

Floating License

Setup and Management Guide



for the
TNT Products

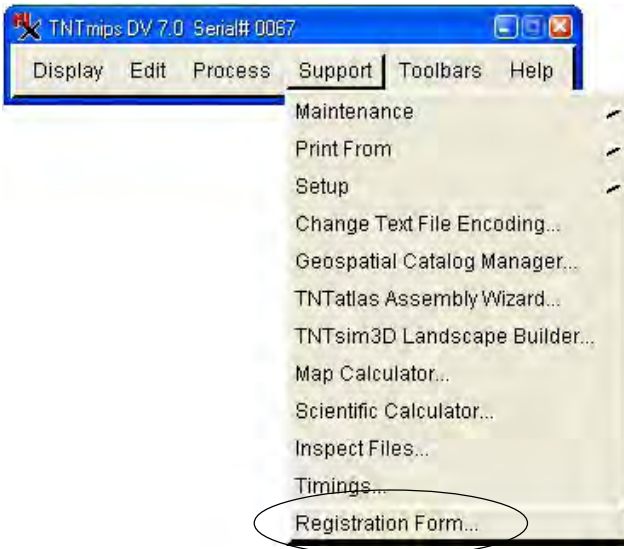
Installation for Enterprise Computing

The TNT products run on Windows, Macintosh and Linux/UNIX computers. This booklet gives you installation and configuration instructions for using the TNT products in a shared network environment with a Floating license.

For information on installing the TNT products with a single-user license, refer to the installation booklet *Installation and Setup Guide*

Product Registration Form

Please take a few moments to fill out the Product Registration Form located in the middle of this booklet. (It is also available from the Support menu in TNTmips and online at <http://www.microimages.com/support/regform.pdf>.) MicroImages depends on the information in this form to give you the best client support possible.



22 July 2005

Key and License Information

MicroImages distributes the TNT Products with three kinds of license options. You may use your TNT Products only according to the type of license you have.

- (1) **Single-User Professional License.** One software license key attaches to the computer and permits one user at a time to use the professional version of the licensed TNT product on that computer. The key may be moved from computer to computer. The TNT software may be copied onto multiple computers. The Single-User License is enabled by the software license key, which is available only from MicroImages or a MicroImages reseller.
- (2) **Floating Professional License.** One software license key attaches to a networked computer and a set number of concurrent users can run the licensed TNT product on any computer in the network. The software may be copied onto multiple computers. The Floating License is enabled by the software license key, which is available only from MicroImages or a MicroImages reseller.
- (3) **Single-User TNTlite License.** No software license key attaches to the computer and one user at a time can run the TNTlite version of any TNT product. The software may be copied onto multiple computers.

(see page 16 for a description of possible single-user / floating license conflict)

IMPORTANT: Your software license key IS your TNT professional product. Without your key, you can run only the TNTlite versions of the TNT products. Therefore, you should take steps to *safeguard your key*, even as you take normal precautions to safeguard other valuable possessions. Insure your key for loss, theft, or damage. If you lose a diamond ring, the jeweler does not give you a new one. If you lose your TNT product key, you must purchase a new product license. MicroImages will replace damaged keys for a fee. Keys are very sensitive to spurious electronic signals. If you attach your key to the wrong kind of device, the key could be damaged beyond repair. For example, you may install a parallel key in-line only with a printer: do not put a key in-line on a port with a device other than a printer (no "Parallel-to-SCSI" adapters, no ZIP drives, no tape backup units).

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6 June 2001

June 2001

This License Agreement is presented onscreen during the TNT installation process.

IMPORTANT: Your software license key IS your TNT professional product. Without your key, you can run only the TNTlite versions of the TNT products. Therefore, you should take steps to *safeguard your key*, even as you take normal precautions to safeguard other valuable possessions. Insure your key for loss, theft, or damage. If you lose a diamond ring, the jeweler does not give you a new one. If you lose your TNT product key, you must purchase a new product license. MicroImages will replace damaged keys for a fee. Keys are very sensitive to spurious electronic signals. If you attach your key to the wrong kind of device, the key could be damaged beyond repair. For example, you may install a parallel key in-line only with a printer: do not put a key in-line on a port with a device other than a printer (no "Parallel-to-SCSI" adapters, no ZIP drives, no tape backup units).

MicroImages software support engineers are ready to help you with TNT installation, setup, and operational problems. If you are using the TNT professional products, contact us at:

Software Support: (402) 477-9562

FAX (402) 477-9559

Email support@microimages.com

If you are using the TNTlite versions of the TNT products, ask for help from your campus computer lab supervisor or your organization's computer support and training specialists. TNTlite users may contact MicroImages directly (preferably by email or FAX), but our support staff gives priority to our professional clients.

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Overview

Welcome to professional GIS, Image Processing, and Desktop Cartography at its best. The TNT products from MicroImages, Inc. are the most innovative and technically sophisticated professional products for spatial data management and analysis available today. A host of professionals around the world use the TNT products for production tasks in a wide variety of disciplines. We are glad to have you with us.

To run the TNT products with the Floating License on a Windows, MacOS X, Linux, or UNIX computer, server and client machines all need a minimum of 64 Mb of RAM, a CD-ROM drive, and at least 100Mb of free hard drive space.

Install and set up the TNT products according to the instructions in this manual. The software license key attaches to the Windows, MacOS X, Linux, or UNIX server and authorizes the TNT professional products on the client computers for the license type, number of users, product level, special peripheral support, and special software that you purchased. You will get the best performance from your system by following the configuration and optimization recommendations in this manual. The general sequence is:

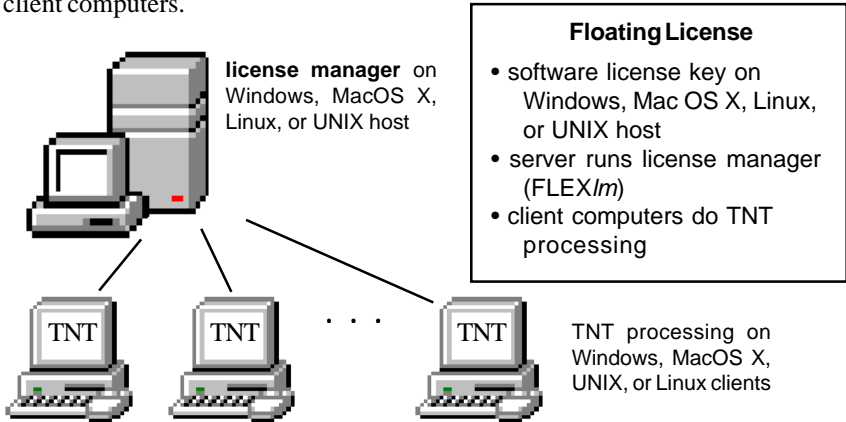
1. Configure and optimize your server
2. Install the License Manager on the server
3. Install the software license key
4. Install TNT on client computers

Please contact MicroImages software support when you need assistance:

Phone: (402)477-9562,
FAX: (402)477-9559, or
email: support@microimages.com.

The Floating License

The TNT products work with a floating license manager to support multiple users in a networked environment. The server has the only software license key and it runs License Manager software that supervises the number of authorized users on client computers.



The TNT software resides on each client computer and each client handles its own processing load.

The Floating License uses license management software (FLEXlm) to do what in the past many have done manually. That is, many organizations have chosen to install the single-license versions of the TNT products on several computers, and then physically move the software license key from computer to computer as the users need it. Thus, five keys could be moved between computers to support the work of ten users who divide their time among TNT and other tasks. The Floating License model "moves the keys" among a number of users with networked authorization software.

Use a Floating License for One, Single-User License

The Software License Key that supports floating licenses can be used for a single-user license on one computer. This single-user support is provided as a convenience for situations such as when a software license key is needed for a notebook computer in a remote, non-networked location. (See below, page 16.)

HOWEVER. When the key is used for a single-user license on the computer that is serving as a license manager, the license manager immediately shuts down all floating instances of the license. The key **does not support** simultaneous single-user and floating licenses. So if you want to use a license on the computer that is serving as the license manager, you must check out one of the floating licenses.

TNTlite Activation Code

MicroImages provides the FREE TNTlite version of the professional TNTmips software for small-scale projects. In exchange, TNTlite users must register their copies of TNTlite online at <http://www.microimages.com/tntlite/register.htm>. After the registration information is submitted, a unique **activation code** is automatically emailed to the TNTlite user. The TNTlite installation process prompts for the activation code for a one-time only activation of that copy of TNTlite.

TNTlite

The TNTlite products have the same features and functions as the TNT professional products, except that export is disabled, and the data objects are limited in size:

- Raster objects: 314,368 cells with a maximum dimension of 1024 (such as 1024 x 307, 614 x 512, or 307 x 1024)
- Vector objects: 1500 points, 1500 lines, 1500 labels, 500 polygons
- CAD object: 500 elements, 5 blocks
- TIN objects: 1500 nodes
- Database objects: 10 tables, 1500 records per table

These size limitations are designed to provide you with enough capability to accomplish small projects in lab settings where there is no need for the full production capabilities of the professional TNT products.

The export processes in TNTlite are disabled. However TNT project materials prepared or modified in TNTlite can be used with the professional TNT products.

TNTlite requires no key and has no time limit. You are encouraged to copy and share TNTlite freely. A TNTlite kit containing the current TNT products CD can be ordered from MicroImages for the cost of shipping and reproduction. You may download TNTlite and the tutorial booklets from the MicroImages Web site (<http://www.microimages.com>).



If you are installing TNTlite, follow the installation instructions for each of the TNT products you want to try. The installation process installs the same executables for TNTlite as it does for the TNT professional products.

If a client cannot check out a floating license from the license manager, the client can switch to TNTlite mode by running the License Configuration process.

Upgrade TNTlite to a Full License

If you like what you see of the TNT products with TNTlite, contact MicroImages or an authorized TNT reseller to purchase a professional TNT system.

Step 1

System Configuration

The first step in installing the TNT products is to configure the hardware and operating system of your server computer.

License Server

To be used as floating license server for the TNT products, your Windows, MacOS X, Linux, or UNIX computer needs at least 64Mb of RAM, a CD-ROM drive, and 15-20Mb of free hard drive space (100 Mb if a local copy of the TNT products will also be installed). TNT products work well with the UNIX configurations found on most of today's machines. MicroImages does not recommend that you change any default configuration settings before installing FLEX lm and the TNT products. Check with your system administrator if you have any system configuration questions.

Do not connect the software license key to the server computer until after the correct drivers have been installed. If you connect a software license key before the correct drivers are installed, the operating system may sense the key and attempt to install its own (incorrect) drivers.

Client Computers

In addition to configuring the server computer, you also need to configure each client computer with its own copy of the TNT products. Windows, MacOS X, and Linux/UNIX computers that are served by a Floating License should be configured according to the instructions in the TNT Products installation manual for those platforms (*Installation and Setup Guide*).

Do not install the TNT products on any client computers until after the License Manager is running on the server.

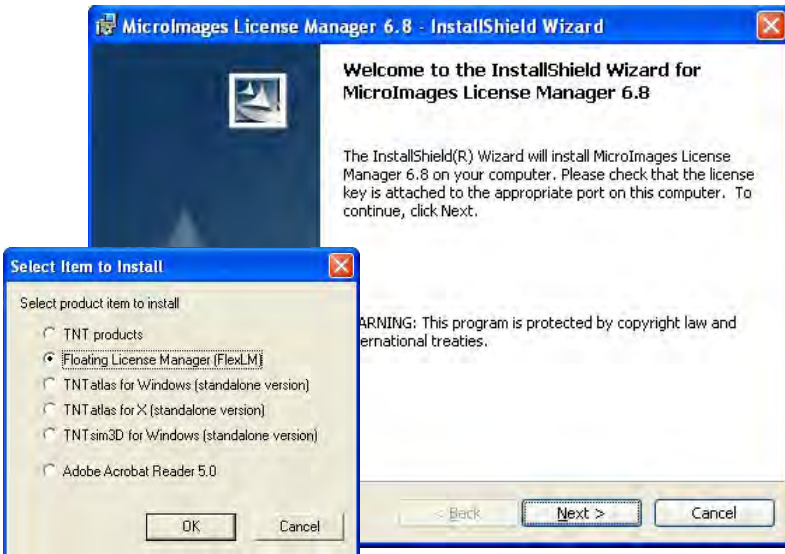
Step 2

Install License Manager

The License Manager is software that runs on your server to handle requests from client computers as they ask for one of the licenses in order to use a TNT product. Configure your network so that each TNT client computer can see the server. The server must be running and visible on the network in order for the client computers to check out licenses and use the TNT products.

Windows

The License Manager software is included on the TNT products CD. You can select the installation process for Windows from the CD's autoplay menu, or run the process directly from the CD: \lmanager\windows\lmsetup.exe. An InstallShield Wizard takes you through a sequence of installation screens. Read the License Agreement, supply the



Customer Information, and choose the Setup Type as prompted. It is recommended that you do a Complete installation rather than a Custom installation.



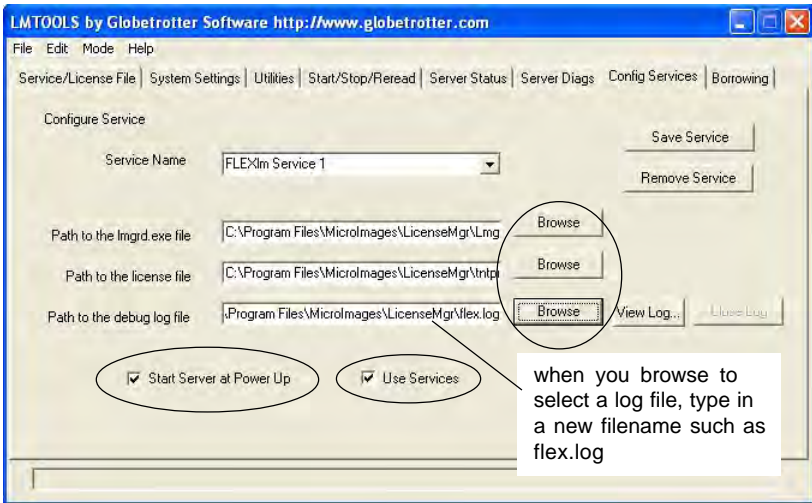
lmconfig.exe

After the InstallShield Wizard has finished, run lmconfig.exe, the License Manager Configuration utility. You can run lmconfig from the MicroImages menu in the Windows Start / Programs menu from the task bar, or you can launch it from its program icon in the MicroImages directory on your hard drive: C:\Program Files\MicroImages\LicenseMgr\lmconfig.exe. The lmconfig utility lets you enter a new authorization code (to enable any newly purchased license features), and then opens the LMTOOLS window.

The LMTOOLS window presents several tabbed panels.

Config Services Panel

First, select the Config Services panel:



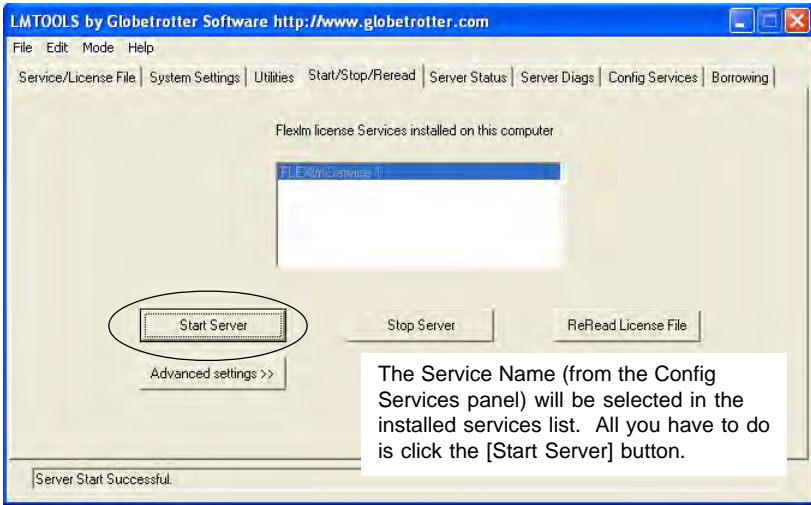
Click the [Browse] button to select the path to the lmgrd.exe, tntprod.lic, and .log files as illustrated. You will find lmgrd.exe and tntprod.lic in the server's default LicenseMgr directory under Program Files / MicroImages/. Create a new log file in that directory with a name such as flex.log.

Then turn on the Use Services and Start Server at Power Up checkboxes.

**NOTE: online documentation for FLEXlm is available on the web at:
<http://www.macrovision.com/services/support/flexlm/enduser.pdf>**

Start / Stop / Read Panel

Next, select the Start / Stop / Read panel:



Other Panels

You may wish to browse the other panels in LMTTOOLS, but ordinarily no other settings need to be changed. The Server Status and Server Diags panels are useful for troubleshooting, and you may be instructed to use them when you contact MicroImages Software Support. Do not try to use the features in the Borrowing panel.

MacOS X, Linux, and UNIX

The License Manager software is included on the TNT products CD. The commands illustrated here are for MacOS X. If you are using Linux or UNIX, adjust your commands accordingly.

(1) Open a terminal window

```
harddrive/applications/utilities/terminal
```

(2) cd to the directory you copied/installed the license manager files to

```
cd /Users/souliere/tntflexserver
```

(3) type the following command

```
./chkupd -remote
```

You will see a message in the form “Key is authorized up to version 7.0”

(4) type the following command

```
./lmgrd -c tntprod.lic -l flexlog.txt
```

All additional messages will be directed to the file `flexlog.txt`. If you have any problems, please check that log file for details.

(5) Go back to change the license configuration for any local copy of TNT that is on the server machine. Any local copy of TNT must be configured to check out a license from the License Manager, and NOT read the key locally. If a local copy of the TNT products tries to read the key directly instead of going through the License Manager, it takes over the key and puts the License Manager offline, preventing anyone else on the network from using the Floating License..

How to set up FLEXlm to start automatically

A normal, non-privileged user (non-root user) can start the `lmgrd` daemon. Note: users and administrators should not run daemons as root unless such daemons explicitly require root privileges. Since the `lmgrd` daemon does not require root privileges, do not start `lmgrd` as root.

To start `lmgrd` from a system startup script (`/etc/rc` files), use the following command:

```
su USERNAME -c "umask 022; LMGRD -c LICENSE.DAT -l LOG "
```

where

USERNAME:	is a normal, non-root, non-privileged user
LMGRD:	is the complete path and file name to the <code>lmgrd</code> binary
LICENSE.DAT	is the complete path and file name to the license file
LOG:	is the complete path and file name to the debug log

How to shut down the flex license server

(1) Open a terminal window

```
harddrive/applications/utilities/terminal
```

(2) `cd` to the directory you copied/installed the license manager files to

```
cd /Users/souliere/tntflexserver
```

(3) type the following command

```
./lmutil -lmdown -c tntprod.lic
```

The Software License Key that is used for a floating-user license must be attached to a computer that is running the license manager. This key, combined with the license manager, authorizes the number of simultaneous versions of the TNT products or seats you have purchased to be checked out for temporary use via that network.

Caution!

If you remove the floating license key from the computer running the license manager, then all authorized seats using a TNT product will shut down immediately.

Caution!

Starting a single-user license on a computer with floating license key attached will cause all authorized seats using a TNT product to shut down immediately.

If you want to use a TNT product on the same computer with the floating license key attached, you must check out a seat authorized by that floating license, just as any other networked computer does.

Temporary Use a Single-Use License

For your convenience for demonstrations, trips, and other purposes, you can remove a floating license key from the computer used as a license manager and attach it to a portable or non-networked computer. You can then use it to start your authorized TNT product as a single-user or fixed licensee without installing the floating license manager on that computer. However, as noted above, this prevents its simultaneous use as a floating license. Thus this is usually only used with a floating license authorized for 1 seat or user.

Step 3

Software License Key

If the MicroImages License Manager is the first software on your computer that needs a key from MicroImages, Inc., then you should NOT attach the Software License Key until after the appropriate driver for the key has been installed. These "Step 3" instructions apply only if you have not already installed your key during the software installation process described in the previous chapter of this booklet.

Mac OS X You must install the HASP driver, which is provided on the TNT Products CD, in the "Only Paying Clients install this key driver" folder. Click on the VISE install icon and follow the onscreen prompts.



Windows The driver for the key will be installed when you select the key type in the TNT Products License Configuration dialog. You can open that dialog by launching the Change License Configuration utility.

Your Software License Key may be labeled "SERIAL" or "PARALLEL". Be sure to attach your key to the right kind of port. You will not be able to run the license manager if the system can't find your key. Be sure you do not attach a parallel key to a serial port, or a serial key to a parallel port. *DO NOT install a parallel key in line with any non-printer device, such as a "Parallel-to-SCSI" adapter, tape drive, or parallel modem.* MicroImages will replace damaged keys for a fee. Keys are very sensitive to spurious electronic signals. If you attach your key to the wrong kind of device, the key could be damaged beyond repair.



Step 4

TNT on Client Computers

After you install the License Manager software on your server, then you are ready to install the TNT products on each client computer in the network. Each local copy of TNT must be configured to check out a license from the License Manager. Follow the instructions in the *Installation and Setup Guide*.

Windows and MacOS X

Select "Floating license from FLEXlm server" in the TNT Product License Configuration dialog and enter the name of the server machine.

Linux, Unix

(1) **tntprod.lic**

Copy **tntprod.lic** from the license manager directory to the products folder of each computer on the network that will need to check out a license. Get one client working before you move on to the others. Only the first two lines of **tntprod.lic** are needed. They will have the form.

```
SERVER Harpo MICROIMAGESKEY=67
USE_SERVER
```

If you have a problem where the client computer is unable to connect to the License Manger on the server, you can change **tntprod.lic** to indicate the IP number of the server, in the form:

```
SERVER 10.10.0.128 MICROIMAGESKEY=67
USE_SERVER
```

(2) **tnthost.ini**

In the TNTmips products folder edit **tnthost.ini**. Under the [KEY] stanza set the following lines:

```
TNTlite=0
driver=loc
UseFLEXlm=Yes
```

(3) Run TNTmips or any of our other products as usual.

Administration

Managing the Log File

A log file (flex.log, p.14, or flexlog.txt, p.16) records license activity. It contains one line for each checkout or checkin. Examine the log when you have a problem, or to review and evaluate user demand. If your license is being used to capacity, contact MicroImages to increase the number of users your license supports.

Upgrades, Updates, and Patches

Keep up with the patches from MicroImages. Every week, the latest version of the TNT products is made available at <http://www.microimages.com/freestuf/tntpatch/>

The **Release Version (RV)** is the official release of the TNT products. The RV is updated each week and provided for download.

The **Patch File** contains incremental error fixes that will bring any RV up to date. The Patch contains no new development features.

The **Development Version (DV)** is the RV plus new features, in development for the next release. The DV requires a software license that includes the next release version.

If you have a problem or find an error, get the **Patch File**.

New Releases

When MicroImages releases a new version of the TNT products, upgrade your Software License Key by entering the authorization code MicroImages sends you. First, shut down the license manager.

- Under Windows, run the License Manager Configuration utility and enter the code when prompted.
- Under MacOS X, Linux, and UNIX, enter the authorization code from the old version of TNT. Select Support/Setup/Enable Options from the TNT menu. After you enter the code, then open a command line and enter
`./chkupd -remote`
to generate a new license file.

Finally, restart the license manager.

Advanced Software for Geospatial Analysis

MicroImages, Inc. publishes a complete line of professional software for advanced geospatial data visualization, analysis, and publishing. Contact us or visit our web site for detailed product information.

TNTmips TNTmips is a professional system for fully integrated GIS, image analysis, CAD, TIN, desktop cartography, and geospatial database management.

TNTedit TNTedit provides interactive tools to create, georeference, and edit vector, image, CAD, TIN, and relational database project materials in a wide variety of formats.

TNTview TNTview has the same powerful display features as TNTmips and is perfect for those who do not need the technical processing and preparation features of TNTmips.

TNTatlas TNTatlas lets you publish and distribute your spatial project materials on CD-ROM at low cost. TNTatlas CDs can be used on any popular computing platform.

TNTserver TNTserver lets you publish TNTatlases on the Internet or on your intranet. Navigate through geodata atlases with your web browser and the TNTclient Java applet.

TNTlite TNTlite is a free version of TNTmips for students and professionals with small projects. You can download TNTlite from MicroImages' web site, or you can order TNTlite on CD-ROM.

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