

Agilent E6474A-081

**Wireless Network
Optimization Platform**

**Software License Server
User's Guide**



Agilent Technologies

Notices

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Agilent Technologies
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A **WARNING** notice denotes a hazard. It calls attention to an operating procedure, practice, or the like that, if not correctly performed or adhered to, could result in personal injury or death. Do not proceed beyond a **WARNING** notice until the indicated conditions are fully understood and met.

Welcome to Agilent E6474A-081 Software License Server

Thank you for choosing Agilent Technologies. In this User's Guide, you will find the instructions you need to setup and begin using the software to control and supply licenses for the Agilent E6474A system.

About this guide

This guide contains installation and operating instructions for the Agilent E6474A-081 Software License Server software, as well as instructions for using the Server Monitor software.

See this chapter	For this information
1 Server Installation and Configuration	<ul style="list-style-type: none">• Install the software.• Unlock your server.• Start and stop your server.• Adding licenses to your server.
2 Server Monitor Software	<ul style="list-style-type: none">• Install the server monitor software.• Understanding the user interface.
3 Troubleshooting	A list of typical problems you may encounter during installation and configuration of your server.

Quick Start Procedure.

Do This	More Information
1 Install the software.	page 8
2 Generate your locking ID number and E-mail it to Agilent.	page 12
3 Using the unlocking file returned from Agilent, unlock your server.	page 13
4 Add your license options.	page 16

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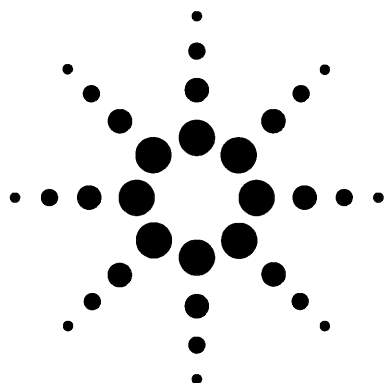
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Server Installation and Configuration

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Install the License Server

NOTE

The PC to be used for the license server **MUST** have a fixed IP address and should be connected to the LAN at installation.

License server specifications

Before you start the installation, confirm your server PC meets all of the following requirements:

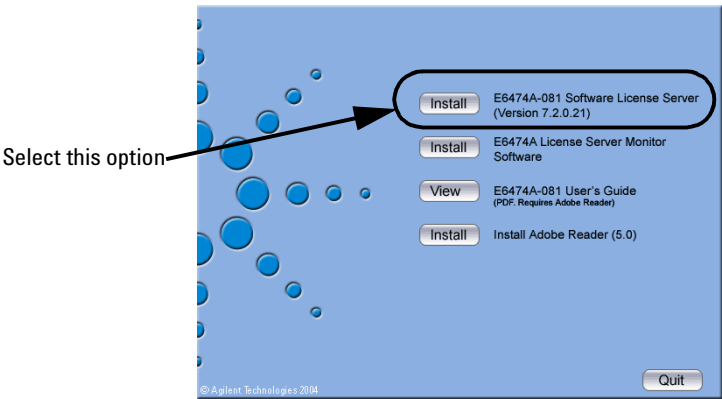
- Windows XP Professional or Windows 2000, with administrative access
- 600 MHz Pentium III processor or higher
- 256 MB of RAM or higher
- 10 Gigabyte hard drive or higher
- 1024 x 768 display resolution
- CD-ROM drive (for software installation)
- A networked PC that can be seen by client systems
- Access to an E-mail system
- A fixed IP address for the server

NOTE

It is recommended that the installation and configuration of the server should be carried out by an IT specialist.

Follow these steps.

Do This	Notes
1 Insert the Agilent E6474A-081 CD.	
2 Your system may have auto-start or go to the Start button, click Run and type D:\setup (where D is your CD drive).	The installation dialog box appears (see below).



3 Select Install next to the E6474A-081 Software License Server option.	
4 Enter the required information during the installation.	Select Typical installation and the SentinelLM driver installation.
5 At the end of the installation the locking ID generator utility will be launched.	Refer to “Unlock Your Server” on page 10 to find out what to do next.

After you have installed the server software you need to then enable your server and license options. Refer to “Unlock Your Server” on page 10 for more information.

After the installation has completed it is recommended that you restart your PC.

Unlock Your Server

Once your server software has been installed, you need to enable your ordered license options.

NOTE

To enable your license options you will need to have access to E-mail. If you do not have access to an E-mail system, then contact your local Agilent representative. Refer to page 26 for more information.

Follow these steps.

Process	Refer to
1 Generate a Locking ID Code	page 11
2 Send the Locking ID Code to Agilent	page 12
3 Agilent returns an unlocking license file	page 12
4 Install the unlocking license options file	page 13

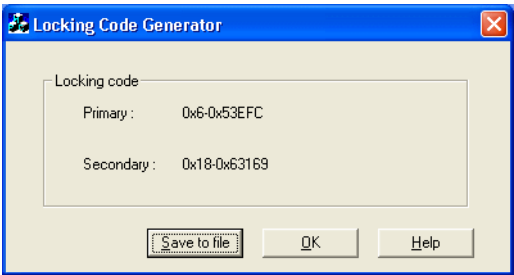
1. Generate a Locking ID Code

NOTE

The PC to be used for the license server MUST have a fixed IP address and should be connected to the LAN at installation.

Follow these steps.

Do This	Notes
1 Select Start > Programs > Agilent Technologies > E6474A > Lock ID Generator.	This starts the Locking ID Generator utility.



2 Select Save to file.	This opens the file save dialog box.
3 Enter a valid filename, leaving the extension as LCF.	Remember the location of the saved LCF file.

NOTE

The Locking ID Code does not contain confidential information for accessing your PC.

2. Send the Locking ID Code to Agilent

To send your Locking ID Code to Agilent you must have access to an E-mail system.

Generate an E-mail message containing the following items:

- Order Number (ON) number (This can be found on the Software Certificate).
- Attach the locking ID file (LCF file).
- Your name and contact telephone number.
- A return E-mail address, if different from the senders address.
- Subject of E-mail: **Request for license file**

Send the E-mail to the following address:

licenserequest@agilent.com

NOTE

The return E-mail address must be valid. The licenses will be sent to the return E-mail address.

3. Agilent returns an unlocking license options file

Within one working day you will receive an E-mail from Agilent. This E-mail will contain the following items:

- Attached unlocking license options file (filename.LIC)
- Instructions, telling you what to do with the attached unlocking license options file.

Save the attached unlocking license options file to a known location on the hard disk of your server.

4. Install the unlocking license option file

NOTE

If you already have license options installed, go to “Adding Licenses To Your Server” on page 16.

Follow these steps.

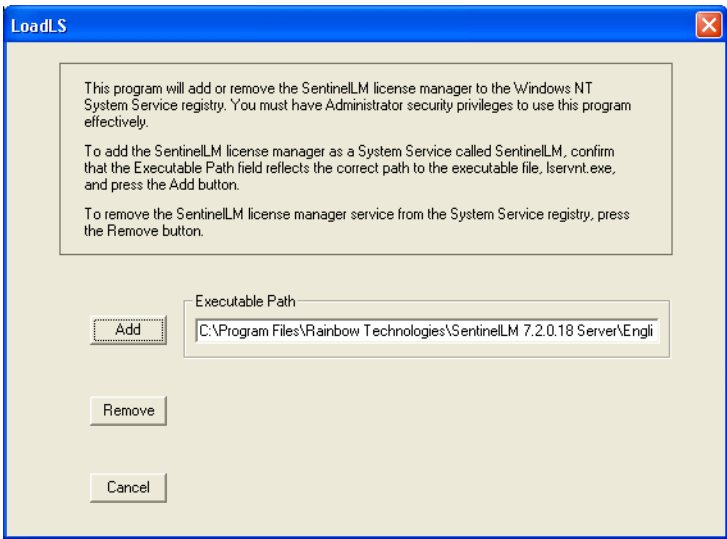
Do This	Notes
1 Rename the unlocking license options file to LSERVRC	Deleting the file extension.
2 Make a backup copy of this file.	Store this backup copy in a remote location, preferably on another PC.
3 Copy the LSERVRC file into the following location: C:\Program Files\Rainbow Technologies\SentinelLM 7.X.X.X Server\English\	CAUTION: If there is already a LSERVRC file in this location, overwriting that file will lose any license options you may already have.

Run Your Server

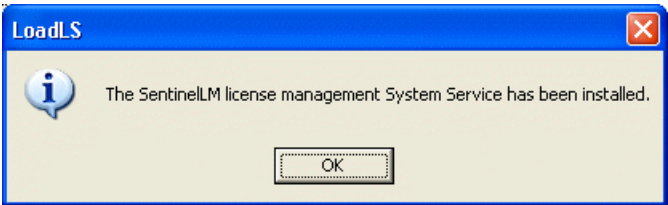
The license server software runs on your server PC as a background service (lsernt.exe). There is no user interface for the server software. Instead there is a utility for adding or removing the background server service.

To start or stop the license server:

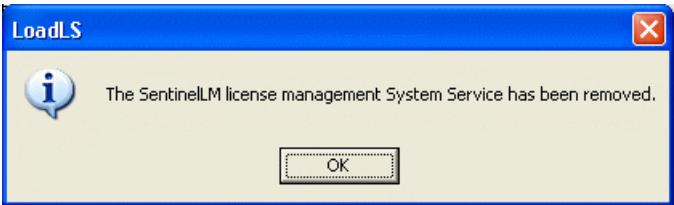
Do This	Notes
1 Open a Windows Explorer window.	
2 Navigate to the following folder: C:\Program Files\Rainbow Technologies\SentinelLM 7.X.X.X Server\English\	The SentinelLM folder name may be different depending on the revision of the server software.
3 Double-click on loadls.exe .	The following dialog appears (see below).



Do This	Notes
4 Select Add to start the server service.	If the server service is already running, a dialog box will appear warning you that the service is already running. If the server service starts then the following dialog box appears (see below).



5 Select Remove to stop the server service.	The following dialog box appears (see below). When the server has been stopped licenses can not be checked-out or seen by the server monitor software or client system.
---	---



To verify that the licenses have been enabled correctly, use the “Server Monitor Software” on page 19.

Adding Licenses To Your Server

CAUTION

Before adding new license options to your server, create a backup copy of the LSERVERC file.

License option information is stored in a standard text file. This file can be edited using any standard ASCII text editor.

When you obtain a new license file from Agilent, this new file has to be appended to the current license option file.

To add license options, follow these steps.

Do This	Notes
1 Create a backup copy of the new license file you have received from Agilent.	
2 Navigate to the following folder: C:\Program Files\Rainbow Technologies\SentinelLM 7.X.X.X Server\English\	
3 Double-click on loadls.exe .	
4 Select Remove to stop the server.	
5 Open the current LSERVERC file using a standard ASCII text editor.	For example Windows Notepad.
6 Open the new license file using another text editor window.	
7 Copy the new license file text and append it to the end of the current license file.	Do not attempt to edit any of the license file information. Refer to Figure 1 on page 17.
8 Save the LSERVERC file.	Close all open text editors programs.

Do This	Notes
9	Double-click on loadls.exe .
10	Select Add to start the server service.

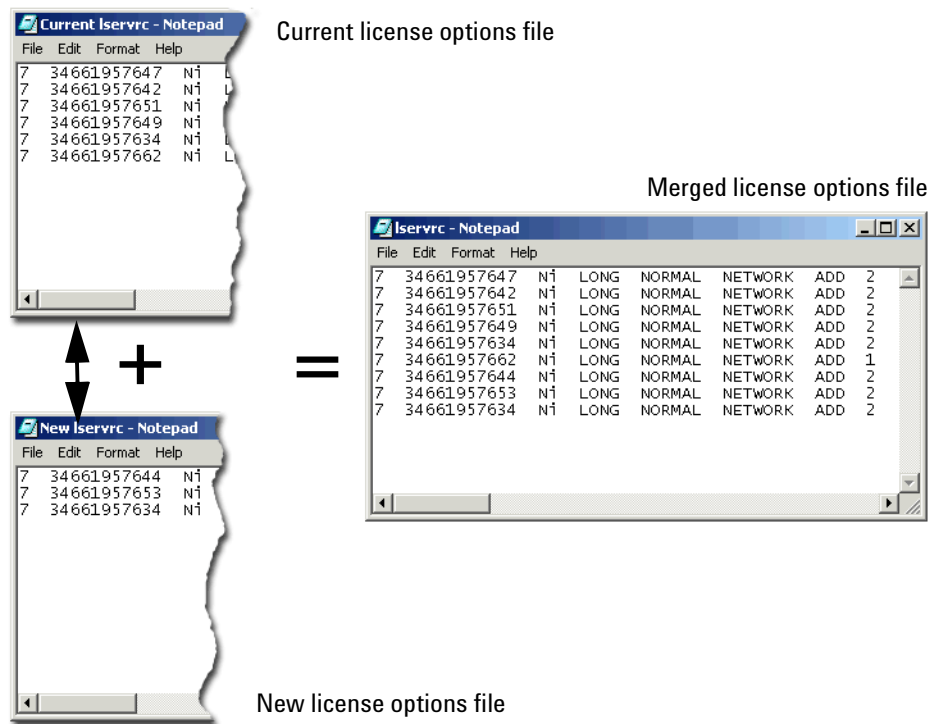
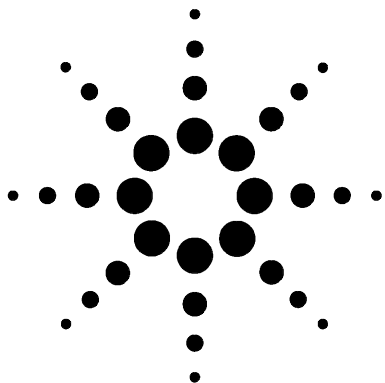


Figure 1 Append new license file to the current license file.

To verify that the licenses have been enabled correctly, use the “Server Monitor Software” on page 19.

NOTE

Create a backup copy of the new LSERVERC file. Store the file remotely from the server PC.



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Server Monitor Software

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Server Monitor Software Overview

The Agilent Software License Server is installed on a PC and controls the distribution of E6474A licenses throughout a network. The License Manager (which you may already have installed) and the License Server can be installed on the same computer.

The Server Monitor Software is an utility that looks at your server and the available license options.

It displays:

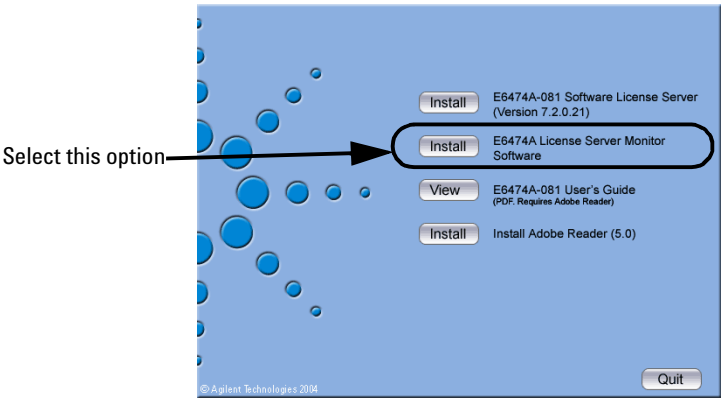
- Your server details.
- The licenses you have available.
- Who has checked-out licenses.
- License check-out details, including license expiration dates.
- Client information.

The Server Monitor Software can be installed on any PC within your network. It is recommended that the software is installed on the server PC.

Install the Server Monitor Software

Follow these steps.

Do This	Notes
1	Insert the Agilent E6474A-081 CD.
2	Your system may have auto-start or go to the Start button, click Run and type D:\setup (where D is your CD drive).
	The installation dialog box appears (see below).



3	Select Install next to the E6474A License Server Monitor Software option.
4	Enter the required information during the installation.

To start the Server Monitor Software:

- Select Start > Programs > Agilent Technologies > E6474A > License Server Tools > License Server Monitor.

Understanding the User Interface

The Server Monitor Software has no controlling functions. It is only used for monitoring the server and client systems. To check-out licenses (over the network or remotely) you need to use the license manager software. The license manager software is supplied with the Agilent E6474A Wireless Network Optimization System Software. Refer to the License Manager online help for more information on using commuted and remote licensing on a client PC.

Figure 2 shows the Server Monitor Software interface.

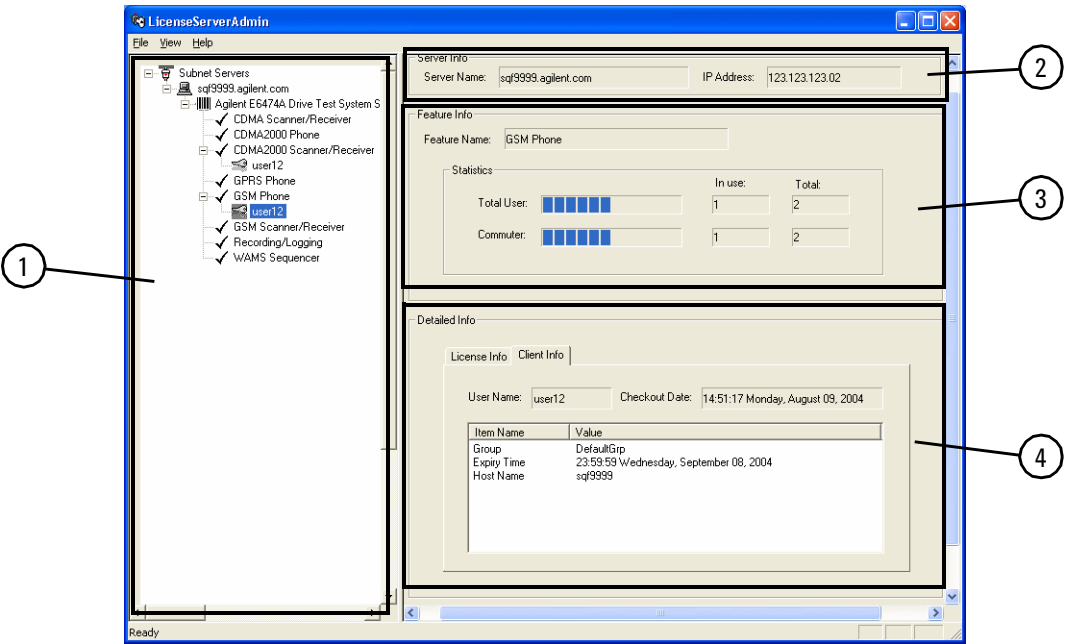


Figure 2 Server Monitor Software interface

1 - Server and license options

This part of the user interface displays the server and all the enabled license options. By expanding the tree view you will be able to see the users and what licenses they currently have checked out.

Information about any selected tree item is displayed on the right-hand side of the interface.

2 - Server information

This part of the user interface displays information about the server. It displays the server name and server IP address. This is useful if the client user can not locate the server or has to connect to the server through a dial-up system.

3 - Feature information

This part of the user interface displays information about the selected license option.

It provides information about the total number of available licenses and how many have already been checked-out.

4 - Detailed information

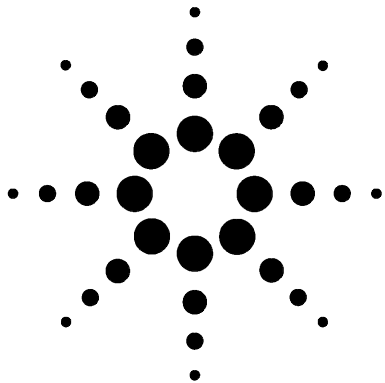
This part of the user interface provides information about each user and the licenses they have checked out.

It tells you:

- The users group name (if applicable).
- The expiration date of the checked-out license.
- The name of the client PC.

NOTE

The expiration time is usually given as 23:59:59. However if a license has been checked-out from different time-zone than the server PC, the expiration time will be offset by the difference in the time-zones.



3

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Troubleshooting

Contact information

Agilent Representative

To contact your local country-specific office and view up-to-date, country-specific contact information, go to:

<http://www.agilent.com/comms/contactus>.

Problems and solutions

The server can not be seen by any client or monitoring software

This could occur if:

- The server has failed or has been switched off. To solve this problem contact your server administrator and verify that the server is on and running.
- The IP address of the server has changed. If the IP address has changed, the checked-out licenses will not be able to be re-claimed when their check-out time has expired.
- The access port on the server has been changed from the default value (5093). Contact your server administrator and confirm the port configuration. If the port number has changed you need to change the client access systems to point to the new port. Refer the license manager online help for more information.
- The network has failed. To solve this problem contact your IT specialist to confirm the network status.

- While checking out a license you may lose connection with the server. An example of the error message displayed is shown in Figure 3. This error message appears because the LAN connection has failed or your subnet mask is set to 255.255.255.0. Consult your IT specialist for more information.



Figure 3 Server error message

You can see the license server but there are no licenses

Using the server monitor software you can see the server PC. However once you have expanded the license tree list under the server, you do not see any licenses.

This could be because the license options file (LSERVRC) is missing or has been corrupted. Check that the LSERVRC file is in the same location as the server program and that the license file is not damaged.

Try to restore an older license options file.

Another reason could be that the client PC has been time-tampered. The client PC has had it's PC clock altered in an attempt to extend the period for a checked out license.

This can be fixed, however, you need to contact Agilent for unlocking information. Refer to the License Manager online help for information.

Lost your unlocking ID code

Your unlocking ID code is a unique number that identifies your server and it's position in the network. It is needed to link your license options to a particular server.

To generate an unlocking ID code, refer to “1. Generate a Locking ID Code” on page 11.

Corrupted your license file (LSERVRC)

If you have a corrupt LSERVRC file you will not be able to see any licenses on your server.

NOTE

Always make a backup copy of your license options file (LSERVRC).

To solve this problem restore your backup copy of the license options file (LSERVRC) and overwrite the corrupted file in the following folder:

C:\Program Files\Rainbow Technologies\SentinelLM 7.X.X.X
Server\English\

If you can not find a backup copy or have lost your backup copy, you will need to contact an Agilent Representative and request a new license options file.

To do this, follow the server configuration procedure from “Unlock Your Server” on page 10 onwards.

Lost or have no order number

If you have lost or have no order number (ON), contact your local Agilent representative for assistance. Refer to “Contact information” on page 26.

You have no E-mail system

To enable you server, and to lock your licenses to that server, you must be able to generate, and pass onto Agilent, an unlocking ID code. This code is an encrypted file that can not be passed over phone, fax, or other text-based communication systems.

If you do not have an E-mail system then contact your local “Agilent Representative” on page 26 for assistance.

Your server PC fails

If your server PC hardware fails and you need to replace the server system, you will need to generate a new unlocking ID code and re-contact Agilent. Contact “Agilent Representative” on page 26 for more information on this process.

License Server Overview

The Agilent Software License Server (E6474A-081) is installed on a server PC and controls the distribution of E6474A licenses throughout a network. Refer to Figure 4 and the following sections for an explanation of each part of the diagram.

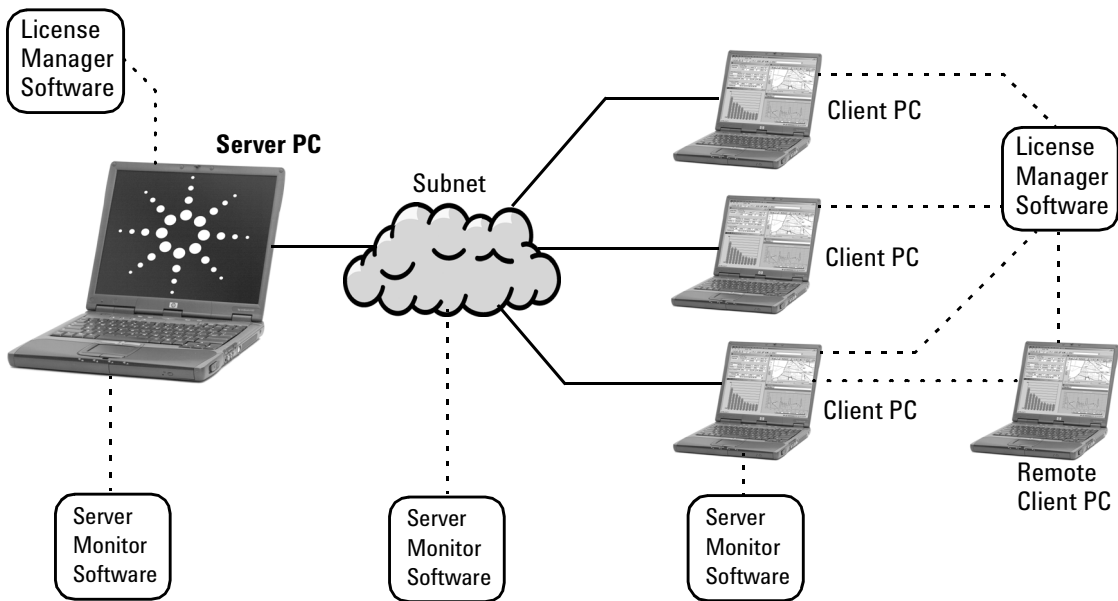


Figure 4 Software License Server and Client system

Server PC

The server PC contains the software and license options that can be checked-out by client systems. This PC must have a fixed IP address and be connected to a network. The server PC can also have the License Manager software and Server Monitor Software installed.

Client PC

The client PC contains the E6474A drive test software. This software contains measurement features that are enabled by dongles (hardware keys) and checked-out software licenses. Every installation of the E6474A software includes the License Manager software.

Remote PC

Software licenses can be checked-out for remote PC's as long as the remote user can access a user who is part of the subnet and they have the License Manager software installed. The remote PC does not need to be part of the network.

License Manager Software

This software is installed automatically with the E6474A drive test software. This software is used for managing your license options. It is also used for checking-out software licenses.

The License Manager software (supplied with E6474A drive test software) and the License Server can be installed on the same computer.

Server Monitor Software

The Agilent E6474A-081 CD also includes the server monitor software. This software can be installed on any PC on the network and provides an interface for monitoring the licenses you have on your server. It displays:

- Available licenses
- Checked-out license information
- Server information

Install Adobe Reader Software

NOTE

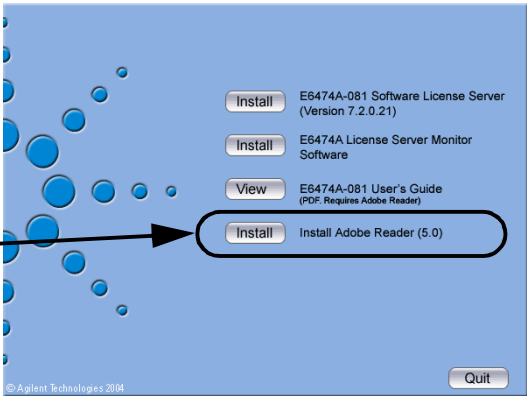
If you already have this software installed on your PC, you do not need to install the Adobe Reader software.

All documentation supplied with your system is also available in PDF (Portable Document Format) for online viewing.

To view documents:

- 1 Browse the CD contents.
- 2 Double-click the file you wish to view (for example this User's Guide is called E6474-90067.pdf).

To install the Adobe Reader software

Do This	Notes
1 Insert the Agilent E6474A CD.	
2 Your system may have autostart or go to the Start button, click Run and type D:\setup (where D is your CD drive).	The installation dialog box appears (see below).
3	
4 Select Install next to the Adobe Reader software option.	
5 Follow the installation instructions.	

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