



Tecnomatix License Mechanism

Installation Instructions

for

Version 9 Tecnomatix Applications

using

FLEXnet Licensing™ Version 11.6

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1. System Requirements

Please consult the system requirements document which is part of your program package.

1.1 TCP/IP Protocol

The license mechanism uses the TCP/IP protocol to communicate with Tecnomatix applications. Before installing Tecnomatix applications on your computer, make sure that TCP/IP protocol has been installed and that your computer has a valid TCP/IP address. In the event that no TCP/IP protocol is installed, it is recommended to contact your system administrator.

2. Licensing Tecnomatix Applications Version 9

The license mechanism for version 9 Tecnomatix products is based on the FLEXnet Licensing™ mechanism (previously called FLEXlm™) Version 11.6 by Acreesso Software Inc. If you are already using FLEXnet Licensing for products other than Tecnomatix, you can use existing FLEXnet installations to license Tecnomatix applications as well. For details, contact your local Customer Service Department.

Depending on the Tecnomatix products you purchased, Tecnomatix provides Floating, Named-User or Node-Locked licenses.

2.1 Floating (“Concurrent”) Licenses

Floating licenses are available to any single user on your computer network. Floating licenses are provided by a license server computer on the network. If you purchased a number of Floating licenses, that same number of users may work with the Tecnomatix licenses installed on the license server computer. You may run applications or application servers from any computer in the network, including the license server computer.

The license server application which is installed as a system service on the license server computer allows the configuration of *Tecnomatix License Manager*. This service must be started in order to assign and manage licenses. It uses license files that specify all available licenses. It is not required to run the *Tecnomatix License Manager* on individual client computers that operate Tecnomatix applications.

2.2 Named-User Licenses

A Named-User license is a Floating license dedicated to an individual user. The license server computer on the network provides Named-User licenses. These licenses utilize the login name of the user for the local area network which must be the same name that appears in TECNO.opt file. Refer to [section 6.3](#) for instructions on editing the contents of TECNO.opt.

The license server application which is installed on the license server computer allows the configuration of the *Tecnomatix License Manager*. This service must be started in order to assign and manage licenses. It uses license files that specify all available licenses. It is not required to run the *Tecnomatix License Manager* on individual client computers that operate Tecnomatix applications.

2.3 Node-Locked Licenses

Node-Locked licenses are for use only on local computers that contain Tecnomatix application installations. These licenses do not require the installation of the license server application on the local computer.

The license mechanism uses a license file on the local computer that specifies all available licenses.

When using WIBU dongles, you may move licenses and dongles to a different computer at any time.

2.4 Computer-Dependent/Mobile Licenses

License files use the computer's ID to become activated (the ID of the license server computer for Floating and Named-user licenses, for Node-locked licenses – the ID of the local computer). The ID can be either computer-dependent or the ID of a mobile WIBU dongle. When you request your licenses from your local Customer Service Department, choose one of the following IDs:

- **Ethernet ID (“MAC address”)** – Computer-dependent ID for standard use. Changes only when you replace your network card.
- **WIBU Dongle ID** – WIBU dongles are small plugs which you attach to the USB port on your computer. Using a WIBU dongle enables you to move the dongle and the license files to various machines. This is useful for cases when you replace or reinstall the license server computer, or disconnect it from the network – the portable dongle allows you to make licenses available again quickly and easily.

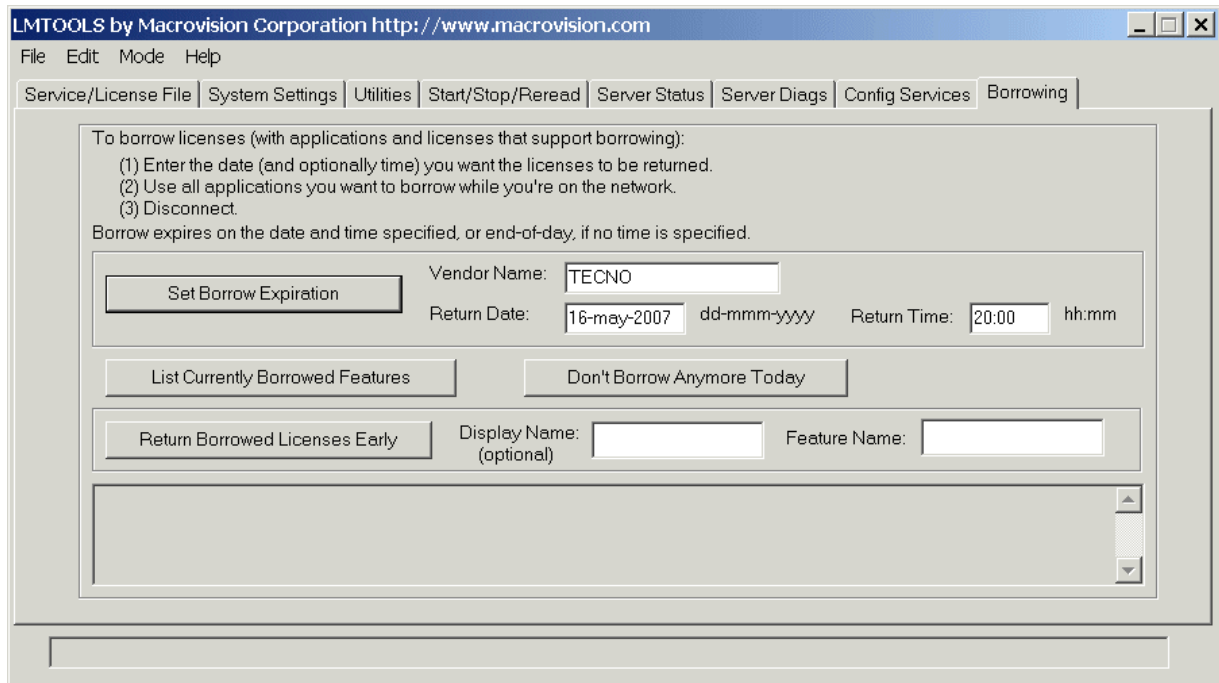
2.5 License Borrowing

License Borrowing allows you to check out a Floating or Named-User license from a central license server to a mobile computer for a specified period of time.

Use the steps below to check out or check in licenses from the server:

1. On the client machine, start the LMTTOOLS utility from the Windows Start menu: Start > Programs > Tecnomatix > License > FLEXlm Tools
2. Select *Configuration Using Services* and select the *Tecnomatix License Manager*
3. On the *Borrowing* tab, enter the *Vendor Name* “TECNO”, specify a return date (and optionally, time) and click *Set Borrow Expiration*.
4. Start all applications for which you wish to borrow licenses (you can close them afterwards)
5. Disconnect from the network. Your machine still holds the licenses that you borrowed.

Tecnomatix License Mechanism Installation Instructions



For more details, consult the Mobile Licensing / License Borrowing chapter in the *FLEXnet End User Manual*, which you can open from the Windows Start menu after installing Tecnomatix software:

Start > Programs > Tecnomatix > License > FLEXIm End User Manual

2.6 Redundant License Servers

If you use Floating or Named-User licenses, you have the option to operate three redundant license servers to significantly increase the stability of licenses and their availability. The redundant servers are three separate computers in the network using the same license file and TECNO.opt files.

Full redundancy is achieved when at least two of the three computers are operating in the network, ensuring that all licenses are available.

Note that License Borrowing is not available for redundant license servers.

3. Receiving Your Licenses from Siemens PLM Software

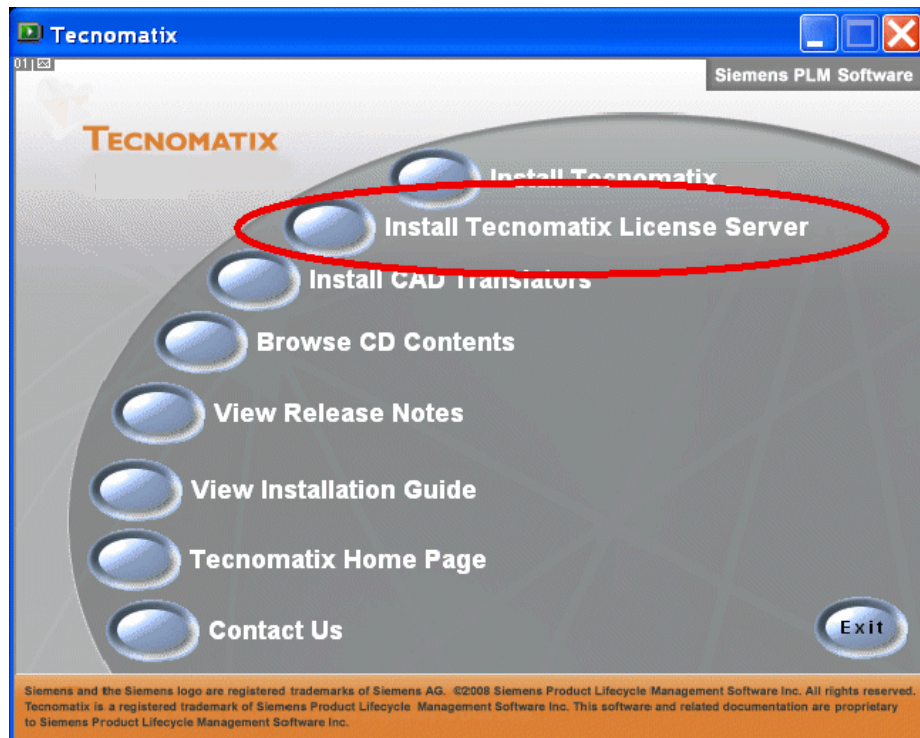
When you install Tecnomatix applications for the first time, proceed as described below.

When you have a valid maintenance contract and a new release of Tecnomatix applications is available, you will receive the software and new license files (if required) automatically.

3.1 Installation of the License-Server Application

Logon to the license server computer for which you wish to receive licenses (administrator privileges required).

- Run the setup program from the DVD
- In the CD Browser, select Install Tecnomatix License Server

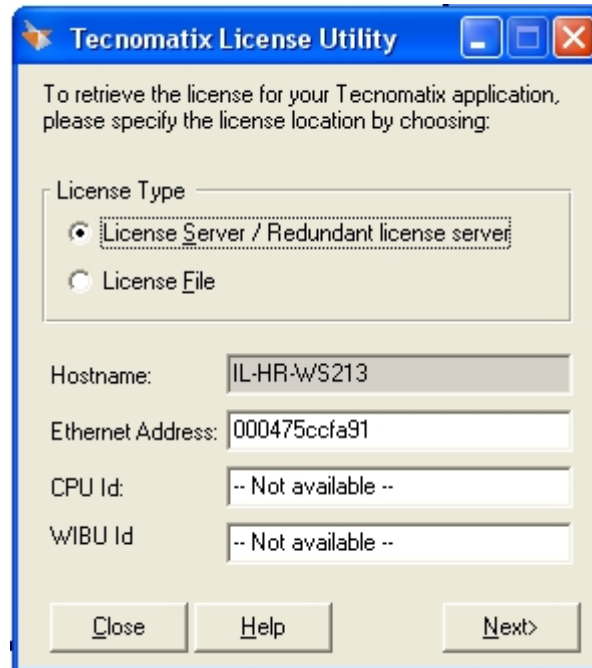


3.2 Obtaining your Machine ID

After installing the license server:

- Select *Start > Program Files > Tecnomatix > License > License Setup* to start the license setup application.

Tecnomatix License Mechanism Installation Instructions



- Copy the computer name from the *Hostname* field and the Ethernet address from the *Ethernet Address* field or the ID of your green WIBU dongle (you can find it printed on the dongle) and paste these in an email requesting the license files for this computer.

3.3 Contacting Your local Customer Service Department

- In addition to your machine ID data, add the following information to your email:

Your Sold-To ID

Names of the Tecnomatix applications in use

Version No.

Number of licenses

License types that you purchased

- Send this email to your local Customer Service Department.

Note: To receive a license for redundant license servers (see [section 2.5 “Redundant License Servers”](#)), include the hostname and Ethernet address/WIBU dongle ID of all three computers in the email.

3.4 Receiving your Licenses

You will receive an email in return with the license files attached. These files include:

- The License file - **TECNOMATIX.lic**
- For User-Named licenses - **TECNO.opt**

If you are working with WIBU dongles, proceed to [Section 4](#). Otherwise proceed to [Section 5, Setting-Up Licenses](#) to continue configuring your licenses.

4. Using WIBU Dongles

In order to use WIBU dongles you need to install the corresponding drivers.

If you have not yet installed WIBU drivers on your computer, install version 5.20 as described below:

- Log on with administrator privileges.
- Double-click WIBU-Drivers 5.20.exe, located in the folder *Add-Ons\Drivers* on the DVD to install version 5.20 of the WIBU drivers.
- Reboot your computer.

If you have already installed a lower version of the WIBU drivers, please upgrade your installation to version 5.20 as described below:

- Log on with administrator privileges.
- Double-click WIBU-Drivers 5.20.exe, located in the folder *Add-Ons\Drivers* on the DVD.
- Reboot your computer.

To install WIBU dongles on your computer, use the following steps:

- Attach the WIBU dongle to the appropriate port on your computer in the direction indicated by the arrow on the dongle:
 - Dongle description WIBU BOX /P or WIBU BOX /RP: parallel port
 - Dongle description WIBU BOX /SP: serial port
 - Dongle description WIBU BOX /M: PCMCIA port
 - Dongle description WIBU BOX /U or WIBU BOX /RU: USB port

If you are using a dongle for the serial port (WIBU BOX /SP) activate the driver configuration for the port, such as COM1, under *Start > Settings > Control Panel > WIBU-KEY* on the *Settings* tab.

5. Setting-Up Licenses

After you have received license files from your local Customer Service Department, you should set up the licenses for the products you purchased. The set-up procedure varies slightly for the different types of licenses: [Floating](#), [Named-User](#) and [Node-Locked](#).

5.1 Floating Licenses

5.1.1 Installation on the License Server Computer

Installation of the Tecnomatix License Manager Application

The Tecnomatix License Manager application must be installed on the license server computer. If it is not installed, please refer to [Section 3.1](#).

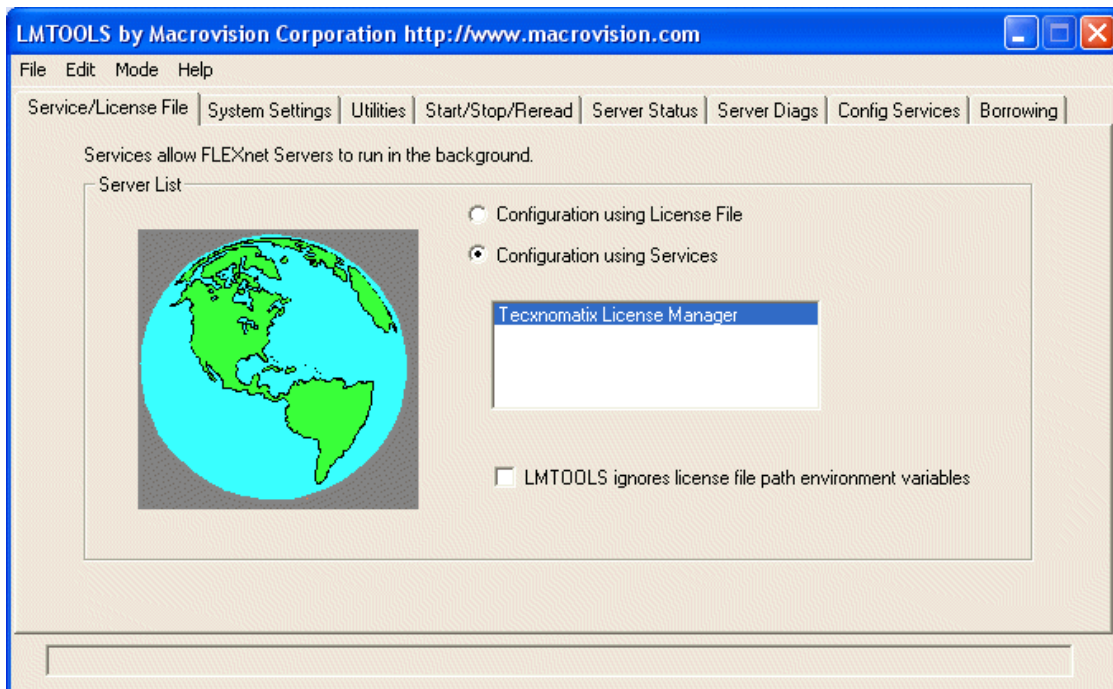
Installation of the License Files

- Copy the license files you received to the Tecnomatix license folder on the license server computer, for example: *C:\Program Files\Tecnomatix\License*.

Configuring and Running the Tecnomatix License Manager Service

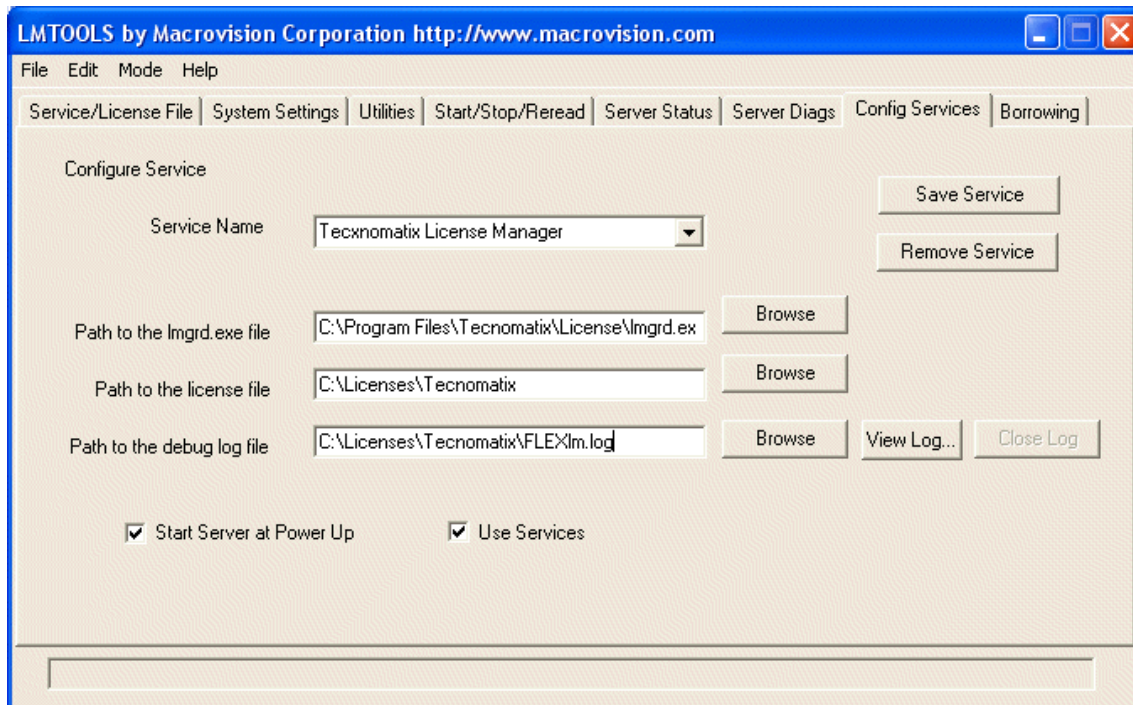
The *Tecnomatix License Manager* must run on the license server computer in order to assign and manage licenses. To configure and run the license service, follow the steps below:

- Select *Start > Programs > Tecnomatix > License > FLEXlm Tools* and select *Configuration using Services*.

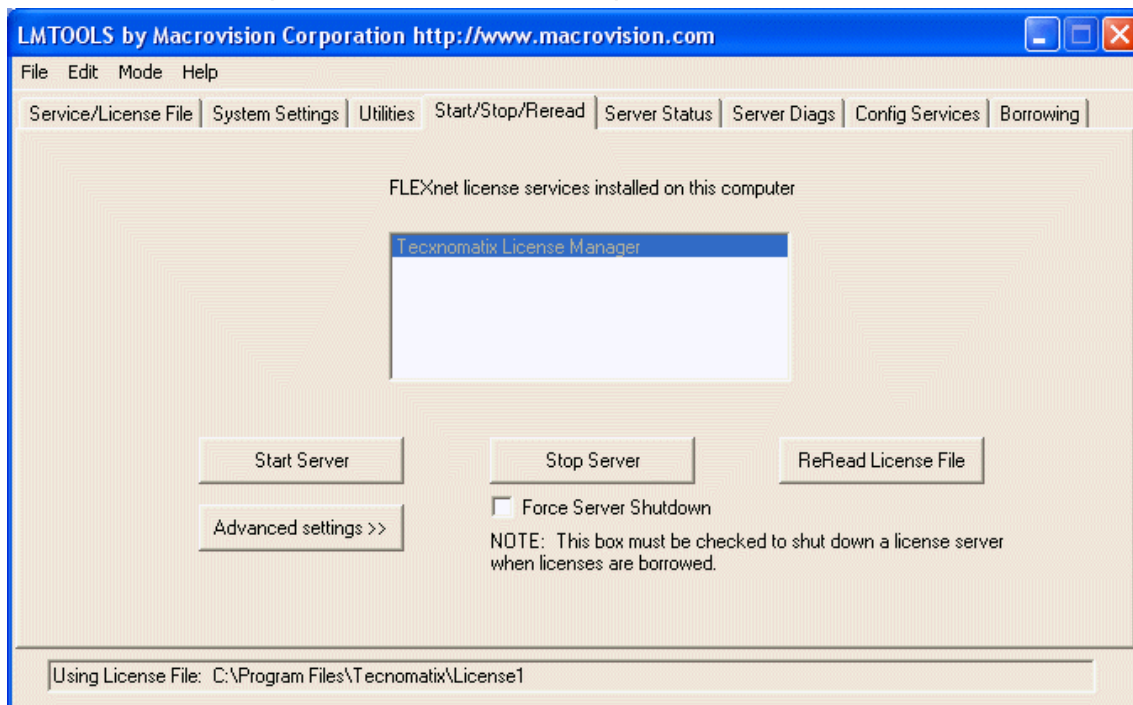


- Click the *Configuration using Services* options and select the *Config Services* tab.

Tecnomatix License Mechanism Installation Instructions



- If the path to the files displayed in the dialog is not correct, use the Browse buttons to navigate to the relevant locations for the lmgrd.exe and TECNOMATIX.lic files.
- Make sure the *Use Services* and *Start Server at Power Up* options are checked.
- If you changed any of the settings, click *Save Service*.
- Select the *Start/Stop/Reread* tab and click *Stop Server* and then *Start Server*.



The *Tecnomatix License Manager* is now running. You can close the *LMTTOOLS* window.

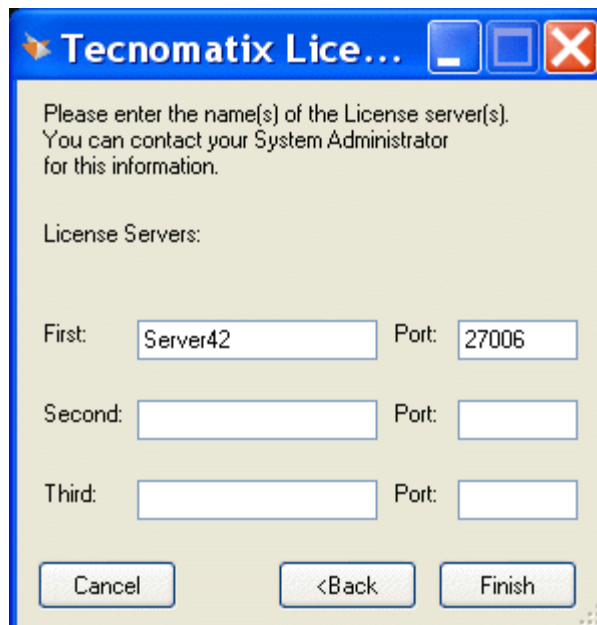
Installation on Redundant License Servers

To use redundant license servers (see [section 2.5 “Redundant License Servers”](#)), install the Tecnomatix License Manager and the license files, as described [above](#), on all three license server computers.

5.1.2 Installation on Client Computers

On client computers, the Tecnomatix License Manager is not required. So, you will proceed as follows:

- Select *Start > Programs > Tecnomatix > License > License Setup* and select the License type *License Server / Redundant License Server*.
- Click *Next* and enter the names of the license server computer(s). By default, the license mechanism uses the port 27006 to communicate with the license server computer. Enter a different port in the field *Port* if required.
- Click *Finish*.



Redundant License Servers

To use redundant license servers (see [section 2.5 “Redundant License Servers”](#)), enter the names of all three license server computers in the License setup application, as described [above](#) and Click Finish.

5.2 Named-User Licenses

Installation on the License Server and Client Computer

The installation procedure for Named-User licenses on both the license server and the client computers is identical to that of the Floating license. Additionally however, on the license server computer, the **TECNO.opt** file has to be placed in the same folder as the **TECNOMATIX.lic** file, for example: **C:\Program Files\Tecnomatix\License**

folder.

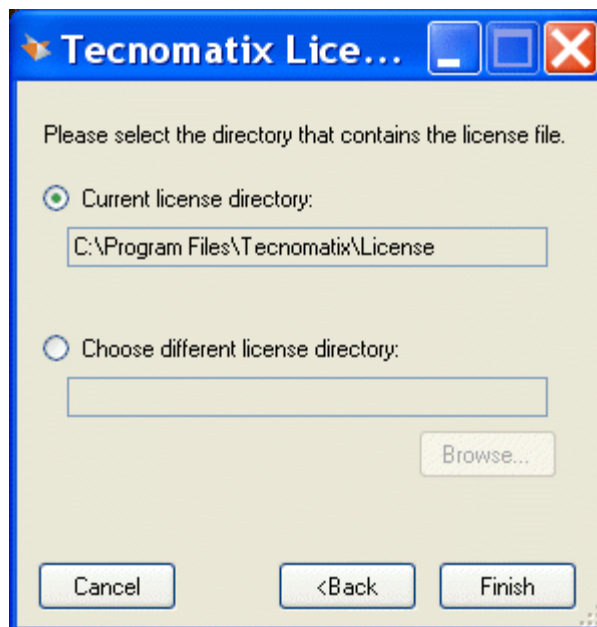
Refer to [Section 6.3](#) to edit the **TECNO.opt** syntax.

Warning!: If you change the contents of the TECNO.opt file, you must stop and re-start the license server. If you only re-read the license file (and TECNO.opt), new licenses/users become unavailable only after 12 hours. We recommend to start/stop the license service when you replace the license file/options file instead of rereading the license file. Starting/stopping the license service can be done during daily work, normally users currently working will not be disturbed.

5.3 Node-Locked Licenses

5.3.1 Installation of the License Files

- Copy the license files you received to the license folder, for example: **C:\Program Files\Tecnomatix\License** on the local computer.
- Select *Start > Programs > Tecnomatix > License > License Setup* and select the License type *License File*.
- Click *Next* and make sure the path to the license file is displayed correctly. Click *Browse* and select the correct path if necessary.
- Click *Finish*.



5.4 Moving WIBU-Dongle and License Files to Another Computer

Use the following steps when you are using a WIBU dongle and wish to move your licenses to a different computer:

- Logon to the new computer with administrator privileges.
- Install the WIBU drivers as described in the [Using WIBU dongles section](#) above.
- Copy the license files to the Tecnomatix license folder, for example: **C:\Program Files\Tecnomatix\License**, and attach the WIBU dongle to the relevant port.

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- Open the license files (with Notepad or similar text editor) and change the computer name in the first line of the License file to "THIS_HOST" if it shows a different name.

Using Floating or Named-User Licenses

- Install the *Tecnomatix License Manager* as described [above](#).
- Select *Start > Programs > Tecnomatix > License > FLEXlm Tools* and select *Configuration using Services*.
- Select the *Start/Stop/Reread* tab and click *Stop Server* and *Start Server*.

Using Node-Locked Licenses

- Select *Start > Programs > Tecnomatix > License > License Setup* and select the License Type *License File*.
- Click *Next* and verify that the path to the license file is displayed correctly. Click *Browse* and select the correct path if necessary.
- Click *Finish*.

6. License File Content, Utilities and Diagnostics

6.1 Utilities and Diagnostics

To check the contents of your license file you can:

- Select *Start > Program Files > Tecnomatix > License > FLEXlm Tools* and select the *Configuration using Services* radio button.
- Use the various available options on the *Server Status* and *Server Diagnostics* tabs to perform diagnostic tasks.
- Open a command prompt window and start the **lmstat.exe -h** program in the same folder that you installed the licenses (by default, *C:\Program Files\Tecnomatix\License*) The program lists the arguments you can use for analyzing your license file.

6.2 The License File

The TECNOMATIX.lic file contains the following lines:

SERVER <Hostname> <Hostid> 27006

VENDOR TECNO

In addition, all license files contain one or more INCREMENT lines:

INCREMENT <product name> TECNO <version> <validity period> <quantity>

SUPERSEDE ISSUED=<date> NOTICE ="" SIGN=<license key> SIGN2=<license key>

If you purchased Node-Locked licenses, your License file contains a HOSTID statement in every INCREMENT line. If the file does not contain a HOSTID statement, your licenses are either Floating licenses or Named-User licenses.

If you are using a License file that does not expire, the <validity period> has the value "permanent". If you are running a trial version, the expiration date has the format <day>-<month - first 3 characters>-<year>, for example 5-jan-2007.

SIGN=<license key> SIGN2=<license key> are the license keys.

6.3 Steps to Setup Named-User Licenses

6.3.1 Create an Options File

To create an options file, create a simple text document on the license server computer in the following folder: *C:\Program Files\Tecnomatix\License* or in the corresponding folder of your installation. Make sure that the filename is **TECNO.opt**.

6.3.2 Identify Applications and Features in the License File

To assign applications and features to users, first identify these applications and features in the license file.

For every product you purchased, there is a line in your license file which starts with the keyword **INCREMENT**. If one of these lines contains the keyword **USER_BASED**, this license is a named-user license. See the following example:

```
INCREMENT CAR_PLANTSIM_RESEARCH TECNO 9.0 permanent 5 USER_BASED \  
    SUPERSEDE DUP_GROUP=UHD user_info="Plant Simulation Research" \  
    ISSUED=17-07-2006 SIGN="01BF ..." SIGN2="02F8 ..."
```

Since every product can consist of several modules each requiring a separate license, we use license packages for Tecnomatix products – one package for every Tecnomatix product.

Therefore, every **INCREMENT** line in the license file contains a **PACKAGE** name which defines the module licenses for each Tecnomatix product.

The name after the keyword **INCREMENT** is the package name for this product (Plant Simulation Research license in the example below). In many cases, the package name starts with a “**CAR_**” prefix for the base application and “**FEA_**” for optional products.

```
INCREMENT CAR_PLANTSIM_RESEARCH TECNO 9.0 permanent 5 USER_BASED \  
    SUPERSEDE DUP_GROUP=UHD user_info="Plant Simulation Research" \  
    ISSUED=17-07-2006 SIGN="01BF ..." SIGN2="02F8 ..."
```

Use this package name to assign users to applications and features in the options file.

The number before the keyword **USER_BASED** specifies the quantity of licenses acquired for this product, which is the number of users you can assign to this product.

```
INCREMENT CAR_PLANTSIM_RESEARCH TECNO 9.0 permanent 5 USER_BASED \  
    SUPERSEDE DUP_GROUP=UHD user_info="Plant Simulation Research" \  
    ISSUED=17-07-2006 SIGN="01BF ..." SIGN2="02F8 ..."
```

Note that licenses are not available to any users until you assign them to the licenses. Therefore we recommend checking at the end of the process whether users were actually assigned to every **INCREMENT** line in the license file.

Consult your local Customer Service Department for help in identifying which products belong to which package names.

6.3.3 Identify User Names

The license mechanism uses the local area network login name to identify the user.

Note that the license mechanism is case sensitive. To reveal the login name relevant to the license mechanism, start the FLEXIm Tools utility from the Windows start menu:

Start > Programs > Tecnomatix > License > FLEXIm Tools

The relevant login name is listed in the “System Settings” tab under “Username”.

6.3.4 Identify Groups of Users

Usually, there are groups of users working with the same applications. Therefore you can define groups in the options file and assign products to those groups.

6.3.5 Options File Syntax

To assign users (using login names) to products (using package names), use the keyword INCLUDE in the options file. The syntax is:

INCLUDE <package name> USER <login name1> <login name2> <login name3> ...

For example (assuming the login names of the users are BobM, VladimirK and ManoharM):

```
INCLUDE CAR_PLANTSIM_RESEARCH USER BobM VladimirK ManoharM
```

If you would like to define groups, use the keyword GROUP followed by a group name of your choice, followed by the login names. The syntax is:

GROUP <group name> <login name1> <login name2> <login name3> ...

For example:

```
GROUP SimulationExperts BobM VladimirK ManoharM
```

Then you can assign products to groups:

```
INCLUDE CAR_PLANTSIM_RESEARCH GROUP SimulationExperts
```

Warning: By default, names of users in the GROUP statement are case sensitive. To treat user names as case insensitive, add the following line to the options file:

```
GROUPCASEINSENSITIVE ON
```

Consult the *FLEXnet End User Manual* document for more details.

6.3.6 Restart License Service

The settings in the options file only take effect after restarting the license service on the license server computer. To restart the license service:

1. Start the FLEXIm Tools utility from the Windows start menu:

Start > Programs > Tecnomatix > License > FLEXIm Tools

2. From the first tab (Service/License File), select Configuration using Services.
3. From the Start/Stop/Reread tab, click Stop Server and Start Server.

6.3.7 Trouble Shooting

If licenses are not available, write out a logfile on the license server computer.

To create a logfile:

1. Create a simple text document on the license server computer in the folder: *C:\Program Files\Tecnomatix\License* or in the corresponding folder of your installation. Make sure that the file extension is ".log".
2. Start the FLEXIm Tools utility from the Windows start menu:
Start > Programs > Tecnomatix > License > FLEXIm Tools
3. From the first tab (Service/License File), select Configuration using Services.
4. From the Config Services tab, enter the path to the logfile under Path to the debug log file.
5. From the Start/Stop/Reread tab, click Stop Server and Start Server.
6. Open the logfile and look for error/warning messages.

For additional information about the FLEXIm license mechanism, consult the FLEXIm End User Manual in:

Start > Programs > Tecnomatix > License > FLEXIm End User Manual

6.4 Options File Example

6.4.1 File Syntax

The TECNO.opt file manages license allocation of named users according to your purchase agreement.

For example, if you purchased the following products:

3 Named-user licenses for:	Process Designer	
2 Named-user licenses for:	Line Balancing	(Optional)

you may have received licenses for the following modules:

3 licenses of	Process Designer	(License ID: CAR_PROCESS_DESIGNER)
2 licenses of	Line Balancing	(License ID: FEA_PD_LINE_BAL)

The above modules allow three users for Process Designer, two of whom can also access Line Balancing.

The bottom of the TECNO.opt file (below the double line in this file) contains the following text for the above combination (without symbols):

```
GROUP CAR_PROCESS_DESIGNER_users    <user1> <user2> <user3>
GROUP FEA_PD_LINE_BAL_users          <user1> <user2>
INCLUDE CAR_PROCESS_DESIGNER          GROUP CAR_PROCESS_DESIGNER_users
INCLUDE FEA_PD_LINE_BAL               GROUP FEA_PD_LINE_BAL_users
```

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Note that <users> of Add-on modules ("FEA_...") are a subset of their own Base modules ("CAR_..."). For example, since the Add-on FEA_PD_LINE_BAL is executed from inside the Base CAR_PROCESS_DESIGNER, we see that <user1> <user2> are common to the first two GROUP statements.

Note that the type and number of your purchased modules determine the exact contents of your TECNOMATIX.lic and TECNO.opt files.

6.4.2 WHAT YOU NEED TO DO!

You should edit the contents at the bottom of TECNO.opt file, replacing "<user1> <user2>", etc. with the login names of the employees who will use the modules. For example, assuming that you have purchased products according to the following plan:

3 Process Designer	for	Rick Ryan	John Dell	Bob Rose
2 Line Balancing	for	Rick Ryan		Bob Rose

you edit the contents at the bottom of TECNO.opt file as follows:

3 CAR_PROCESS_DESIGNER	for	Rick Ryan	John Dell	Bob Rose
2 FEA_PD_LINE_BAL	for	Rick Ryan		Bob Rose

The final syntax of the TECNO.opt file for the example above should appear as follows:

GROUP CAR_PROCESS_DESIGNER_users	rickr johnd bobr
GROUP FEA_PD_LINE_BAL_users	rickr bobr
INCLUDE CAR_PROCESS_DESIGNER	GROUP CAR_PROCESS_DESIGNER_users
INCLUDE FEA_PD_LINE_BAL	GROUP FEA_PD_LINE_BAL_users

Warning!: If you change the contents of the TECNO.opt file, you must stop and re-start the license server. If you only re-read the license file (and TECNO.opt), changes become unavailable only after 12 hours. We recommend to start/stop the license service when you replace the license file/options file instead of rereading the license file. Starting/stopping the license service can be done during daily work, normally users currently working will not be disturbed.