

Network license system installation for DeskArtes Expert Series 10.0 programs



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About this document

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

The instructions in this document are written for the DeskArtes Expert Series version 10.0 installation packages, containing Reprise RLM version 9.2 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 10.0 (64-bit) as an example, but the same instructions can be applied also for the other DeskArtes Expert Series programs: 3Data Expert Lite, Dimensions Expert, View Expert and Design Expert (64-bit and 32-bit).

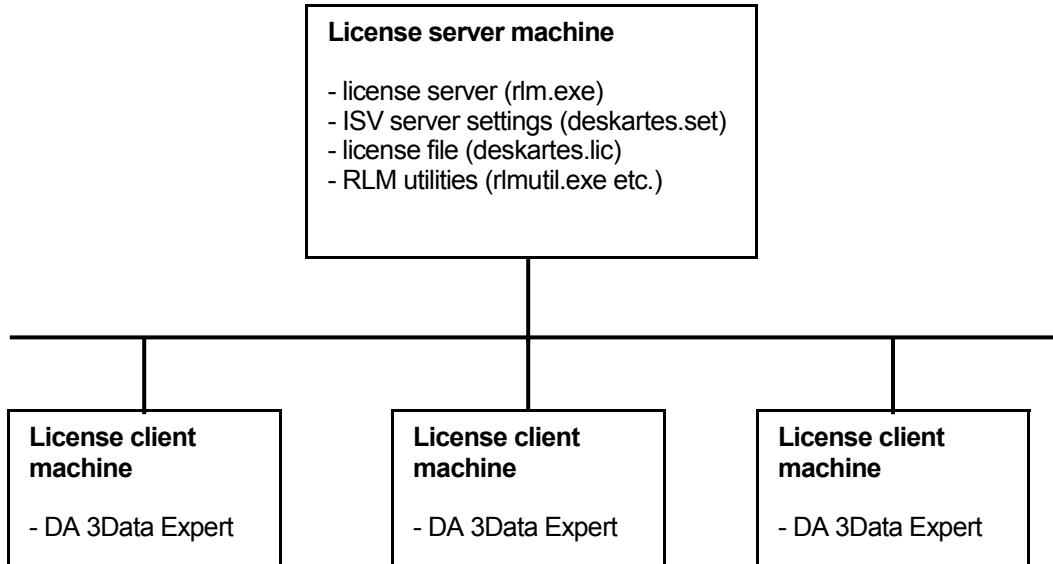
Requirements

The machines running the DeskArtes Expert Series programs with the Reprise RLM network 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 network license system configured for DeskArtes 3Data Expert consists of the parts illustrated in the following figure.

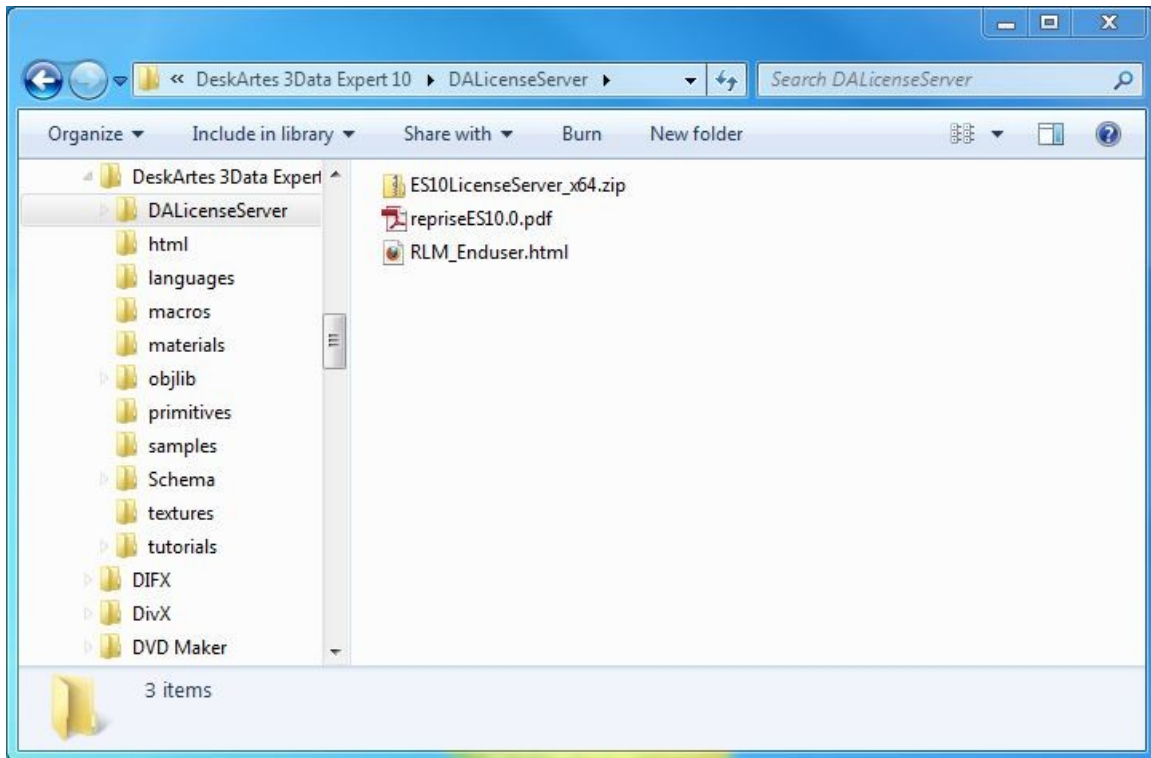


License server machine	The machine where the license server is running.
License client machine	A machine where DeskArtes 3Data Expert is running.
License server program	The program (rlm.exe) controlling the license usage in the network, with help of the ISV server.
ISV server settings file	A platform independent settings file for a ISV server (deskartes.set for DeskArtes programs, like 3Data Expert).
License file	A text file containing the list of available licenses and ISV servers.
RLM utilities	A set of small command line utility programs for handling the license server (rlmutil.exe, rlmhostid.exe, rlmstat.exe, rlmshutdown.exe, etc.).

Installing the license server

Get the DeskArtes license server installation package (ES10LicenseServer_x64.zip) for 3Data Expert 10.0 (64-bit).

It is found in the "DALicenseServer" subdirectory of the 3Data Expert 10.0 (64-bit) installation directory (default: "C:\Program Files\DeskArtes 3Data Expert 10.0\DALicenseServer").

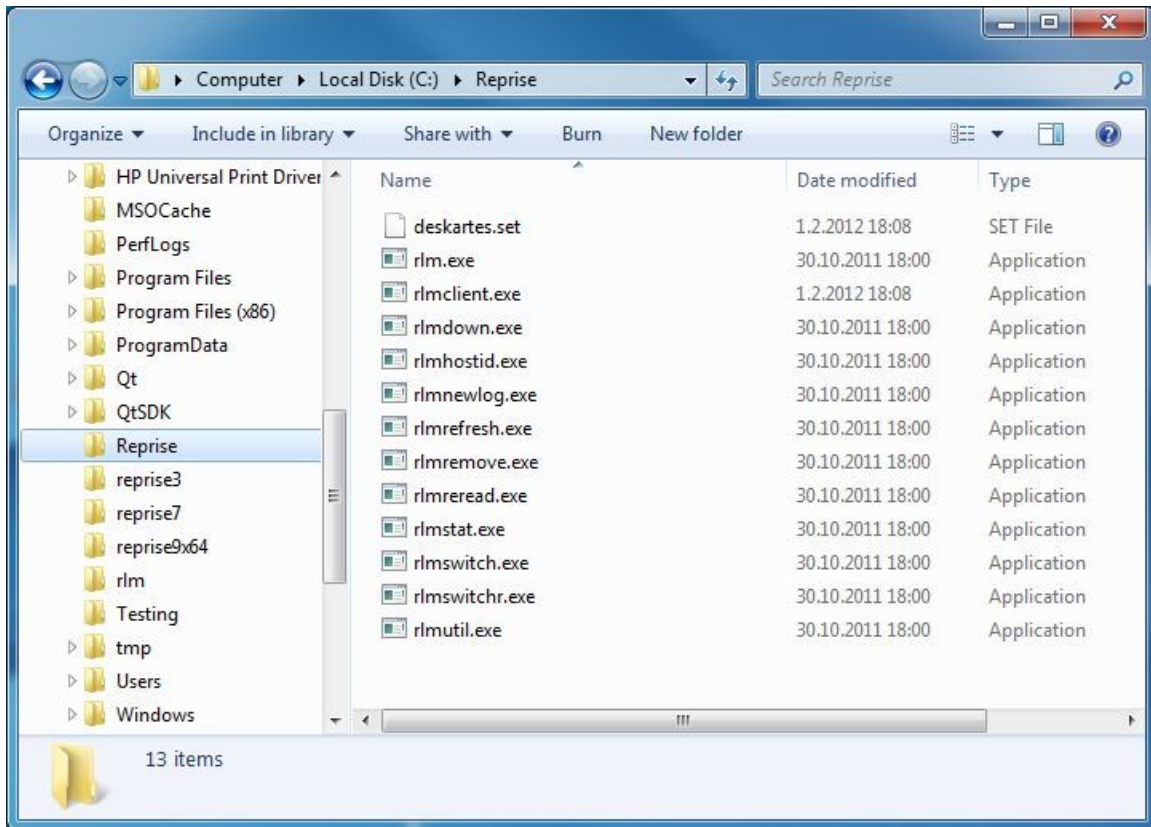


Copy the installation package to the machine that you want to make a license server.

Note: To be able to run the 64-bit versions of the license server and tools, included in the 64-bit 3Data Expert installation, the machine you choose to be the license server needs to have a 64-bit Windows version. The 32-bit versions of the license server and tools can be found in the installation packages of 32-bit Expert Series program, or downloaded from the DeskArtes web site (www.deskartes.com).

Create a new directory for the license server at the server machine (for example: "C:\Reprise").

Extract the contents of the license server installation package (ES10LicenseServer_x64.zip) to that directory.



Getting the hostid number and hostname for the license

Open a Windows Command Prompt window.

Start->All Programs->Accessories->Command Prompt



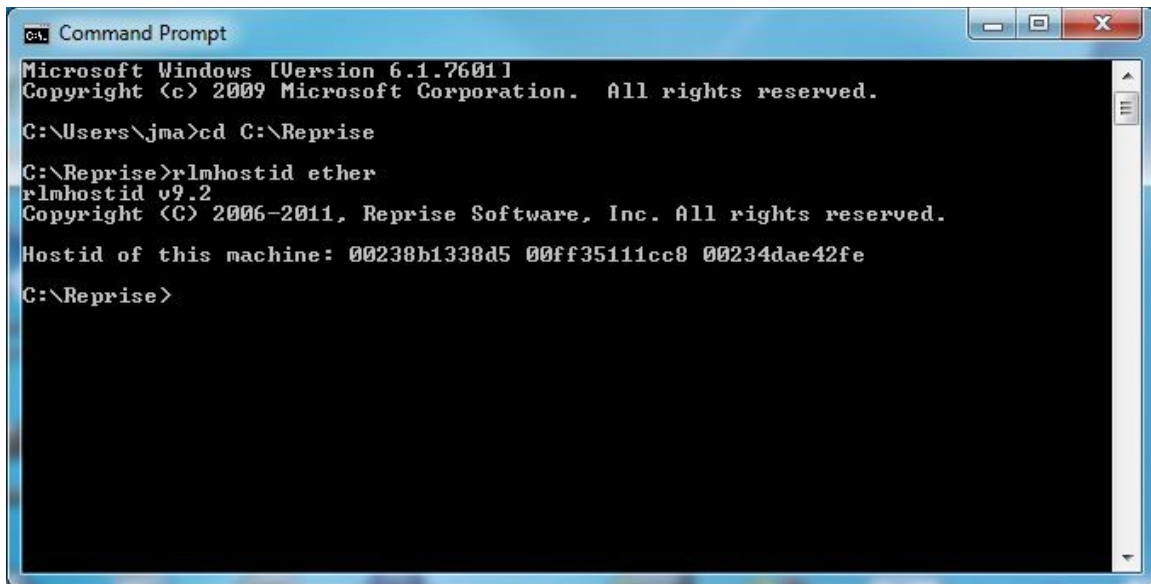
```
ca. Command Prompt
Microsoft Windows [Version 6.1.7601]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.
C:\Users\jna>
```

Change current working directory to the license server installation directory ("C:\Reprise") using the "cd" command.



```
ca. Command Prompt
Microsoft Windows [Version 6.1.7601]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.
C:\Users\jna>cd C:\Reprise
C:\Reprise>
```

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



```
ca. Command Prompt
Microsoft Windows [Version 6.1.7601]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.

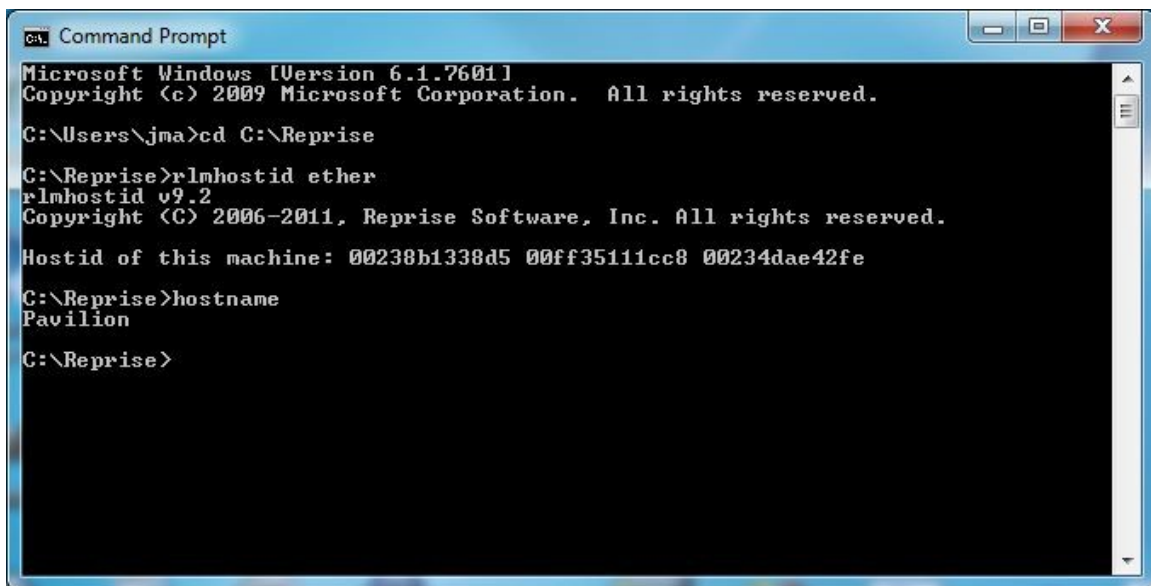
C:\Users\jma>cd C:\Reprise

C:\Reprise>rlmhostid ether
rlmhostid v9.2
Copyright (C) 2006-2011, Reprise Software, Inc. All rights reserved.

Hostid of this machine: 00238b1338d5 00ff35111cc8 00234dae42fe

C:\Reprise>
```

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



```
ca. Command Prompt
Microsoft Windows [Version 6.1.7601]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.

C:\Users\jma>cd C:\Reprise

C:\Reprise>rlmhostid ether
rlmhostid v9.2
Copyright (C) 2006-2011, Reprise Software, Inc. All rights reserved.

Hostid of this machine: 00238b1338d5 00ff35111cc8 00234dae42fe

C:\Reprise>hostname
Pavilion

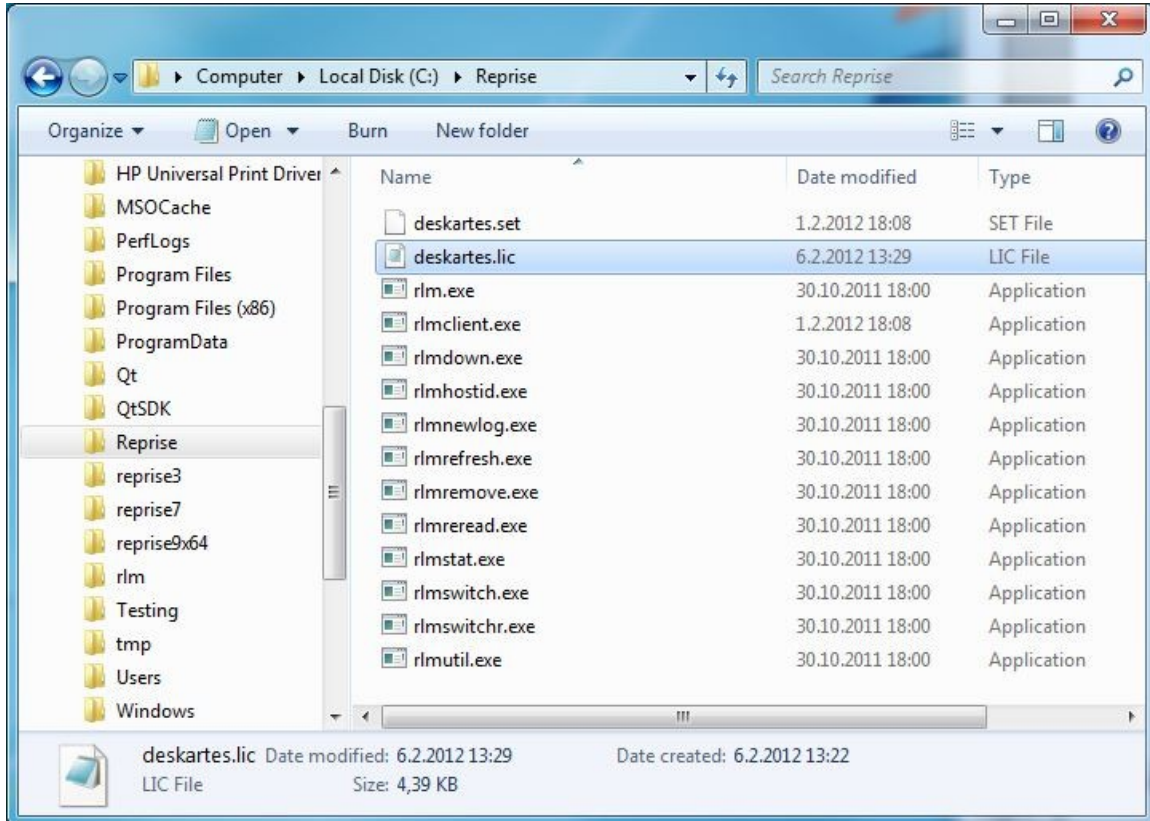
C:\Reprise>
```

Send the Hostid number and Hostname to DeskArtes for creating the license. Include also information which version of the 3Data Expert you are going to run.

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

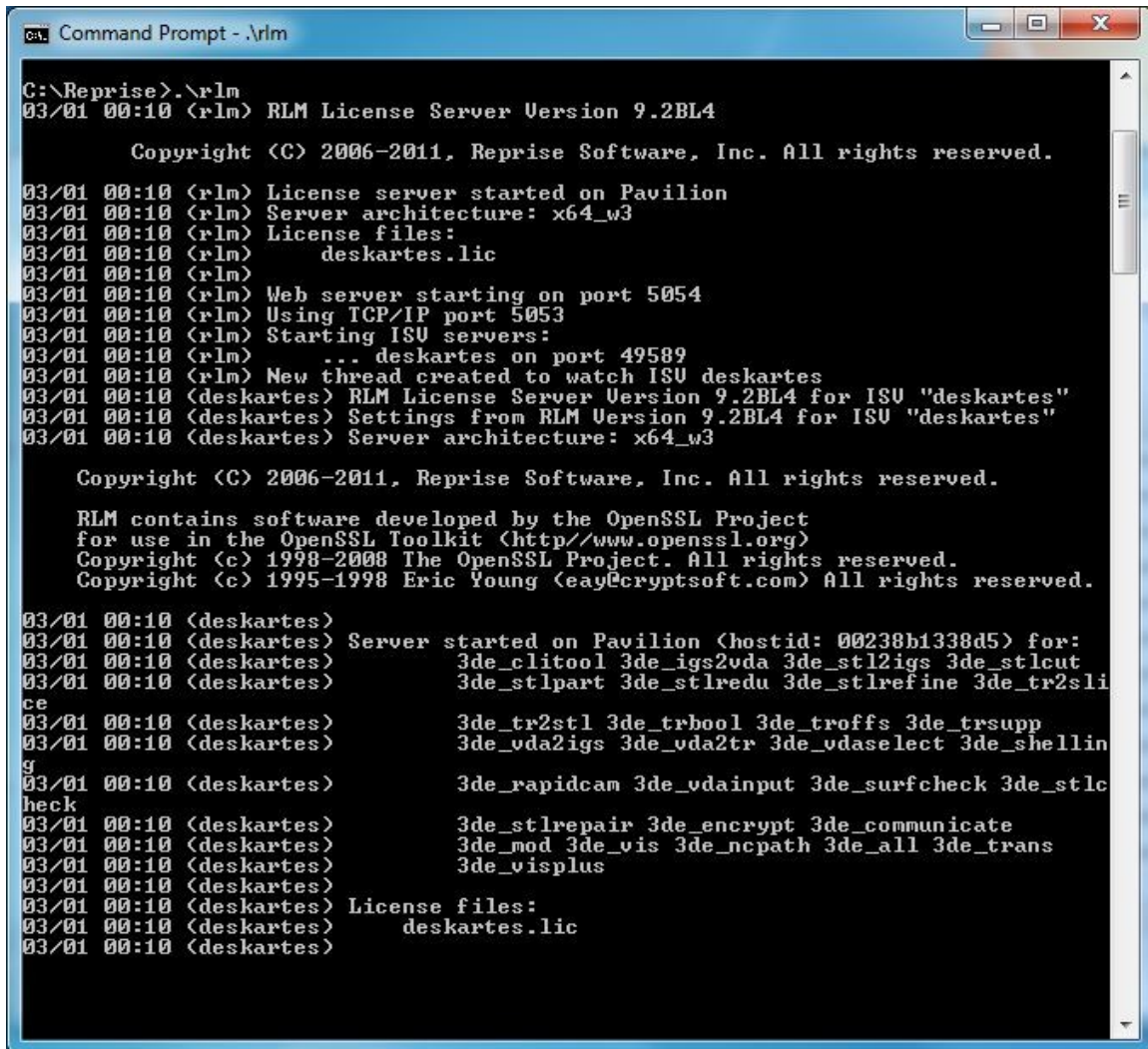
Installing the license

When you receive the license file (for example "deskartes.lic"), copy it to the license server installation directory ("C:\Reprise").



Starting the license server

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



```
C:\Reprise>.\rlm
03/01 00:10 (rlm) RLM License Server Version 9.2BL4

    Copyright (C) 2006-2011, Reprise Software, Inc. All rights reserved.

03/01 00:10 (rlm) License server started on Pavilion
03/01 00:10 (rlm) Server architecture: x64_w3
03/01 00:10 (rlm) License files:
03/01 00:10 (rlm)     deskartes.lic
03/01 00:10 (rlm)
03/01 00:10 (rlm) Web server starting on port 5054
03/01 00:10 (rlm) Using TCP/IP port 5053
03/01 00:10 (rlm) Starting ISU servers:
03/01 00:10 (rlm)     ... deskartes on port 49589
03/01 00:10 (rlm) New thread created to watch ISU deskartes
03/01 00:10 (deskartes) RLM License Server Version 9.2BL4 for ISU "deskartes"
03/01 00:10 (deskartes) Settings from RLM Version 9.2BL4 for ISU "deskartes"
03/01 00:10 (deskartes) Server architecture: x64_w3

    Copyright (C) 2006-2011, 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) 1998-2008 The OpenSSL Project. All rights reserved.
    Copyright (c) 1995-1998 Eric Young (eay@cryptsoft.com) All rights reserved.

03/01 00:10 (deskartes)
03/01 00:10 (deskartes) Server started on Pavilion (hostid: 00238b1338d5) for:
03/01 00:10 (deskartes)     3de_clitool 3de_igs2vda 3de_stl2igs 3de_stlcut
03/01 00:10 (deskartes)     3de_stlpart 3de_stlredu 3de_stlrefine 3de_tr2sli
ce
03/01 00:10 (deskartes)     3de_tr2stl 3de_trbool 3de_troffs 3de_trsupp
03/01 00:10 (deskartes)     3de_vda2igs 3de_vda2tr 3de_vdaselect 3de_shellin
g
03/01 00:10 (deskartes)     3de_rapidcam 3de_vdainput 3de_surfcheck 3de_stlc
heck
03/01 00:10 (deskartes)     3de_stlrepair 3de_encrypt 3de_communicate
03/01 00:10 (deskartes)     3de_mod 3de_vis 3de_ncpath 3de_all 3de_trans
03/01 00:10 (deskartes)     3de_visplus
03/01 00:10 (deskartes) License files:
03/01 00:10 (deskartes)     deskartes.lic
03/01 00:10 (deskartes)
```

Note 1: If you have a firewall program running on your license server, it will probably ask at this point if the program "rlm.exe" is allowed to connect to the network. You have to allow that for the client machines to be able to connect to the license server.



Note 2: 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 5054. 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:5054

The screenshot shows the Reprise License Server Administration web interface. The browser window title is 'Firefox' and the address bar shows 'http://localhost:5054/home.asp'. The page header includes the Reprise Software logo and the text 'Reprise License Server Administration' and 'Copyright (c) 2006-2011, Reprise Software, Inc. All Rights Reserved.' The main content area displays 'Status for "rlm" on Pavilion (port 5053)'. Below this, there are several tables and buttons. The first table shows RLM software and command versions. The second table shows rlm Statistics. The third table shows ISV Servers.

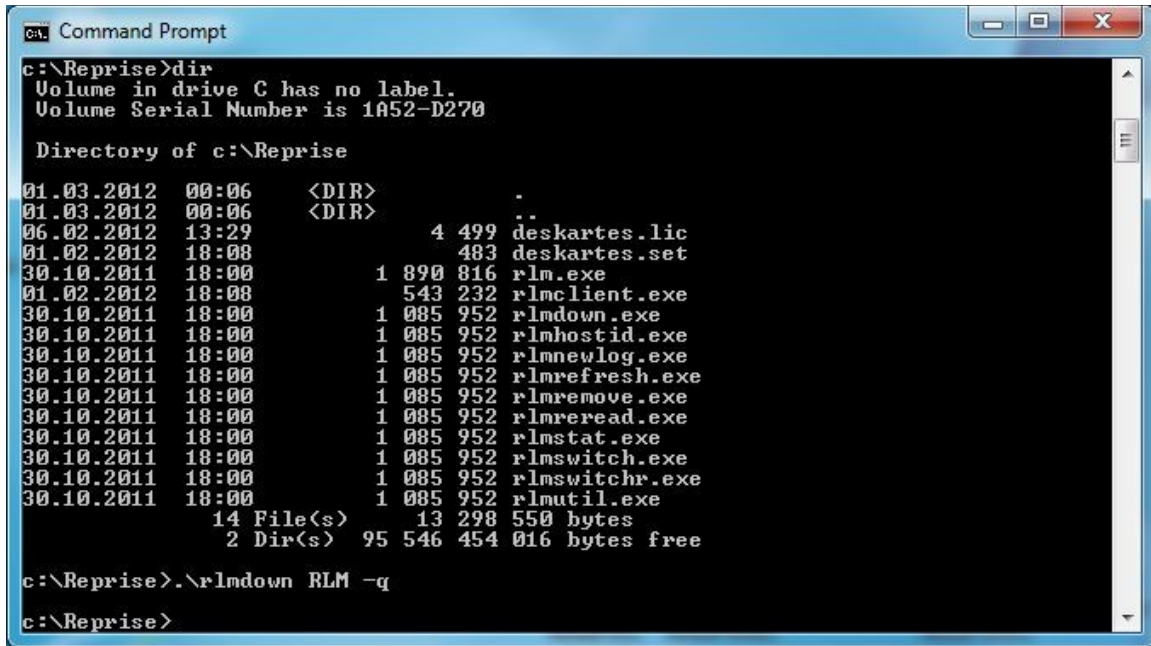
RLM software version	v9.2 (build:4)
RLM comm version	v1.1
debug log file	_stdout_
license files	deskartes.lic

rlm Statistics	Since Start	Since Midnight	Recent
Start time	03/01 00:21:23	03/01 00:21:23	03/01 00:21:23
Messages	0 (0/sec)	0 (0/sec)	0 (0/sec)
Connections	0 (0/sec)	0 (0/sec)	0 (0/sec)

ISV Servers		Name	port	Running	Restarts	Server Status	License Usage	Debug Log	REREAD	OPTIONS	TRANSFER	SHUTDOWN
		deskartes	49986	Yes	0	deskartes	deskartes	deskartes	deskartes	deskartes	deskartes	deskartes

Shutting down the license server

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



```
ca. Command Prompt
c:\Reprise>dir
Volume in drive C has no label.
Volume Serial Number is 1A52-D270

Directory of c:\Reprise

01.03.2012  00:06    <DIR>          .
01.03.2012  00:06    <DIR>          ..
06.02.2012  13:29             4 499 deskartes.lic
01.02.2012  18:08             483 deskartes.set
30.10.2011  18:00             1 890 816 rlm.exe
01.02.2012  18:08             543 232 rlmclient.exe
30.10.2011  18:00             1 085 952 rlmdown.exe
30.10.2011  18:00             1 085 952 rlmhostid.exe
30.10.2011  18:00             1 085 952 rlmnewlog.exe
30.10.2011  18:00             1 085 952 rlmrefresh.exe
30.10.2011  18:00             1 085 952 rlmremove.exe
30.10.2011  18:00             1 085 952 rlmreread.exe
30.10.2011  18:00             1 085 952 rlmstat.exe
30.10.2011  18:00             1 085 952 rlmswitch.exe
30.10.2011  18:00             1 085 952 rlmswitchr.exe
30.10.2011  18:00             1 085 952 rlmutil.exe
          14 File(s)          13 298 550 bytes
           2 Dir(s)        95 546 454 016 bytes free

c:\Reprise>.\rlmdown RLM -q
c:\Reprise>
```

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

```
ca. Command Prompt
C:\Reprise>.\rlm
03/01 00:10 (rlm) RLM License Server Version 9.2BL4

    Copyright (C) 2006-2011, Reprise Software, Inc. All rights reserved.

03/01 00:10 (rlm) License server started on Pavilion
03/01 00:10 (rlm) Server architecture: x64_w3
03/01 00:10 (rlm) License files:
03/01 00:10 (rlm)     deskartes.lic
03/01 00:10 (rlm)
03/01 00:10 (rlm) Web server starting on port 5054
03/01 00:10 (rlm) Using TCP/IP port 5053
03/01 00:10 (rlm) Starting ISU servers:
03/01 00:10 (rlm)     ... deskartes on port 49589
03/01 00:10 (rlm) New thread created to watch ISU deskartes
03/01 00:10 (deskartes) RLM License Server Version 9.2BL4 for ISU "deskartes"
03/01 00:10 (deskartes) Settings from RLM Version 9.2BL4 for ISU "deskartes"
03/01 00:10 (deskartes) Server architecture: x64_w3

    Copyright (C) 2006-2011, 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) 1998-2008 The OpenSSL Project. All rights reserved.
    Copyright (c) 1995-1998 Eric Young (eay@cryptsoft.com) All rights reserved.

03/01 00:10 (deskartes)
03/01 00:10 (deskartes) Server started on Pavilion (hostid: 00238b1338d5) for:
03/01 00:10 (deskartes)     3de_clitool 3de_igs2vda 3de_stl2igs 3de_stlcut
03/01 00:10 (deskartes)     3de_stlpart 3de_stlredu 3de_stlrefine 3de_tr2sli
ce
03/01 00:10 (deskartes)     3de_tr2stl 3de_trbool 3de_troffs 3de_trsupp
03/01 00:10 (deskartes)     3de_vda2igs 3de_vda2tr 3de_vdaselect 3de_shellin
g
03/01 00:10 (deskartes)     3de_rapidcam 3de_vdainput 3de_surfcheck 3de_stlc
heck
03/01 00:10 (deskartes)     3de_stlrepair 3de_encrypt 3de_communicate
03/01 00:10 (deskartes)     3de_mod 3de_vis 3de_ncpath 3de_all 3de_trans
03/01 00:10 (deskartes)     3de_visplus
03/01 00:10 (deskartes) License files:
03/01 00:10 (deskartes)     deskartes.lic
03/01 00:10 (deskartes)
03/01 00:16 (rlm) Shutdown request by jma@pavilion
03/01 00:16 (rlm) Sending shutdown msg to deskartes (pid: 6216)
03/01 00:16 (deskartes) Shutdown request by jma@pavilion
03/01 00:16 (rlm) deskartes - SHUTDOWN
03/01 00:16 (rlm) Shutting down rlm

C:\Reprise>
```

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.

You can add a new rlm service to the Windows service list either using the “Manage Windows Service” tool in the rlm web interface or the rlm command in the Command Prompt.

Using the “Manage Windows Service” tool you need to do the following:

- Start the license server with the rlm command in the Command Prompt.
- Connect to the rlm web server with a browser (“http://localhost:5054”).
- Select the “Manage Windows Service” tool.
- Fill in the service information and select the “INSTALL service” action.
- Press “Apply”.

Using the rlm command you need to add following options to the command:

- The “-install_service” option.
- The “-service_name” option followed by the name for the service (“rlm-deskartes”).
- The “-dlog” option followed by the full path of the log file.
- The “-c” option followed by the full path of the license file.

Adding a new Windows service with either method does not start the license server. The startup type of the service is however set to “Automatic”, so the service (the license server) will be automatically started at the next restart of the machine.

It is possible to start the new service also without a reboot, using the Windows Services control panel. If you added the service using the “Manage Windows Service” tool in the rlm web interface, you have to however first stop the rlm running for that, before starting a new instance of rlm through the service.

The installed rlm service can also be removed from the Windows service list using either the “Manage Windows Service” tool or the rlm command.

Using the “Manage Windows Service” tool you need to do the following:

- Connect to the rlm web server with a browser (“http://localhost:5054”).
- Select the “Manage Windows Service” tool.
- Fill in the service information and select the “REMOVE service” action.
- Press “Apply”.

Using the rlm command you need to add the “-delete_service” option to the command.

The service has to be stopped via the Windows Services control panel before it can be removed.

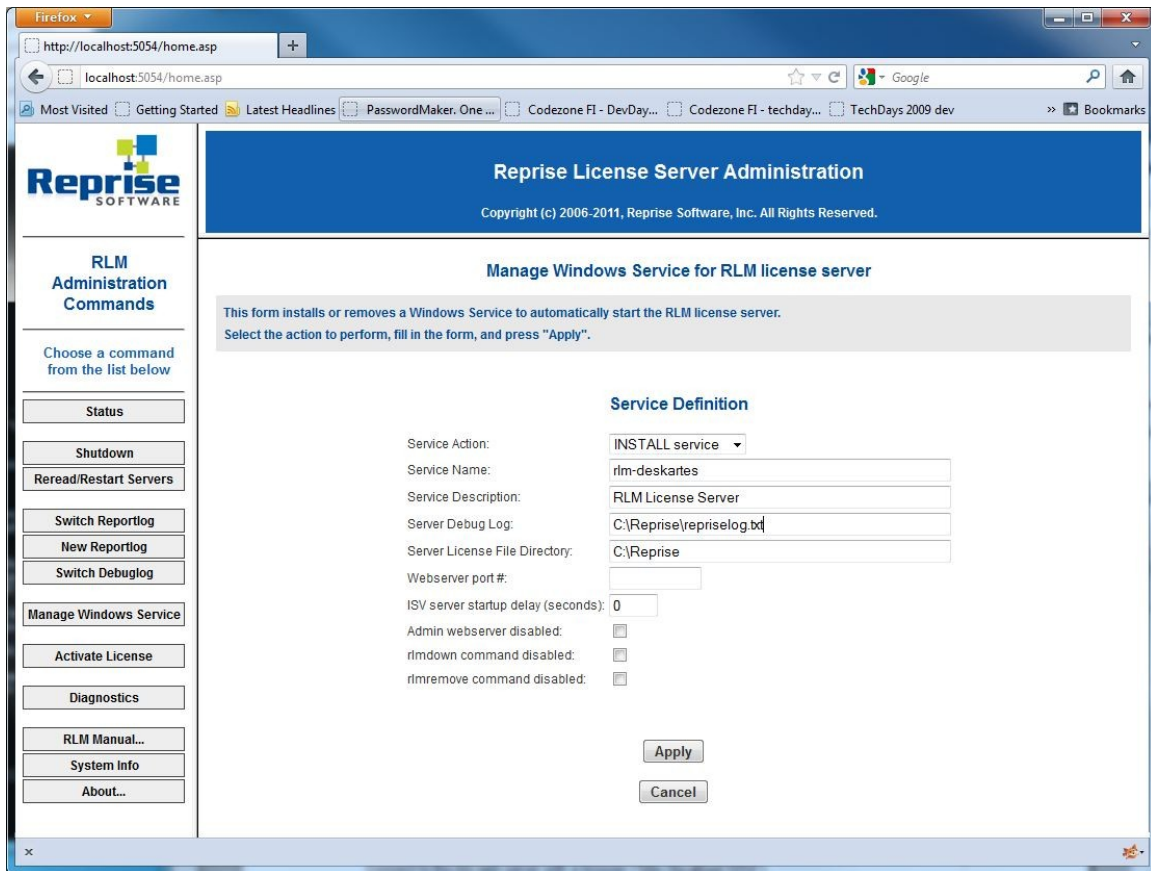
Installing rlm as a Windows service using the “Manage Windows Service” tool

For example if you have the license file (deskartes.lic) in the directory “C:\Reprise”, want the logfile (reprise.log.txt) to be written in the same directory and the service to be called “rlm-deskartes”, you need to do the following.

Start the license server with the rlm command in the Command Prompt. (See the “Starting the license server” section above.)

Connect to the rlm web server with a browser (“http://localhost:5054”).

Select the “Manage Windows Service” tool.



Fill in the service information

Service Name: rlm-deskartes
Server Debug Log: C:\Reprise\reprise.log.txt
Server License File Directory: C:\Reprise

and select the “INSTALL service” action.

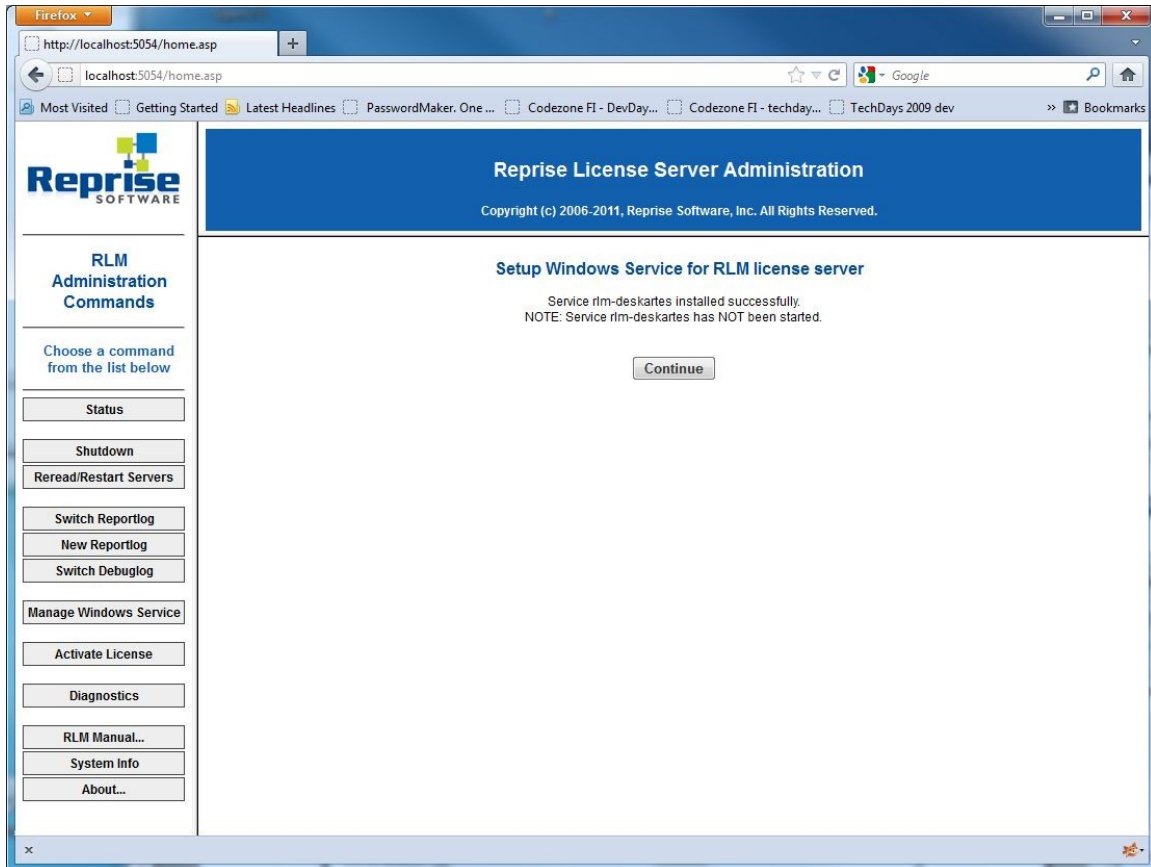
Press “Apply”

If the service is successfully installed, you see the following message.

Setup Windows Service for RLM license server

Service rlm-deskartes installed successfully.

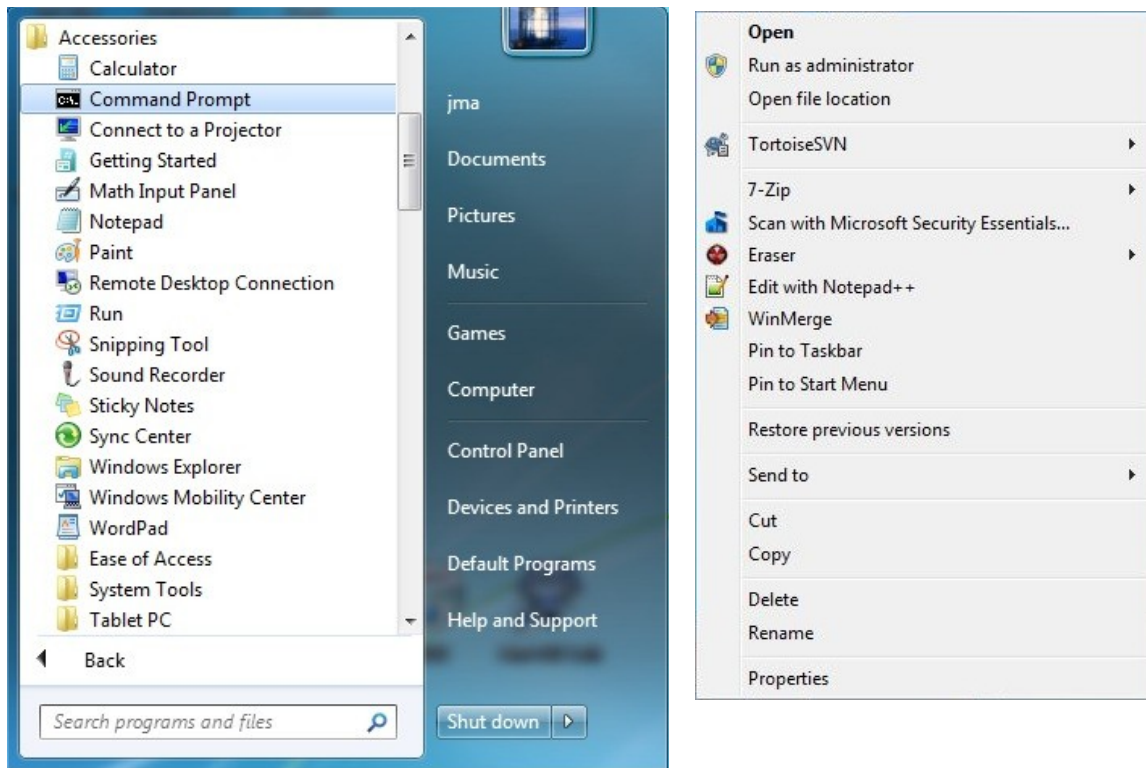
NOTE: Service rlm-deskartes has NOT been started.



Note: If you have the User Account Control (UAC) enabled on Windows Vista or 7, you might get an error message saying that “Service install failed. Error: Access to Service Control Manager denied.”

The solution to this is to start a Command Prompt using the “Run as administrator” command, and then start the rlm for the web interface from that Command Prompt.

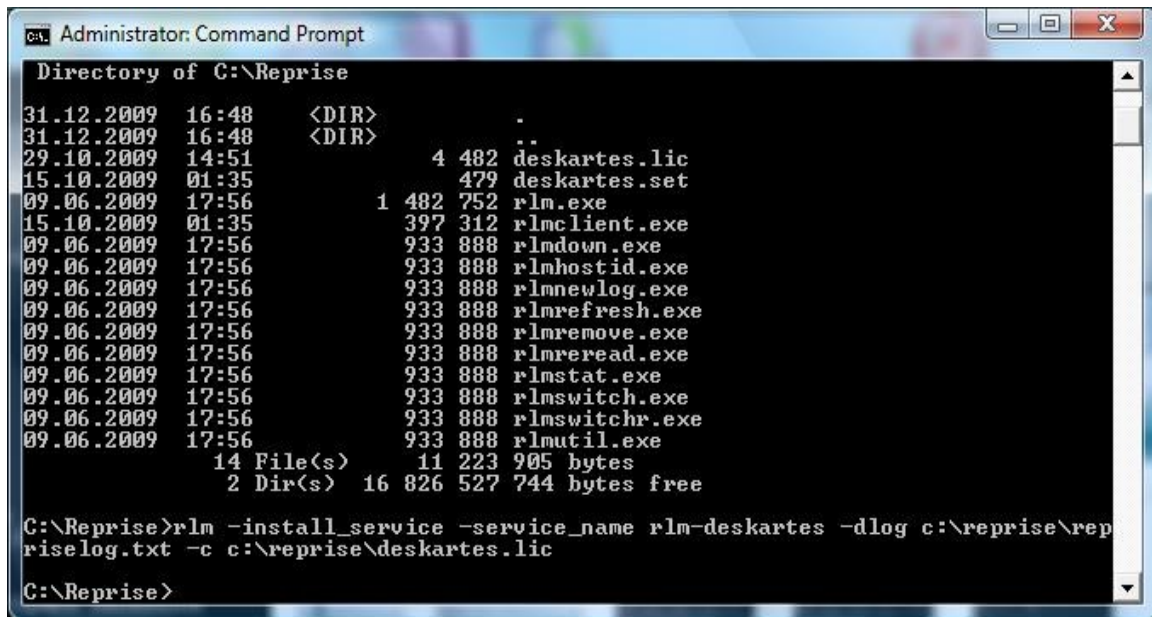
You can find the “Run as administrator” command in the popup menu that appears when you click the Start menu item for the Command Prompt (Start->All Programs->Accessories->Command Prompt) with the right mouse button.



Installing rlm as a Windows service using the rlm command

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

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



```
Administrator: Command Prompt  
Directory of C:\Reprise  
31.12.2009 16:48 <DIR> .  
31.12.2009 16:48 <DIR> ..  
29.10.2009 14:51 4 482 deskartes.lic  
15.10.2009 01:35 479 deskartes.set  
09.06.2009 17:56 1 482 752 rlm.exe  
15.10.2009 01:35 397 312 rlmclient.exe  
09.06.2009 17:56 933 888 rlmshutdown.exe  
09.06.2009 17:56 933 888 rlmhostid.exe  
09.06.2009 17:56 933 888 rlmnewlog.exe  
09.06.2009 17:56 933 888 rlmrefresh.exe  
09.06.2009 17:56 933 888 rlmremove.exe  
09.06.2009 17:56 933 888 rlmreread.exe  
09.06.2009 17:56 933 888 rlmstat.exe  
09.06.2009 17:56 933 888 rlmswitch.exe  
09.06.2009 17:56 933 888 rlmswitchr.exe  
09.06.2009 17:56 933 888 rlmutil.exe  
14 File(s) 11 223 905 bytes  
2 Dir(s) 16 826 527 744 bytes free  
  
C:\Reprise>rlm -install_service -service_name rlm-deskartes -dlog c:\reprise\re  
prise.log.txt -c c:\reprise\deskartes.lic  
  
C:\Reprise>
```

Note: If you have the User Account Control (UAC) enabled on Windows Vista or 7, you might get an error message saying that "Error: Access to Service Control Manager denied."

The solution to this is to start a Command Prompt using the "Run as administrator" command, and then run the rlm command in that Command Prompt.

You can find the "Run as administrator" command in the popup menu that appears when you click the Start menu item for the Command Prompt (Start->All Programs->Accessories->Command Prompt) with the right mouse button.

Starting rlm service using the Windows Services control panel

Note: If you installed the rlm Windows service using the “Manage Windows Service” tool, you have to close the browser window and stop the rlm.exe run for that in a Command Prompt window. Otherwise you end up in running two license server instances.

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

Windows 7:

“Start->Control Panel (View by: Large icons): Administrative Tools: Services”

Windows Vista:

“Start->Control Panel (Classic View): Administrative Tools: Services”

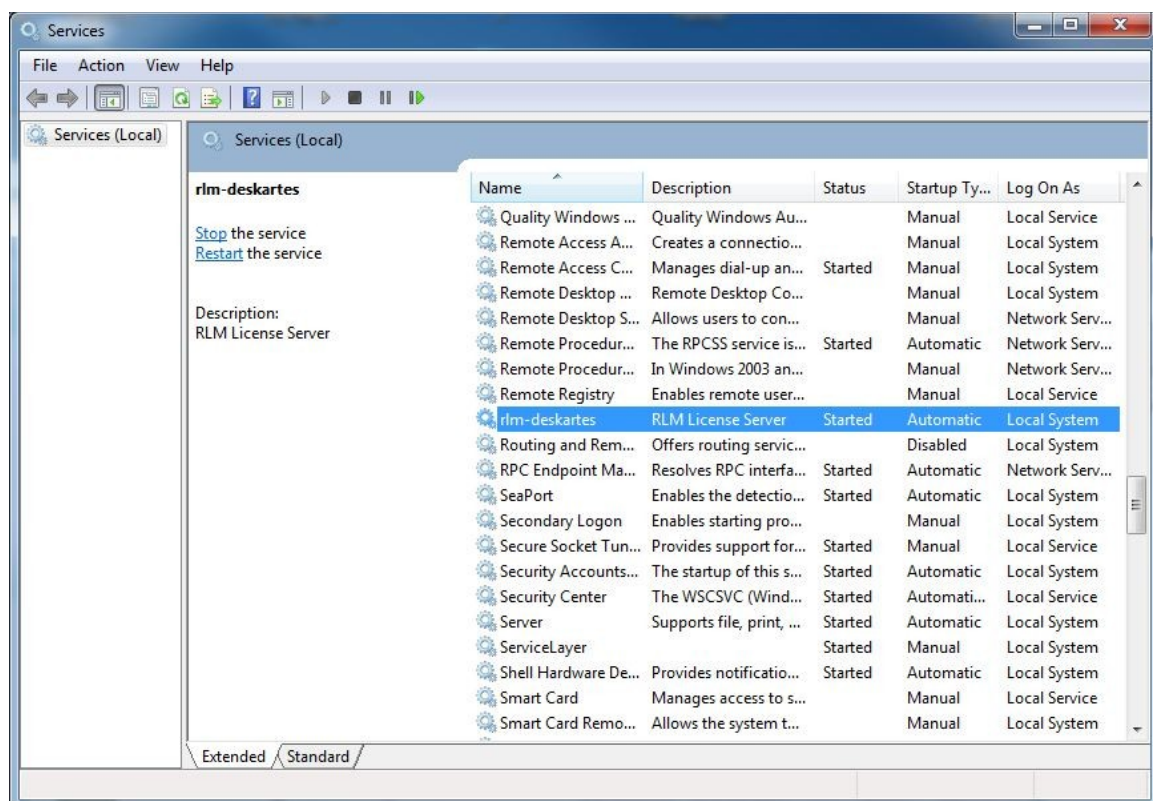
Windows XP:

“Start->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.



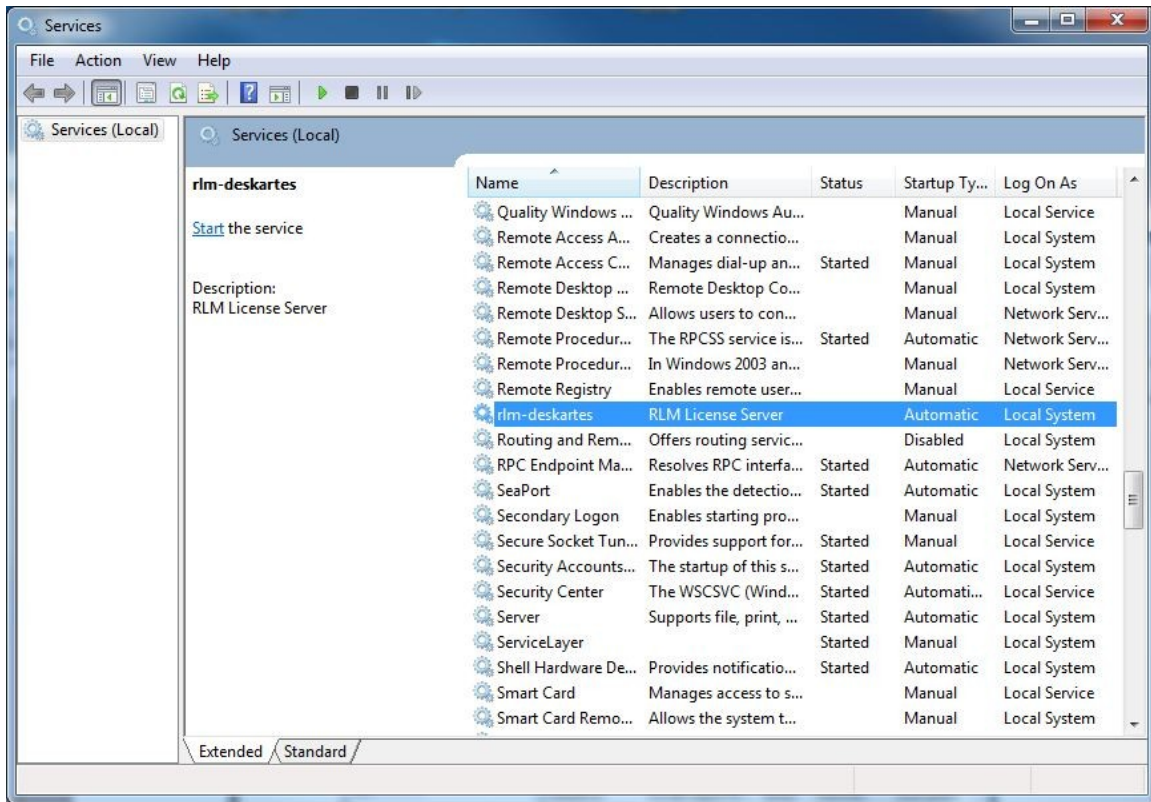
Stopping rlm service using the Windows Services control panel

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.



Note: The rlm service has to be stopped before it can be removed from the services list.

Removing rlm service using the “Manage Windows Service” tool

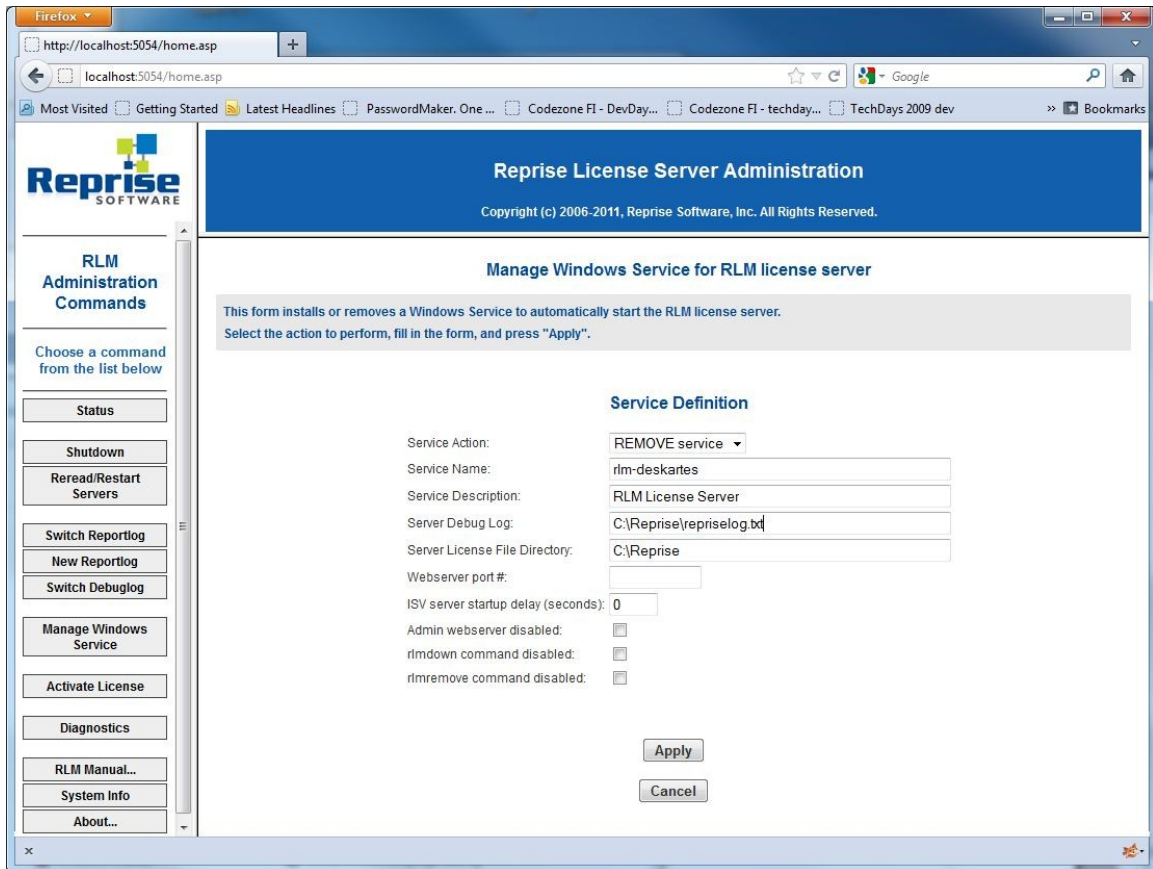
Note: Because the rlm service has to be stopped before it can be removed, you cannot use the web interface of the rlm service process for removing the service. You have to start another rlm license server from the Command Prompt for the web interface.

To remove the rlm service from the Windows service list do the following.

Start the license server with the rlm command in the Command Prompt. (See the “Starting the license server” section above.)

Connect to the rlm web server with a browser (“http://localhost:5054”).

Select the “Manage Windows Service” tool.



The screenshot shows a Firefox browser window displaying the Reprise License Server Administration web interface. The address bar shows 'http://localhost:5054/home.asp'. The page title is 'Reprise License Server Administration' with a copyright notice for 2006-2011. The main content area is titled 'Manage Windows Service for RLM license server' and contains a form for service management. The form includes a 'Service Definition' section with the following fields:

Field	Value
Service Action:	REMOVE service
Service Name:	rlm-deskartes
Service Description:	RLM License Server
Server Debug Log:	C:\Reprise\reprise.log.txt
Server License File Directory:	C:\Reprise
Webserver port #:	
ISV server startup delay (seconds):	0
Admin webserver disabled:	<input type="checkbox"/>
rlmdown command disabled:	<input type="checkbox"/>
rlmremove command disabled:	<input type="checkbox"/>

Buttons for 'Apply' and 'Cancel' are located at the bottom of the form. A left sidebar contains navigation options such as 'Status', 'Shutdown', 'Reread/Restart Servers', 'Switch Reportlog', 'New Reportlog', 'Switch Debuglog', 'Manage Windows Service', 'Activate License', 'Diagnostics', 'RLM Manual...', 'System Info', and 'About...'.

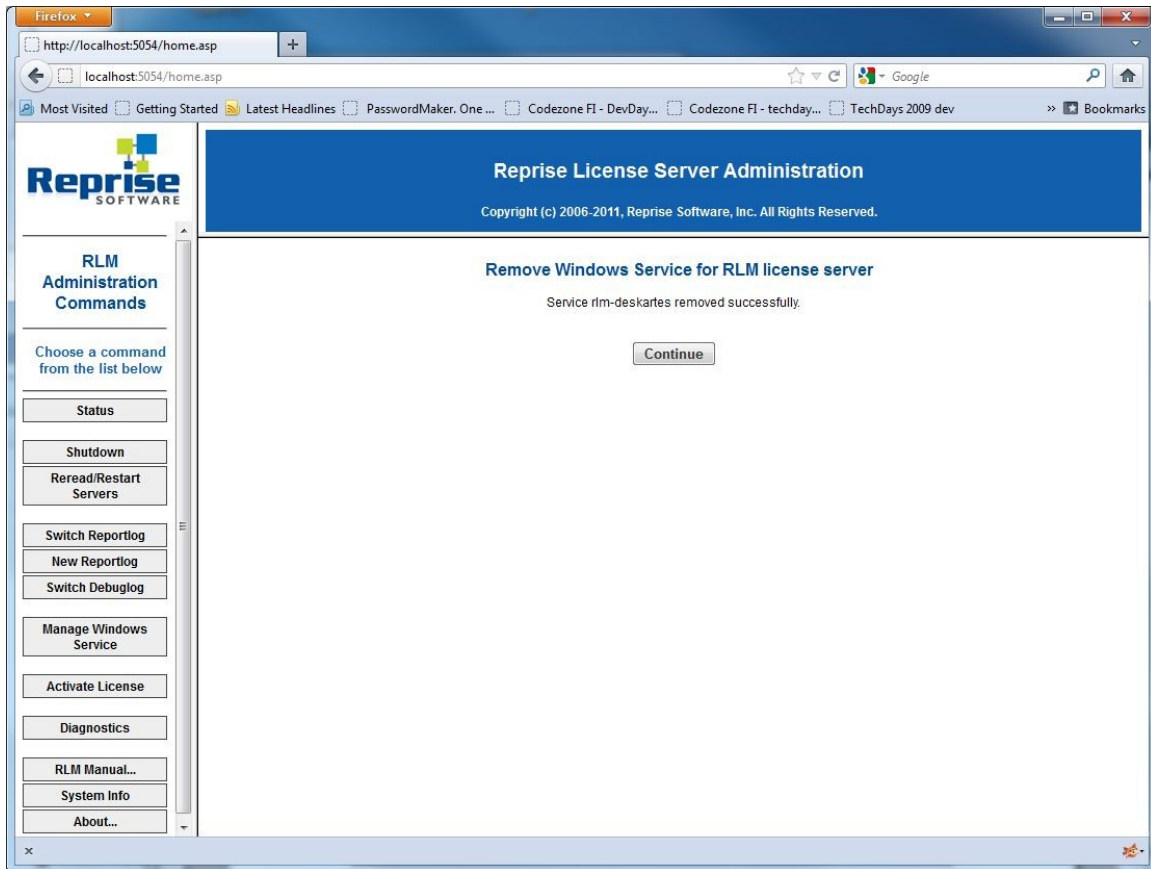
Fill in the service name (“rlm-deskartes”) and select the “REMOVE service” action.

Press “Apply”

If the service is successfully removed, you see the following message.

Remove Windows Service for RLM license server

Service rlm-deskartes removed successfully.



Note: If you have the User Account Control (UAC) enabled on Windows Vista or 7, you might get an error message saying that “Service “rim-deskartes” deletion failed. Error: OpenService failed (5).”

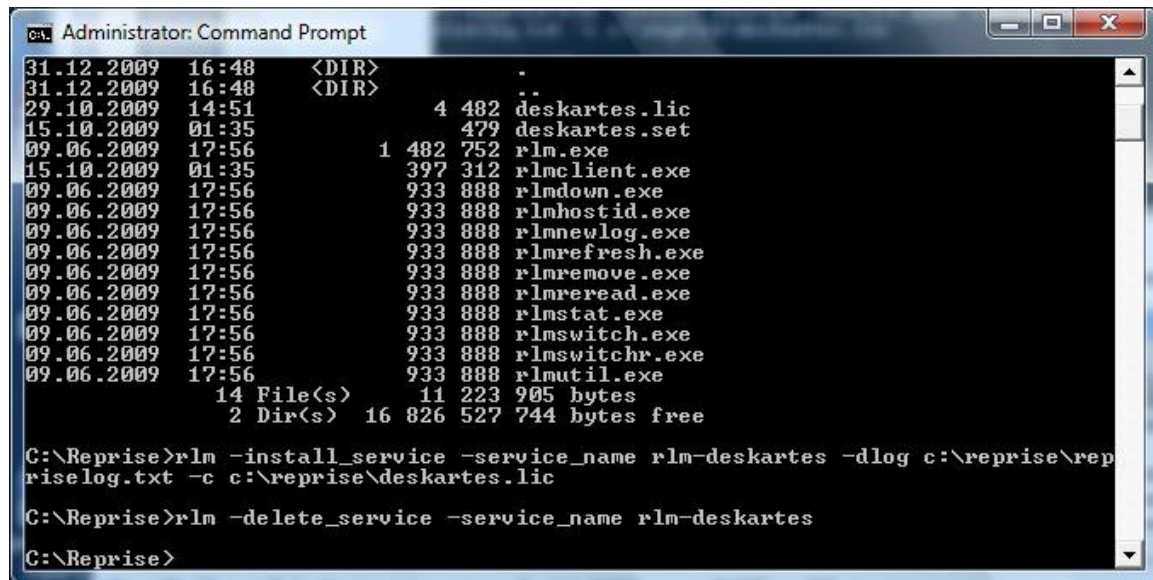
The solution to this is to start a Command Prompt using the “Run as administrator” command, and then start the rlm for the web interface from that Command Prompt.

You can find the “Run as administrator” command in the popup menu that appears when you click the Start menu item for the Command Prompt (Start->All Programs->Accessories->Command Prompt) with the right mouse button.

Removing rlm service using the rlm command

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
```



```
Administrator: Command Prompt
31.12.2009 16:48 <DIR> .
31.12.2009 16:48 <DIR> ..
29.10.2009 14:51          4 482 deskartes.lic
15.10.2009 01:35          1 482 479 deskartes.set
09.06.2009 17:56          1 482 752 rlm.exe
15.10.2009 01:35          397 312 rlmclient.exe
09.06.2009 17:56          933 888 rlmshutdown.exe
09.06.2009 17:56          933 888 rlmhostid.exe
09.06.2009 17:56          933 888 rlmnewlog.exe
09.06.2009 17:56          933 888 rlmrefresh.exe
09.06.2009 17:56          933 888 rlmremove.exe
09.06.2009 17:56          933 888 rlmreread.exe
09.06.2009 17:56          933 888 rlmstat.exe
09.06.2009 17:56          933 888 rlmswitch.exe
09.06.2009 17:56          933 888 rlmswitchr.exe
09.06.2009 17:56          933 888 rlmutil.exe
          14 File(s)          11 223 905 bytes
           2 Dir(s)         16 826 527 744 bytes free

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

C:\Reprise>rlm -delete_service -service_name rlm-deskartes

C:\Reprise>
```

Note: If you have the User Account Control (UAC) enabled on Windows Vista or 7, you might get an error message saying that “Error: OpenService failed (5).”

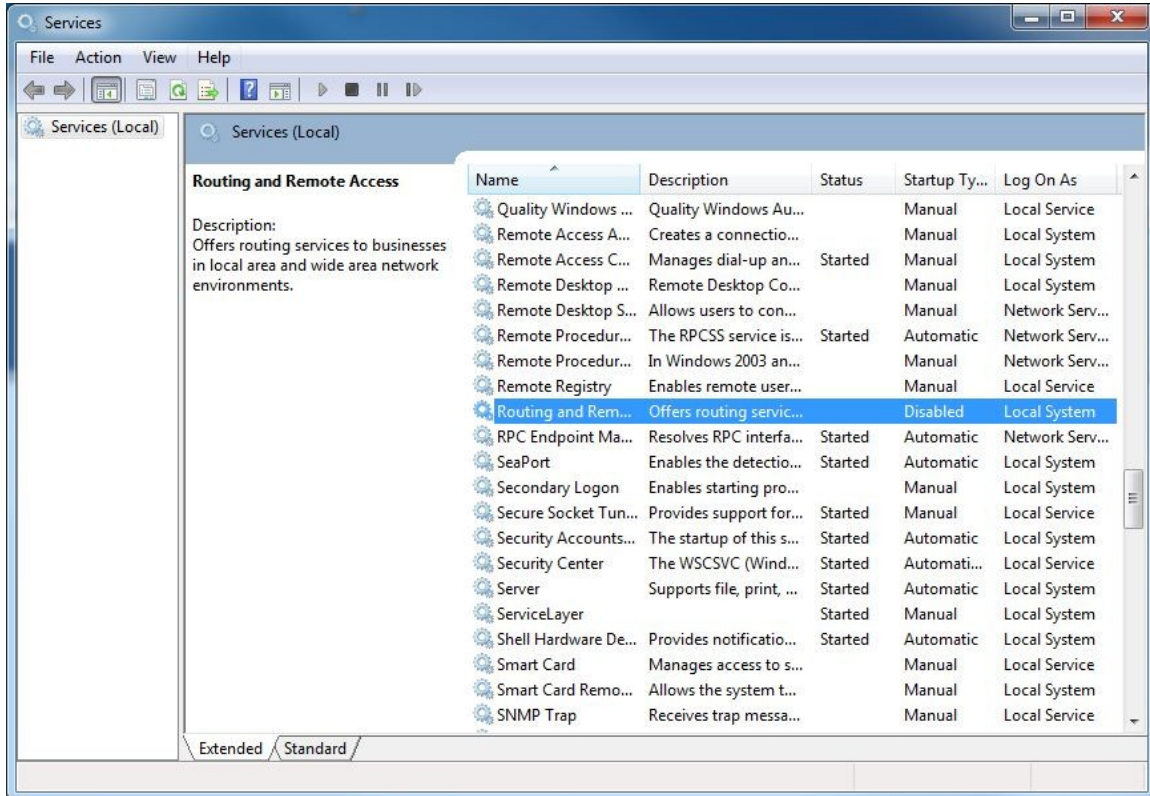
The solution to this is to start a Command Prompt using the “Run as administrator” command, and then run the rlm command in that Command Prompt.

You can find the “Run as administrator” command in the popup menu that appears when you click the Start menu item for the Command Prompt (Start->All Programs->Accessories->Command Prompt) with the right mouse button.

Checking the rlm service removal with the Windows Services control panel

After removing the rlm service with either “Manage Windows Service” tool or the rlm command, you can check again the services list in the Windows Services control panel.

The “rlm-deskartes” service should not be found in the services list any more.



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 or in the “Manage Windows Service” tool (for example: “c:\reprise\reprise\log.txt”). The log file contains the similar information that is shown in the startup command prompt in the default configuration.

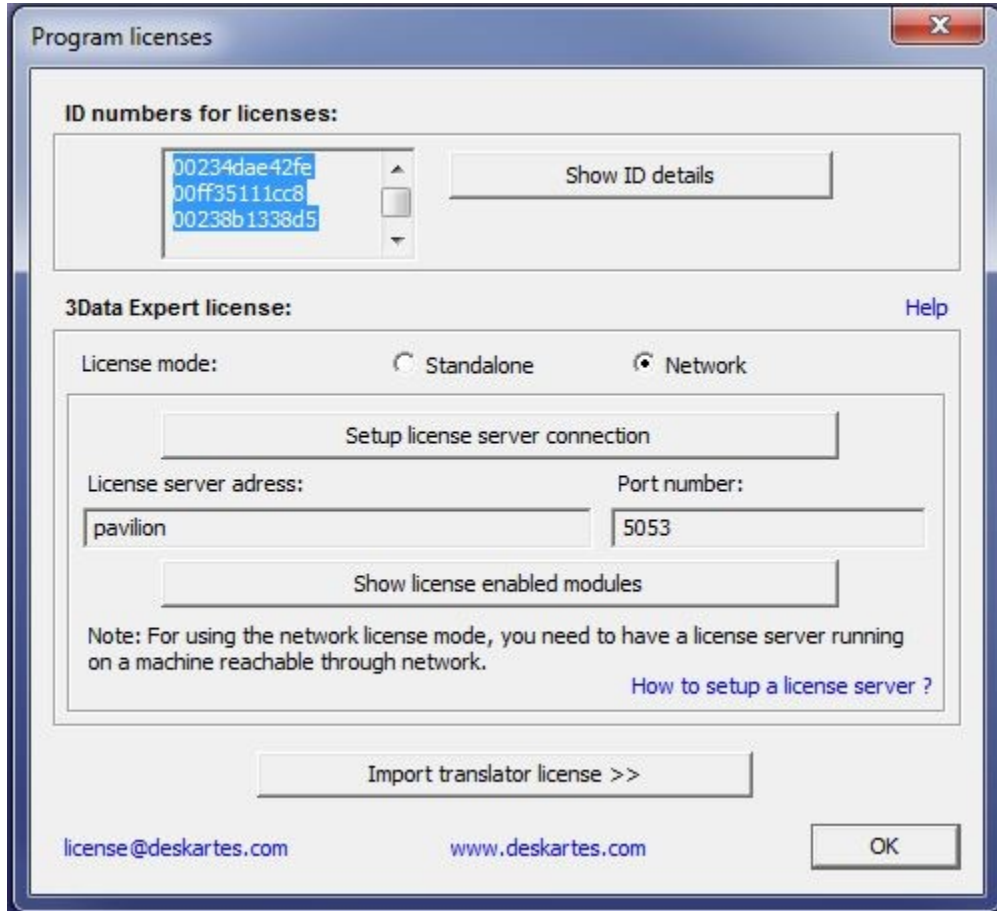
The information in the log file is useful especially when trying to resolve problems in running the rlm license server.

Additional information

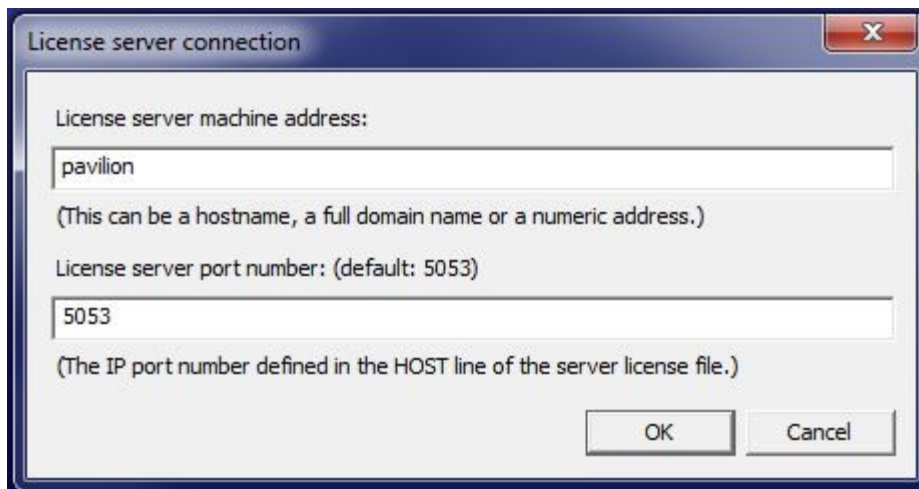
For further details see “Running the rlm server as a service on Windows” in “The License Server” section, and the ISV line description in the “The License File” section, of the Reprise end user manual (http://www.reprisesoftware.com/RLM_Enduser.html).

Network license client configuration in 3Data Expert

The license system settings can be changed in 3Data Expert by selecting the “Help->Licenses...” menu command.



In the Licenses dialog select the “Network” license type and press the “Setup license server connection” button.

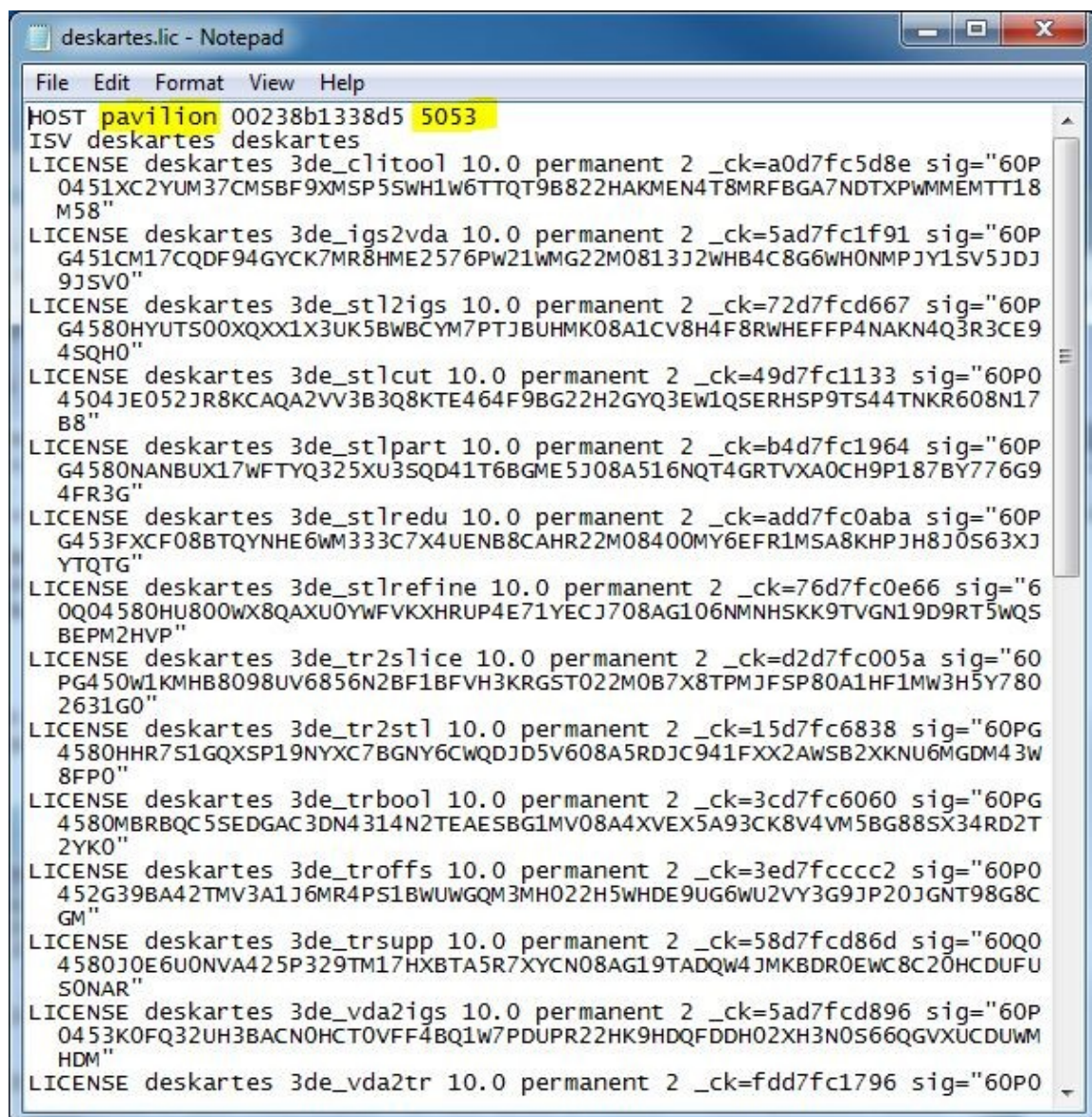


Fill in the "License server machine address" and "License server port number".

"**License server machine address** is a network address for the machine where the license server program is running. It can be a simple hostname, a full domain name or a numeric address (for example: licserver, licserver.somedomain.com or 192.168.0.105)"

"**License server port number** is the IP port number used by the license server to listen license requests from client machines. The port number is defined in the HOST line of the license file. The default port number is 5053."

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

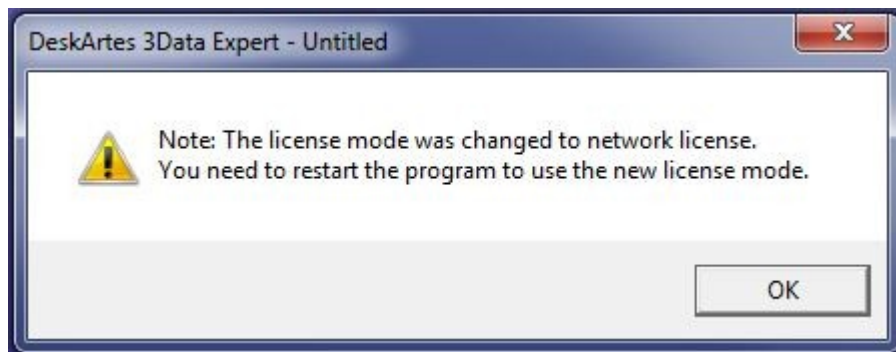


```
deskartes.lic - Notepad
File Edit Format View Help
HOST pavilion 00238b1338d5 5053
ISV deskartes deskartes
LICENSE deskartes 3de_clitool 10.0 permanent 2 _ck=a0d7fc5d8e sig="60P
0451XC2YUM37CMSBF9XMSP5SWH1W6TTQT9B822HAKMEN4T8MRFBGA7NDTXPWMMEMTT18
M58"
LICENSE deskartes 3de_igs2vda 10.0 permanent 2 _ck=5ad7fc1f91 sig="60P
G451CM17CQDF94GYCK7MR8HME2576PW21WMG22M0813J2WHB4C8G6WH0NMPJY15V5JDJ
9JSV0"
LICENSE deskartes 3de_stl2igs 10.0 permanent 2 _ck=72d7fcd667 sig="60P
G4580HYUTS00XQXX1X3UK5BWB CYM7PTJBUHMK08A1CV8H4F8RWHEFFP4NAKN4Q3R3CE9
4SQH0"
LICENSE deskartes 3de_stlcut 10.0 permanent 2 _ck=49d7fc1133 sig="60P0
4504JE052JR8KCAQA2VV3B3Q8KTE464F9BG22H2GYQ3EW1QSERHSP9TS44TNKR608N17
B8"
LICENSE deskartes 3de_stlpart 10.0 permanent 2 _ck=b4d7fc1964 sig="60P
G4580NANBUX17WFTYQ325XU3SQD41T6BGME5J08A516NQT4GRTVXA0CH9P187BY776G9
4FR3G"
LICENSE deskartes 3de_stlredu 10.0 permanent 2 _ck=add7fc0aba sig="60P
G453FXCF08BTQYNHE6WM333C7X4UENB8CAHR22M08400MY6EFR1MSA8KHPJH8J0S63XJ
YTQTG"
LICENSE deskartes 3de_stlrefine 10.0 permanent 2 _ck=76d7fc0e66 sig="6
0Q04580HU800WX8QAXU0YWFKXHRUP4E71YECJ708AG106NMNHSKK9TVGN19D9RT5WQS
BEPM2HVP"
LICENSE deskartes 3de_tr2slice 10.0 permanent 2 _ck=d2d7fc005a sig="60
PG450w1KMHB8098UV6856N2BF1BFVH3KRGST022M0B7X8TPMJFSP80A1HF1MW3H5Y780
2631G0"
LICENSE deskartes 3de_tr2stl 10.0 permanent 2 _ck=15d7fc6838 sig="60PG
4580HHR7S1GQXSP19NYXC7BGNY6CWQDJD5V608A5RDJC941FXX2AWSB2XKNU6MGDM43W
8FPO"
LICENSE deskartes 3de_trbool 10.0 permanent 2 _ck=3cd7fc6060 sig="60PG
4580MBRBQC5SEDGAC3DN4314N2TEAESBG1MV08A4XVEX5A93CK8V4VM5BG88SX34RD2T
2YK0"
LICENSE deskartes 3de_troffs 10.0 permanent 2 _ck=3ed7fcccc2 sig="60P0
452G39BA42TMV3A1J6MR4PS1BWUWGQM3MH022H5WHDE9UG6WU2VY3G9JP20JGNT98G8C
GM"
LICENSE deskartes 3de_trsupp 10.0 permanent 2 _ck=58d7fcd86d sig="60Q0
4580J0E6U0NVA425P329TM17HXBTA5R7XYCN08AG19TADQW4JMKBDR0EWC8C20HCDFU
SONAR"
LICENSE deskartes 3de_vda2igs 10.0 permanent 2 _ck=5ad7fcd896 sig="60P
0453K0FQ32UH3BACN0HCT0VFF4BQ1W7PDUPR22HK9HDQFDDH02XH3N0S66QGVXUCDUWM
HDM"
LICENSE deskartes 3de_vda2tr 10.0 permanent 2 _ck=fdd7fc1796 sig="60P0
```

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

```
Command Prompt - .rlm
C:\Reprise>.\rlm
03/01 00:10 (rlm) RLM License Server Version 9.2BL4
Copyright (C) 2006-2011, Reprise Software, Inc. All rights reserved.
03/01 00:10 (rlm) License server started on Pavilion
03/01 00:10 (rlm) Server architecture: x64_w3
03/01 00:10 (rlm) License files:
03/01 00:10 (rlm) deskartes.lic
03/01 00:10 (rlm) Web server starting on port 5054
03/01 00:10 (rlm) Using TCP/IP port 5053
03/01 00:10 (rlm) Starting ISU servers:
03/01 00:10 (rlm) ... deskartes on port 49589
03/01 00:10 (rlm) New thread created to watch ISU deskartes
03/01 00:10 (deskartes) RLM License Server Version 9.2BL4 for ISU "deskartes"
03/01 00:10 (deskartes) Settings from RLM Version 9.2BL4 for ISU "deskartes"
03/01 00:10 (deskartes) Server architecture: x64_w3
Copyright (C) 2006-2011, 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) 1998-2008 The OpenSSL Project. All rights reserved.
Copyright (c) 1995-1998 Eric Young (eay@cryptsoft.com) All rights reserved.
03/01 00:10 (deskartes) Server started on Pavilion (hostid: 00238b1338d5) for:
03/01 00:10 (deskartes) 3de_clitool 3de_igs2vda 3de_stl2igs 3de_stlcut
03/01 00:10 (deskartes) 3de_stlpart 3de_stlredu 3de_stlrefine 3de_tr2sli
ce
03/01 00:10 (deskartes) 3de_tr2stl 3de_trbool 3de_troffs 3de_trsupp
03/01 00:10 (deskartes) 3de_vda2igs 3de_vda2tr 3de_vdaselect 3de_shellin
g
03/01 00:10 (deskartes) 3de_rapidcam 3de_vdainput 3de_surfcheck 3de_stlc
heck
03/01 00:10 (deskartes) 3de_stlrepair 3de_encrypt 3de_communicate
03/01 00:10 (deskartes) 3de_mod 3de_vis 3de_ncpath 3de_all 3de_trans
03/01 00:10 (deskartes) 3de_visplus
03/01 00:10 (deskartes) License files:
03/01 00:10 (deskartes) deskartes.lic
03/01 00:10 (deskartes)
```

Press "OK"



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