod 555 /usr/lib/lib4shl.so chmod 555 /usr/lib/lib4shl.sl

SPIEGEL

5. Test installation

Warning: The user may have to sign in again before the test.

- **Test licence**

Input	Result	Correction if wrong result
<code>ls_admin -s -v "TransCAT"</code>	Vendor ID for TransCAT is displayed	Enter Vendor ID
<code>ls_admin -s -p "TransCAT"</code>	Licences are shown for product	Correct Licence

- **Test IUA**

Input	Result	Correction if wrong result
<code>catpath -l catia.iuaproc</code>	Directory containing the IUA-Procedures (/catdat/iua/Spiegel.1.3.1/proc)	Correct declaration file
<code>catpath -l catia.iuamodule</code>	Directory containing the IUA-loading modules (/catdat/iua/Spiegel.1.3.1/load_aix)	Correct declaration file
<code>catpath -l catia.message</code>	Directory containing the message file MSGVDA (/catdat/iua/Spiegel.1.3.1)	Correct declaration file
<code>catini -XM</code>	Starts CATIA	Correct CATIA Installation
<code>/IUA/EXECUTE</code> <code>/CTRL ON</code> Type Spiegel and select	SPIEGEL appears with the motif panel	error message for the Hotline at TransCAT GmbH & Co.KG +49 721 91231 35