

# Rubo Medical Imaging

## DICOM Viewer 2.0

- ...including
- DICOM Communication
  - DICOM Anonymizer
  - DICOM Parser
  - DICOM DVD Burner
  - Waveform viewer
  - IVUS Longitudinal viewer

### Network/Floating License Installation Instructions for the Activation Key License

Installation steps:

On the Windows computer that will act as License Server (**SERVER**):

1. Download and Install the NetKey License Server, SERVER
2. Activate the License, SERVER

-or-

Activate the License, SERVER, from remote location

On the **CLIENT** computer:

1. Install the DICOM Viewer, CLIENT

See the next pages..

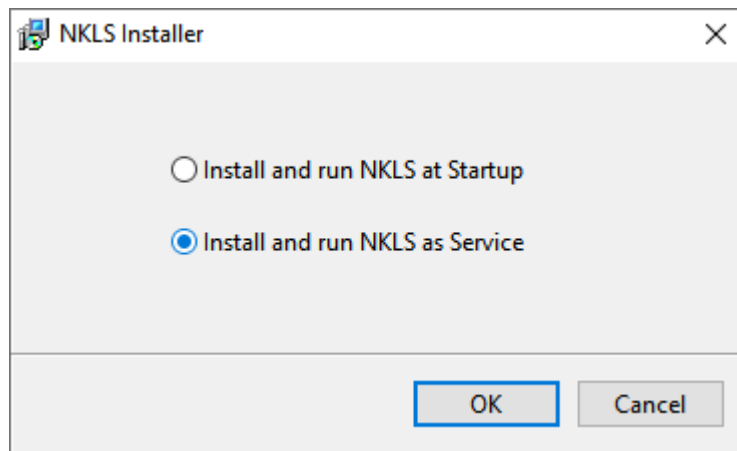
*These instructions apply to the DICOM Viewer, build 201113 or later, Activation Key network/floating license*

## Download and Install the NetKey License Server, SERVER

The NetKey License Server handles start-up requests from client computers (users) and must be installed on the server or computer running 24/7. Administrator privileges are required.

Download the NetKey License Server here: [www.rubomedical.com/download](http://www.rubomedical.com/download), see 'Other downloads'. Unzip it and choose to install via the setup file (setup.exe) or the Windows Installer Package (NetKey License Server 4.0 EK.msi).

Finalize setup by choosing to install and run NetKey License Server as a Service or at Startup. Choose '**Startup**' if you would like access to the user interface of the License Server. The user interface shows License details, connection information and advanced settings. Open the interface via the icon in the system tray. Choose '**Service**' to run the License Server as a service. The user interface is not available.



You may need to restart the server or stop and run the NetKey service if the just installed License Server cannot be found by the software.

By default, the License Server uses **port 1245** for communication. Check that the port number is open for communication between server and clients.

## Activate the License, SERVER

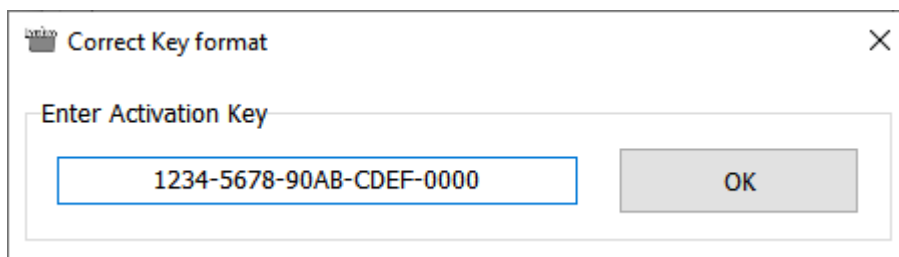
Activate the network/floating license using the License tool and the Activation Key.

Download the License Tool from the download page, see 'Other Downloads': [www.rubomedical.com/download](http://www.rubomedical.com/download). Unzip the files and store them on the server where the NetKey License Server is installed.

*You may receive a Windows Defender SmartScreen pop-up when starting the batch files, warning you of an unrecognized app. Click 'Run anyway' to continue.*

*You may receive a Windows Defender Firewall pop-up when starting the License Tool. Click 'Allow access' to continue.*

1. On the server, run batch file 'network\_Registration.bat' or 'network\_Activate.bat'.
2. If asked, allow the application to pass through the firewall. Communication with our license server is required.
3. Click 'OK' to connect to the NetKey License Server. Hostname 'localhost' and port number '1245' are default. See 'LicenseTool.html' to specify a different IP address or hostname and port number.
4. Enter the Activation Key and press OK.



5. Fill out the registration fields and click 'Continue'. At least last name and email address are required for future communication.

The Activation Key is checked with our license server and is activated. The License Key is now linked to the hardware signature of the server. The NetKey License Server can be contacted by clients to request start-up of the DICOM Viewer application. Start-up is granted when a License is available in the pool of network/floating licenses. See 'Install the DICOM Viewer, CLIENT' for client installation and IP address / hostname configuration.

The License can be installed on a single server only due to the hardware signature. Transfer the License to a different server by deactivating it on the old server and activating the License Key on the new server. You will need the License Tool for this, start 'network\_Transfer.bat' or check 'LicenseTool.html' for command-line arguments.

## Activate the License, SERVER, from remote location

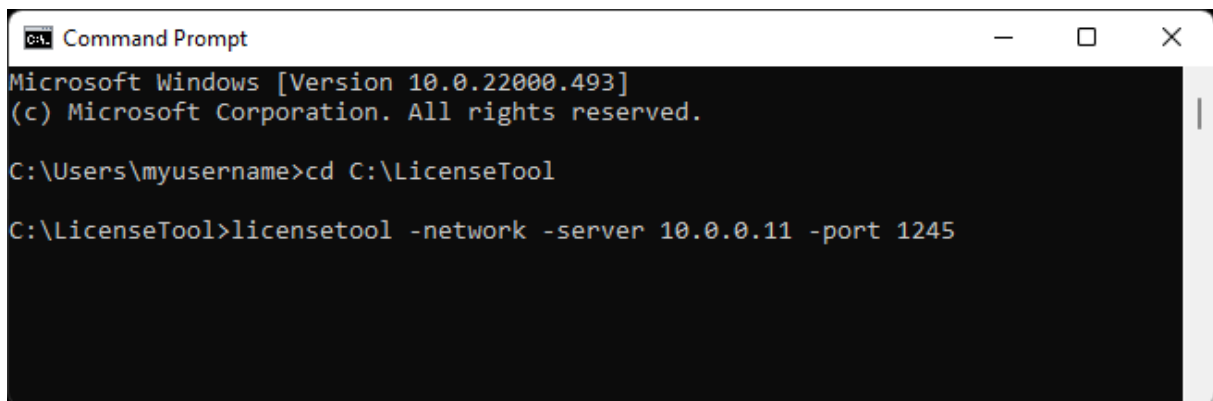
Activate the network/floating license using the License tool and the Activation Key from a remote location.

Download the License Tool from the download page, see 'Other Downloads': [www.rubomedical.com/download](http://www.rubomedical.com/download). Unzip the files and store them on the remote location.

*You may receive a Windows Defender SmartScreen pop-up when starting the batch files, warning you of an unrecognized app. Click 'Run anyway' to continue.*

*You may receive a Windows Defender Firewall pop-up when starting the License Tool. Click 'Allow access' to continue.*

1. On the server, make sure that the NetKey License Server is installed, running and can be reached from the remote location. Note the IP address of the server and port number used by the NetKey License Server (default: 1245).
2. On the remote location, start the Command Prompt.
3. Change the directory to the location where you have stored the License Tool.
4. Start the License Tool with the following command-line:



```
Command Prompt
Microsoft Windows [Version 10.0.22000.493]
(c) Microsoft Corporation. All rights reserved.

C:\Users\myusername>cd C:\LicenseTool

C:\LicenseTool>licensetool -network -server 10.0.0.11 -port 1245
```

Replace '10.0.0.11' with the IP address of the server where the NetKey License Server is installed. Replace port '1245' if you have changed the default port number.

5. Click 'OK' to connect to the NetKey License Server at the IP address specified in step 4.
6. Please continue with step 4 of the previous page 'Activate the License, SERVER'.

## Install the DICOM Viewer, CLIENT

The installation of the DICOM Viewer on client computers **must include** the servers address (hostname or IP address) and optionally the communication port number.

For each client, start the DICOM Viewer installation with the following command-line parameters: '-LM:' followed by the IP address or hostname of the server and, optionally, parameter '-LMPORT:' followed by the port number. The default port number is 1245.

```
D:\>DicomViewerSetup32.exe -LM:10.2.1.101 -LMPORT:1245
```

*Example IP address 10.2.1.101, port 1245*

The server details are stored in the Network key configuration file 'Netkey.ini', located in the installation folder of the DICOM Viewer.

Installation command-line parameters:

-LM:	Hostname or IP address of the NetKey License Server
-LMPORT:	Communication port number of the NetKey License Server
-nohasp	Skip USB key driver installation. Not needed for an Activation Key License.
/verysilent	Silent installation

Installation command-line example, silent installation, no USB key drivers (saves installation time), IP address of NetKey License Server is 10.2.1.101 and the default port number 1245 is used:

```
D:\>DicomViewerSetup32.exe /verysilent -nohasp -LM:10.2.1.101
```

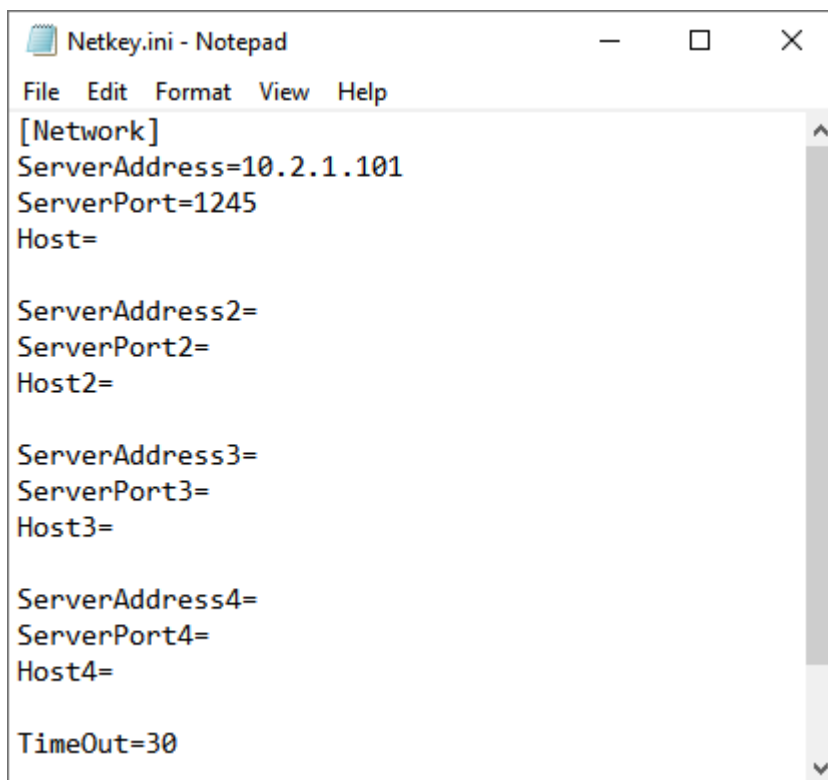
## Setup a different server IP address or hostname, CLIENT

When the IP address or hostname of the NetKey License Server has changed, all client computers must be setup again.

The server details are stored in the Network key configuration file 'Netkey.ini' stored in the installation folder of the DICOM Viewer. Default installation folder:  
'C:\Program Files (x86)\DICOMviewer'

**Edit** the configuration file 'Netkey.ini' and enter the correct IP address or hostname and port number. **Distribute** the configuration file to all users with an installation of the DICOM Viewer.

Another option is to **reinstall** the DICOM Viewer with the new IP address/hostname and/or port number as described in section 'Install the DICOM Viewer, CLIENT'.



```
Netkey.ini - Notepad
File Edit Format View Help
[Network]
ServerAddress=10.2.1.101
ServerPort=1245
Host=

ServerAddress2=
ServerPort2=
Host2=

ServerAddress3=
ServerPort3=
Host3=

ServerAddress4=
ServerPort4=
Host4=

TimeOut=30
```

## Additional information

### *Server or PC?*

You may install the NetKey License Server on a server or on any PC. The server or PC must be accessible by all clients 24/7 and the communication port number (default 1245) must be open in (all) your firewalls.

If the NetKey License Server cannot be found, either the port is not open, the IP address is incorrect or the NetKey License Server is not running.

### *Microsoft Defender SmartScreen*

Click 'More info' and then 'Run anyway' to use the batch files included with the License Tool.

### *Windows Defender Firewall*

If the 'Microsoft Security Alert' pops up, click 'Allow access' to allow communication of the NetKey communication software.

### *Existing DICOM viewer installations*

The Network key configuration file 'Netkey.ini' may be copied to the installation folder of an existing DICOM viewer installation. This prevents reinstalling any existing installation. **Build 201113** or later must be installed. The default installation folder is 'C:\Program Files (x86)\DICOMViewer'.

### *Activation Key*

The Activation Key you received, is unique and created by us. It represents the License and options bought by you. It must be checked and activated on our Licensing server and if successful, a License is created on your server (or PC 24/7). Once every few weeks, the License is validated through our Licensing server which means that an internet connection must then be available.

### *License tools and information*

License tools (roaming / transfer / activate / upgrade) are available via the menu of the DICOM viewer: 'Help / License'. Click on 'Info' to view the details of your License.

License tools are also available via the separate License Tool, which can be downloaded from our download page: [www.rubomedical.com/download](http://www.rubomedical.com/download).

### *Revert back to Gemalto/Sentinel/HASP license*

If the Network key configuration file 'Netkey.ini' is present in the installation folder of the DICOM viewer, the software will NOT check presence of the USB hardware key license. Remove or rename the configuration file to revert back to your USB hardware key license.