

License Key Administrator main screen

The License Key Administrator's main screen displays a list of currently installed Rational software licenses and each license's status. Click on any column heading (Product, Type, Expiration, and Qty) to sort the licenses according to that column's properties.

The buttons at the top of the screen perform the following actions when selected. Their menu command equivalents follow the button information.

Clicking the Icon	Does the following	Equivalent menu command
	Invokes the License Administrator Wizard	License > License Wizard
	Invokes the License Key Administrator and displays the License Key Certificate Wizard dialog box , enabling you to enter license key certificate information	License > Enter a License...
	Displays the Import License Key(s) dialog box , enabling you to import a license key	License > Import License Key(s)...
	Displays the Request Permanent License Key dialog box , enabling you to request a permanent license key	License > Request Permanent License Key(s)...
	Displays the Change License Key Count dialog box , enabling you to change the license key count for a particular license	License > Change License Key Count...
	Electronically sends a pending, permanent license key request for a node-locked or floating license	License > Send Pending Request(s)...
	Displays the standard Windows Print dialog box, enabling you to print a license key request. You can fax the printed request to Rational Software, or phone Rational Software and provide the information contained in the printed request.	License > Print Pending Request(s)...
	Displays the Delete License Key Requests dialog box , enabling you to delete all or selected license key requests	License > Delete Request(s)...
	Displays the Company Account Information dialog box , enabling you to enter or modify company name and account number information from the Rational License Key Certificate	Edit > Account Information
	Displays the Modify User Contact Information dialog box , enabling you to enter or modify contact information for the person who will receive the license keys	Edit > User Contact Information
N/A	Displays the Modify Renewal Contact Information dialog box , enabling you to enter or modify contact information for the person Rational Software should contact with renewal and maintenance information	Edit > Renewal Contact Information
	Displays the Service Configuration dialog box , enabling you to locate the license key files and specify the license key source you want to use	Settings > Service Configuration
	Displays the Proxy Settings dialog box , enabling you to specify whether a proxy is in use and the relevant host information	Settings > Proxy Configuration
	Displays the version information for Rational's License Key Administrator	Help > About Rational License Key Administrator
	Displays the License Key Administrator Help for the main screen. Click the button, then click on the main screen.	N/A
N/A	Displays the License Key Administrator online help.	Help > Contents and Index
N/A	Opens the Rational Web site (if you are online)	Help > Rational on the Web
N/A	Changes the material displayed in the License Key Administrator's main window, allowing you to see licenses according to the following criteria: Show only valid licenses Show floating licenses Show node-locked licenses Show server licenses	View > Show > Invalid and Expired Licenses View > Show > Floating Licenses View > Show > Node Locked Licenses View > Show > Served Licenses
N/A	Specifies whether you want to receive warnings about license key expirations.	Checkout > Display Expiration Warnings
N/A	Specifies that an application request a product license key first rather than a Rational Suite license.	Checkout > License Order (Suite Map)

Obtain a License with the License Key Administrator Wizard

The **License Key Administrator Wizard** takes you through the steps necessary to obtain a license for your machine. The first dialog box in the Wizard, **What action do you want to take?**, provides the following choices:

- [Point to a FLEXlm License Server to get my licenses](#)
- [Enter the data from a Rational Software License Certificate to install that license on this machine](#)
- [Request a license from Rational Software via Internet Connection, E-mail, or FAX](#)
- [Import a Rational License File](#)

You can keep the Wizard from appearing every time you start the License Administrator by selecting the **Don't show this wizard on startup again. I'll use the toolbar to activate it.** checkbox near the bottom of the dialog box.

Select **Finish** at the end of each succession of dialog boxes in the Wizard to complete your task.

Access this dialog box by selecting either **License > License Wizard** or the **Wizard button** on the License Key Administrator button bar.

Enter License Information

Use the series of **License Key Certificate Wizard** dialog boxes to enter license key certificate information.

1. In the **first dialog box**, choose either a **Temporary License Key**, a **Term License Agreement (TLA) Key**, or a **Permanent License Key**, depending on what is written on your license certificate.
2. In the **second dialog box**, choose the type of license you are installing, a **Node-Locked License Key** or a **Floating License Key**.
3. In the **third dialog box**, choose the **Product and Version** you are licensing and enter:
 - The **License Key**
 - The **Issued Date** (if you are installing either a TLA or permanent key)
 - The **Expiration Date** (if you are installing a Temporary or TLA license key)
 - The number of key **Units** you want (if you are installing a floating license)
4. Click **Finish** to complete your task.

Access this dialog box by selecting either **License > Enter a License** or the **Enter button** on the License Key Administrator button bar.

Import License Key(s) dialog box

Use this dialog box to import a license key update file.

In the **Import License Key(s)** dialog box, select the .upd file and then click **Open**.

Access this dialog box by selecting either **License > Import License Key(s)** or the **Import button** on the License Key Administrator button bar.

Request Permanent License Key dialog box

Use this dialog box to request either node-locked or floating permanent license keys. The Rational License Key Administrator updates the License Administrator's main screen to indicate pending requests for permanent license keys and creates a license request file, **rational_request.dat** and **rational_request.dat.txt**, located by default in **\Program Files\Rational\Common**.

Select this option	To request
Permanent version of ALL Temporary License Keys	Permanent license keys for all entries listed.
Permanent version of SELECTED Temporary License Keys	Permanent license keys for entries currently selected.
Select from list	A permanent license key for a Rational product. Use this option if you have not previously installed temporary license keys.

Choosing the **Select from list** option activates the **Node-locked** and **Floating** options and the product drop-down list box. Select either Node-locked or Floating and specify the product.

If you are requesting permanent license keys for all or selected temporary license keys, the Rational License Administrator activates the User Count text box. Enter the permanent license key count.

To send your license key request to Rational electronically, select **Send all requests to Rational immediately** and then click OK. The Rational License Key Administrator sends all pending requests.

To fax or phone your license key request to Rational, deselect **Send all requests to Rational immediately** and then click OK. Select **License > Print Pending Request(s)** and then either fax the printed request to Rational Software, or phone Rational Software and provide the information contained in the printed request. For information about contacting Rational Software, see the printed request or click [here](#).

Notes:

- You can request license keys only for products that you have purchased.
- To delete pending requests, right-click one or more pending requests and select **License > Delete Request(s)**. Then select the appropriate option in the Delete License Key Requests dialog box. You cannot delete requests that you have already sent to Rational Software.
- You can also change the number of users that use a floating license. For more information, click [here](#).

Access this dialog box by selecting either **License > Request Permanent License Key(s)** or the **Request button** on the License Key Administrator button bar.

Change License Key Count dialog box

Use this dialog box to change the number of floating licenses available from a license server system. You can increase or decrease the floating license key count to balance your licensing loads among different server systems. By reducing your floating license key count to zero, you can then uninstall your license server software and install the software on a new system.

If you are moving your license server software to another system, remove the license keys from your first system before removing your licensed software or installing software on your new system.

Select **Yes** to remove the selected license key from the machine. Select the check box to immediately send your request that Rational remove the license key.

Access this dialog box by selecting either **License > Change License Key Count** or the **Change button** on the License Key Administrator button bar.

Delete License Key Requests dialog box

Use this dialog box to delete all or selected license key requests. To delete pending requests, right-click one or more pending requests and select **Delete requests** from the shortcut menu. Then select the appropriate option in the **Delete License Key Requests** dialog box and click **OK**.

You cannot delete requests that you have already sent to Rational Software.

Access this dialog box by selecting either **License > Delete Request(s)** or the **Delete button** on the License Key Administrator button bar.

Company Account Information dialog box

Use the **Company Account Information dialog box** to enter the account information for your license key.

- Enter your company's name in the **Company Name** box (required).
- Enter your primary account number in the **Rational Account Number (Primary)** box. This number appears on the License Key Certificate for the Rational Software product you purchased (required).
- Leave the **Rational Account Number (Secondary)** box blank unless Licensing Support instructs you otherwise.

Access this dialog box by selecting either **Edit > Account Information** or the **Edit Account Information button** on the License Key Administrator button bar.

Modify User Contact Information dialog box

Use the **Modify User Contact Information** dialog box to supply information about the person who should receive permanent license keys or TLA license keys from Rational Software (user data); do this when you request a license key.

Provide the requested information when entering or editing user contact data (required information appears here in bold): **First Name, Last Name**, Title, Company Name, **Country, Phone, EMail Address** or **Fax, Postal Address, City, State/Province, ZIP/Postal Code**.

Notes:

- You must enter an email address if you want Rational Software to email license keys.
- State/Province and ZIP/Postal Code are not required outside of the USA.

Access this dialog box by selecting either **Edit > User Contact Information** or the **Edit Contact Information button** on the License Key Administrator button bar.

Modify Renewal Contact Information dialog box

Use the **Modify Renewal Contact Information** dialog box to supply information about the person Rational Software should contact with renewal and maintenance information (renewal data).

Provide the requested information in the following fields as you wish: First Name, Last Name, Title, Company Name, Country, Phone, EMail Address, Fax, Postal Address, City, State/Province, ZIP/Postal Code.

Notes:

- You must enter an email address if you want Rational Software to email license keys.
- State/Province and ZIP/Postal Code are not required outside of the USA.
- There are no required fields when entering renewal data.

Access this dialog box by selecting **Edit > Renewal Contact Information**.

Service Configuration dialog box

Use the **Service Configuration** dialog box to specify the locations of license key files, the license key source, and, for users of a floating license, the license server system where the license key is installed, and specific port numbers for the license manager and vendor daemons.

Access this dialog box by selecting either **Settings > Service Configuration** or the **Service Configuration button** on the License Key Administrator button bar.

These are the controls in the dialog box:

[License Key File](#)

[Select New File](#)

[License Key File Location](#)

[Use Node-Locked Key](#)

[Use single server](#)

[Port](#)

[Show Licenses](#)

[Use redundant servers](#)

[Set Up Servers](#)

A word about Advanced License Server Options

Normally, port numbers are not pre-assigned so that the system may assign them dynamically to make best use of resources. However, in specialized server situations, such as communicating through a firewall, you will need to specify the port numbers so that the same ones are always used. In such a case, a license request would be routed to the license manager daemon port (specified in *Imgrd Port*), which passes the request to the application using the Rational vendor daemon port (specified in *Rational Vendor Port*).

For an overview of the license manager and vendor daemons, see the section "The License Manager Daemon and the Vendor Daemon" in the FLEXlm Features and Configuration chapter of *Administering Licenses for Rational Software*.

The following text boxes are used **together**. The **Rational_redirect.dat** file, located by default in **\Program Files\Rational\Common**, stores the port information along with the name of the license server system.

[Imgrd Port](#)

[Rational Vendor Port](#)

Proxy Settings dialog box

Use the **Proxy Settings** dialog box to specify either a normal server or a proxy server for the location of the license files, as well as the local and target host information, if applicable.

These are the controls in the dialog box:

[Normal and Proxy buttons](#)

[Redundant Servers and Redundant Servers Proxy buttons](#)

[Local Host Name, Local Host ID](#)

[Target Host Name, Target Host ID](#)

Access this dialog box by selecting either **Settings > Proxy Configuration** or the **Proxy button** on the License Key Administrator button bar.

Use the **License Key File** box to choose the kind of license key file you want to work with:

- Floating - Permanent
- Floating - Temporary
- Node Locked - Permanent
- Node Locked - Temporary

Use the **Select New File** button to choose a different license file than the one displayed in License Key Files Location. When you select this button, the standard Windows file selection dialog box will appear.

The **License Key File Location** text box displays the system location of the license key file.

Use the **Use Node-Locked Key (on local machine)** option to select a node-locked key as your license source. If your system is configured as a server, using a node-locked key is your only option. However, you can mix node-locked and floating licenses on a non-server machine.

Select the **Use single server** option to use a floating license on a single server as your license source, then enter the name of the license server in the text box.

You can also indicate a port number if you wish in the **Port** box. To see the list of floating licenses, click **Show Licenses**.

You can use the single server option only if your system is NOT configured as a server. However, you CAN mix node-locked and floating licenses on a non-server machine.

Use the **Port** text box to enter a port number if you wish.

If you have selected **Use single server** and specified a license server name, you can review the available license keys on the license server by selecting the **Show Licenses** button. This displays the **Server Licenses** dialog box, which contains information about the single server licenses currently available. You cannot modify information in this dialog box.

Select the **Use redundant servers** option to use three servers (primary, secondary, and backup) for your license source. To set up the servers, click **Set Up Servers** to access the **Set up Redundant Servers** dialog box.

Selecting the **Set Up Servers** button displays the **Set up Redundant Servers** dialog box. To set up the servers:

1. Enter the names of the Primary, Secondary, and Backup servers.
2. Enter a port number if you wish.

See the licenses associated with each server by clicking **Show Primary Licenses**, **Show Secondary Licenses**, and **Show Backup Licenses** to display the **Server Licenses** dialog box.

The **Display Expiration Warnings** menu selection specifies whether you want to receive warnings about license key expirations. Toggle the menu item to enable or disable expiration warnings.

Note:

- It is not recommended that you routinely disable expiration warnings. This should only be done when batch processes might not run properly with license expiration messages popping up.

Modify Suite Map dialog box

If you have license keys installed for both a Rational product and a Rational Suite edition, the licensing software, by default, requests the Rational Suite key first. You can specify that an application request a product license key first by selecting the **Modify Suite Map** menu selection. Doing so displays the **Modify Suite Map** dialog box.

In the Modify Suite Map dialog box, select the product(s) that will try to acquire a product-level license before trying to acquire a suite-level license upon startup.

To revert to the default settings for a product, clear the check boxes for all selections.

Select **Normal** to specify that a normal server setup will be used (the default) or select **Proxy** to specify that a proxy server setup will be used. (Proxy means that, if this system is connected to the Internet, you can request license keys for a system that is not connected to the Internet.) These options can be used when your system is configured either as a client or a server.

Select **Redundant Servers** to specify that a normal redundant server setup will be used or select **Redundant Servers—Proxy** to specify that a proxy redundant server setup will be used. (Proxy means that, if this system is connected to the Internet, you can request license keys for a system that is not connected to the Internet.) These options can be used only when your system is configured as a server.

Use **Local Host Name** and **Local Host ID** to enter the host name and ID of the local system on which the license key is installed. These fields are active only when you are running in proxy mode.

Use **Target Host Name** and **Target Host ID** to enter the host name and ID of the remote system on which the license key is installed. These fields are active only when you are using redundant servers.

Glossary

[ANY-HOST](#)

[Evaluation Key](#)

[Floating License](#)

[GLOBEtrouter FLEXlm Server](#)

[License](#)

[License Key](#)

[License Key Administrator](#)

[License Key Code](#)

[License Type](#)

[Node-Locked License](#)

[Permanent License Key](#)

[Temporary Key Code](#)

[Temporary License Key](#)

[Temporary License Key Certificate](#)

[Term License Agreements \(TLAs\)](#)

A license key issued for ANY HOST will run on any system, and is not tied to the customer's system ID.

A temporary key that lets a customer use and evaluate Rational software for a fixed period of time. The product Business Unit determines the duration of the Evaluation Key. Evaluation Keys can be node-locked or floating. Evaluation Keys are coordinated through the Rational Sales team and will run on any host.

A license type that requires a license server. The license server manages a pool of floating license keys. Rational client applications contact the license server when the software is executed. Multiple clients can share the pool of floating licenses; one license is granted per client per product.

Software license manager for Windows, NT, UNIX, Java, and VMS. Detailed information on GLOBEtrouter and FLEXlm can be found at <http://www.globetrotter.com>

A legal right to use a product. A customer receives a license when they purchase the product. However, they need a license key to use a Rational product.

Generic term used in this document to describe keys that enable licenses on a customer system. The types of License Keys are floating and node-locked.

A program written by Rational Software, which provides a customer interface to Rational's Licensing system. Starting with the release of Rational Suite 1.0 and associated point products, the License Key Administrator is installed whenever a Rational software product is installed on a Windows system. For hosting floating licenses, the License Key Administrator is installed when the FLEXlm server is installed on a License Server system.

An encrypted code used to enforce a license agreement.

The valid types of licenses are temporary, permanent, evaluation, and Term License Agreement (TLA) licenses.

A type of license key that is specific to a particular system. A node-locked license key allows the software to be used only on the host for which it is licensed.

A license issued to a customer for running Rational products. Permanent licenses are specific to a product and system. Permanent keys no not expiration dates and allows the customer to use the software indefinitely. Permanent keys can be node-locked or floating.

A short-term license key that enables a customer run Rational software products without registering a host. Temporary License Keys can be node-locked or floating and can be used on any system for 60 days. Node-locked temporary keys are installed on a client system. Floating temporary keys are installed on a license server.

The FLEXIm encrypted code that temporarily lets a customer run a particular Rational product using a temporary key.

A piece of paper or electronic file that contains information a customer needs to install a temporary key. The temporary key allows the customer to begin using Rational software. The Temporary License Key Certificate is shipped to the customer with the software installation media.

Variations of a Permanent Key. TLAs are issued to a site to let their employees use Rational software for a negotiated period of time. TLAs are issued by Rational Sales and have an expiration date.

About Rational Software Licensing

[Related Topics](#)

Rational Software offers two types of licenses: [node-locked](#) and [floating](#). The product you purchased includes a node-locked or a floating license.

Typically, you install a [temporary license key](#) to start using the purchased product. You then request and install a [permanent license key](#) or, if you purchased a Term License Agreement (TLA), a [TLA license key](#), to ensure continued use of the product. The temporary license key and other licensing information are available from the [Temporary License Key Certificate](#) included in the product packaging.

Rational Software makes it easy to work with licenses by providing the [Rational License Key Administrator](#) for installing and requesting license keys and, for system administrators who manage floating licenses, [GLOBEtrouter FLEXlm License Manager](#) for configuring license servers.

To get started:

- For node-locked licenses, click  for the steps you follow to install your temporary license key. To learn more about node-locked licenses, click 

- For floating licenses, if you're a system administrator click  for the steps you follow to install your temporary license key. If you are a user of a floating license, click 

 for the steps you follow to specify the license server system where your system administrator installed the temporary license key. To learn more about floating licenses, click 

Important:

- The Rational Solutions for Windows install disk includes many Rational Software products. However, you can use the temporary license key available from the Temporary License Key Certificate to run only the product you purchased. If you want to install and evaluate other Rational Software products that are available on the install disk but that you have not purchased, please contact Rational Software. For more information, click [here](#).



How floating licenses work

Related Topics

A floating license lets a specific number of users concurrently run a Rational Software product on their systems. Typically, a system administrator installs a floating license on a license server system. The system administrator uses the [Rational License Key Administrator](#) to install a license key and to specify the number of users, and [GLOBEtrotter FLEXIm License Manager](#) to configure and start the license server.

The users of a floating license use the Rational License Key Administrator to specify the name of the license server system where the system administrator installed the floating license. This lets them run the purchased Rational Software product on their systems.

To work with a floating license if you are a system administrator:

1. Install the GLOBEtrotter FLEXIm License Manager (available on the Rational Solutions for Windows install disk) on the license server system. The Rational License Key Administrator is installed automatically.
2. Install the [temporary license key](#) to enable users to run the product. The license key and other information are available from the [Temporary License Key Certificate](#). Remember to tell your users the hostname (displayed in the Proxy Settings dialog box of the Rational License Key Administrator) of the license server system. For more information about installing the temporary license key, click .
3. Configure and start the license server. For more information, click .
4. Request a [permanent license key](#). For more information, click .
5. Install a permanent license key or a [TLA license key](#). For more information, click .

To work with a floating license if you are a user:

1. Install the purchased Rational Software product on your system. The Rational License Key Administrator is installed automatically.
2. Use the Rational License Key Administrator to specify the hostname of the license server system where your system administrator installed the floating license. For more information, click .
3. Run the product.

Notes:

- System administrators can request a permanent license key without first installing a temporary key. However, users cannot use the product until a license key is installed. To use the product immediately, install the temporary license key and then request the permanent license key.
- The FLEXIm License Manager compares the current time on the license server system with the current system time of each floating license user. If the two times differ by more than 24 hours, the license key will not work and the user will be unable to run the purchased Rational Software product.
- For more information about FLEXIm licensing, click <http://www.globetrotter.com>.
- The GLOBEtrotter licensing tool, Lmtools, is installed at the same time as the FLEXIm License Manager. Lmtools provides diagnostic and other information for managing floating licenses. For detailed information about using Lmtools, click <http://www.globetrotter.com/manual.htm> and read section 6.13.



Installing a temporary floating license key

Related Topics

Typically, a system administrator installs the [temporary license key](#) for a [floating license](#) on a license server system, using the [Rational License Key Administrator](#).

You must have your Temporary License Key Certificate before you install your temporary license keys.

To install a temporary floating license key:

1. Select **Globetrotter FLEXIm License Server > License Key Administrator** from the **Start > Programs** menu.
2. Select either the **Enter** button or **License > Enter a License**.
3. On the [License Key Certificate Wizard](#) dialog box, select **Temporary License Key**.
4. In the second wizard screen, select **Floating License Key**.
5. In the next wizard screen, provide the requested information (the product, expiration date, license key, and quantity are available from the [Temporary License Key Certificate](#)) and then click Finish. The Rational License Key Administrator displays the temporary license key and creates the license file Rational_server_temp.dat, located by default in \Program Files\Rational\Common.

After you install the temporary license key, you must configure and start the license server using the [GLOBEtrotter FLEXIm License Manager](#) on the license server system. For more information, click .

Before your users can run the purchased product, they must use the Rational License Key Administrator to specify the hostname of the license server system where you installed the temporary license key. For more information about what users must do, click . You can copy the text from that topic and email it to your users with the name of the license server system, so they will know what they need to do before they can use the product.

Notes:

- To ensure uninterrupted use of the product, request a [permanent license key](#) as soon as you have installed the temporary license key. For more information, click .
- The FLEXIm License Manager compares the current time on the license server system with the current system time of each floating license user. If the two times differ by more than 24 hours, the license key will not work and the user will be unable to run the purchased Rational Software product.



Specifying the license server

Related Topics

1. If you are one of multiple users of a [floating license](#), you must use the [Rational License Key Administrator](#) to specify the hostname of the license server system where your system administrator installed the floating license key. You must do this before you can run the product on your system.
2. Contact your system administrator for the hostname of the license server system.
3. Select **Rational *Productname* > Rational License Key Administrator** from the **Start > Programs** menu.
4. Select either the **Server** button or **Settings > Service Configuration**.
5. On the [Service Configuration](#) dialog box, select **Use Single Server** and then specify the hostname of the license server system.
6. Click **OK**. The Rational License Key Administrator creates the file **Rational_redirect.dat**, located by default in **Program Files\Rational\Common**, that contains the name of the license server system.

Note:

- The FLEXlm License Manager compares the current time on the license server system with the current system time of each floating license user. If the two times differ by more than 24 hours, the license key will not work and the user will be unable to run the purchased Rational Software product.



Requesting a permanent floating license key

Related Topics

1. Select **Globetrotter FLEXIm License Server > License Key Administrator** from the **Start > Programs** menu.
2. Select either the **Edit Account Information** button or **Edit > Account Information** to display the [Company Account Information](#) dialog box and enter information in the **Company Name** and **Rational Account Number (Primary)** fields. The primary account number is available from the [Temporary License Key Certificate](#).
3. Select either the **Edit Contact Information** button or **Edit > User Contact Information** to display the [Modify User Contact Information](#) dialog box and enter information in the following fields: **First Name, Last Name, Title, Company Name, Country, Phone, EMail Address or Fax, Postal Address, City, State/Province**, and **ZIP/Postal Code**. (**State/Province** and **ZIP/Postal Code** are not required outside of the USA.)

If you want to electronically request a [permanent license key](#), you must provide an email address.

4. Select either the **Request** button or **License > Request Permanent License Key(s)**.
5. In the [Request Permanent License Keys](#) dialog box, select an option.

Select this option	To request
Permanent version of ALL Temporary License Keys	Permanent license keys for all entries listed.
Permanent version of SELECTED Temporary License Keys	Permanent license keys for entries currently selected.
Select from list	A permanent license key for a Rational product. Use this option if you have not previously installed temporary license keys.

- Choosing the **Select from list** option activates the **Node-locked** and **Floating** options and the product drop-down list box. Select **Floating** and specify the product.
 - If you are requesting floating license keys, the Rational License Administrator activates the **User Count** text box. Enter the license key count.
6. To send your license key request to Rational electronically, select **Send all requests to Rational immediately**. The Rational License Key Administrator sends all pending requests.
To fax or phone your license key request to Rational, deselect **Send all requests to Rational immediately**. Select **License > Print Pending Request(s)** and then either fax the printed request to Rational Software, or phone Rational Software and provide the information contained in the printed request.
 7. Click **OK**. The Rational License Key Administrator updates the main screen to indicate pending requests for permanent license keys and creates a license request file, **rational_request.dat** and **rational_request.dat.txt**, located by default in **\Program Files\Rational\Common**.

Notes:

- You can request license keys only for products that you have purchased.
- To delete pending requests, either select the **Delete** button, select **License > Delete Request(s)**, or right-click one or more pending requests and select **Delete requests** from the shortcut menu. Then select the appropriate option in the [Delete License Key Requests](#) dialog box. You cannot delete requests that you have already sent to Rational Software.
- You can also change the number of users that use a floating license. For more information, click 



Installing a permanent or TLA floating license key

Related Topics

Typically, a system administrator installs a [permanent license key](#) or a [TLA license key](#) for a [floating license](#) on a license server system, using the [Rational License Key Administrator](#).

If you received a license key update file (.upd) from Rational Software, you can import the file to automatically install the permanent or TLA license key. Otherwise, you can manually enter the license key using information provided by Rational Software.

To import a license key update file:

1. Select **Globetrotter FLEXlm License Server > License Key Administrator** from the **Start > Programs** menu.
2. Select either the **Import** button or **License > Import License Key(s)**.
3. On the [Import License Keys](#) dialog box, find the .upd file and select **Open**. The Rational License Key Administrator then updates the license key information and copies the .upd file to the license file Rational_server_perm.dat, located by default in **\Program Files\Rational\Common**.
4. Click **OK**.

To enter the license key:

1. Select **Globetrotter FLEXlm License Server > License Key Administrator** from the **Start > Programs** menu.
2. Select either the **Enter** button or **License > Enter a License**.
3. On the [License Key Certificate Wizard](#) dialog box, select **Permanent License Key** or **Term License Agreement (TLA) Key**.
4. On the second wizard screen, select **Floating License Key**.
5. On the next wizard screen, provide the requested information (the product, issued date, license key, quantity, and expiration date for a TLA license key are available from the information you received from Rational Software) and then click **Finish**. The Rational License Key Administrator then updates the license key information and creates the license file **Rational_server_perm.dat**, located by default in **\Program Files\Rational\Common**.

Important:

After you install the permanent or TLA license key, you must use the [GLOBEtrotter FLEXlm License Manager](#) on the license server system to configure the license server to use the license file **Rational_server_perm.dat**. For more information, click 

Notes:

- If your email program supports launching programs from file attachments, you can also import a license key update file by double-clicking the .upd attachment in the email notification you received from Rational Software. Otherwise, save the file attachment to any folder and then double-click the saved .upd file. In the **Import License Key(s)** dialog box, select the .upd file and then click **Open**.
- The license key update file contains the new license key, as well as information for existing licenses already installed on the license server system. When you import the license key update file, Rational License Key Administrator automatically replaces the existing license file with the update file.
- The GLOBEtrotter FLEXlm License Manager compares the current time on the license server system with the current system time of each floating license user. If the two times differ by more than 24 hours, the license key will not work and the user will be unable to run the purchased Rational Software product.



Configuring and starting the license server

Related Topics

After you install a floating license key, you must configure and start the license server using the [GLOBEtrouter FLEXlm License Manager](#).

1. Double-click the **FLEXlm License Manager** icon in the Windows Control Panel.
2. In the **Setup** tab, specify the location of the following files (located by default in **\Program Files\Rational\Common**):
 - The license server file, **Lmgrd.exe**
 - The license file (**Rational_server_temp.dat** for [temporary license keys](#), or **Rational_server_perm.dat** for [permanent license keys](#) or [TLA license keys](#))
 - The license debug log file, **Debug.log**
3. To start the license server as a Windows NT system service, select **Use NT Services**. You can also click **Start Server at Power-Up** to automatically start the license server. Otherwise, you must start the server manually (click **Start** in the Control tab and wait 15 to 30 seconds for the server to start) whenever you restart the license server system.
4. Click **OK**.



Requesting to change a floating license key count

[Related Topics](#)

Note the following regarding changing the number of floating licenses available from a license server system:

- You can increase or decrease the floating license key count to balance your licensing loads among different server systems.
- By reducing your floating license key count to zero, you can then uninstall your license server software and install the software on a new system.

If you are moving your license server software to another system, remove the license keys from your first system before removing your licensed software or installing software on your new system.

Select **Globetrotter FLEXlm License Server > License Key Administrator** from the **Start > Programs** menu.

1. On the License Key Administrator's [main screen](#), select the [permanent license key](#) or [TLA license key](#) for which you want to change the number of users.
2. Select either the **Change** button or **License > Change License Key Count**.
3. In the dialog box, select an option:

Select this option	To
Add Additional License Keys	Display the Add Additional License Key(s) dialog box to increase the number of users that can use a floating license
Remove License Keys	Display the Remove License Key(s) dialog box to decrease the number of users that can use a floating license

4. Specify the number of users (key count) you are adding or removing. The Rational License Key Administrator automatically recalculates the total.
5. Click **OK**. The Rational License Key Administrator updates the main screen's display to indicate the pending request.
6. Contact Rational Software with your request:
 - To send your request electronically, select either the **Select** button or **License > Send Pending Request(s)** and then click **OK**. The Rational License Key Administrator sends all pending requests.
 - To fax or phone your request, select either the **Print** button or **License > Print Pending Request(s)** and then either fax the printed request to Rational Software, or phone Rational Software and provide the information contained in the printed request. Information about contacting Rational Software is included in the printed request, or click 

When you receive the license key update file (.upd) from Rational Software, you must import the file to complete changing the number of users. For more information, click 

Notes:

- If you decrease the key count, the difference is credited to your account and you can use the keys again at a later date so other users can run the purchased product.
- To delete pending requests, right-click one or more pending requests and select **Delete requests** from the shortcut menu, and then select the appropriate option in the [Delete License Key Requests](#) dialog box. You cannot delete requests that you have already sent to Rational Software.



How node-locked licenses work

[Related Topics](#)

A node-locked license lets a single user run a Rational Software product on a single system. The user installs a license key on the system, using the [Rational License Key Administrator](#). A node-locked license cannot be installed on a license server system.

To work with a node-locked license:

1. Key Administrator is installed automatically.
2. Install a [temporary license key](#). The license key and other information are available from the [Temporary License Key Certificate](#). For more information, click 
3. Request a [permanent license key](#). For more information, click 
4. Install a permanent license key or a [TLA license key](#). For more information, click 
5. Run the product.

Note:

- You are not required to install a temporary license key; instead, you can directly request a permanent license key. However, you cannot use the product until a license key is installed. To use the product immediately, install the temporary license key and then request the permanent license key.



Installing a temporary node-locked license key

Related Topics

1. Select **Rational *Productname* > License Key Administrator** from the **Start >Programs** menu.
2. Select either the **Enter** button or **License > Enter a License**.
3. On the [License Key Certificate Wizard](#) dialog box, select **Temporary License Key**.
4. On the second wizard screen, select **Node-Locked License Key**.
5. On the next wizard screen, provide the requested information (the product, expiration date, and license key are available from the [Temporary License Key Certificate](#)) and then click **Finish**. The Rational License Key Administrator displays the temporary license key and creates the license file **Rational_server_temp.dat**, located by default in **Program Files\Rational\Common**.

Note:

- To ensure uninterrupted use of the product, request a [permanent license key](#) as soon as you install the temporary license key. For more information, click



Requesting a permanent node-locked license key

Related Topics

1. Select **Rational Productname > License Key Administrator** from the **Start** menu.
2. Select either the **Edit Account Information** button or **Edit > Account Information** to display the [Company Account Information](#) dialog box and enter information in the **Company Name** and **Rational Account Number (Primary)** fields. The primary account number is available from the [Temporary License Key Certificate](#).
3. Select either the **Edit Account Information** button or **Edit > User Contact Information** to display the [Modify User Contact Information](#) dialog box and enter information in the following fields: **First Name, Last Name, Title, Company Name, Country, Phone, EMail Address** or **Fax, Postal Address, City, State/Province, and ZIP/Postal Code**. (**State/Province** and **ZIP/Postal Code** are not required outside of the USA.)
4. If you want to electronically request a [permanent license key](#), you must provide an email address.
5. Select either the **Request** button or **License > Request Permanent License Key(s)**.
6. In the [Request Permanent License Keys](#) dialog box, select an option.

Select this option	To request
Permanent version of ALL Temporary License Keys	Permanent license keys for all entries listed.
Permanent version of SELECTED Temporary License Keys	Permanent license keys for entries currently selected.
Select from list	A permanent license key for a Rational product. Use this option if you have not previously installed temporary license keys.

7. Choosing the **Select from list** option activates the **Node-locked** and **Floating** options and the product drop-down list box. Select **Node-locked** and specify the product.
 - To send your license key request to Rational electronically, select **Send all requests to Rational immediately**. The Rational License Key Administrator sends all pending requests.
 - To fax or phone your license key request to Rational, deselect **Send all requests to Rational immediately**. Select **License > Print Pending Request(s)** and then either fax the printed request to Rational Software, or phone Rational Software and provide the information contained in the printed request.
8. Click **OK**. The Rational License Key Administrator updates the main screen to indicate pending requests for permanent license keys and creates a license request file, **rational_request.dat** and **rational_request.dat.txt**, located by default in **\Program Files\Rational\Common**.

Notes:

- You can request license keys only for products that you have purchased.
- To delete pending requests, either select the **Delete** button, select **License > Delete Request(s)**, or right-click one or more pending requests and select **Delete requests** from the shortcut menu. Then select the appropriate option in the [Delete License Key Requests](#) dialog box. You cannot delete requests that you have already sent to Rational Software.
- You can also remove a node-locked license key. For more information, click



Installing a permanent or TLA node-locked license key

Related Topics

If you received a license key update file (.upd) from Rational Software, you can import the file to automatically install the [permanent license key](#) or [TLA license key](#). Otherwise, you can manually install the license key.

To import a license key update file:

1. Select **Globetrotter FLEXIm License Server > License Key Administrator** from the **Start > Programs** menu.
2. Select either the **Import** button or **License > Import License Key(s)**.
3. On the [Import License Keys](#) dialog box, find the .upd file and select **Open**. The Rational License Key Administrator then updates the license key information and copies the .upd file to the license file **Rational_server_perm.dat**, located by default in **\Program Files\Rational\Common**.
4. Click **OK**.

To enter the license key:

1. Select **Globetrotter FLEXIm License Server > License Key Administrator** from the **Start > Programs** menu.
2. Select either the **Enter** button or **License > Enter a License**.
3. On the [License Key Certificate Wizard](#) dialog box, select **Permanent License Key** or **Term License Agreement (TLA) Key**.
4. On the second wizard screen, select **Node-Locked License Key**.
5. On the next wizard screen, provide the requested information (the product, issue date, license key, and expiration date for a TLA license key are available from the information you received from Rational Software) and then click **Finish**. The Rational License Key Administrator then updates the license key information and creates the license file **Rational_server_perm.dat**, located by default in **\Program Files\Rational\Common**.

Notes:

- If your email program supports launching programs from file attachments, you can also import a license key update file by double-clicking the .upd attachment in the email notification you received from Rational Software. Otherwise, save the file attachment to any folder and then double-click the saved .upd file. In the **Import License Key(s)** dialog box, select the .upd file and then click **Open**.
- The license key update file contains the new license key, as well as information for existing licenses you have already installed. When you import the license key update file, Rational License Key Administrator automatically replaces the existing license file with the update file.



Requesting to remove a permanent or TLA node-locked license key

Related Topics

1. Select **Rational *Productname* > Rational License Key Administrator** from the **Start > Programs** menu.
2. On the License Key Administrator's [main screen](#), select the [permanent license key](#) or [TLA license key](#), which you want to remove.
3. Select either the **Change** button or **License > Change License Key Count**.
4. In the [Change License Key Count](#) dialog box, select Yes . The [Rational License Key Administrator](#) updates the main screen's display to indicate the pending request.
5. Contact Rational Software with your request:
 - To send your request electronically, select either the **Select** button or **License > Send Pending Request(s)** and then click **OK**. The Rational License Key Administrator sends all pending requests.
 - To fax or phone your request, select either the **Print** button or **License > Print Pending Request(s)** and then either fax the printed request to Rational Software, or phone Rational Software and provide the information contained in the printed request. Information about contacting Rational Software is included in the printed request, or click

When you receive the license key update file (.upd) from Rational Software, you must import the file to complete changing the number of users. For more information, click

Notes:

- If you decrease the key count, the difference is credited to your account and you can use the keys again at a later date so other users can run the purchased product.
- To delete pending requests, right-click one or more pending requests and select **Delete requests** from the shortcut menu, and then select the appropriate option in the [Delete License Key Requests](#) dialog box. You cannot delete requests that you have already sent to Rational Software.



Importing a license key update file (.upd)

Related Topics

1. Select **Globetrotter FLEXlm License Server > License Key Administrator** from the **Start > Programs** menu.
2. Select either the **Import** button or **License > Import License Key(s)**.
3. On the [Import License Keys](#) dialog box, find the .upd file and select **Open**. The Rational License Key Administrator then updates the license key information and copies the .upd file to the license file **Rational_server_perm.dat**, located by default in **\Program Files\Rational\Common**.
4. Click **OK**.

Note:

- You can also import a license key update file by selecting **License > Import License Key(s)** in the Rational License Key Administrator. In the Import License Key(s) dialog box, select the .upd file and then click **Open**.



Contacting Rational Software Licensing Support

If you have questions regarding the licensing of your Rational Software products, please contact the appropriate Licensing Support office.

North America and Latin America

phone: (800) 728-1212
fax: (781) 676-2460
email: lic_americas@rational.com

Europe
(includes Israel and Africa)

phone: +31 20 4546 200
fax: +31 20 4546 202
email: lic_europe@rational.com

Japan

phone: +612 9419 0111
fax: +612 9419 0123
email: lic_apac@rational.com

For more information:

- Check the Rational Software Web site for new licensing information and capabilities. Click <http://www.rational.com/>.
- For more information about Rational Solutions for Windows, click <http://www.rational.com/rs>.
- For general technical support information, click <http://www.rational.com/support>.
- For information about Rational Software and other Rational Software products, click <http://www.rational.com/>.



Contacting Rational Software Technical Publications

[Related Topics](#)

If you have comments or suggestions about the Rational Software Licensing online Help, please email your feedback to techpubs@rational.com. Thank you.

For licensing questions or problems, please contact Licensing Support. For more information, click 



How do I work with an evaluation license key?

Related Topics

If you received an evaluation copy of a Rational Software product, you also received an evaluation license key. This license key lets you run the product for a limited time for evaluation purposes.

To work with an evaluation license key, follow the instructions for working with a [temporary license key](#) for a [node-locked license](#).



How do I work with an emergency license key?

[Related Topics](#)

If a license key becomes corrupt or cannot be used, you can contact Rational Software to request an emergency license key. This license key lets you continue using the product until the license key problem is resolved. For more information about contacting Rational Software, click 

To work with an emergency license key, follow the instructions for working with a [temporary license key](#) for a [node-locked](#) or [floating](#) license, depending on the type of license you purchased.



How do I move a license from one system to another?

Related Topics

To move a node-locked license:

1. Use the [Rational License Key Administrator](#) on the current system to remove the [permanent license key](#) or [TLA license key](#). For more information, click . Keep in mind that once you remove the license key, you can no longer use the purchased Rational Software product on that system.
2. Install the product on the new system.
3. Use the Rational License Key Administrator on the new system to request a new license key from Rational Software. For more information, click .
4. When you receive a license key update file (.upd) from Rational Software in response to your request, import the file on the new system to begin using the product. For more information, click .

To move a floating license if you are a system administrator:

1. Use the Rational License Key Administrator on the license server system to change the number of users (key count) to zero (0). For more information, click . Keep in mind that, once you change the number of users to zero, your users can no longer use the purchased Rational Software product.
2. Install the [GLOBEtrotter FLEXlm License Manager](#) on the new license server system.
3. Use the Rational License Key Administrator on the new license server system to request a new license key from Rational Software. For more information, click .
4. When you receive a license key update file (.upd) from Rational Software in response to your request, import the file on the new license server system. For more information, click .
5. Use the [GLOBEtrotter FLEXlm License Manager](#) to configure the license server and tell your users the name of the new license server system where the floating license is installed.

To move a floating license if you are a user:

After your system administrator installs the new license key and configures the new license server, use the Rational License Key Administrator on your system to specify the new license server system.

Note:

- To move a license from one site to another, please contact Rational Software. For more information, click .



How do I request a license key for a system that is not email-enabled?

[Related Topics](#)

Use these steps to request a license for a system that does not have an HTTP connection. See Notes for more information.

1. Start the [Rational License Key Administrator](#) on the system that does not have email.
2. Ensure that all required information is provided in the [Company Account Information](#) and [Modify User Contact Information](#) dialog boxes. If you want to receive the license key on a machine that is email-enabled, provide that email address on the **Contact** dialog box.
3. Select either the **Request** button or **License > Request Permanent License Key(s)** and request a permanent license key. The Rational License Key Administrator creates a license request file **rational_request.dat.txt**, located by default in **\Program Files\Rational\Common**.
4. Contact Rational Software:
 - To email your request, copy **Rational_request.dat** to a system that is email-enabled and email the file to auto-licensing@rational.com.
 - To fax or phone your request, print the request and then either fax the printed request to Rational Software, or phone Rational Software and provide the information contained in the printed request. For information about contacting Rational Software, see the printed request or click .
5. Install the permanent license key:
 - If you received a license key update file (.upd) from Rational Software, copy the file to the system that is not email-enabled and use the Rational License Key Administrator to import the file. For more information about importing license keys, click .
 - Otherwise, use the Rational License Key Administrator on the system that is not email-enabled to manually enter the permanent license key. For more information about entering license keys, click .

Notes:

- The Rational License Key Administrator uses the HTTP protocol to send license key requests. As a result, if your system is connected to the Internet and supports HTTP connections (if you can use a Web browser to view external Internet sites), you can submit license key requests. License keys will be returned to the email address you specified on the **Contact** dialog box.



How do I remove a license key?

You can remove [permanent license keys](#) and [TLA license keys](#) using the [Rational License Key Administrator](#).

Use these steps to remove a license key from one system before moving your licensed software to another system.

- For [node-locked licenses](#), you simply remove the license key. For more information, click 
- For [floating licenses](#), the system administrator changes the number of users using the license key (key count) to zero (0).

For more information, click 

When you remove a node-locked license key or decrease the key count of a floating license key, the change is credited to your account so that you can use the license key or the key count in the future.



Why doesn't the Rational Software product I installed work?

[Related Topics](#)

The Rational Solutions for Windows install disk includes many Rational Software products. However, you can use the [temporary license key](#) you received to run only the product you purchased. Ensure that you installed the product you purchased and that you have installed the license key for that product.

If you want to install and evaluate other Rational Software products that are available on the Rational Solutions for Windows install disk but that you have not purchased, please contact Rational Software. For more information, click 



Contacting Rational Software Support

Contact Rational Customer Support if you have questions regarding the installation, use, or maintenance of this Rational Software product.

Review the Technical Notes available on the Rational Technical Support Web site for information about diagnosing and correcting common problems: <http://www.rational.com/sitewide/support/technotes/suites.jtmp>.

The following table provides Rational License Support contact information. If you have questions about acquiring license keys for your Rational Software products, contact [Rational License Support](#). See the online help in the Rational License Key Administrator for additional licensing support information.

Rational Support Resource	Contact Information	Notes
U.S. and Canada	800-433-5444 781-676-2450 support@rational.com	Specify "Rational Suite" in the subject line of the e-mail message. For existing issues, put the case ID of the issue in the subject line as well.
Europe	+31 (0)20 4546 200	support@europe.rational.com
Asia Pacific	+61 2 9419 0111 +61 2 9419 0123 (Fax)	support@apac.rational.com (English only) support@japan.rational.com (Japanese)
World Wide Web	http://www.rational.com	Use the Feedback link to go to the feedback page.



How do I move licensed software to another system?

[Related Topics](#)

Use the following steps to move your licensed Rational software product from one system to another:

To move software and licenses from one client system to another

1. Remove the software license keys for the software you are moving. For example, if you are moving Rational Suite AnalystStudio, remove the license keys for this product. For more information about removing license keys, click here. 
2. Use **Add/Remove Programs** on the Windows Control Panel to remove your Rational software product.
3. Install your Rational software product on your new system.
4. [Request and install](#) your new permanent node-locked licenses on your client system.

To move software and licenses from one server system to another

If you are moving your FLEXlm License server software to another server system:

1. Reduce the license key count to zero. For more information about removing license keys, click here. 
2. Use **Add/Remove Programs** on the Windows Control Panel to remove your FLEXlm License Server software.
3. Install the FLEXlm License Server software on your new system.
4. [Request and install](#) your new permanent floating licenses on your server system.

'Invalid Host' Message when I start a program

[Related Topics](#)

You received the following message when you started a licensed program:

Failed to check out a <product-name> key:

```
Invalid host
```

```
The hostid of this system does not match the hostid specified in the license file
```

1. You may have copied or moved your Rational software from one system to another without removing your licenses from the first system.
2. You may have copied your license key file to an incorrect system.
3. Confirm that you have the proper license key for your system. If the host name specified in the [rational_perm.dat](#) file differs from the name of the system where you are running your Rational software, your license key file may not be set up properly.

Click [here](#) to review the steps for moving license keys.

Using redundant license servers (hosts)

[Click here](#) to read more about redundant server set up.

You can configure your licensing environment to use multiple license servers to ensure that license keys are more reliably available to your users. A redundant license server environment is typically configured with three license server systems. Your license server systems should be on the same subnet.

Servers should be configured with the following facts in mind:

- The **Primary**, or **master**, server is where clients obtain their licensing keys.
- The **Secondary** server becomes the master server if the Primary server goes down.
- The **Backup** server is **never** the master server. It is there strictly to establish the quorum, which states that two of three redundant server systems must be running for licenses to be served.

The servers always appear in this same order in the license file. For example:

```
SERVER server1 host_id [port #]
```

```
SERVER server2 host_id [port #]
```

```
SERVER server3 host_id [port #]
```

On the [Proxy Settings dialog box](#):

- The Local Host Name and ID in **row A** always indicate the Primary license server.
- The Target Host Name and ID in **row B** always indicate the Secondary license server.
- The Target Host Name and ID in **row C** always indicate the Backup license server.

A Primary server is **never** in Proxy mode; it is the machine from which the license keys are served.

A Proxy mode system must be configured identically to the system for which it is seeking license keys.



Configuring redundant license servers

[Read me first](#) to find out more about using redundant license servers.

[Read me next](#) to read more about redundant server set up.

The following steps describe how to set up a redundant license server environment. Before you can configure redundant license servers, you must install the [GLOBEtrouter FLEXlm License Manager](#) software on three systems.

In order to complete the following steps, you need the host name and host ID for each of your license server systems.

1. Start the [License Key Administrator](#) on one of your license server systems.
2. Select either the Proxy button or Settings > Proxy Configuration.
3. On the [Proxy Settings](#) dialog box, select the **Redundant Servers** button.
4. In the B row, specify the name and ID for the Secondary server (host) in the **Target Host Name** and **Target Host ID** fields.
5. In the C row, specify the name and ID for the Backup server (host) in the **Target Host Name** and **Target Host ID** fields.
6. Click **OK** to save your settings.



Requesting license keys via proxy

You can request permanent floating license keys from Rational for systems that do not have an Internet connection. You use a proxy system that has an Internet connection to make license key requests on behalf of other license server systems. You can request either normal or redundant license keys via proxy.

To use a proxy system to request your license keys, you must complete the following steps:

1. Install the [GLOBEtrotter FLEXlm License Manager](#) software on a system that is connected to the Internet.
2. Install the [GLOBEtrotter FLEXlm License Manager](#) software on the systems for which you requesting license keys.
3. Obtain the host name and host ID information for the license server system for which you are requesting license keys. Click [here](#) learn how to do this.
4. Use the proxy system to request license keys for a [single system](#) or [for multiple systems](#).



Obtaining the host name and host ID for a license server system

Use these steps to obtain the host name and host ID information for your license server system:

1. Install the [GLOBEtrotter FLEXlm License Manager](#) software on your license server system.
2. Start the License Tools program by selecting Start > Globetrotter FLEXlm License Server > License Tools.
3. Click on the **Hostid** button in the **Lmtools** window. The program displays six lines of information.
 - The first line **HOSTNAME=[hostname]** contains the host name of your system. When entering it into the License Key Administrator on the proxy system, enter only the name following the equal sign.
 - The host ID is the last line of data, which contains the string **DISK_SERIAL_NUM**. When entering the host ID into the License Key Administrator on the proxy system, enter the hexadecimal number after the words **DISK_SERIAL_NUM=**.



Requesting license keys for a single license server via proxy

The following steps describe how to request license server for a system that is not connected to the Internet.

In order to complete the following steps, you must install the [GLOBEtrouter FLEXlm License Manager](#) software on two systems – the system connected to the Internet, from which you will request license keys, and the system for which you are requesting license keys. In addition, you need the host name and host ID for the license server system for which you are requesting license keys.

1. Start the License Key Administrator on your proxy system.
 - In Client mode you would request a [node-locked license](#).
 - In Server mode you would request a [floating license](#) for another machine.
2. Select either the **Proxy** button or **Settings > Proxy Configuration**.
3. On the [Proxy Settings](#) dialog box, select the **Proxy** button.
4. Specify the host name and host ID for the license server system for which you are requesting license keys in the **Local Host Name** and **Local Host ID** fields.
5. Prepare and send your license key requests. Click [here](#) for more information about requesting permanent floating license keys.



Requesting license keys for redundant license servers via proxy

[Read me first](#) to find out more about using redundant license servers.

[Read me next](#) to read more about redundant server set up.

The following steps describe how to request a redundant license key for systems that are not connected to the Internet.

In order to complete the following steps, you need to install the [GLOBEtrouter FLEXlm License Manager](#) software on four systems – the system connected to the Internet and from which you will make your license key requests and the other three systems for which you are requesting keys.

In addition, you need the host name and host ID for three license server systems – the information for the systems that are not connected to the Internet.

1. Start the License Key Administrator on your license server system.
2. Select either the **Proxy** button or **Settings > Proxy Configuration**.
3. In the upper left column of the pane, click the **Redundant Servers-Proxy** button.
4. In the A row, specify the name and ID for the Primary server (host) in the **Local Host Name** and **Local Host ID** fields.
5. In the B row, specify the name and ID for the Secondary server (host) in the **Target Host Name** and **Target Host ID** fields.
6. In the C row, specify the name and ID for the Backup server (host) in the **Target Host Name** and **Target Host ID** fields.
7. Prepare and send your license key requests. Click [here](#) for more information about requesting permanent floating license keys.



Setting up redundant servers

You must use three different servers. Each server must have a license file containing three SERVER lines in the same order, that is, Primary, Secondary, and Backup. The servers always appear in this same order in the license file in the format:

```
SERVER server1 host_id [port #] (Primary)  
SERVER server2 host_id [port #] (Secondary)  
SERVER server3 host_id [port #] (Backup)
```

While the port number is marked as optional, it is strongly recommended that you specify it as follows:

- All three servers must operate on the same TCP/IP port.
- Other processes cannot share this port. If there are any other processes running on the particular network port, the three redundant servers will not be able to communicate with each other.

You specify the port numbers on the servers by editing the license file (usually named **Rational_server_temp.dat** or **Rational_server_perm.dat**, depending on whether you are using a temporary or permanent license).

1. Open the license file in Notepad. The names and locations of your license files, both temporary and permanent, are found on the Service Configuration dialog box.
2. Find the lines that begin with SERVER. For example:
SERVER snelson_nt DISK_SERIAL_NUM=54938590
SERVER wsmith_nt DISK_SERIAL_NUM=54938546
SERVER rjones_nt DISK_SERIAL_NUM=54938228
3. At the end of each line, insert a space, then enter a port number that is not used by any other process, but make sure that the port number is the same for all three servers. You can use any unused port number between 0 and 64000. The added port numbers are bolded in the following example:
SERVER snelson_nt DISK_SERIAL_NUM=54938590 **27005**
SERVER wsmith_nt DISK_SERIAL_NUM=54938546 **27005**
SERVER rjones_nt DISK_SERIAL_NUM=54938228 **27005**
4. Save the file and close it.

On the Client side, you must now enter the port number in the Rational License Key Administrator.

5. On the Service Configuration dialog box, select **Use redundant servers**, then click **Set Up Servers**. Enter the port number in the Port (Optional) field on the Set up Redundant Servers dialog box and click **OK**.

This Client information is stored in the **Rational_redirect.dat** file listing the three machines in the exact order in which they are listed in the license file. This file must exist for the Client to access a license from the redundant servers.

Point to a FLEXlm License Server to get my licenses

Selecting this option on the **License Key Administrator Wizard's** first dialog box displays the **Server Type** dialog box.

- Choosing the option **The licenses are stored on a single server license** displays the Server Name(s) and Port dialog box with the **Server Name** and **Port ID** fields activated. Enter the server name and the port number, if desired.
- Choosing the option **The licenses are stored on a redundant server** displays the Server Name(s) and Port dialog box with the **Server Name**, **Port**, **Secondary Server Name**, and **Backup Server Name** fields activated. Enter the primary server name, secondary server name, backup server name, and the port number, if desired.

Selecting **Finish** at the end of the succession of dialog boxes in the Wizard completes your task. You will be pointed to a server to get your licenses.

Enter the data from a Rational Software License Certificate to install that license on this machine

1. Selecting this option on the License Key Administrator Wizard's first dialog box displays the Please select the license key you are entering dialog box.
2. Selecting any of the three options on this dialog box (**Temporary**, **Permanent**, or **Term License Agreement**) displays the Please select the license key type you are installing dialog box.
3. Selecting either the **Node-Locked** or **Floating** option on this dialog box displays the License Key Information dialog box.
4. In the License Key Information dialog box, choose the **Product** and **Version** you are licensing and enter:
 - The **License Key**
 - The **Issued Date** (if you are installing either a Term License Agreement or Permanent key)
 - The **Expiration Date** (if you are installing a Temporary or Term License Agreement license key)
 - The **number of key Units** you want (if you are installing a floating license)
5. Selecting **Finish** at the end of the succession of dialog boxes in the Wizard completes your task.

Request a license from Rational Software via Internet Connection, E-mail, or FAX

Selecting this option on the **License Key Administrator Wizard's** first dialog box displays the **Company Account Information** dialog box.

1. Enter the **Company Name** and **primary Rational Account Number**, and the **secondary Rational Account Number** if you have been instructed to do so. Click **Next**.
2. Enter user data in the User Contact Information dialog box if it has not already been filled in: **First Name, Last Name, Title** (optional), **Company Name, Country, Phone, EMail Address** or **Fax, Postal Address, City, State/Province**, and **ZIP/Postal Code**. Click **Next**.
3. Enter data as required in the [Request Permanent Keys](#) dialog box:

Select this option	To request
Permanent version of ALL Temporary License Keys	Permanent license keys for all entries listed.
Permanent version of SELECTED Temporary License Keys	Permanent license keys for entries currently selected.
Select from list	A permanent license key for a Rational product. Use this option if you have not previously installed temporary license keys.

- Choosing the **Select from list** option activates the **Node-locked** and **Floating** options and the product drop-down list box. Select either Node-locked or Floating and specify the product.
 - If you are requesting permanent license keys for all or selected temporary license keys, the Rational License Administrator activates the **User Count** text box. Enter the permanent license key count.
4. Selecting **Finish** at the end of the succession of dialog boxes in the Wizard completes your task.

Notes:

- You can request license keys only for products that you have purchased.
- To delete pending requests, right-click one or more pending requests and select **License > Delete Request(s)**. Then select the appropriate option in the Delete License Key Requests dialog box. You cannot delete requests that you have already sent to Rational Software.

Import a Rational License File

Selecting this option on the **License Key Administrator Wizard's** first dialog box displays the **Import a License Type** dialog box.

1. Either enter a *.upd or *.txt file name or browse to the file location you want.
2. Selecting **Import** at the end of the succession of dialog boxes in the Wizard completes your task.

The port number that `lmgrd.exe` uses when communicating with `rmath.exe`.

The port number that rational.exe uses when communicating with Imgrd.exe.

