Floating license system installation for DeskArtes Expert Series 8.0 programs

Index

About this document

This document explains the operations needed to configure the DeskArtes Expert Series programs to use the Reprise License Manager (RLM) floating license system, instead of the default DeskArtes nodelocked licenses.

The instructions in this document are written for the DeskArtes Expert Series version 8.0 installation packages, containing Reprise RLM version 3 license server and tools.

For further information about the Reprise RLM system you can check the Reprise end user manual at their web-site (http://www.reprisesoftware.com/RLM_Enduser.html).

The document is written using the 3Data Expert as an example, but the same instructions can be applied also for the other DeskArtes Expert Series programs (Dimensions Expert, View Expert and Design Expert).
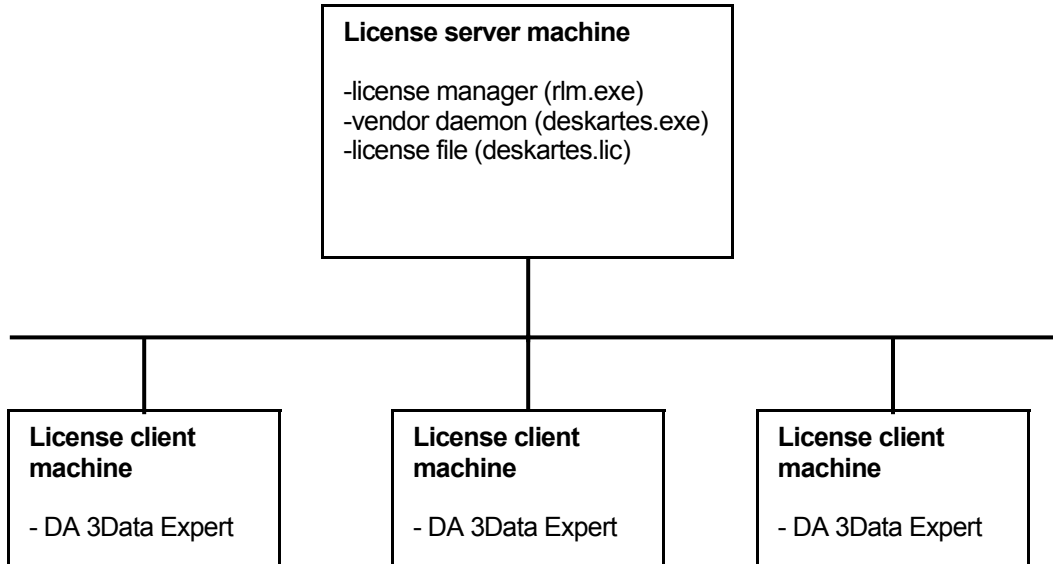
Requirements

The machines running the DeskArtes Expert Series programs with the Reprise RLM floating license system have to be connected to the machine running the license server with a network using the TCP/IP protocol.

The user account doing the installation must have the administrative rights.

Terminology

The Reprise RLM floating license system configured for DeskArtes 3Data Expert consists of the parts illustrated in the following figure.

```
                    ┌─────────────────────────────┐
                    │ License server machine      │
                    │                             │
                    │ -license manager (rlm.exe)  │
                    │ -vendor daemon (deskartes.exe)│
                    │ -license file (deskartes.lic)│
                    │                             │
                    └─────────────────────────────┘
                                  │
        ┌─────────────────────────┼─────────────────────────┐
        │                         │                         │
┌───────────────┐        ┌───────────────┐        ┌───────────────┐
│ License client│        │ License client│        │ License client│
│ machine       │        │ machine       │        │ machine       │
│               │        │               │        │               │
│ - DA 3Data Expert│     │ - DA 3Data Expert│     │ - DA 3Data Expert│
└───────────────┘        └───────────────┘        └───────────────┘
```

License server machine	The machine where the license manager is running.
License client machine	A machine where DeskArtes 3Data Expert is running, but not the license server.
License manager program	The program (rlm.exe) controlling the license usage in the network, with help of vendor daemons.
License file	A file containing the list of available licenses and vendor daemons.
Vendor daemon program	The program controlling the licenses for the applications of one vendor (deskartes.exe for DeskArtes programs).

Installing the license server

Get the DeskArtes license server installation package (DALicenseServer.msi). It is found in the "DALicenseServer" subdirectory of the 3Data Expert 8.0 installation directory (default: "C:\Program Files\DeskArtes 3Data Expert 8.0\DALicenseServer").
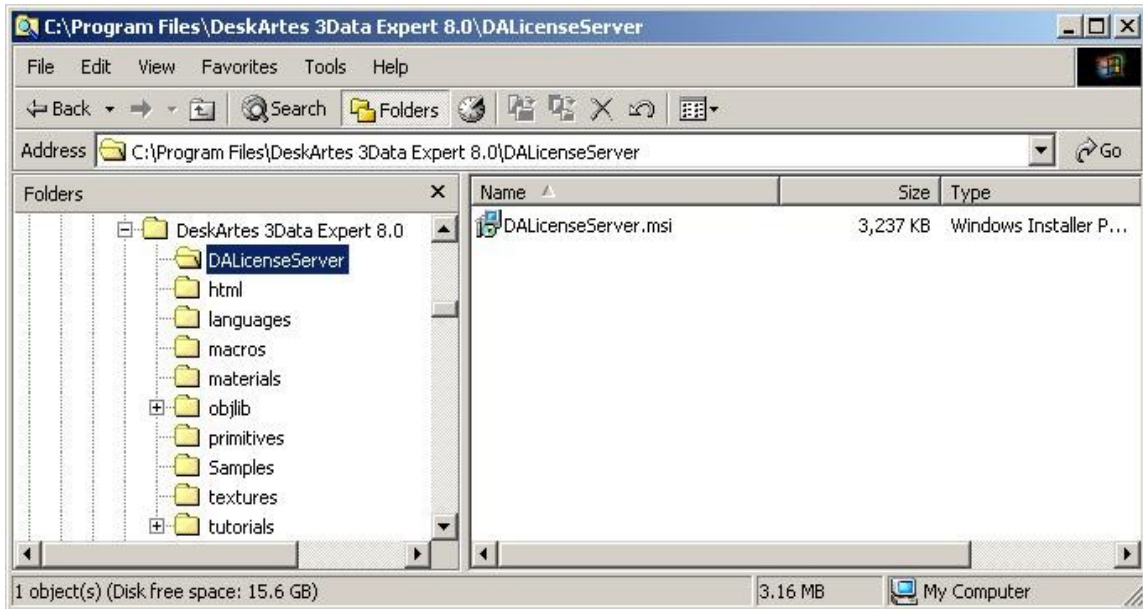
Copy the installation package to the machine that you want to make a license server.

Run the installation package on the license server machine.

If you don't want to install the license server components to the default location, change the path in the "Select Installation Folder" window.
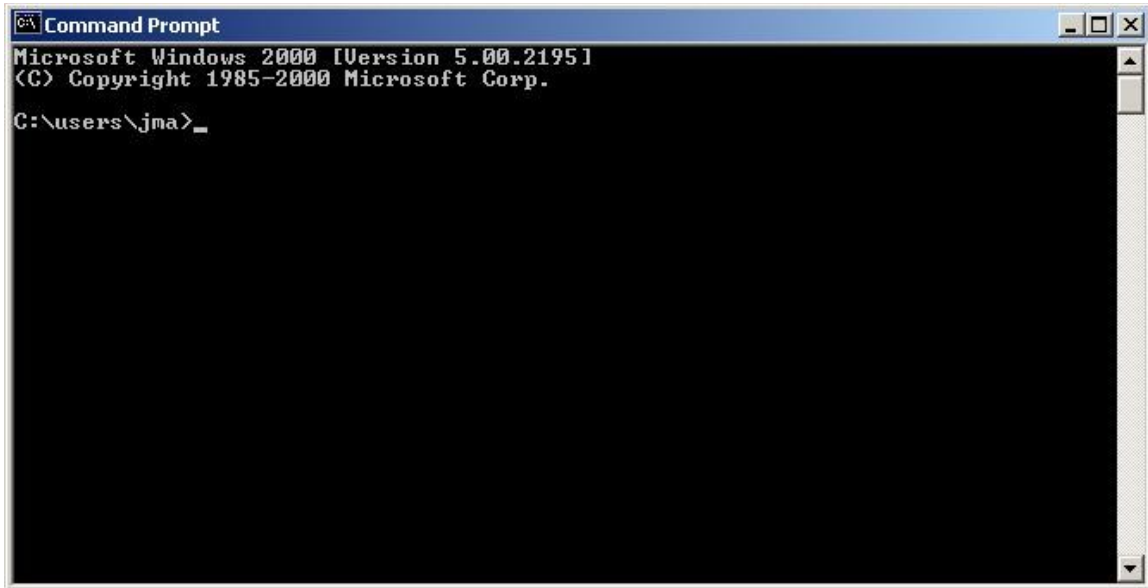
When the installation is complete, just close the last installation window.

Getting the hostid number and hostname for the license
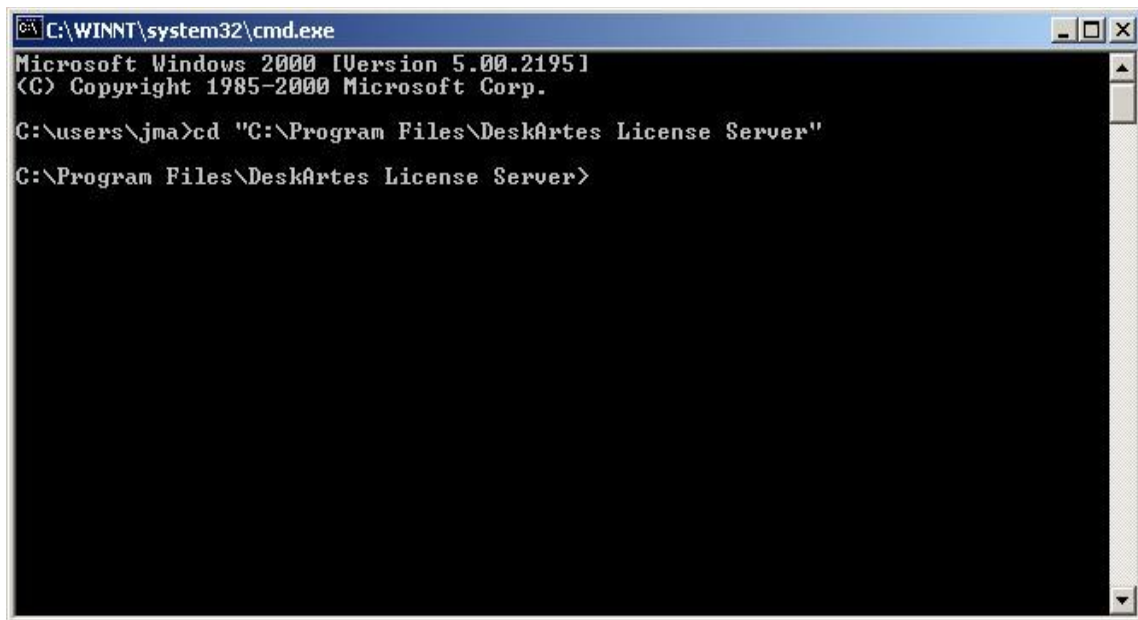
Open a Windows Command Prompt window. The Command Prompt is started from the following Start-menu paths in different Windows versions.

Windows Vista	Start->All Programs->Accessories->Command Prompt
Windows XP	Start->All Programs->Accessories->Command Prompt
Windows 2000	Start->Programs->Accessories->Command Prompt

Change current working directory to the license server installation directory (default: "C:\Program Files\DeskArtes License Server") using the "cd" command.

Run the command "rlmhostid" to get the hostid number for creating the license.


Run the command "hostname" to get the hostname of the license server machine.

Send the Hostid number and Hostname to DeskArtes for creating the license.

Indicate if you need a license for the Import Package too. A separate key is required, please see Import Package licenses.
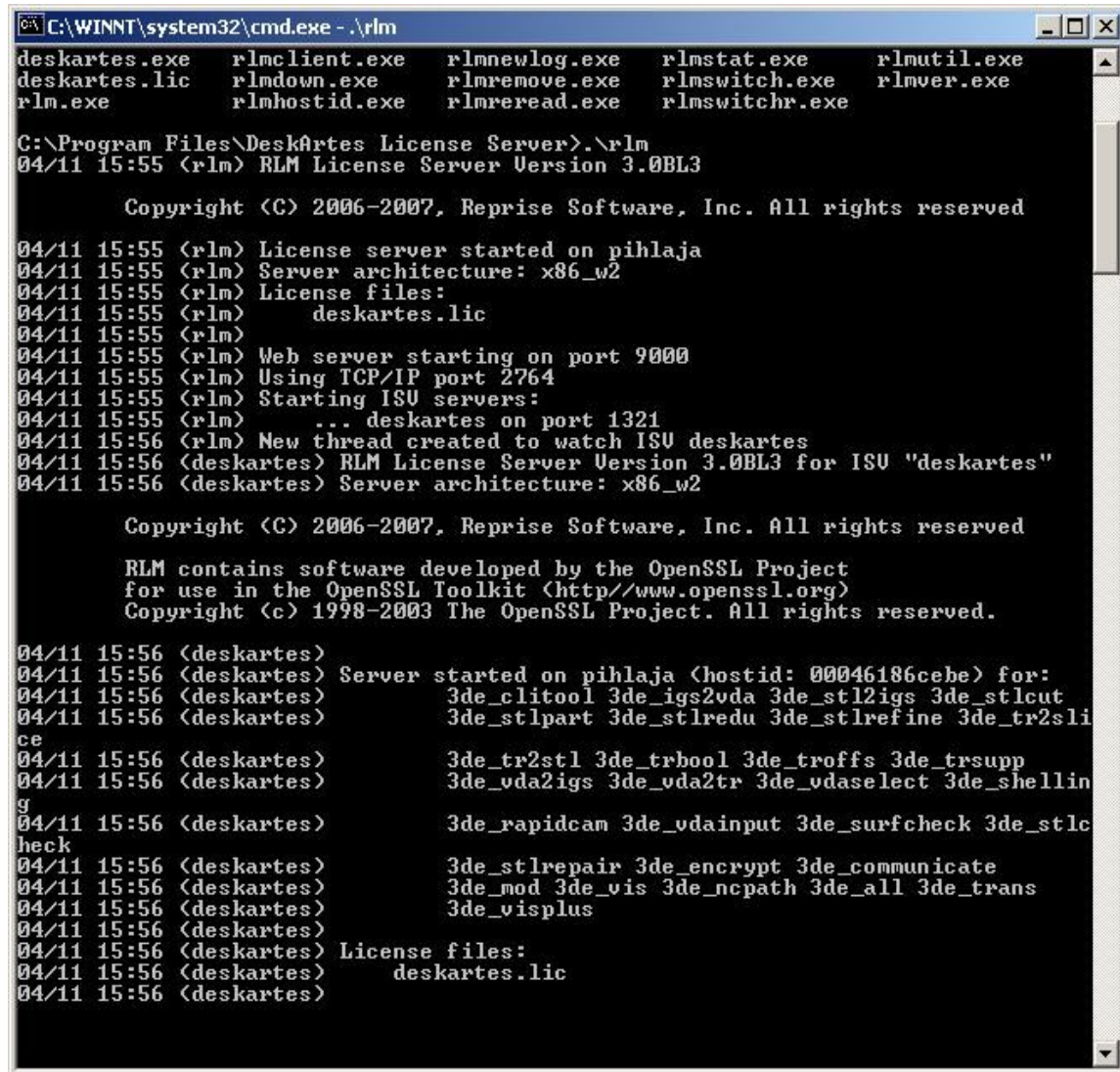
Installing the license

When you receive the license file (deskartes.lic), copy it to the license server installation directory (default: "C:\Program Files\DeskArtes License Server").
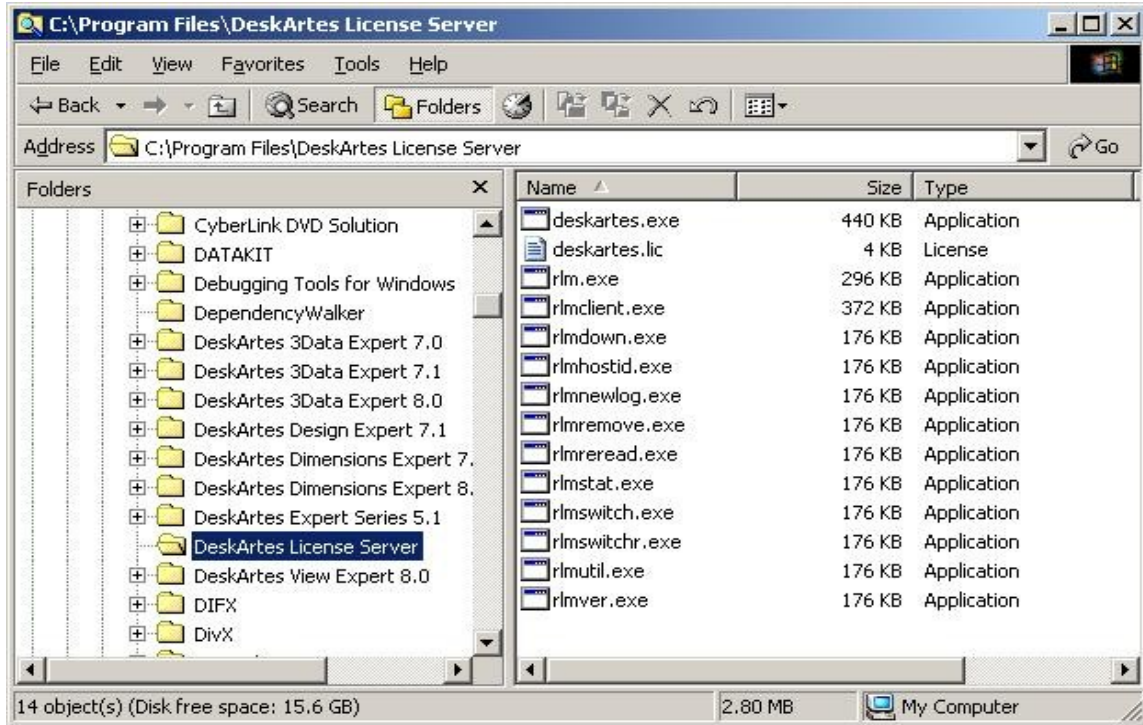
Starting the license server

Start the license server with command ".\rlm".

```
C:\WINNT\system32\cmd.exe - .\rlm                                    _ □ X
deskartes.exe     rlmclient.exe    rlmnewlog.exe   rlmstat.exe      rlmutil.exe
deskartes.lic     rlmdown.exe      rlmremove.exe   rlmswitch.exe    rlmver.exe
rlm.exe           rlmhostid.exe    rlmreread.exe   rlmswitchr.exe

C:\Program Files\DeskArtes License Server>.\rlm
04/11 15:55 (rlm) RLM License Server Version 3.0BL3

        Copyright (C) 2006-2007, Reprise Software, Inc. All rights reserved

04/11 15:55 (rlm) License server started on pihlaja
04/11 15:55 (rlm) Server architecture: x86_w2
04/11 15:55 (rlm) License files:
04/11 15:55 (rlm)       deskartes.lic
04/11 15:55 (rlm)
04/11 15:55 (rlm) Web server starting on port 9000
04/11 15:55 (rlm) Using TCP/IP port 2764
04/11 15:55 (rlm) Starting ISU servers:
04/11 15:55 (rlm)       ... deskartes on port 1321
04/11 15:56 (rlm) New thread created to watch ISU deskartes
04/11 15:56 (deskartes) RLM License Server Version 3.0BL3 for ISU "deskartes"
04/11 15:56 (deskartes) Server architecture: x86_w2

        Copyright (C) 2006-2007, Reprise Software, Inc. All rights reserved

        RLM contains software developed by the OpenSSL Project
        for use in the OpenSSL Toolkit (http//www.openssl.org)
        Copyright (c) 1998-2003 The OpenSSL Project. All rights reserved.

04/11 15:56 (deskartes)
04/11 15:56 (deskartes) Server started on pihlaja (hostid: 00046186cebe) for:
04/11 15:56 (deskartes)        3de_clitool 3de_igs2vda 3de_stl2igs 3de_stlcut
04/11 15:56 (deskartes)        3de_stlpart 3de_stlredu 3de_stlrefine 3de_tr2sli
ce
04/11 15:56 (deskartes)        3de_tr2stl 3de_trbool 3de_troffs 3de_trsupp
04/11 15:56 (deskartes)        3de_vda2igs 3de_vda2tr 3de_vdaselect 3de_shellin
g
04/11 15:56 (deskartes)        3de_rapidcam 3de_vdainput 3de_surfcheck 3de_stlc
heck
04/11 15:56 (deskartes)        3de_stlrepair 3de_encrypt 3de_communicate
04/11 15:56 (deskartes)        3de_mod 3de_vis 3de_ncpath 3de_all 3de_trans
04/11 15:56 (deskartes)        3de_visplus
04/11 15:56 (deskartes)
04/11 15:56 (deskartes) License files:
04/11 15:56 (deskartes)       deskartes.lic
04/11 15:56 (deskartes)
```

Note: You need to let the Command Prompt window exist as long as you want the license server to run. Closing the window will end the license server process. In this default configuration the license server also writes its log information to the same Command Prompt window. If you want to get the license server survive closing the Command Prompt, user logout etc. see the "Running the license server as a Windows service" section below.

Checking the license server status

The license server has an internal www-server waiting for connections at IP port 9000. So you can view the license server status information by connecting to that server with any web-browser (Internet Explorer, Firefox, Opera etc.). If running the browser at the license server machine the correct URL for the license server is

http://localhost:9000
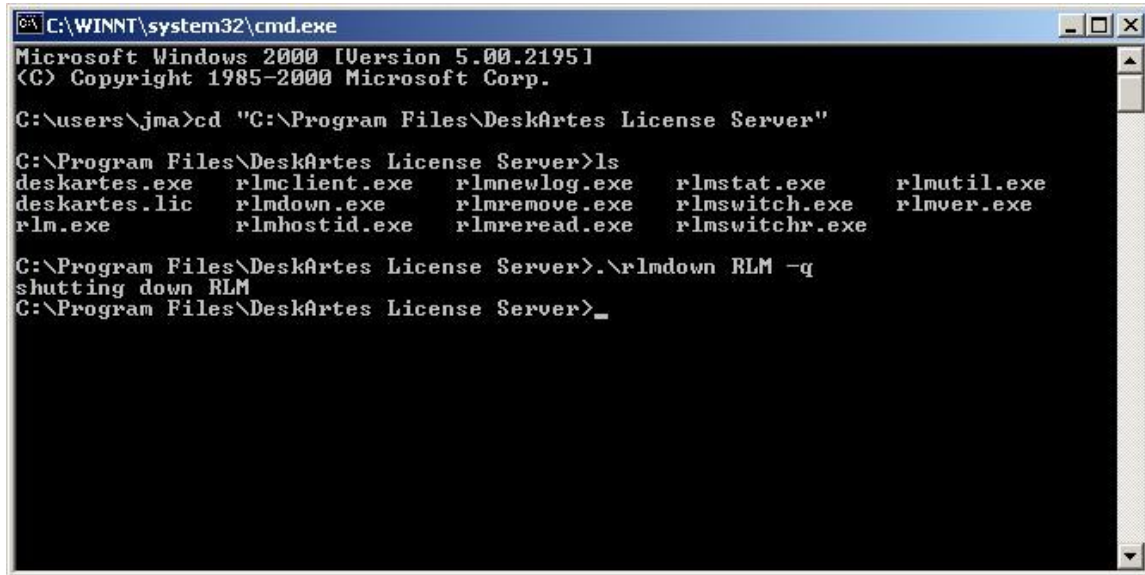
Shutting down the license server

To shut down the license server, run the command ".\rlmdown RLM -q" in another Windows Command Prompt window.

```
C:\WINNT\system32\cmd.exe                                              _ □ ×
Microsoft Windows 2000 [Version 5.00.2195]
(C) Copyright 1985-2000 Microsoft Corp.

C:\users\jma>cd "C:\Program Files\DeskArtes License Server"

C:\Program Files\DeskArtes License Server>ls
deskartes.exe    rlmclient.exe    rlmnewlog.exe    rlmstat.exe      rlmutil.exe
deskartes.lic    rlmdown.exe      rlmremove.exe    rlmswitch.exe    rlmver.exe
rlm.exe          rlmhostid.exe    rlmreread.exe    rlmswitchr.exe

C:\Program Files\DeskArtes License Server>.\rlmdown RLM -q
shutting down RLM
C:\Program Files\DeskArtes License Server>_
```

In the Command Prompt window where you started the server, you can now see also the shutdown messages.

Running the license server as a Windows service

If you need to be able to get the license server to survive closing the Command Prompt, user logout etc. it is possible by defining the license server to run as a Windows service.

When running the license server through the Windows service mechanism the space characters in the directory paths cause problems. Therefore you must first create a new directory that does not have any space characters in its path (for example: "c:\reprise") and copy all the license server components from the default installation directory ("C:\Program Files\DeskArtes License Server") there. Then do the installation from that directory.

In the license file you need to change the following:

.
- Add the path of the vendor daemon to the ISV line of the license file.

The following changes are needed in the rlm startup command:

- Add "-install_service" option to the rlm startup command.
- Add a service name to the rlm startup command using the "-service_name" option.
- Add the full path of the log file to the rlm startup command using "-dlog" option.
- Add the full path of the license file to the rlm startup command using "-c" option.

When the "-install_service" option is included in the rlm startup command, the command does not start the license server. It just adds a new service to the Windows service list. The installed service has to be separately started via the Windows Services control panel.

The installed rlm service can also be removed from the Windows service list using the "-delete_service" option of the rlm command. The service has to be stopped via the Windows Services control panel before it can be removed.
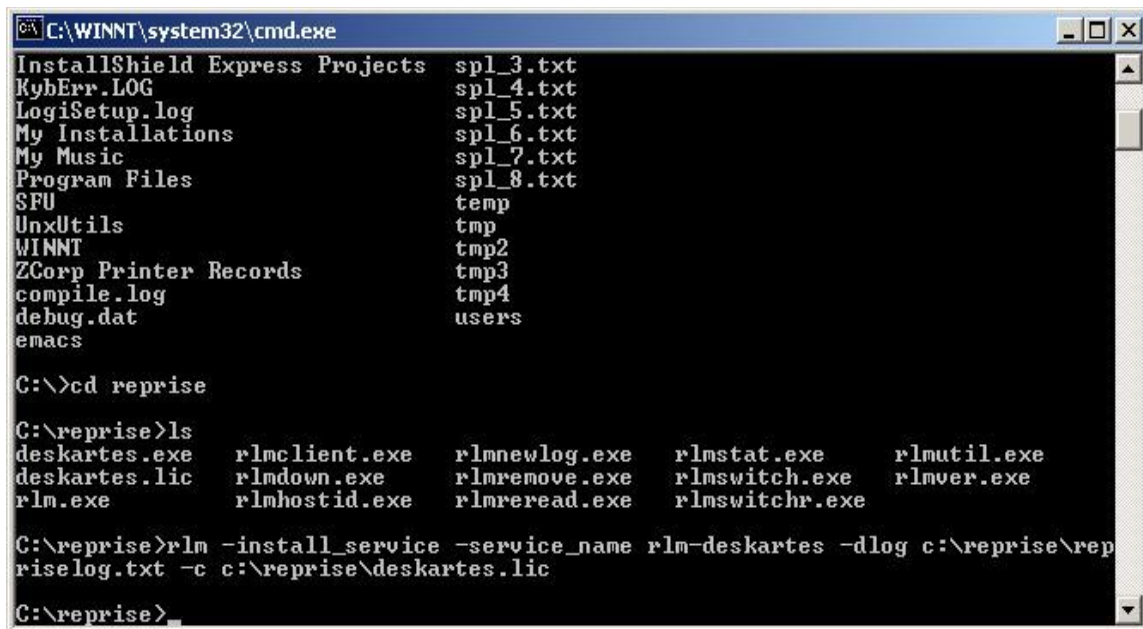
Installing rlm as a Windows service

For example if you have the vendor daemon (deskartes.exe) and the license file (deskartes.lic) in the directory "c:\reprise", want the logfile (repriselog.txt) to be written in the same directory and the service to be called "rlm-deskartes", you need to do the following:

First change the ISV line in the license file to contain the path of the vendor daemon.

```
ISV deskartes c:\reprise\deskartes
```

Then run the rlm startup command in the Windows command prompt.

```
rlm -install_service -service_name rlm-deskartes -dlog
c:\reprise\repriselog.txt -c c:\reprise\deskartes.lic
```

```
C:\WINNT\system32\cmd.exe                                                   _ □ ×
InstallShield Express Projects   spl_3.txt
KybErr.LOG                       spl_4.txt
LogiSetup.log                    spl_5.txt
My Installations                 spl_6.txt
My Music                         spl_7.txt
Program Files                    spl_8.txt
SFU                              temp
UnxUtils                         tmp
WINNT                            tmp2
ZCorp Printer Records            tmp3
compile.log                      tmp4
debug.dat                        users
emacs

C:\>cd reprise

C:\reprise>ls
deskartes.exe   rlmclient.exe   rlmnewlog.exe   rlmstat.exe     rlmutil.exe
deskartes.lic   rlmdown.exe     rlmremove.exe   rlmswitch.exe   rlmver.exe
rlm.exe         rlmhostid.exe   rlmreread.exe   rlmswitchr.exe

C:\reprise>rlm -install_service -service_name rlm-deskartes -dlog c:\reprise\rep
riselog.txt -c c:\reprise\deskartes.lic

C:\reprise>_
```

Starting rlm service

Open the Windows Services control panel. In different versions of Windows it is found in slightly different paths.

Windows Vista:
"Start->Control Panel (Classic View): Administrative Tools: Services"

Windows XP:
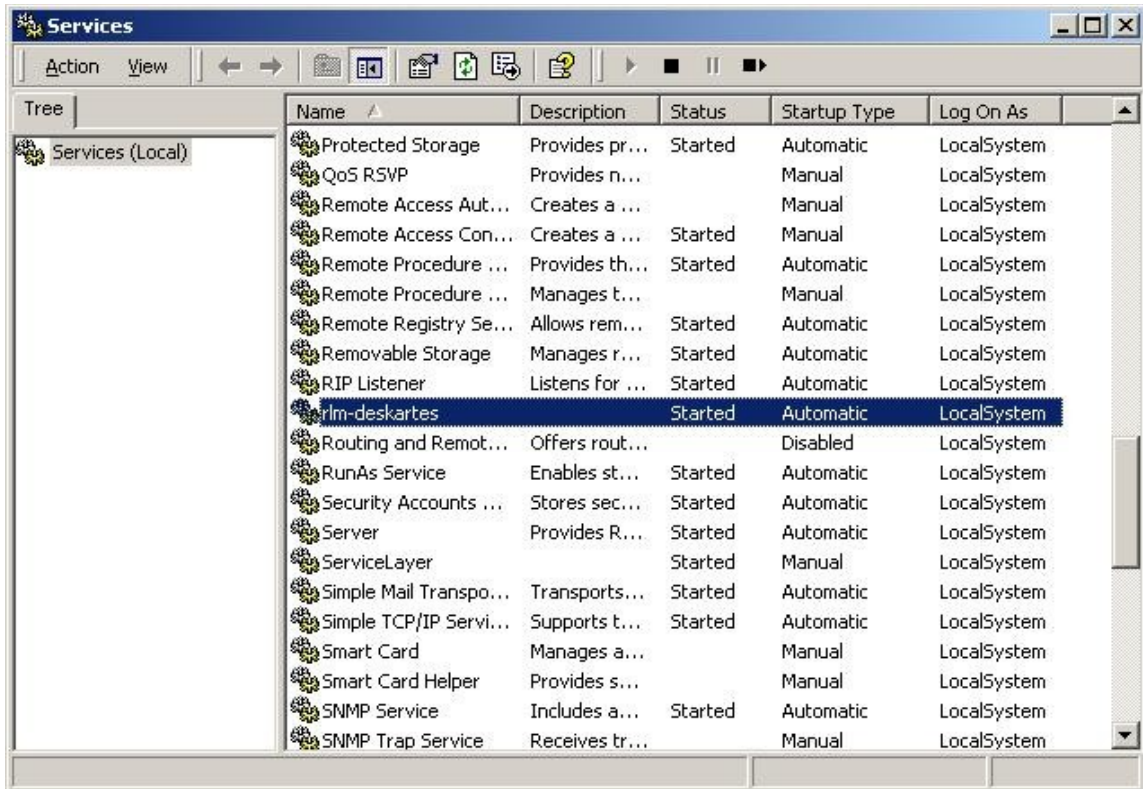"Start->Control Panel: Administrative Tools: Services"

Windows 2000:
"Start->Settings->Control Panel: Administrative Tools: Services"

The "rlm-deskartes" service is now found in the list of services.

Select the "rlm-deskartes" service and run the command "Start" from the "Action" menu.

The status of the service is then changed to "Started" and the rlm license server is running.

Stopping rlm service

The rlm service is stopped via the Windows Services control panel in the same way as it was started.

Open the Windows Services control panel.

Select the "rlm-deskartes" service in the list and run the command "Stop" from the "Action" menu.
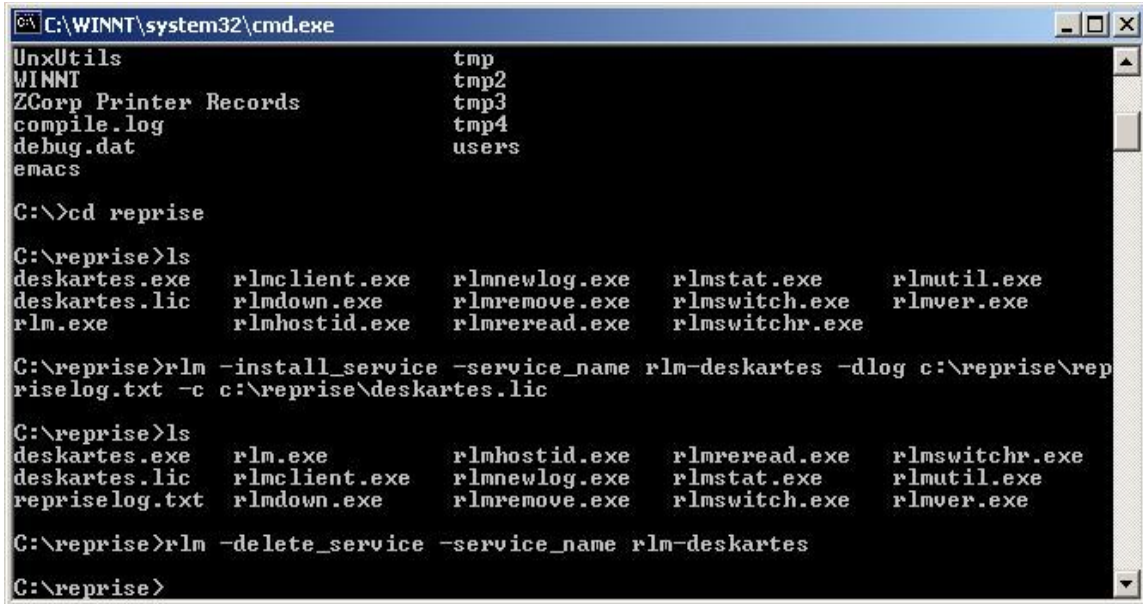
The "Started" string then disappears from the "Status" field and the rlm license server is stopped.
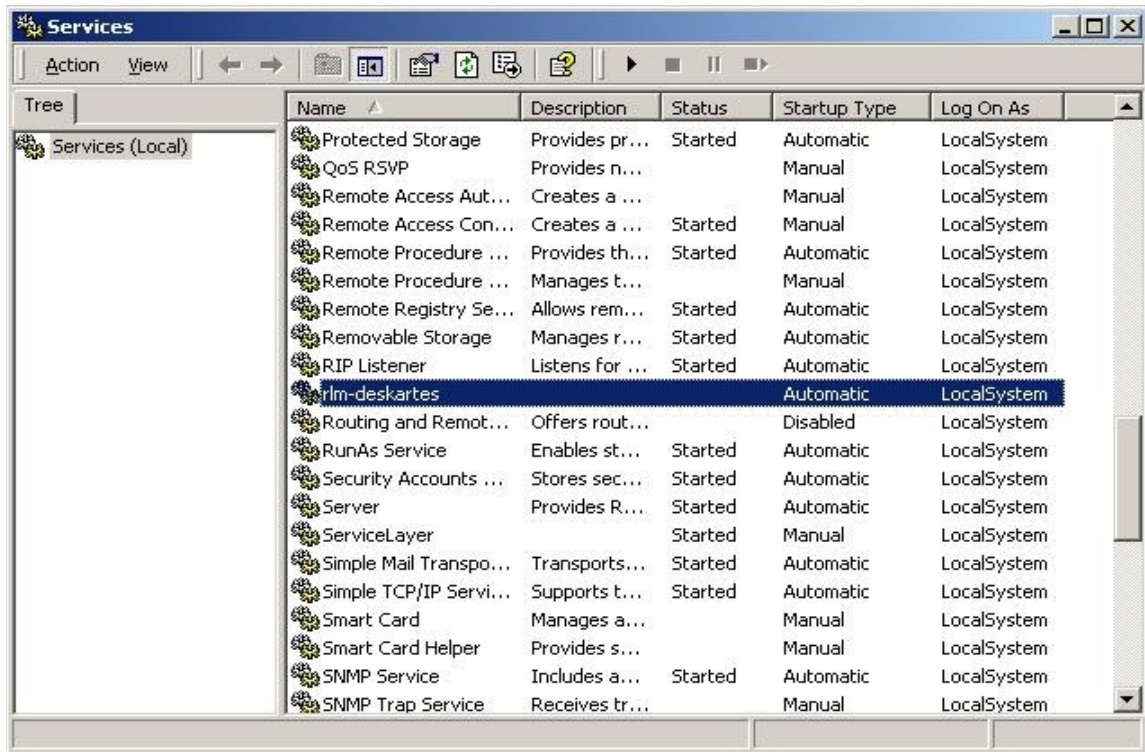
Deleting rlm service

To remove the rlm service from the Windows service list run the following command in the Windows command prompt.

```
rlm -delete_service -service_name rlm-deskartes
```


The "rlm-deskartes" has then disappeared from the services list in the Windows Services control panel.
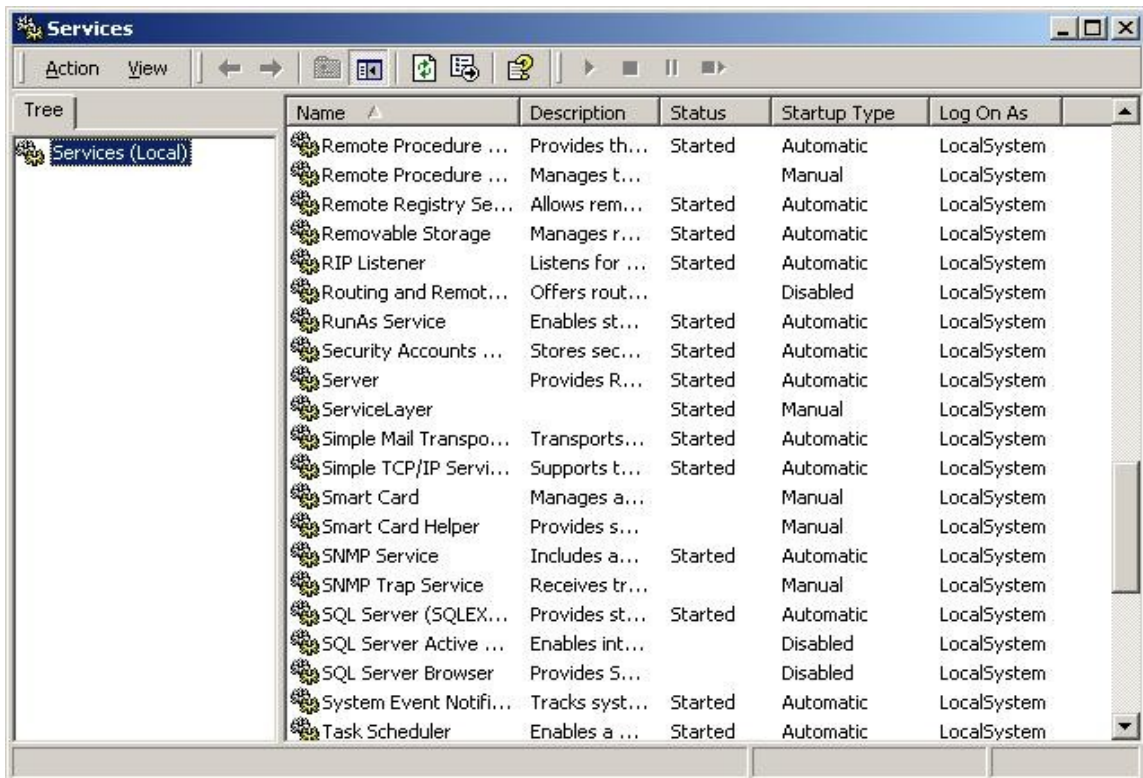
The rlm license server log file

When running the rlm license server as a Windows service, it writes its log information to the file defined in the rlm startup command (for example: "c:\reprise\repriselog.txt"). The log file contains the similar information that is shown in the startup command prompt in the default configuration.

The information in the log file is useful especially when trying to resolve problems in running the rlm license server.

Additional information

For further details see "Running the *rlm* server as a service on Windows" in "**The License Server**" section, and the ISV line description in the "**The License File**" section, of the Reprise end user manual (http://www.reprisesoftware.com/RLM_Enduser.html).

Floating license client configuration in 3Data Expert

The license system settings can be changed in 3Data Expert by selecting the "Edit->Preferences" in the program menus.

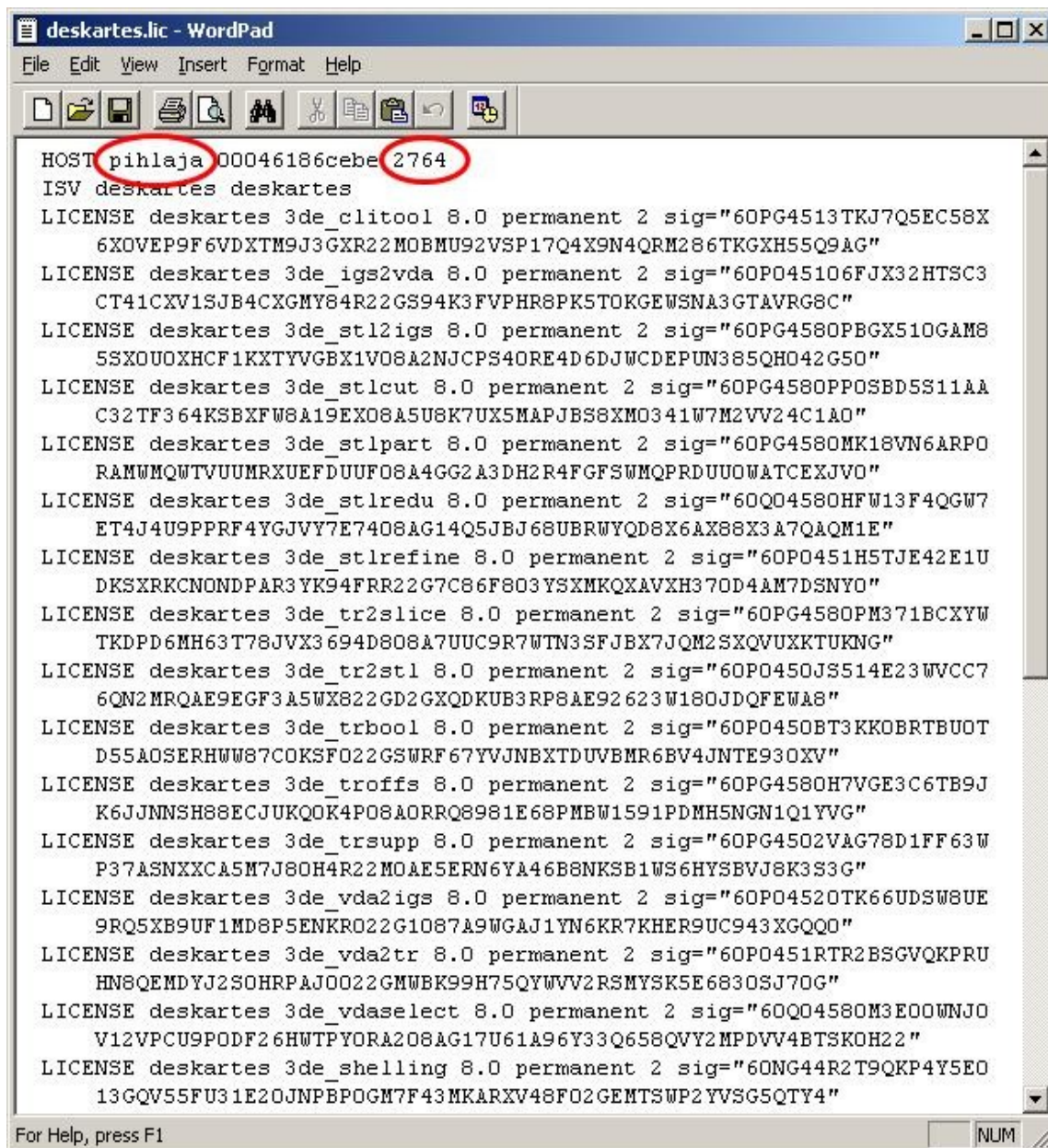Choose the "Licensing" category in the Preferences window.
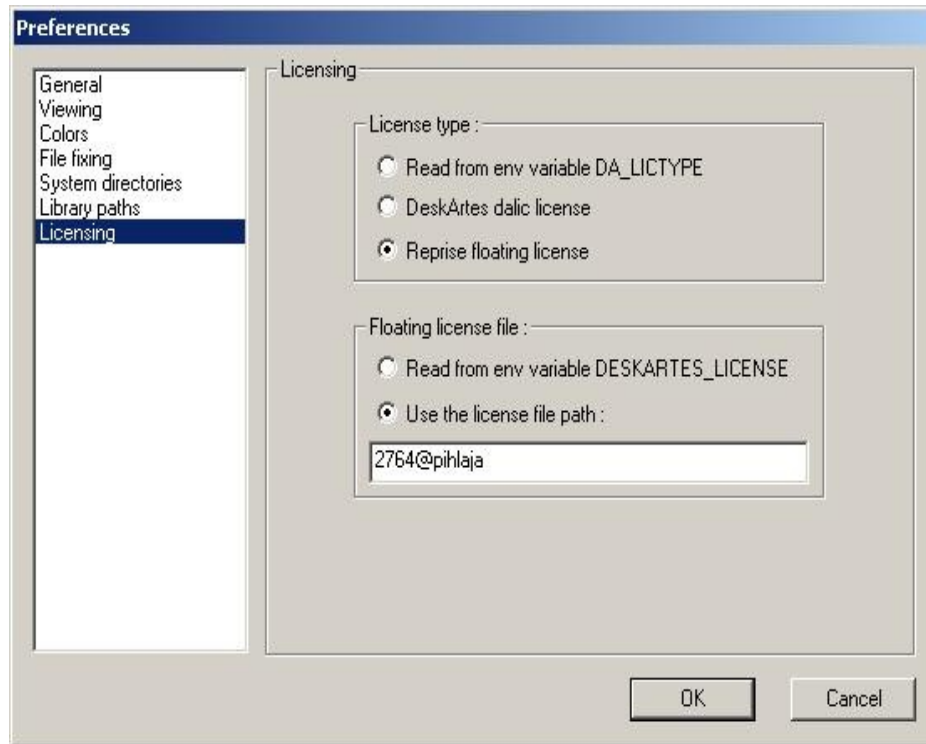
Select the "Reprise floating license" as the License type and the "Use the license file path" in the Floating license file setting.

Fill in the path to the license server in the corresponding text field.

The path is of format "<IP-port>@<lic-server-hostname>, where <IP-port> is the port number of the license server (default: 2764) and the <lic-server-hostname> is the host name of the license server machine in the network.

The correct port number and the hostname can be also checked from the HOST line of the license file (second and fourth field)


```
HOST pihlaja 00046186cebe 2764
ISV deskartes deskartes
LICENSE deskartes 3de_clitool 8.0 permanent 2 sig="60PG4513TKJ7Q5EC58X
        6XOVEP9F6VDXTM9J3GXR22MOBMU92VSP17Q4X9N4QRM286TKGXH55Q9AG"
LICENSE deskartes 3de_igs2vda 8.0 permanent 2 sig="60P045106FJX32HTSC3
        CT41CXV1SJB4CXGMY84R22GS94K3FVPHR8PK5TOKGEWSNA3GTAVRG8C"
LICENSE deskartes 3de_stl2igs 8.0 permanent 2 sig="60PG4580PBGX51OGAM8
        5SXOUOXHCF1KXTYVGBX1VO8A2NJCPS4ORE4D6DJWCDEPUN385QHO42G50"
LICENSE deskartes 3de_stlcut 8.0 permanent 2 sig="60PG4580PPOSBD5S11AA
        C32TF364KSBXFW8A19EXO8A5U8K7UX5MAPJBS8XMO341W7M2VV24C1AO"
LICENSE deskartes 3de_stlpart 8.0 permanent 2 sig="60PG4580MK18VN6ARPO
        RAMWMQWTVUUMRXUEFDUUFO8A4GG2A3DH2R4FGFSWMQPRDUUOWATCEXJVO"
LICENSE deskartes 3de_stlredu 8.0 permanent 2 sig="60Q04580HFW13F4QGW7
        ET4J4U9PPRF4YGJVY7E7408AG14Q5JBJ68UBRWYQD8X6AX88X3A7QAQM1E"
LICENSE deskartes 3de_stlrefine 8.0 permanent 2 sig="60P0451H5TJE42E1U
        DKSXRKCNONDPAR3YK94FRR22G7C86F803YSXMKQXAVXH37OD4AM7DSNYO"
LICENSE deskartes 3de_tr2slice 8.0 permanent 2 sig="60PG4580PM371BCXYW
        TKDPD6MH63T78JVX3694D808A7UUC9R7WTN3SFJBX7JQM2SXQVUXKTUKNG"
LICENSE deskartes 3de_tr2stl 8.0 permanent 2 sig="60P0450JS514E23WVCC7
        6QN2MRQAE9EGF3A5WX822GD2GXQDKUB3RP8AE92623W18OJDQFEWA8"
LICENSE deskartes 3de_trbool 8.0 permanent 2 sig="60P0450BT3KKOBRTBUOT
        D55AOSERHWW87COKSFO22GSWRF67YVJNBXTDUVBMR6BV4JNTE930XV"
LICENSE deskartes 3de_troffs 8.0 permanent 2 sig="60PG4580H7VGE3C6TB9J
        K6JJNNSH88ECJUKQOK4PO8AORRQ8981E68PMBW1591PDMH5NGN1Q1YVG"
LICENSE deskartes 3de_trsupp 8.0 permanent 2 sig="60PG4502VAG78D1FF63W
        P37ASNXXCA5M7J80H4R22MOAE5ERN6YA46B8NKSB1WS6HYSBVJ8K3S3G"
LICENSE deskartes 3de_vda2igs 8.0 permanent 2 sig="60P04520TK66UDSW8UE
        9RQ5XB9UF1MD8P5ENKRO22G1087A9WGAJ1YN6KR7KHER9UC943XGQQO"
LICENSE deskartes 3de_vda2tr 8.0 permanent 2 sig="60P0451RTR2BSGVQKPRU
        HN8QEMDYJ2SOHRPAJO022GMWBK99H75QYWVV2RSMYSK5E6830SJ70G"
LICENSE deskartes 3de_vdaselect 8.0 permanent 2 sig="60Q04580M3EOOWNJO
        V12VPCU9PODF26HWTPYORA208AG17U61A96Y33Q658QVY2MPDVV4BTSKOH22"
LICENSE deskartes 3de_shelling 8.0 permanent 2 sig="60NG44R2T9QKP4Y5EO
        13GQV55FU31E2OJNPBPOGM7F43MKARXV48FO2GEMTSWP2YVSG5QTY4"
```

or in the license server startup messages (lines: "License server started on ..." and "Using TCP/IP port ...").

Press "OK"

When the program reminds you about need to restart the program, exit the 3Data Expert and start it again.