
License Manager Graphical User Interface

This section describes the graphical user interface (GUI) of the License Manager and the operations you can perform within the GUI. This GUI is only visible from the OPNET analysis software and not from applications using the command line licensing operations, such as VNE Server. If you have access to OPNET analysis software in your network, however, you can administer licenses from the License Manager GUI provided the client has the correct privileges (see Restricting License Server Administration). For AppInternals Xpert, use Transaction Trace Analyzer to access the license manager GUI.

This section contains the following topics:

- Starting the License Manager GUI
- License Manager Operations within GUI
- License Manager GUI—Help Screen
- License Manager GUI—Menus
- License Server Operations within License Manager GUI
- License File Operations with the License Manager GUI

Note—Certain information contained in the figures within this section—for example, license numbers—has been blurred out to protect information privacy.

Starting the License Manager GUI

This section describes methods for starting the License Manager for OPNET analysis software.

Note—This section pertains to OPNET analysis software and AppInternals Xpert (with Transaction Trace Analyzer). Transaction Trace Analyzer is a separate client that analyzes AppInternals Xpert transaction trace files. Version 3.0 and later of the Transaction Trace Analyzer (formerly named Panorama Transaction Visualizer) includes the License Manager GUI, which is easier to use than the command line license manager. To download Transaction Trace Analyzer with the license manager GUI, go to <https://www.opnet.com/support> and go to the Product Downloads page for AppInternals Xpert.

To start the license manager from within OPNET analysis software or Transaction Trace Analyzer, use the following procedure.

Procedure 3-3 Starting the License Manager from within Transaction Trace Analyzer or OPNET analysis software

- 1 Launch the OPNET analysis software or Transaction Trace Analyzer.
- 2 Choose License > License Management.
 - ➔ The License Manager opens.

Note—For OPNET analysis software, at least one license in the license file will be in use. The Transaction Trace Analyzer is not licensed, so invoking the license manager in this way will not use a license.

End of Procedure 3-3

Starting the Application and License Manager in Manage License Mode

You can start the License Manager and OPNET analysis software in the *manage license* mode, as described in Procedure 3-4 (Windows) and Procedure 3-5 (Linux).

Note—This section does not pertain to AppInternals Xpert or VNE Server.

You can start the License Manager and OPNET analysis software both from the command line, as described in Procedure 3-6.

In this mode OPNET analysis software does not use a license and has only limited functions. You will be able to use some system menu functions, but none of the editors.

This mode is useful when you are performing license management operations only. You must use this mode if you are deregistering all licenses (see Deregistering a License or Clearing a License File), because the License Manager will not allow you to deregister a license that is in use. Therefore, if you open the License Manager from within the OPNET analysis software, as described in Procedure 3-3, a license to run the application is already in use.

Use the following procedure to start the License Manager graphical user interface in manage license mode from Windows.

Note—This procedure does not pertain to AppInternals Xpert or VNE Server.

Procedure 3-4 Starting the License Manager GUI (Windows)

- 1 Select Start > Programs > *OPNET_application_name* > License Manager.
 - ➡ The License Manager opens in one window. The application opens in another window but has limited functions.

End of Procedure 3-4

Use the following procedure to start the License Manager in manage license mode from Linux.

Note—This procedure does not pertain to AppInternals Xpert or VNE Server.

Procedure 3-5 Starting the License Manager GUI (Linux)

- 1 # Enter the following command:

```
op_license_manager
```

- ➡ The License Manager opens in one window. The application opens in another window but has limited functions.

End of Procedure 3-5

Starting the Application and License Manager from the Command Line

Use the following procedure to start the License Manager GUI from the command line.

Procedure 3-6 Starting the License Manager GUI from the Command Line

- 1 Launch the program (for example, atx) with the manage_licenses preference:

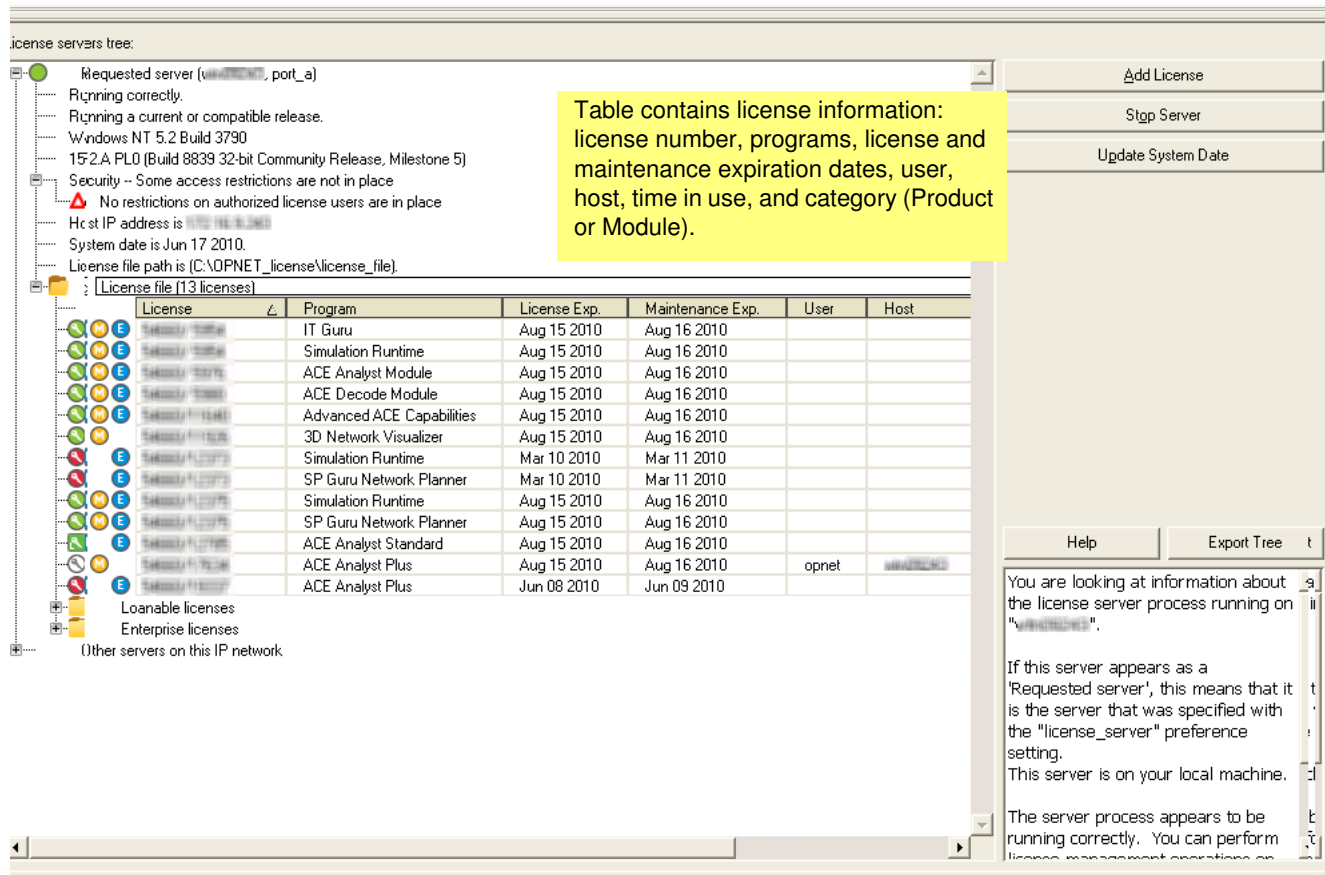
```
<program> -manage_licenses
```

- ➡ The License Manager opens in one window. The application opens in another window but has limited functions.

End of Procedure 3-6

The License Manager GUI shows information about the license servers and licenses in the network in a treeview, like the one shown in the following figure. A table containing information about each license is included under the “License file” treeview item.

Figure 3-5 License Manager Window



Exiting the License Manager GUI

To exit the License Manager GUI use one of the following procedures:
Procedure 3-7 or Procedure 3-8.

Procedure 3-7 Close the License Manager GUI

- 1 In the License Manager GUI, select File > Close.
➡ The License Manager closes, but the application continues to run.

End of Procedure 3-7

Procedure 3-8 Exit the License Manager and OPNET analysis software or Transaction Trace Analyzer

- 1 In the License Manager GUI, select File > Exit.
- 2 When prompted, click OK to Exit Program.
 - ➡ The License Manager and the application close.

End of Procedure 3-8

License Manager Operations within GUI

When no license server is selected in the treeview, you can perform the following License Manager operations:

- Export Tree (button)
- Product Modules (Modules menu)
- License Server Elements

Export Tree (button)

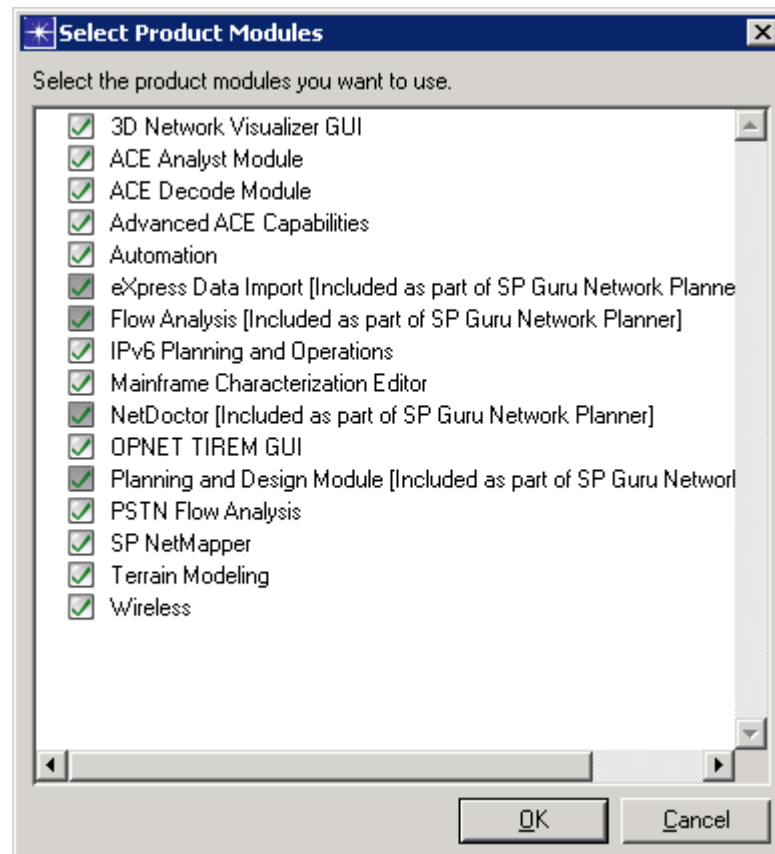
The license tree can be exported to a tab-delimited text file using the Export Tree button. This feature is useful for troubleshooting.

Product Modules (Modules menu)

Note—This section applies to OPNET analysis software only.

You can specify which product options to use by selecting Modules > Product Modules and selecting the product options from the list. Only the product options for which you have purchased licenses can be selected from the list. (Specialized model licenses are not listed here, but will be used when discrete event simulations are run). Notice that modules included as part of a solution are already selected and cannot be deselected.

Figure 3-6 Product Modules Options



License Server Elements

The following table lists the elements of the license servers displayed in the License Manager window.

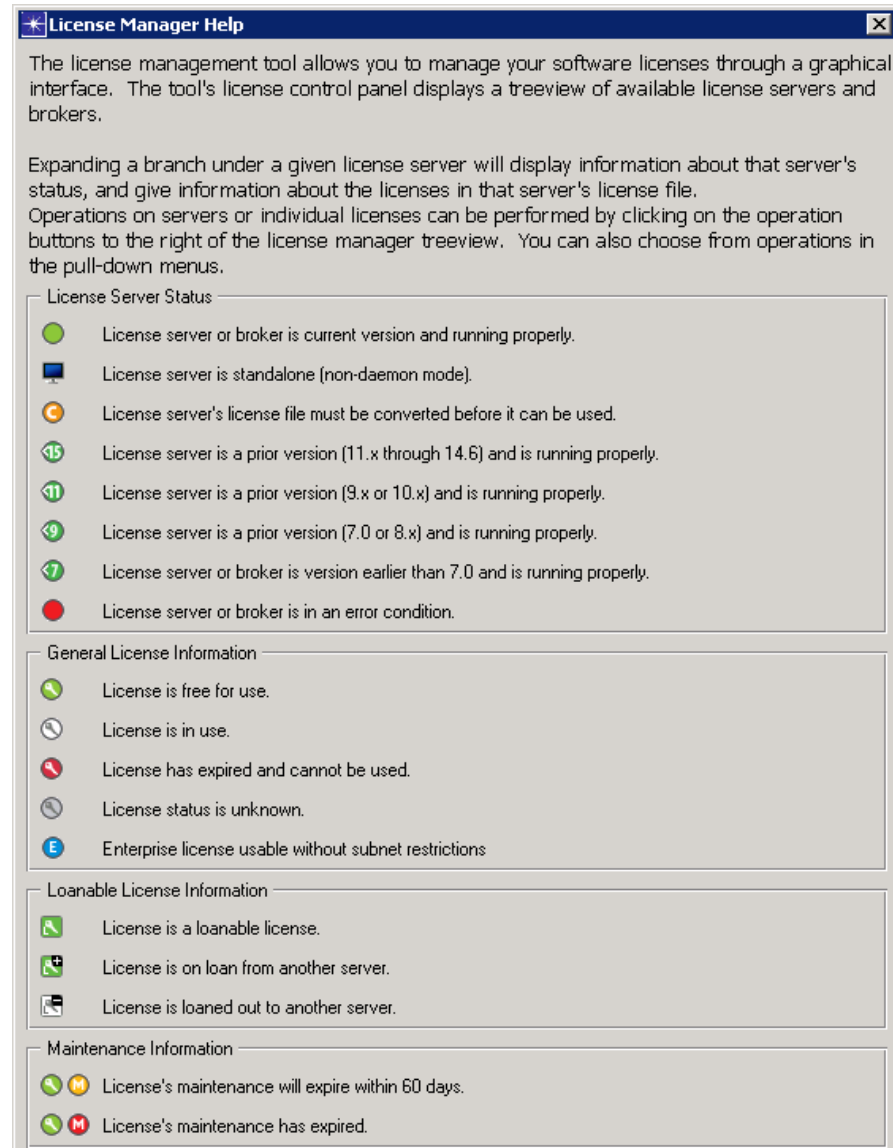
Table 3-3 License Server Elements

| Field | Description |
|----------------------------------|---|
| Requested Server | This branch shows the server from which the program can request and be issued licenses. You specify this server during installation, by selecting it from within the License Server tree, or by listing the server name and port in your Preferences file in the <code>license_server</code> and <code>license_port</code> preferences, respectively. |
| Operating System | The OS version of the License Server is displayed in the tree. |
| OPNET Build | The version and build of the software installed on the license server are displayed in the tree. |
| Security | Shows whether there is an <code>admin_auth</code> or <code>user_auth</code> file in place to control license management and usage. For more information, see Restricting License Users . |
| Host IP Address | The “Host IP address” given for each server is the return address of the IP packet received by the License Manager. This is not necessarily the actual IP address of the license server but could be the address of the firewall port through which the license server is accessed, for example. |
| System Date | The system date of the License Server is displayed. |
| License File Path | The full path of the license file location is displayed in the tree. |
| License File | Shows the number and type of licenses installed on the server. For more information about license attributes, see Table 3-1 License Attribute Definitions on page AG-3-5. |
| Local Servers | Shows other license servers running on your computer. |
| Other Servers on this IP Network | Shows other license servers running on your IP network segment. |

License Manager GUI—Help Screen

As shown in the following figure, click on the “Help” button to see a legend and description of the icons used in the License Manager window.

Figure 3-7 License Manager Help Screen



License Manager GUI—Menus

The following menus are available in the License Manager GUI.

Table 3-4 License Manager File Menu

| Menu Option | Description |
|----------------------------|---|
| Refresh Server Information | Scans your network for license servers and rebuilds the tree. |
| Convert License File | Converts a license file to the latest version. |
| Close | Closes the License Manager GUI. |
| Exit | Closes the OPNET analysis software application. |

Table 3-5 License Manager Edit Menu

| Menu Option | Description |
|-------------|--|
| Preferences | Lets you edit preferences for the OPNET analysis software preference file. |

Table 3-6 License Manager Tools Menu

| Menu Option | Description |
|---|---|
| Register New License | Launches the Choose Transaction Method dialog box from which you can choose Express, Browser, Email, or Offline method. Note —The license server process must be running for this option to launch the dialog box. See Starting the License Server from the License Manager GUI for more information. |
| Show Local License Server's Usage Statistics | Displays the usage statistics for the local license server. |
| Reset Local License Server's Usage Statistics | Clears and resets the usage statistics for the local license server. |
| Refresh Server Authorization Files | If a user_auth file is in use, use this menu option to force the License Manager to re-read the file. |
| Forcibly Return Loaned Out Licenses | For loanable licensing only. Ends the loan period on the selected license loaned from the license server. |

License Server Operations within License Manager GUI

There are several ways to start `op_license_server`, the process that is commonly referred to as the *license server*; however it is typically started by the host operating system during system startup. Methods for starting the process manually are described in this section.

WARNING—You cannot manage a version 15.0 (or higher) license server from a pre-15.0 license manager or from the license server included with AppInternals Xpert or Transaction Trace Analyzer (as these products use a pre-15.0 version of the license server). Version 15.0 (or higher) license servers can only be managed from 15.0 (or higher) license managers.

When a license server is selected in the license manager treeview, you can perform the following license server operations. You must have administrative privileges on the license server to make changes.

- Starting the License Server from the License Manager GUI
- Right-Click License Server Operations
- License Server Operations (Buttons)

Note—If you installed OPNET analysis software in standalone licensing mode, it will obtain licenses on its own. There is no need to start the license server in this case. Standalone licensing is not a typical use case and is not available for AppInternals Xpert or VNE Server.

Starting the License Server from the License Manager GUI

The procedures in this section describe how to start a local or remote license server from the License Manager GUI. Use the following procedure to start a local license server.

Procedure 3-9 Starting a Local License Server from the License Manager GUI

- 1 Run the License Manager (as in Starting the License Manager GUI).
- 2 Select the License Server for your computer in the License Manager treeview. (It will have a red dot in front of its name, indicating that it is not running).
- 3 Click the Start Server button.

End of Procedure 3-9

Procedure 3-10 Starting a Remote License Server from the License Manager GUI

- 1** Run the License Manager (as in Starting the License Manager GUI).
- 2** Select the License Server in the License Manager treeview under “Other servers on this IP network.”
- 3** Click the Start Server button.

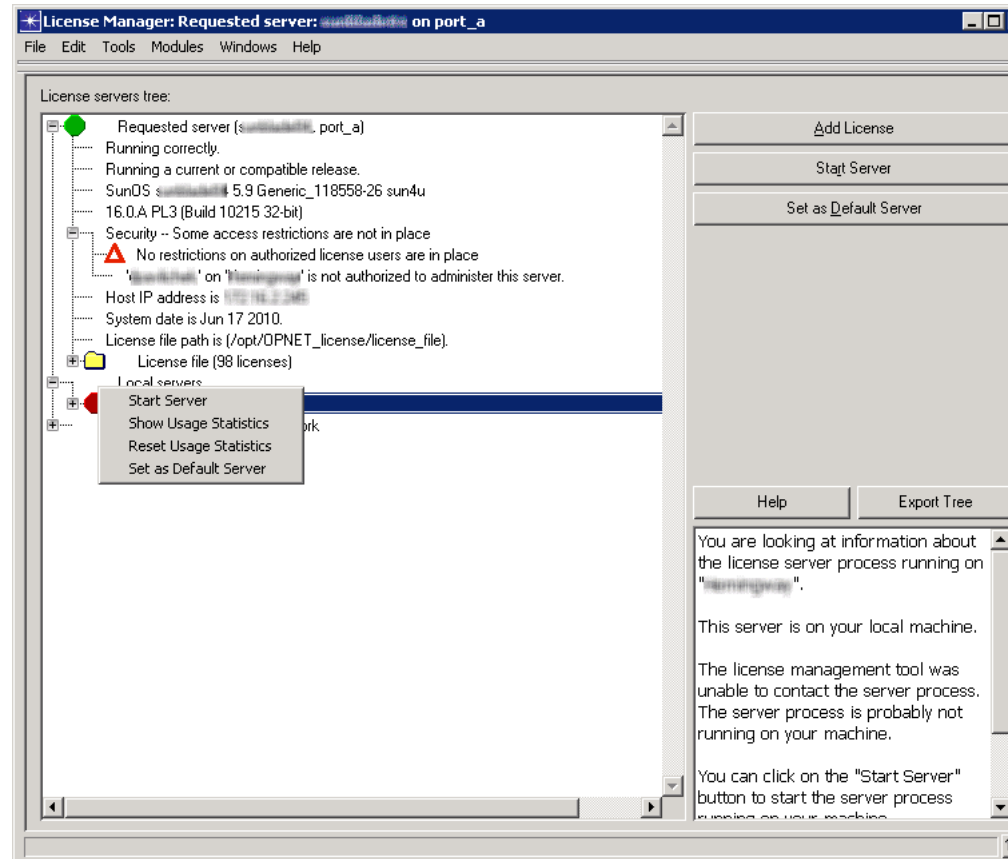
End of Procedure 3-10

Right-Click License Server Operations

Right-click on a license server that is in a stopped condition to use these menu options, as shown in Figure 3-8:

- Start Server (See Starting the License Server from the License Manager GUI)
- Show Usage Statistics—Shows brief usage statistics for the selected license server. See also License Server Usage Reports for more ways to obtain information about the usage of the license server.
- Reset Usage Statistics—Sets the license server usage statistics back to zero.
- Set as Default Server (See Set as Default Server (Button))

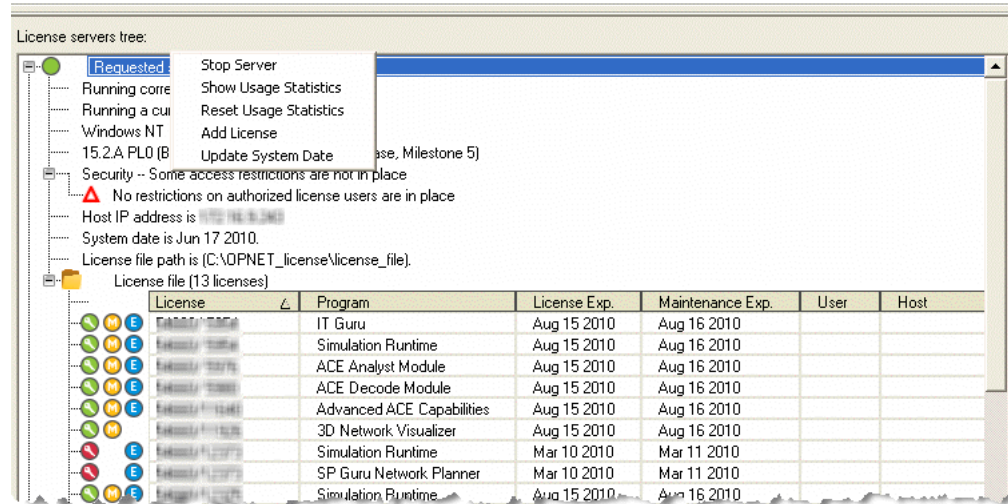
Figure 3-8 Right-Click Server Operations



Right-click on a license server that is in a started condition to use these menu options, as shown in Figure 3-9:

- Stop Server (See Stopping the License Server from the License Manager GUI)
- Add License (See Add License from License Manager GUI)
- Update System Date (See Updating the System Date on a License Server)

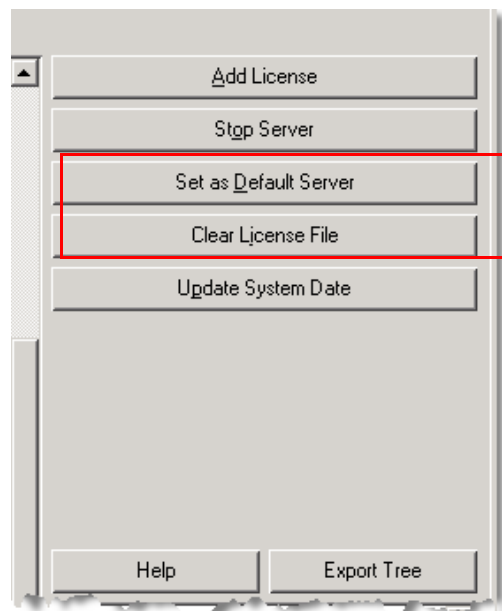
Figure 3-9 Right-Click Server Operations



License Server Operations (Buttons)

When a license server is selected in the License Manager treeview, additional buttons appear on the right side of the GUI.

Figure 3-10 License Server Actions



These options appear under certain conditions. For example, if you click on a server that is not set as your default license server, the “Set as Default Server” button appears.

If you click on a license server for which you have sufficient privileges, the “Clear License File” button appears.

Start Server (Button) This button starts the selected server, allowing it to issue licenses and perform other license server functions. You can also right-click on the server in the treeview and select “Start Server” from the pop-up menu. If the selected license server is already running, this button is not visible.

Note—This button is active only when the selected server is your own (local) machine. To determine if a machine is local, type `hostname` in a shell window. See Procedure 3-9 on page AG-3-23 for details.

Stop Server (Button) This button stops the selected server. You can also right-click on the server in the treeview and select “Stop Server” from the pop-up menu. If the selected license server is already stopped, this button is not visible.

Set as Default Server (Button) When a license server is selected in the treeview, this button lets you set your user preferences so that the selected server is your default server. This server will be the requested server the next time you start OPNET analysis software, and the values of the `license_server` and `license_port` preferences will correspond to this server. You can also right-click on a server other than the server you are currently using, and select “Set as Default Server” from the pop-up menu.

Create License File (Button) This button appears only if there is no license file on the computer where the license server is running. When you click this button, a new license file is created. It will not have any licenses in it. Use the methods described in Add License from License Manager GUI to add licenses. The Create License File button is not commonly used.

License File Operations with the License Manager GUI

The contents of the license file are displayed when you expand the license file folder under a selected server. You can right-click on a license file (when it is expanded to show the individual licenses) and sort the licenses for that server by license number, product type, status, or user.

Note—License file operations require you to contact Technical Support by phone at +1-240-497-1200 or through the web at <http://www.opnet.com/support>.

Figure 3-11 Example License File

Click on any field to sort the license display by that field. Alternatively, you can right-click on "License file" and select "Sort by Status"

Available (free) licenses

License in use

| License | Program | License Exp. | Maintenance Exp. | User | Host |
|------------------|---------------------------|--------------|------------------|-------|---------------|
| Available (free) | IT Guru | Aug 15 2010 | Aug 16 2010 | | |
| Available (free) | Simulation Runtime | Aug 15 2010 | Aug 16 2010 | | |
| Available (free) | ACE Analyst Module | Aug 15 2010 | Aug 16 2010 | | |
| Available (free) | ACE Decode Module | Aug 15 2010 | Aug 16 2010 | | |
| Available (free) | Advanced ACE Capabilities | Aug 15 2010 | Aug 16 2010 | | |
| Available (free) | 3D Network Visualizer | Aug 15 2010 | Aug 16 2010 | | |
| License in use | Simulation Runtime | Mar 10 2010 | Mar 11 2010 | | |
| License in use | SP Guru Network Planner | Mar 10 2010 | Mar 11 2010 | | |
| License in use | Simulation Runtime | Aug 15 2010 | Aug 16 2010 | | |
| License in use | SP Guru Network Planner | Aug 15 2010 | Aug 16 2010 | | |
| License in use | ACE Analyst Standard | Aug 15 2010 | Aug 16 2010 | | |
| License in use | ACE Analyst Plus | Aug 15 2010 | Aug 16 2010 | opnet | www.opnet.com |
| License in use | ACE Analyst Plus | Jun 08 2010 | Jun 09 2010 | | |

Loanable licenses
Enterprise licenses
Other servers on this IP network

Table 3-7 License File Fields

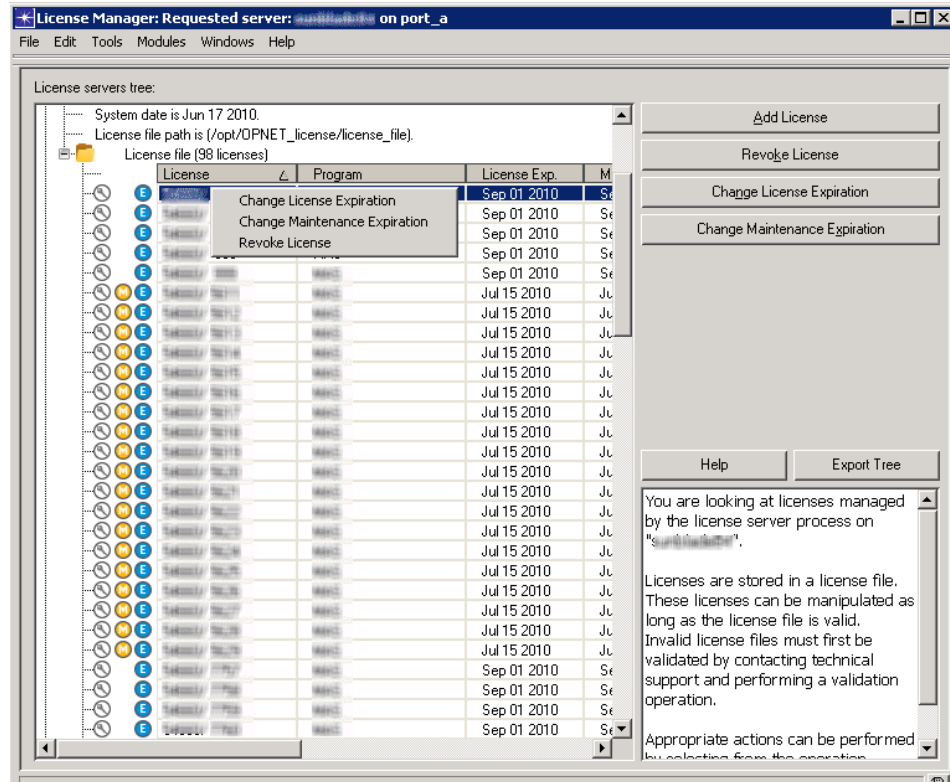
| Column | Description |
|------------------|---|
| License | Contains the license number |
| Program | The program enabled by this license. |
| License Exp. | The expiration date of the license |
| Maintenance Exp. | The expiration of maintenance on the license |
| User | The name of the user who has the license checked out |
| Host | The name of the host system using the license |
| Time in Use | The amount of time the license has been in use |
| Category | Specifies whether this license is a Product or Module license |

You can restrict who has access to the following operations by creating an `admin_auth` file. If you do not create such a file, any user has access to these operations from any machine. See Restricting License Server Administration for details. License file operations are described in the remainder of this section.

Revoke License (button)

The Revoke License button immediately revokes a loanable license in use. The user of the license receives a warning and has a brief amount of time to save files and exit the application.

Figure 3-12 Revoke License from Pop-Up Menu



Note—This function applies only when you have loanable licenses. Some applications do not support loanable licensing.

Change Maintenance Expiration (button)

The Change Maintenance Expiration button lets you set a new maintenance expiration date based on information from OPNET Technical Support or Sales. You can change the maintenance expiration date from the pop-up menu by right-clicking on the license. The maintenance expiration date determines

- The time period for which you have access to technical support.
- The release of an application you can run. For example, suppose you have installed the newest version of OPNET analysis software, which has a release date later than the maintenance expiration of a particular license. That license will not run the new release, though it will run earlier versions of OPNET analysis software. Licenses with a later maintenance expiration can run the new release.

You can find detailed instructions on changing the maintenance expiration date on the Technical Support website.

Change License Expiration (button)

This button appears only if you select a permit that has an expiration. You can also right-click on a license and change its expiration.

Note—You cannot perform this function on a permanent permit, which is a special kind of permit that does not have an expiration date.

Note—You can move a license from one license server to another. To do this you must first deregister the license from one license server, then add the license to the target license server.

Deregister License (button)

This operation deregisters a single license. The Deregister License button appears when you select a license that is not in use and for which you have administrative privileges. This choice also appears on the pop-up menu when you right-click on a license file, if no licenses in the file are in use. Note that you can only deregister a license a certain number of times each year, as specified in your agreements with OPNET Technologies, Inc. See also Deregistering versus Clearing a License File.

Clear License File (button)

This operation deregisters all licenses from the license file in a single operation. This button appears only if no licenses in the file are in use. The choice also appears on the pop-up menu when you right-click on a license file, if no licenses in the file are in use. You should contact OPNET Technical Support by e-mail, phone, or fax before performing this operation. See also Deregistering versus Clearing a License File.

Register New License (Tools menu)

The Register New License function works in the same way as the Add License button.

Validate License File (Button)

This button only appears in rare circumstances in which a license file has become invalid. An invalid license file cannot be used to issue licenses.

Add Licenses

This section discusses the ways to add licenses to a license server. For any of these procedures, note the following:

- The OPNET License Server service must be running on the computer to which you want to add the license
- You must also have permission to add licenses to the license server in question (see Restricting License Server Administration)

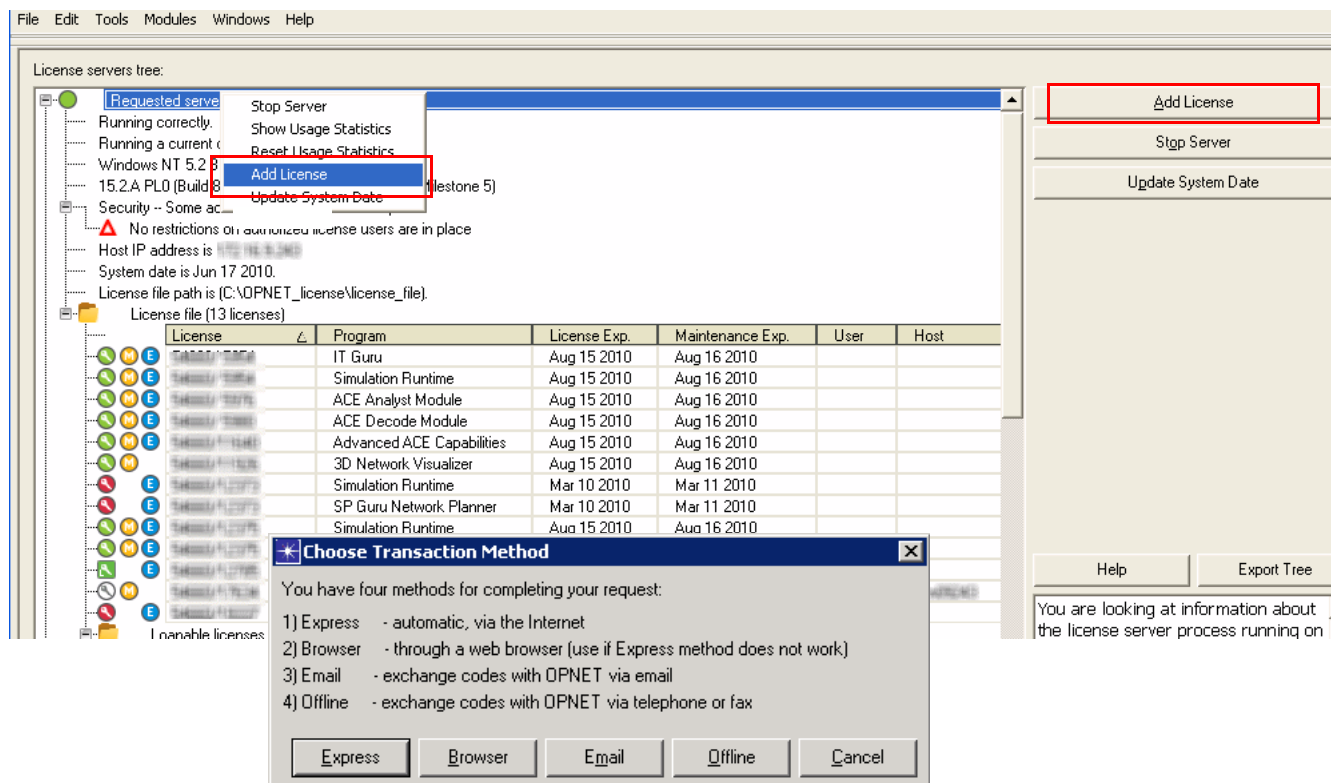
Note—The procedure in this section requires you to communicate with OPNET Technical Support.

Add License from License Manager GUI

The License Manager GUI allows you to add licenses in one of two ways, as shown in the following figure

- Add License button
- Add License right-click menu

Figure 3-13 Add Licenses in License Manager GUI



Either option allows you to add one or more licenses to a license server. From the dialog box that appears, you will also choose a transaction method. All of these licensing options are covered in the procedures that follow. Start with Procedure 3-11 and proceed to the procedure for the method you will use to add the licenses.

Procedure 3-11 Add Licenses to License Server

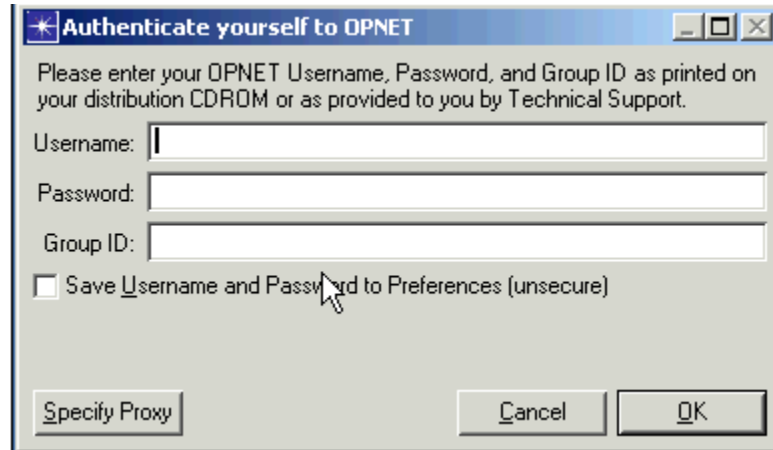
- 1 Open the License Manager GUI as described in Starting the License Manager GUI.
- 2 Select the license server to which you want to add licenses in the treeview. (See License Manager Operations within GUI for more information on the treeview).
- 3 Click the Add License button or right-click on the license server in the treeview to start the transaction.
- 4 Select one of the methods for adding licenses (or click Cancel to exit this workflow):
 - Express—Use Procedure 3-12
 - Browser—Use Procedure 3-13
 - Email—Use Procedure 3-14
 - Offline—Use Procedure 3-14
- 5 Go to the procedure indicated for a given method, if applicable.

End of Procedure 3-11

Procedure 3-12 Add Licenses Using Express Method

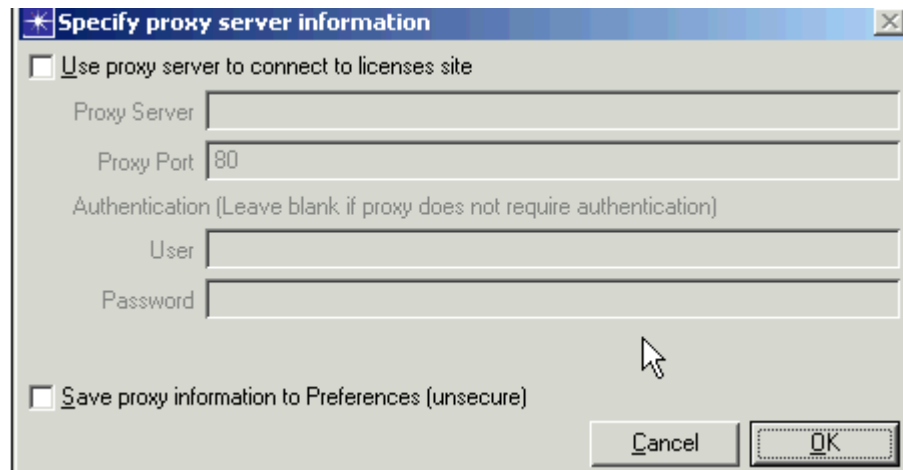
- 1 Complete Procedure 3-11, selecting the Express method for adding licenses.
- 2 Enter your OPNET Username, Password, and Group ID in the appropriate fields. Click OK.

Figure 3-14 Authenticate Yourself to OPNET



- 3 If your computer uses a proxy server, click on the Specify Proxy button and fill in the information.

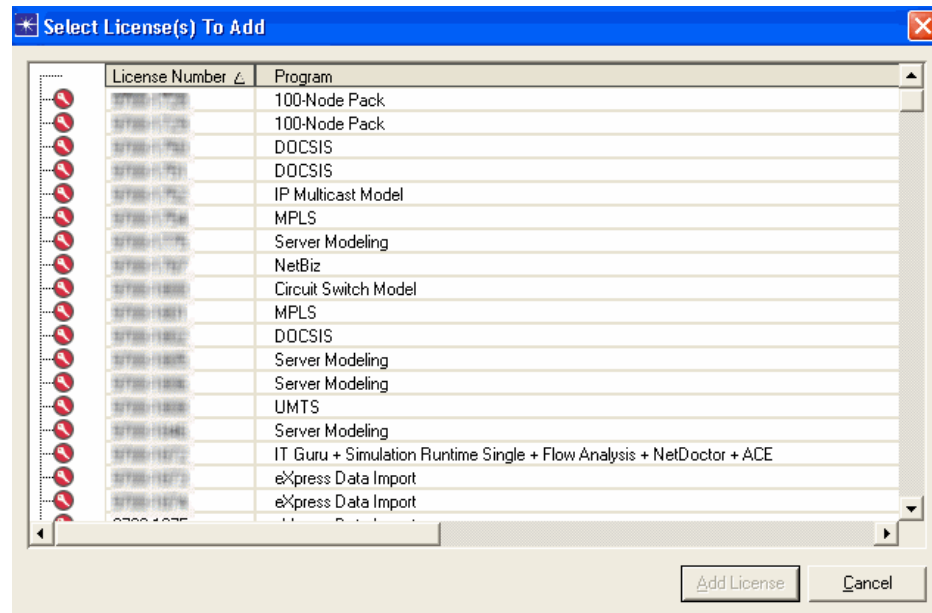
Figure 3-15 Specify Proxy



➡ The next screen shows a list of available licenses.

- 4 Select an available license by clicking on it, or select several licenses by using Ctrl-click or by clicking and dragging.
- 5 Click the Add License button.

Figure 3-16 Select Licenses



6 When the Add License operation is complete, the Select Product Modules dialog box may appear. This allows you to select the available modules you want to use. Select the modules of interest.

7 Exit the License Manager, as described in Exiting the License Manager GUI.

Note—If the Express Method fails due to firewall restrictions or other problems, use the Browser method, described in Procedure 3-13.

End of Procedure 3-12

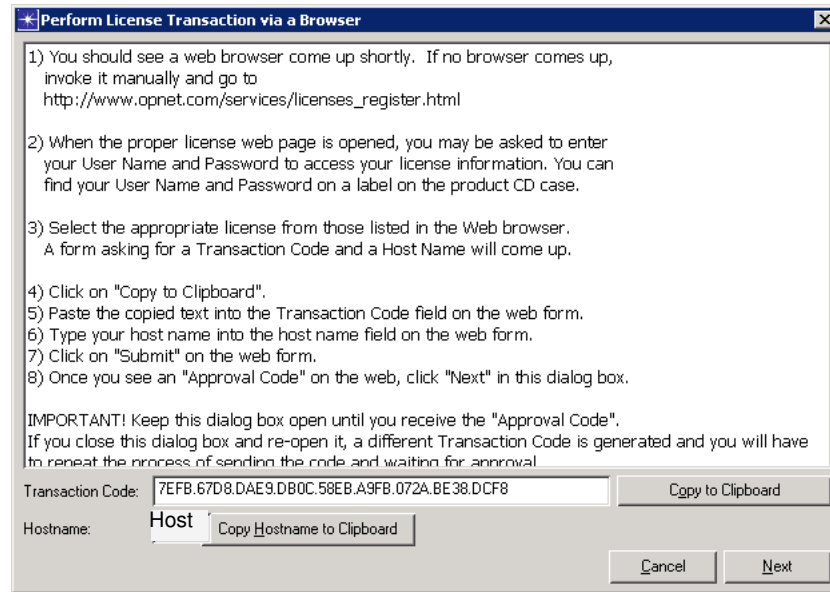
Procedure 3-13 Add Licenses Using Browser Method

1 Complete Procedure 3-11, selecting the Browser method for adding licenses.

➔ The License Manager launches your Web browser and points it to the licensing area of the OPNET website.

➔ License Manager launches a dialog box containing the Transaction Code and Hostname you will need in later steps.

Figure 3-17 Transaction Code and Hostname Dialog



The dialog box is titled "Perform License Transaction via a Browser". It contains a list of 8 numbered instructions for performing a license transaction. Below the instructions, there is a text field for "Transaction Code" containing the value "7EFB.67D8.DAE9.DB0C.58EB.A9FB.072A.BE38.DCF8" and a "Copy to Clipboard" button. Below that is a "Hostname:" label followed by a text field containing "Host" and a "Copy Hostname to Clipboard" button. At the bottom right are "Cancel" and "Next" buttons.

1) You should see a web browser come up shortly. If no browser comes up, invoke it manually and go to http://www.opnet.com/services/licenses_register.html

2) When the proper license web page is opened, you may be asked to enter your User Name and Password to access your license information. You can find your User Name and Password on a label on the product CD case.

3) Select the appropriate license from those listed in the Web browser. A form asking for a Transaction Code and a Host Name will come up.

4) Click on "Copy to Clipboard".

5) Paste the copied text into the Transaction Code field on the web form.

6) Type your host name into the host name field on the web form.

7) Click on "Submit" on the web form.

8) Once you see an "Approval Code" on the web, click "Next" in this dialog box.

IMPORTANT! Keep this dialog box open until you receive the "Approval Code". If you close this dialog box and re-open it, a different Transaction Code is generated and you will have to repeat the process of sending the code and waiting for approval.

Transaction Code: 7EFB.67D8.DAE9.DB0C.58EB.A9FB.072A.BE38.DCF8 Copy to Clipboard

Hostname: Host Copy Hostname to Clipboard

Cancel Next

- 2 Log in with your OPNET Username and Password when the following dialog box appears. Click OK.

Figure 3-18 Login to OPNET Support Center



The dialog box is titled "Enter Network Password". It contains a key icon and the text "Please type your user name and password." Below this, there are fields for "Site:" (corporate2.opnet.com), "Realm:" (OPNET), "User Name", and "Password". There is a checkbox labeled "Save this password in your password list" which is currently unchecked. At the bottom are "OK" and "Cancel" buttons.

Please type your user name and password.

Site: corporate2.opnet.com

Realm: OPNET

User Name

Password

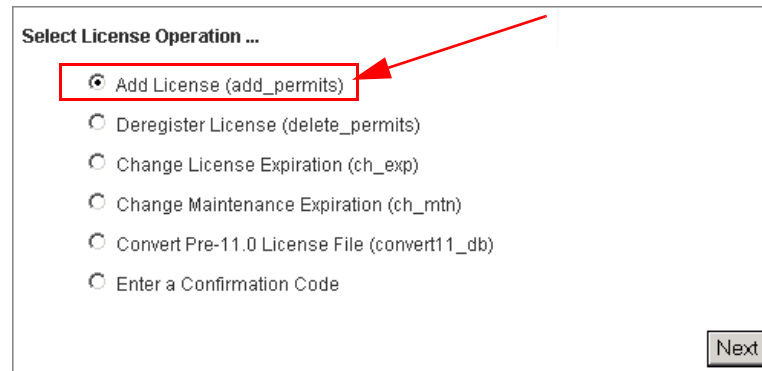
☐ Save this password in your password list

OK Cancel

Note—If your browser fails to launch, start it manually, navigate to <http://www.opnet.com/support/>, and click on "License Registration."

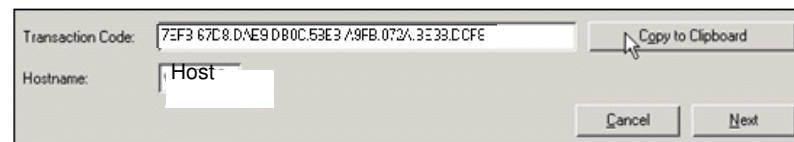
- 3 Click on "Perform license operations."
- 4 Select "Add License (add_permits)," and click Next.

Figure 3-19 Add License—Browser Method



- 5 Enter the Transaction Code and Hostname from License Manager (see step 1). You can either paste the text or type it manually. Make sure there are no extra spaces before or after the code or hostname. Click Next.

Figure 3-20 Enter Transaction Code/Hostname



- 6 When the "Select Starting License" page appears, select the lowest license ID that you want to add to your computer. If you want to add only one license, select that license.
- 7 When the "Select Ending License" page appears, select the highest license ID that you want to add to your computer. If you want to add only one license, select that license.
 - ➔ The confirmation page appears.
- 8 When the "License Registration Confirmation" page appears, check that the information is correct, then click Get Approval Code.
 - ➔ The Approval Code appears.
- 9 In the License Manager, click Next and enter the Approval Code. This code can be very long, so make sure you copy the entire Approval Code. After you enter the Approval Code, click Next.
- 10 When the Add License operation is complete, the Select Product Modules dialog box may appear. This allows you to select the available modules you want to use. Select the modules of interest.
- 11 Exit the License Manager, as described in Exiting the License Manager GUI.

End of Procedure 3-13

Procedure 3-14 Add Licenses Using the Email or Offline Method

- 1** Contact OPNET Technical Support to open a license registration case.
- 2** Complete Procedure 3-11, selecting either the Email or Offline method for adding licenses.
 - ➡ The License Manager launches a dialog box containing the Transaction Code with license server hostname you will need in later steps.
- 3** Provide this information as follows:
 - Email—Copy and paste the Transaction code into an email and send to your point of contact for your technical support case.
 - Offline—Communicate the Transaction Code via phone or fax to your point of contact for your technical support case.
- 4** Click Next.
 - ➡ A dialog box opens which prompts you for the Approval Code.
- 5** You will receive an Approval Code from OPNET Technical Support via email, phone, or fax. Enter this into the dialog box and click Next.
 - ➡ Your license registration is complete.

End of Procedure 3-14

Manage Licenses from the License Manager GUI

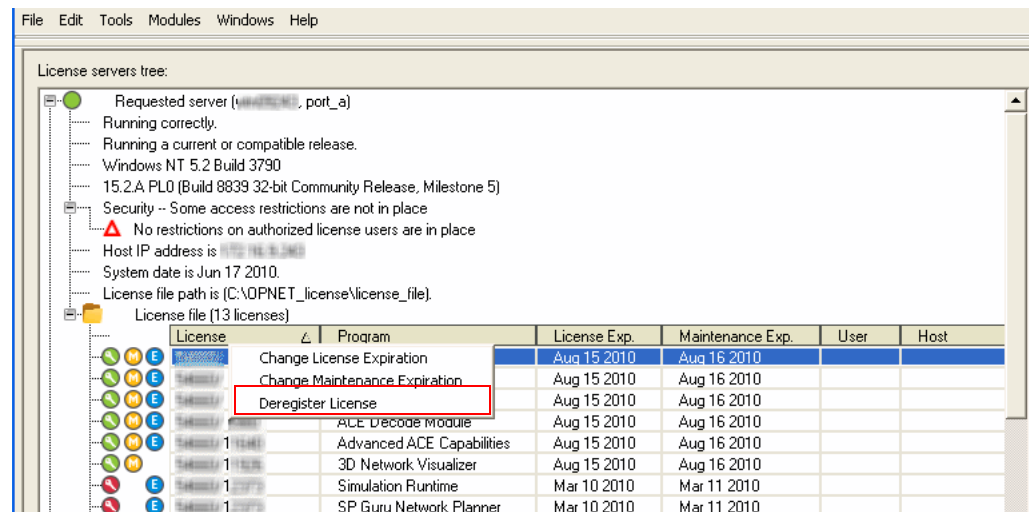
Once you have added your licenses to the license server, there are certain operations you may need to perform at a later time. For example

- Deregistering a License
- Clearing a License File
- Changing the Maintenance Expiration for a License
- Changing the Expiration Date for a License

Deregistering a License

Typically, you will deregister licenses if the computer is about to be reformatted or decommissioned, or if you want to move the license permit to another license file. The Deregister License button does not appear if you have selected a license permit that is in use. You can also right-click on a license and deregister it from the pop-up menu, as shown in the following figure.

Figure 3-21 Deregister License from Pop-Up Menu



Deregister License from the License Manager GUI To begin the deregistration process, start with Procedure 3-15 and continue to the procedure that applies to the deregistration method you will be using.

Procedure 3-15 Deregister Licenses from a License Server

- 1 Open the License Manager GUI as described in Starting the License Manager GUI.
- 2 Select the license server from which you want to deregister licenses in the treeview. (See License Manager Operations within GUI for more information on the treeview).
- 3 In the License Manager, expand the license file by clicking on the "+" sign next to the "License file" folder icon. Make sure the license you want to deregister is available (green).

-
- 4 Select the license you want to deregister by clicking on it (use control-click or click-drag to select multiple licenses). Then click on the Deregister License button on the right side of the License Manager (or right-click on the license in the treeview and select Deregister License) to start the transaction.
 - 5 Select one of the methods for deregistering licenses (or click Cancel to exit this workflow):
 - Express—Use Procedure 3-16
 - Browser—Use Procedure 3-17
 - Email—Use Procedure 3-18
 - Offline—Use Procedure 3-14
 - 6 Go to the procedure indicated for a given method, if applicable.

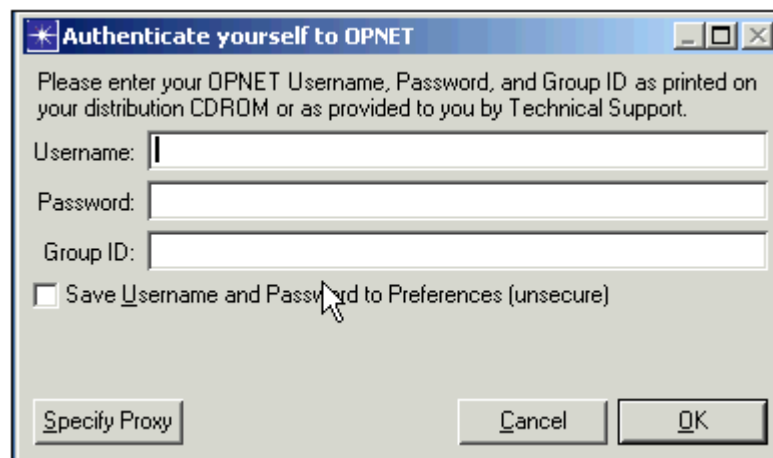
End of Procedure 3-15

To deregister licenses using the express method, use the following procedure.

Procedure 3-16 Deregister Licenses Using Express Method

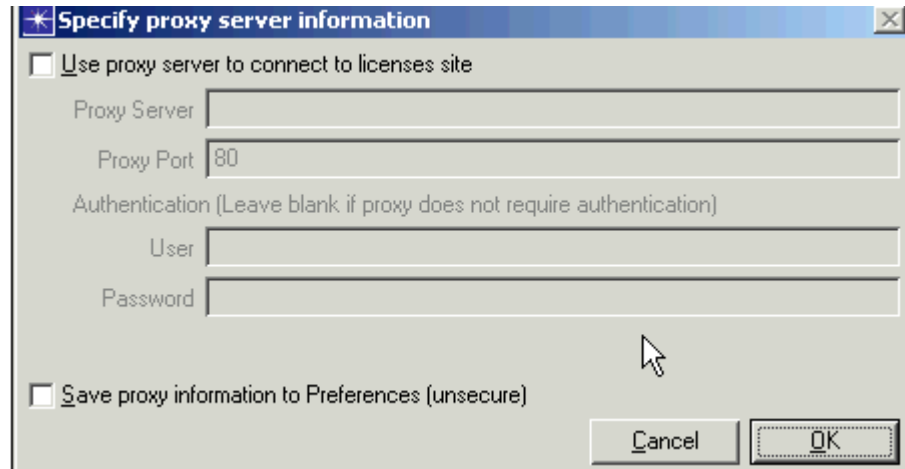
- 1 Complete Procedure 3-15, selecting the Express method for deregistering licenses.
- 2 Enter your OPNET Username, Password, and Group ID in the appropriate fields. Click OK.

Figure 3-22 Authenticate Yourself to OPNET



- 3 If your computer uses a proxy server, click on the Specify Proxy button and fill in the information. Click OK.

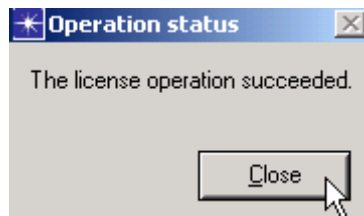
Figure 3-23 Specify Proxy



➔ A progress bar indicates that the deregistration process is executing.

- 4 When the Deregister License operation is complete, the following dialog box appears. Click Close to exit license operations and close your browser.

Figure 3-24 License Deregistration Success



- 5 Exit the License Manager, as described in Exiting the License Manager GUI.

Note—If the Express Method fails due to firewall restrictions or other problems, use the Browser method, described in Procedure 3-13.

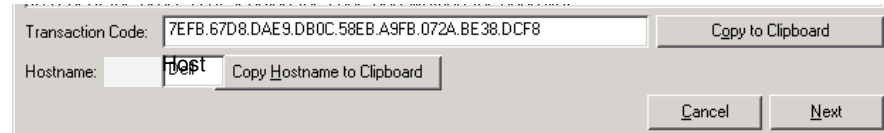
End of Procedure 3-16

To deregister licenses using the browser method, use the following procedure.

Procedure 3-17 Deregister Licenses Using Browser Method

- 1 Complete Procedure 3-11, selecting the Browser method for deregistering licenses.
 - ➔ The License Manager launches your Web browser and points it to the licensing area of the OPNET Technical Support website.
 - ➔ License Manager launches a dialog box containing the Transaction Code and Hostname you will need in later steps.

Figure 3-25 Transaction Code and Hostname Dialog



A dialog box with two input fields. The first field is labeled "Transaction Code:" and contains the text "7EFB.67D8.DAE9.DB0C.58EB.A9FB.072A.BE38.DCF8". To its right is a button labeled "Copy to Clipboard". The second field is labeled "Hostname:" and contains the text "Host". To its right is a button labeled "Copy Hostname to Clipboard". At the bottom right are two buttons: "Cancel" and "Next".

- 2 Log in with your OPNET Username and Password when the following dialog box appears. Click OK.

Figure 3-26 Login to OPNET Support Center

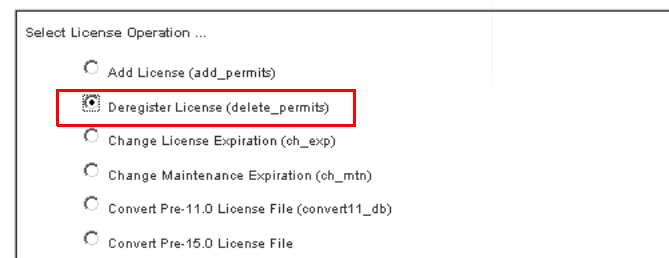


A dialog box titled "Enter Network Password" with a key icon. It contains the text "Please type your user name and password." Below this are two labels: "Site:" with the value "corporate2.opnet.com" and "Realm:" with the value "OPNET". There are two input fields: "User Name" and "Password". Below these is a checkbox labeled "Save this password in your password list" which is unchecked. At the bottom are two buttons: "OK" and "Cancel".

Note—If your browser fails to launch, start it manually, navigate to <http://www.opnet.com/support/>, and click on "License Registration."

- 3 Click on "Perform license operations."
- 4 Select "Deregister License_permits)," and click Next.

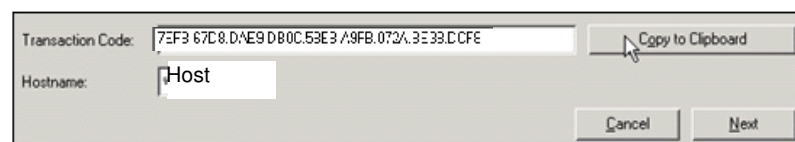
Figure 3-27 Deregister License—Browser Method



A dialog box titled "Select License Operation ...". It contains a list of radio button options: "Add License (add_permits)", "Deregister License (delete_permits)", "Change License Expiration (ch_exp)", "Change Maintenance Expiration (ch_mtn)", "Convert Pre-11.0 License File (convert11_db)", and "Convert Pre-15.0 License File". The "Deregister License (delete_permits)" option is selected and highlighted with a red rectangle.

- 5 Enter the Transaction Code and Hostname from License Manager (see step 1). You can either paste the text or type it manually. Make sure there are no extra spaces before or after the code or hostname. Click Next.

Figure 3-28 Enter Transaction Code/Hostname



A dialog box with two input fields. The first field is labeled "Transaction Code:" and contains the text "7EF3.67D8.DAE9.DB0C.58E3.A9FB.072A.3E38.DCFE". To its right is a button labeled "Copy to Clipboard". The second field is labeled "Hostname:" and contains the text "Host". At the bottom right are two buttons: "Cancel" and "Next".

-
- 6 When the "Select Starting License" page appears, select the lowest license ID that you want to deregister from your computer. If you want to deregister only one license, select that license.
 - 7 When the "Select Ending License" page appears, select the highest license ID that you want to deregister from your computer. If you want to deregister only one license, select that license.
 - ➔ The confirmation page appears.
 - 8 When the "License Registration Confirmation" page appears, check that the information is correct, then click Get Approval Code.
 - ➔ The Approval Code appears.
 - 9 In the License Manager, click Next and enter the Approval Code. This code can be very long, so make sure you copy the entire Approval Code. After you enter the Approval Code, click Next.
 - 10 In the License Manager, a Confirmation Code is displayed. Copy this Confirmation Code and enter it where required in the browser window, as shown. Click Next.
 - ➔ The licensing operation completes.

Figure 3-29 Enter Confirmation Code

Approval Code

The following Approval Code will complete the Delete Permit operation for license(s) 9700J 824 - 824 on host.
Please enter the code in the OPNET License Manager software.

670B.B6AD.F4B7.FC0E.7FFA.3DAA.A83E.39E3.7C97

This operation requires a confirmation code. Please enter it below

Confirmation Code. Please enter Confirmation Code below:

7A25.9D16.5155.D248.C02F.383A.A6EB.D09C.BCBE

Next

- 11 In the License Manager, click Done.
- 12 Exit the License Manager, as described in Exiting the License Manager GUI.

End of Procedure 3-17

To deregister licenses using the email or offline method, use the following procedure.

Procedure 3-18 Deregister Licenses Using the Email or Offline Method

- 1 Contact OPNET Technical Support to open a license registration case.

-
- 2 Complete Procedure 3-11, selecting either the Email or Offline method for deregistering licenses.
 - ➡ The License Manager launches a dialog box containing the Transaction Code with license server hostname you will need in later steps.
 - 3 Provide this information as follows:
 - Email—Copy and paste the Transaction code into an email and send to your point of contact for your technical support case.
 - Offline—Communicate the Transaction Code via phone or fax to your point of contact for your technical support case.
 - 4 Click Next.
 - ➡ A dialog box opens which prompts you for the Approval Code.
 - 5 You will receive an Approval Code from OPNET Technical Support via email, phone, or fax. Enter this into the dialog box and click Next.
 - 6 In the License Manager, a Confirmation Code is displayed. Copy this Confirmation Code to an email to send to your technical support point of contact or provide the code via phone or fax.
 - ➡ Your license deregistration is complete.

End of Procedure 3-18

Deregistering versus Clearing a License File Should you use "Deregister License" or "Clear License File"? These two options sound very similar but each performs the same operation on a different scale.

- Option 1—Deregister all licenses
If you want to deregister all of your licenses in a single operation, use Clear License File. This deregisters all licenses in the license file at once, regardless of their contract number range.
- Option 2—Deregister one or more selected licenses
If you want to deregister a selected license use the Deregister License operation and select the license(s) to remove from your license file.

Clearing a License File

This operation deregisters *all* licenses from the license file in a single operation. The Clear License File button appears in the License Manager GUI only if no licenses in the file are in use. The choice also appears on the pop-up menu when you right-click on a license file, if no licenses in the file are in use. You should *always* contact OPNET Technical Support by e-mail, phone, or fax before performing this operation.

Changing the Maintenance Expiration for a License

The maintenance expiration controls which releases of the application you can run. Current maintenance allows you to use the latest release and entitles you to technical support and other services. The procedures in this section apply to scenarios in which you have the License Manager GUI available for license management. To begin the change maintenance expiration process, start with Procedure 3-19 and continue to the procedure that applies to the deregistration method you will be using.

Procedure 3-19 Change Maintenance Expiration for a License

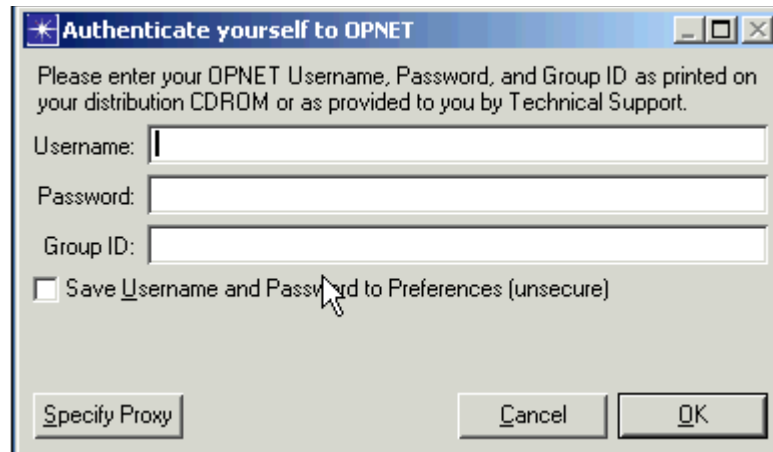
- 1 Open the License Manager GUI as described in Starting the License Manager GUI.
- 2 Select the license server for which you want to modify licenses in the treeview. (See License Manager Operations within GUI for more information on the treeview).
- 3 In the License Manager, expand the license file by clicking on the "+" sign next to the "License file" folder icon. Make sure the license you want to modify is available (green).
- 4 Select the license you want to modify by clicking on it (use control-click or click and drag to select multiple licenses). Then click on the Change Maintenance Expiration button on the right side of the License Manager (or right-click on the license in the treeview and select Change Maintenance Expiration) to start the transaction.
- 5 Select one of the methods for modifying licenses (or click Cancel to exit this workflow):
 - Express—Use Procedure 3-16
 - Browser—Use Procedure 3-17
 - Email—Use Procedure 3-18
 - Offline—Use Procedure 3-14
- 6 Go to the procedure indicated for a given method, if applicable.

End of Procedure 3-19

Procedure 3-20 Change Maintenance Expiration Using the Express Method

- 1 Complete Procedure 3-15, selecting the Express method for modifying licenses.
- 2 Enter your OPNET Username, Password, and Group ID in the appropriate fields. Click OK.

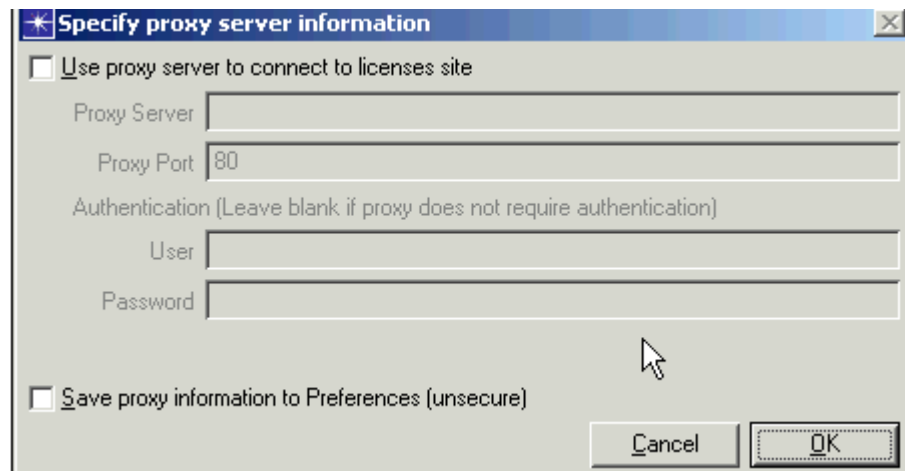
Figure 3-30 Authenticate Yourself to OPNET



A dialog box titled "Authenticate yourself to OPNET" with a blue header bar. The text inside says: "Please enter your OPNET Username, Password, and Group ID as printed on your distribution CDROM or as provided to you by Technical Support." There are three input fields: "Username:", "Password:", and "Group ID:". Below these is a checkbox labeled "Save Username and Password to Preferences (unsecure)". At the bottom are three buttons: "Specify Proxy", "Cancel", and "OK".

- 3 If your computer uses a proxy server, click on the Specify Proxy button and fill in the information. Click OK.

Figure 3-31 Specify Proxy

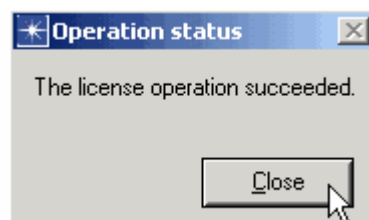


A dialog box titled "Specify proxy server information" with a blue header bar. It contains a checkbox "Use proxy server to connect to licenses site". Below this are input fields for "Proxy Server", "Proxy Port" (with "80" entered), "Authentication (Leave blank if proxy does not require authentication)", "User", and "Password". At the bottom is a checkbox "Save proxy information to Preferences (unsecure)" and two buttons: "Cancel" and "OK".

➡ A progress bar indicates that the deregistration process is executing.

- 4 When the following dialog box appears, click OK to complete the operation and close the window.

Figure 3-32 Successful License Maintenance Change Operation



A small dialog box titled "Operation status" with a blue header bar. The text inside says: "The license operation succeeded." There is a single button labeled "Close" at the bottom.

-
- 5 Exit the License Manager, as described in Exiting the License Manager GUI.

Note—If the Express method fails, try another method, such as the Browser method, described in Procedure 3-20.

End of Procedure 3-20

To change maintenance expiration for one or more licenses using the browser method, use the following procedure.

Procedure 3-21 Change Maintenance Expiration Using the Browser Method

- 1 Complete Procedure 3-11, selecting the Browser method for deregistering licenses.
 - The License Manager launches your Web browser and points it to the licensing area of the OPNET Technical Support website. If your browser fails to launch, start it manually, navigate to <http://www.opnet.com/support/>, and click on "License Registration."
 - License Manager launches a dialog box containing the Transaction Code and Hostname you will need in later steps.
- 2 Enter your OPNET username and password, and then click OK.
- 3 Click on "Perform license operations."
- 4 Select "Update Maintenance Expiration", and click Next.
 - A dialog box appears in the License Manager GUI with your hostname and a transaction code. You need the transaction code for the next step.
- 5 Enter the Transaction Code and Hostname into the browser, and then click Next.

Note—You can either paste the text from the License Manager GUI or type it manually into the browser. Make sure there are no extra spaces before or after the code or hostname.
- 6 When the "Select Starting License" page appears, select the lowest license ID that you want to update. If you want to change the maintenance expiration date of only one license, select that license.
- 7 When the Select Ending License page appears, select the highest license ID that you want to update. If you want to change the maintenance expiration date of only one license, select that license.
 - The confirmation page appears.
- 8 When the License Registration Confirmation page appears, check that the information is correct, and then click Get Approval Code.
 - The Approval Code appears.

-
- 9 In the License Manager, click on the Next button, and enter the Approval Code. After you enter the Approval Code, click on the Next button.

Note—This code can be long, so make sure you copy the entire Approval Code.

➡ In the License Manager, the Confirmation Code appears.

- 10 Enter the Confirmation Code in the browser, and then click Next.

Note—The Confirmation Code was saved in the Session Log, which is available from the Help menu in the OPNET software, and can be retrieved later if necessary.

- 11 In the License Manager, click Done.

➡ The license is updated to its current authorized value.

End of Procedure 3-21

To change maintenance expiration using the email or offline method, use the following procedure.

Procedure 3-22 Change Maintenance Expiration Using the Email or Offline Method

- 1 Contact OPNET Technical Support to open a license registration case.
- 2 Complete Procedure 3-20 or Procedure 3-21, selecting either the Email or Offline method for changing maintenance expiration.
 - ➡ The License Manager launches a dialog box containing the Transaction Code with license server hostname you will need in later steps.
- 3 Provide this information as follows:
 - Email—Copy and paste the Transaction code into an email and send to your point of contact for your technical support case.
 - Offline—Communicate the Transaction Code via phone or fax to your point of contact for your technical support case.
- 4 Click Next.
 - ➡ A dialog box opens which prompts you for the Approval Code.
- 5 You will receive an Approval Code from OPNET Technical Support via email, phone, or fax. Enter this into the dialog box and click Next.

-
- 6 In the License Manager, a Confirmation Code is displayed. Copy this Confirmation Code to an email to send to your technical support point of contact or provide the code via phone or fax.

➡ Your change is complete.

End of Procedure 3-22

Changing the Expiration Date for a License

The license expiration controls how long you can use the license. After a license expires, it no longer runs OPNET applications. The procedures in this section apply to scenarios in which you have the License Manager GUI available for license management. To begin the change expiration date process for licenses, start with Procedure 3-23 and continue to the procedure that applies to the method you will be using.

Procedure 3-23 Change License Expiration Date from License Manager

- 1 Open the License Manager GUI as described in Starting the License Manager GUI.
- 2 Select the license server on which you want to change license expiration date in the treeview. (See License Manager Operations within GUI for more information on the treeview).
- 3 In the License Manager, expand the license file by clicking on the "+" sign next to the "License file" folder icon. Make sure the license you want to select is available (green).
- 4 Select the license you want to modify by clicking on it (use control-click or click-drag to select multiple licenses). Then click on the Change License Expiration button on the right side of the License Manager (or right-click on the license in the treeview and select Change License Expiration) to start the transaction.
- 5 Select one of the methods for modifying license expiration (or click Cancel to exit this workflow):
 - Express—Use Procedure 3-24
 - Browser—Use Procedure 3-25
 - Email—Use Procedure 3-26
 - Offline—Use Procedure 3-26
- 6 Go to the procedure indicated for a given method, if applicable.

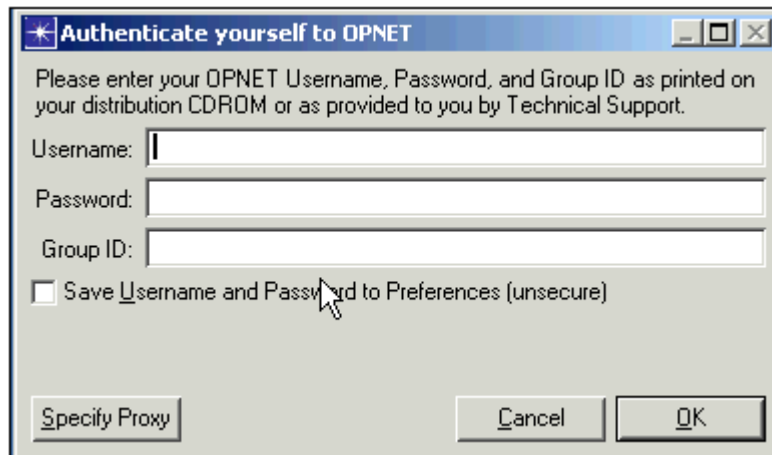
End of Procedure 3-23

To change license expiration using the express method, use the following procedure.

Procedure 3-24 Change License Expiration Using Express Method

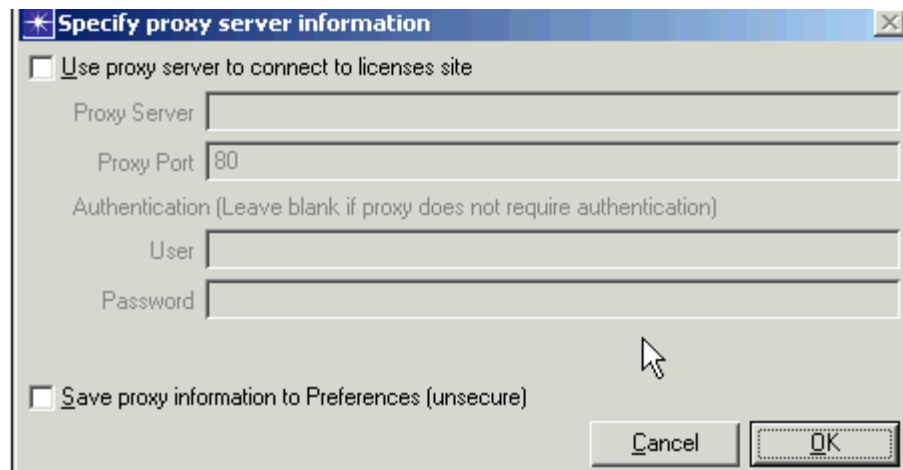
- 1 Complete Procedure 3-23, selecting the Express method for changing license expiration dates.
- 2 Enter your OPNET Username, Password, and Group ID in the appropriate fields. Click OK.

Figure 3-33 Authenticate Yourself to OPNET



- 3 If your computer uses a proxy server, click on the Specify Proxy button and fill in the information. Click OK.

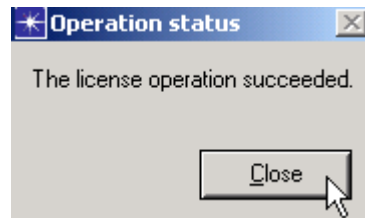
Figure 3-34 Specify Proxy



➡ A progress bar indicates that the deregistration process is executing.

- 4 When the Change License Expiration operation is complete, the following dialog box appears. Click Close to exit license operations and close your browser.

Figure 3-35 License Operation Success



- 5 Exit the License Manager, as described in Exiting the License Manager GUI.

Note—If the Express Method fails due to firewall restrictions or other problems, use the Browser method, described in Procedure 3-25.

End of Procedure 3-24

To change license expiration using the browser method, use the following procedure.

Procedure 3-25 Change License Expiration Using Browser Method

- 1 Complete Procedure 3-23, selecting the Browser method for modifying licenses.
 - The License Manager launches your Web browser and points it to the licensing area of the OPNET website.
 - License Manager launches a dialog box containing the Transaction Code and Hostname you will need in later steps.
- 2 Log in with your OPNET Username and Password when the following dialog box appears. Click OK.

Figure 3-36 Login to OPNET Support Center



Note—If your browser fails to launch, start it manually; navigate to <http://www.opnet.com/support/>, and click on "License Registration."

-
- 3 Click on "Perform license operations."
 - 4 Select "Update License Expiration," and click Next.
 - 5 Enter the Transaction Code and Hostname from License Manager. You can either paste the text or type it manually. Make sure there are no extra spaces before or after the code or hostname. Click Next.
 - 6 When the "Select Starting License" page appears, select the lowest license ID that you want to modify. If you want to modify only one license, select that license.
 - 7 When the "Select Ending License" page appears, select the highest license ID that you want to modify. If you want to modify only one license, select that license. The confirmation page appears.
 - 8 When the "License Registration Confirmation" page appears, verify that the information is correct, then click Get Approval Code.
 - ➡ The Approval Code appears.
 - 9 In the License Manager, click Next and enter the Approval Code. This code can be very long, so make sure you copy the entire Approval Code. After you enter the Approval Code, click Next.
 - 10 In the License Manager, a Confirmation Code is displayed. Copy this Confirmation Code and enter it where required in the browser window. Click Next.
 - ➡ The licensing operation completes.
 - 11 In the License Manager, click Done.
 - 12 Exit the License Manager, as described in Exiting the License Manager GUI.

End of Procedure 3-25

To change expiration dates for licenses using the email or offline method, use the following procedure.

Procedure 3-26 Change License Expiration Using the Email or Offline Method

- 1 Contact OPNET Technical Support to open a license registration case.
- 2 Complete Procedure 3-23, selecting either the Email or Offline method for modifying licenses.
 - ➡ The License Manager launches a dialog box containing the Transaction Code with license server hostname you will need in later steps.
- 3 Provide this information as follows:
 - Email—Copy and paste the transaction code into an email and send to your point of contact for your technical support case.

-
- Offline—Communicate the transaction code via phone or fax to your point of contact for your technical support case.

4 Click Next.

➡ A dialog box opens which prompts you for the Approval Code.

5 You will receive an Approval Code from OPNET Technical Support via email, phone, or fax. Enter this into the dialog box and click Next.

6 In the License Manager, a Confirmation Code is displayed. Copy this Confirmation Code to an email to send to your technical support point of contact or provide the code via phone or fax.

➡ Your licensing operation is complete.

End of Procedure 3-26

Stopping the License Server

This section describes the methods for stopping a license server.

WARNING—Do not stop the License Server while any licensed application is running, unless you will bring the license server back up within 15 minutes. For best system behavior, ask users to stop using the software or revoke all in-use licenses with the License Manager before stopping the License Server.

Stopping the License Server from the License Manager GUI

The following procedure describes the preferred way for stopping the License Server if you have access to the License Manager GUI. You can also use one of the alternate methods given for specific OS platforms.

Procedure 3-27 Stopping the License Server from the License Manager GUI

- 1** Run the License Manager (as in Starting the License Manager GUI).
- 2** In the License Manager treeview, select the license file of the server you intend to stop, and verify that no licenses are in use. The following points apply to loanable licensing, which is not applicable to AppInternals Xpert, AppTransaction Xpert, or VNE Server
 - If any licenses are checked out, you can forcibly revoke them by selecting Tools > Forcibly Return Loaned-out License in the License Manager. To do so, select and revoke those licenses. The user receives a warning message and a short grace period, allowing time to save files and exit the application. If the user does not exit, the application will quit.
 - You can choose not to revoke any checked-out licenses if you will bring the license server back up within a few minutes.

-
- 3 Click the Stop License Server button.

End of Procedure 3-27

Stopping the License Server from Windows (Alternate Methods)

In addition to the methods already described, you can stop the OPNET License Manager service, as shown in the following procedure.

Procedure 3-28 Stopping the License Server on Windows (Manually)

- 1 Start the Services application (in the Administrative Tools section of the Windows Control Panel).
Note—Your path to the Services application depends on your version of the Windows operating system. Please consult your Microsoft manual for assistance.
- 2 Locate OPNET License Server in the scrolling list of available services. If the Status column entry for this service reads “Started”, select it and click Stop.

End of Procedure 3-28

WARNING—Do not use Procedure 3-29 on AppInternals Xpert.

Procedure 3-29 Stopping the License Server on Windows (OPNET analysis software only)

- 1 Invoke the License Manager program from the command line in the stop server mode:

```
op_license_util -license_server_kill -license_server <server> \  
-license_port <port>
```

For information about `op_license_util`, see the *Program Descriptions* chapter of your product documentation.

End of Procedure 3-29

Stopping the License Server on Linux (Alternate Methods)

The following procedure describes an alternate way to stop the license server on Linux.

WARNING—Do not use Procedure 3-30 on AppInternals Xpert or VNE Server.

Procedure 3-30 Stopping the License Server on Linux (Alternate Method)

Warning—Use this procedure only when other methods do not work.

- 1 Determine the process id (pid) of `op_license_server` by logging into the process' host and using the `ps` command.
- 2 Execute the `kill` command from the command line:

```
kill <pid>
```

End of Procedure 3-30

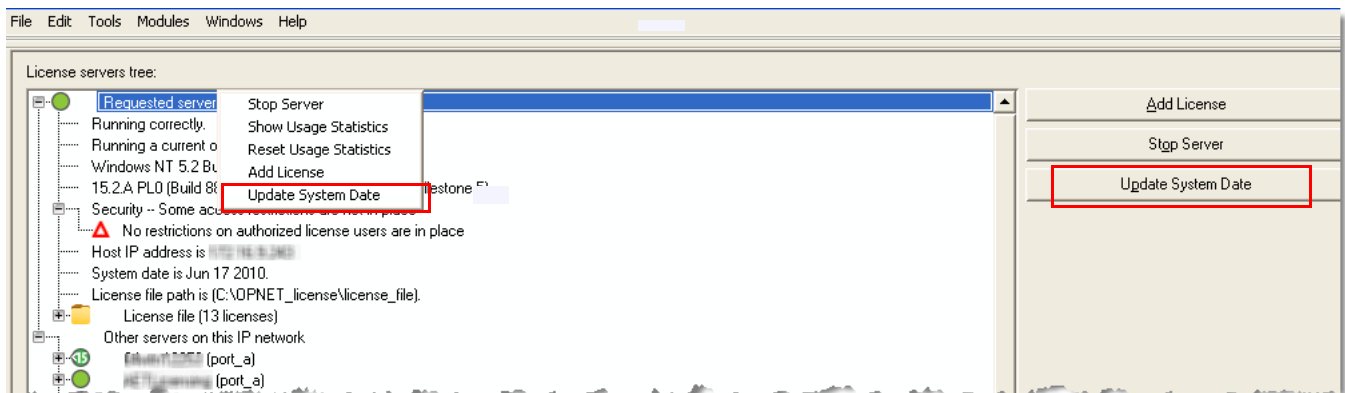
Updating the System Date on a License Server

You may need to update the system date on a license server because the server's date is not the current date. This can occur even if the computer running the license server is set to the current date.

Note—Resetting the date requires that you contact technical support via either the Internet, e-mail, or phone/fax.

The Update System Date button in the License Manager GUI, shown in the following figure, lets you reset the license server's date, shown in the System Date field as listed in Table 3-3 on page AG-3-20, to the current date.

Figure 3-37 Update System Date on License Server



You can also right-click on the server, and select “Update System Date” from the pop-up menu, as shown.