

# Windows and Macintosh

## Installation and Setup Guide

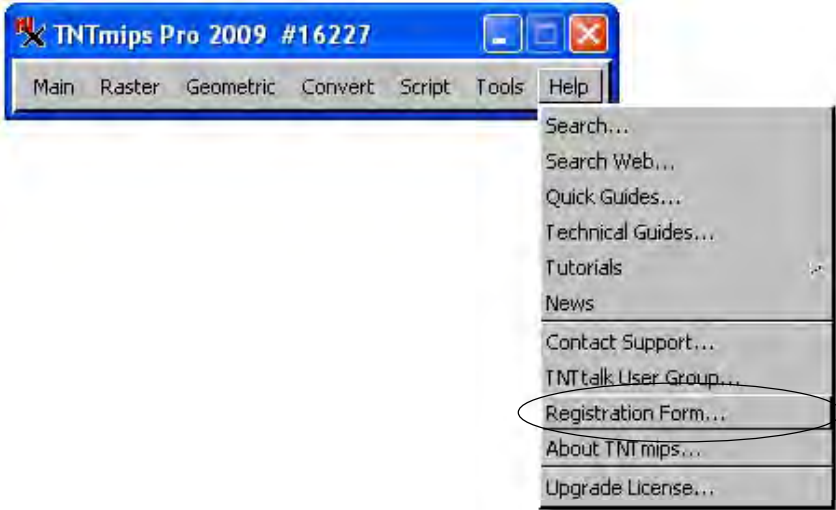


for the

# TNT Products

## 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 Help menu in TNTmips Pro 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.



**IMPORTANT:** Your software license key IS your TNT professional product. Without your key, you can run only the TNTmips Free and computer-locked Basic 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 key, MicroImages does not give you a new one. Keys are very sensitive to spurious electric current and surges, such as static discharge. Do not apply force when attaching or removing a key.

29 June 2009

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23 April 2009

April 2009

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

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 TNTmips Basic or Free versions of the TNT products, ask for help from your campus computer lab supervisor or your organization's computer support and training specialists. TNTmips Basic and Free 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 geospatial data management and analysis available today. A host of professionals in over 150 nations use the TNT products for production tasks in a wide variety of disciplines.

To use the TNT products on Windows or Mac OS X, your computer needs at least 512 MB of RAM, a DVD drive, and at least 1 GB of free hard drive space.

Install and set up the TNT products according to the on-screen instructions in the setup program and the supplemental information in this booklet. You may install TNTmips Basic or Free products without a software license key, or you may install the TNT professional products with the key supplied by MicroImages, Inc. The software license key attaches to a port on your computer and authorizes your TNT professional products for the TNT product and large printer support if purchased. Whether you use TNTmips Free, Basic, or Pro, the general installation sequence is:

1. Configure and optimize your computer,
2. Install the TNT products from DVD or download,
3. Install the software license key (if needed), and
4. Customize your TNT environment.

Professional clients may contact MicroImages software support:

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

TNTmips Basic and Free users should contact the computer lab administrator at their school or company for technical support for installation problems.

## TNTmips Free

TNTmips Free is the free version of the TNT products (TNTmips, TNTedit, and TNTview). The TNTmips Free products have the same features and functions as the TNT professional products, except that export is limited to one object at a time, and 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: 500 points, 1500 lines, 500 polygons

Shape objects: 500 elements

CAD objects: 500 elements

TIN objects: 1500 nodes

Database objects: 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.

TNT project materials prepared or modified in TNTmips Free can be used with the professional TNT products.

TNTmips Free requires no key and has no time limit. You are encouraged to copy and widely share TNTmips Free. You may download TNTmips Free and the tutorial booklets that guide you through the basics and many advanced processes from the MicroImages Web site (<http://www.microimages.com>).

If you are installing TNTmips Free, follow the installation instructions for the professional products. The installation process installs the same executables for TNTmips Free as it does for the TNT professional products.

If you remove the Software License Key from a computer running TNTmips Pro, you can switch to TNTmips Free mode by choosing License Configuration from the Start menu for your installed TNT product version.

### **Upgrade TNTmips Free to a Full License**

If you like what you see of the TNT products with TNTmips Free, contact MicroImages or an authorized TNT reseller to purchase a professional TNT system (TNTmips Pro, TNTedit Pro, or TNTview Pro).

## TNTmips Basic

TNTmips Basic is the very low cost version of the TNT products (TNTmips, TNTedit, and TNTview). If you want to upgrade from TNTmips Free to TNTmips

Basic, you can do so at MicroImages' web site and you will receive an activation code for the upgrade once your payment is made. The TNTmips Basic products have the same features and functions as the TNT professional products, except that export is limited to one object at a time, and data objects are limited in size:

Raster objects: 4,000,000 cells with a maximum dimension of 4000 (such as 1000 x 4000, 2000 x 2000, or 1800 x 2222)

Vector objects: 500 points, 1500 lines, 500 polygons

Shape objects: 500 elements

CAD objects: 500 elements

TIN objects: 1500 nodes

Database objects: 1500 records per table

### **Upgrade TNTmips Basic to a Full License**

If you like what you see of the TNT products with TNTmips Basic, contact MicroImages or an authorized TNT reseller to purchase a professional TNT system (TNTmips Pro, TNTedit Pro, or TNTview Pro).

## Step 1

# System Configuration

The first step in installing the TNT products is to configure the hardware and operating system of your computer. After you complete this step, proceed *Step 2: TNT Installation*.

**Multiple Monitors.** If you run TNT products with multiple monitors, your Primary monitor should be on the left. So for example, under Windows, use the Display Properties dialog to define the left-right positions of your Primary and Secondary monitors. On the Mac, use the Arrangement panel of the Hardware/Displays System Preferences.

## Windows

To use the TNT products with Windows XP or Vista your computer needs at least 512 MB of RAM, a DVD drive, and about 1 GB of free hard drive space. TNT products work well with the default Windows configuration for versions starting with Windows XP. (Anyone still using Windows 98, 2000, or NT: it's time to upgrade.) MicroImages does not recommend that you change any default Windows configuration settings before installing the TNT products. Windows memory management and hardware device controller settings should give an optimal performance environment for the TNT products.

## Mac OS X

To use the TNT products with Mac OS X, your computer needs at least 512 MB of RAM, a DVD drive, and about 1 GB of free hard drive space. The TNT products for Mac OS X require that you use version 10.4 or newer (10.5 or newer recommended), and Apple's X11 2.1, which comes with Mac OS X. If you try to use the TNT products with any earlier versions of these Apple components, the TNT products will display a message that you need to acquire your free upgrade to Apple's operating system and install the current X11.

MicroImages does not recommend that you change any default hardware or memory configuration settings before installing the TNT products. Mac OS X memory management and hardware device controller settings should give an optimal performance environment for the TNT products.

## Peripheral Hardware

You can install and configure most peripheral hardware devices for use with TNT products without special instructions. Follow the installation instructions in the manufacturer's documentation. Be sure to install any device drivers that the documentation specifies. If the device comes with a disk that contains supporting software, install the software according to the installation instructions. Run the manufacturer's demo program to make sure the device works with your computer.

Note that using printers larger than 11 x 17 inches with the TNT products requires a P15 license option from MicroImages. There are no other hardware support options, so any hardware devices that work with your computer will work with TNTmips.

After your peripheral device is connected and working, you can select its device type and interface port in TNT from the Support / Setup process. You may also select and control your peripheral's settings from within the TNT processes that use that hardware device.

If you have problems configuring peripherals to work with TNT that have setup and testing software that works with your computer, contact MicroImages software support by phone, FAX, or email.

## Step 2

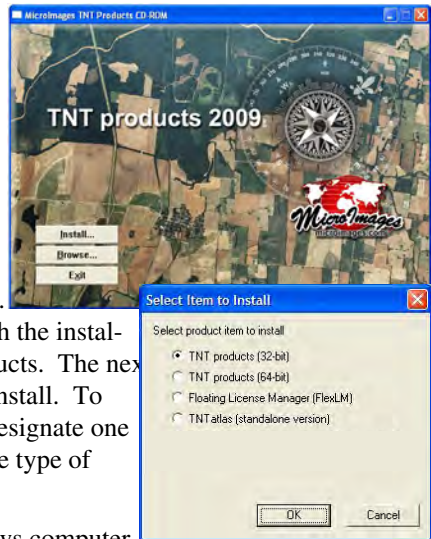
# TNT Installation

The second step in installing the TNT products is to run the installation program. After you complete this step, proceed to *Step 3: Software License Key*. If you are installing a new version of the TNT products over an existing version, refer to the chapter **Upgrades and Updates**.

You can install the TNT products from DVD or from an Internet download. Do not attach your software license key (dongle) prior to product installation.

## Windows

**Windows Autorun** If you have a Windows system that is configured to recognize automatic setup programs on any newly inserted CD or DVD, then the TNT products setup program starts automatically. Insert the TNT Products DVD into the DVD drive on your computer. The autorun screen offers three buttons: Install, Browse, and Exit. Click the **Install** button to proceed with the installation of one or more of the TNT products. The next step is to designate what you want to install. To install your purchased TNT product, designate one of the first two options according to the type of operating system on your computer.



**Windows Setup** If you have a Windows computer that does not run the setup program automatically, you can run the setup program manually. Open the disk icon and browse to the /setup32 or /setup64 folder depending on whether your operating system is 32- or 64-bit and launch **setup.exe**. If you have downloaded a TNT product to install, click on Open in your download manager or double click on the downloaded file. There is no need to choose between 32- or 64-bit because that is specified by the file you have chosen to run.



The Windows installation process uses an InstallShield Wizard, which walks you through the installation steps. The first window you see when launching the installer manually is the third window shown if you are autorunning from DVD. The steps from here on are the same whether you are autorunning from DVD, manually running from DVD, or running a down-

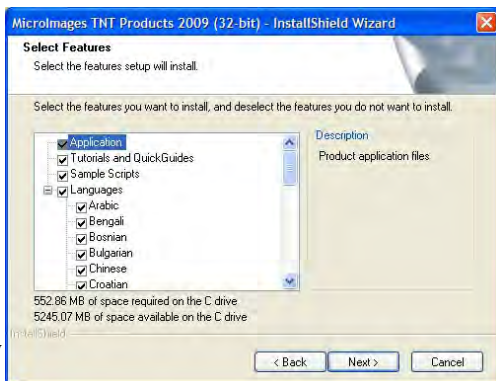
loaded install program.

**License Agreement** The next window to appear is the TNT products license agreement. The complete license agreement is on pages 4 and 5 of this booklet or you can use the Print button if you want a printed copy in a larger format. You must click on the Yes button to proceed with the installation. Clicking on the No button will cancel the setup process.

**Customer Information** This window asks for your name and your company's name and lets you indicate whether the installed product can be run by all users of the computer or only you as established by login name. Filling in this information does not register your TNT system; registration is a separate process for which you may use the pink registration form found in the center of this booklet or you can access the registration form from within your TNT product by choosing Help/Registration Form. Your registration form should be sent to MicroImages at the address provided.

**Choose Destination** It is recommended that you accept the default destination suggested, but you can click on the Browse button and select a different destination if desired.

**Select Features** This window lets you select the features you want to install. All components are selected by default and include the application, the Tutorials and Quick Guides, sample SML scripts, and interface translation packages for a number of languages. If you are short of space on your machine, you may opt to omit the Tutorials and

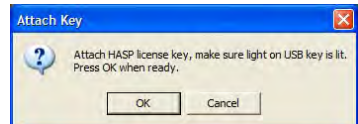
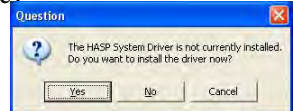
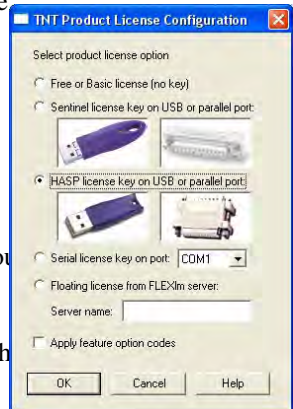


Quick Guides, which combine to take over 160 MB. However, unless you are an advanced and experienced user of the TNT products, you will certainly need the Tutorials and Quick Guides. If you choose to install the sample SML scripts, they are installed with your program files as a zip file named scripts.zip, which you can unzip to an appropriate location for their use. Alternatively, you can copy the scripts folder on the DVD to the location of your choice.

A selection of sample data is also included on the TNT products DVD as a SampleData.zip file. The zip file itself is 150 MB and unzips to 300MB. This data together with some of the scripts contained in the scripts folder that is also on the DVD provide all of the data and scripts referenced in the Tutorial booklets. This same data is available for download from MicroImages' web site.

**License Configuration** When the InstallShield Wizard finishes, you are ready to start the TNT products from the Windows Start menu. When you launch TNT, it looks for your Software License Key. If it finds one, TNT proceeds to the main TNT menu. If it cannot find a Software License Key, TNT opens the TNT Product License Configuration dialog.

- If you are on a network that has a server for a floating license, select the radio button for “Floating License from FLEXlm server.”
- If you have a single-user key that attaches to your computer, select your key in the TNT Product License Configuration dialog. If you have a Sentinel or HASP key for a USB port, look at the illustrations closely so that you select the right key. When you click [OK], the driver for the key you have selected is automatically installed. If you already have the expected key drivers installed, you will be prompted to attach the key. Do not attach a USB key until prompted to do so (otherwise Windows will detect a new USB device and offer to install its own drivers).



The TNT products are available in many languages. Language interface packages are included on the installation DVD. New and revised language packages and translated tutorials may be downloaded from [www.microimages.com](http://www.microimages.com). If you are installing from an Internet download, the sample data is not included but you do have the option to install sample SML scripts. You can download the sample data from [www.microimages.com/tntlite/getdata.htm](http://www.microimages.com/tntlite/getdata.htm).

## Mac OS X

The TNT products DVD for Mac OS X uses the installer VISE, which operates like the Apple installer for Apple software products, to install your TNT product. **Do not attach your software license key until after installation is complete.**

If you have acquired your TNT product on DVD, a window with contents like that illustrated at the right should appear when it is inserted. Double-click on the disk icon or name (TNT products and version) to launch installation. The name shown will have a .app extension if your Finder windows are configured to show file extensions. If you have downloaded your TNT product, double-click on the name in the Downloads window list or in the Downloads folder in your home directory.



Installation of software on the Mac requires administrator privileges. The first step after launching the installer is to login as the administrator if you are not already or to locate your system administrator and have them install the software.


**License Agreement** The next window to appear is the TNT products license agreement. The complete license agreement is on pages 4 and 5 of this booklet or you can use the Print button if you want a printed copy in a larger format or you can save the agreement to disk if desired. Click on the Continue button to proceed. Another window will appear that asks if you agree to the terms of the license agreement. You must click on Agree to continue your installation. If you click on Disagree, you will return to the License Agreement window. If you do not want to complete your installation you need to quit the installer through the Apple interface (either type **⌘-Q** or select Quit from the TNT installer menu).

**Select Destination** It is recommended that you accept the default destination suggested, but you can click on the Select Folder button and select a different destination if desired.

**Select Features** This window lets you select the features you want to install. All features except the Japanese keyboard input method are selected by default. If you want to enter Japanese characters, you should also select this option. You only need to



select the HASP USB Key Driver option if you are installing a professional TNT product for local use; it is not needed for TNTmips Free or the computer-locked version of TNTmips Basic. Nor is it needed for your individual installation if you will be running a network license. Do not attach your HASP key until instructed to do so by the installation process.

Each option has a  icon to the right. Click on this icon to view the size and additional information about that item for installation. If you switch from Custom Install to Easy Install, all features are selected for installation. When the desired features are selected, click on the Install button. All available interface languages are automatically installed on the Mac.

If you are installing from an Internet download, the sample data is not included but you do have the option to install sample SML scripts. You can download the sample data from [www.microimages.com/tntlite/getdata.htm](http://www.microimages.com/tntlite/getdata.htm).

Once installation is complete, you will have a folder for the version of the TNT products you installed with icons to launch each of the TNT products (TNTmips, TNTedit, TNTview, and TNTatlas) together with folders for your TNT temporary files, SML sample scripts (if installed), and program files. The tutorial booklets and Quick Guides are found in the getstart folder within the Program Files folder. You can drag the icon for your TNT product from this folder to the dock to provide a short cut for starting your TNT product.

The TNT products on the Mac run under the X11 X Window System that is included with your operating system. When you start your TNT product, X11 is automatically started also.

If you are setting up a machine to host the FLEXlm floating license for other TNT users on your network, follow the instructions in the folder **FLEXlm License Server Installation**. You should also consult the documentation in the associated booklet entitled *Floating License Setup and Management Guide*.

To uninstall the TNT products, just drag the TNT products folder to the trash.



## Step 3

# Software License Key

If you are installing the professional TNT products for the first time 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 installation process (described in the previous chapter of this booklet). The installation process allows you to specify the type of license you have and determines if the driver for the software license key needs to be installed.



**IMPORTANT:** Your software license key IS your TNT professional product. Without your key, you can run only the TNTmips Free and computer-locked Basic 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 key, MicroImages does not give you a new one. Keys are very sensitive to spurious electric current and surges, such as static discharge. Do not apply force when attaching or removing a key.

If you want to install only the TNTmips Free or computer-locked Basic versions of the TNT products, then you do not need a Software License Key. But to run the professional TNT products or a portable or network license for TNTmips Basic, you must have a Software License Key supplied by MicroImages, Inc. The key contains sealed circuitry that is individually programmed to work with your version, product, licensing level, and optional hardware. TNT products have no other copy protection, so you can install the software on as many machines as you want and then move the key between them (within the hardware limitations described below). When you run a TNT product, the system looks for the key to verify your version, product, and optional peripheral equipment support.

You will not be able to run the TNT professional products or the portable or network versions of TNTmips Basic if the system can't find your key. All new TNT systems come with a USB key. Other choices are shown during License Configuration on Windows platforms to accommodate older systems. You can exchange older key types for a USB key for a small fee if you upgrade your computer.

### **TNTmips Basic Activation Code**

MicroImages provides the TNTmips Free version of the professional TNTmips software for small-scale projects. TNTmips Basic is a very low cost version of TNTmips Pro for somewhat larger projects than supported by TNTmips Free. TNTmips Free and Basic run without a Software Licence Key. To acquire TNTmips Basic, you first download and install TNTmips Free. If you decide you want larger raster support, you can upgrade to TNTmips Basic by registering and paying for your upgrade. You are then issued an option code, which you enter while running TNTmips Free after selecting Help/Upgrade License.

MicroImages shares the TNTmips Basic registration information with its authorized resellers in the nation where the TNTmips Basic is registered. The information is also used for general notification when new versions of TNTmips are released (at approximately yearly intervals).

## Step 4

# TNT Customization

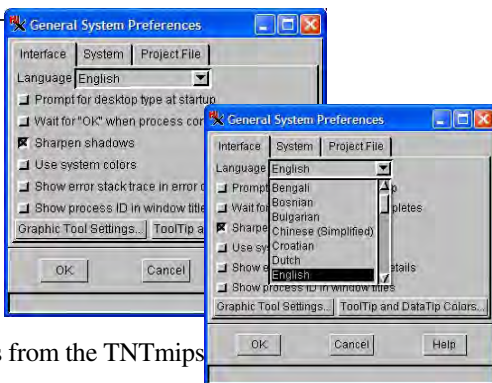
The last step in installing the TNT products is to customize the control files. Of course, you may completely skip this step and use the TNT products with the default configuration. Later, you may wish to return to this section after you are familiar with the default settings and have an idea of what you want to change.

## Languages

The TNT products can be used in the language and script of any locale in the world. All of the TNT products can use any TrueType font for map annotations, legends, and labels. No matter what language you use, you can create map and display products that have any combination of international fonts and languages. Even without an optional language interface package, your TNT product can accommodate any font and language in

- Databases - all string/text fields in attribute tables
- Text editing - mixed languages, right-to-left entry, complex glyphs, and diacritics
- Map products - captions, legends, annotations, and labels
- Keyboard entry - standard Windows and Mac entry methods and keyboard layouts

You can also choose from a growing list of languages for the software interface of the TNT products. You can choose any one of the international languages, and all the TNT menus and interface components will appear in that language. You can even choose more than one language, and switch between them.



Select Tools/System / Preferences from the TNTmips menu bar.

In the General System Preferences dialog, select the Interface tab and click on the Language option menu and select the language you want from the scrolling list of locales. The change will appear the next time you start the TNT products.

If you don't see the language you want on the menu, check the most recent listing at <http://www.microimages.com/i18n/locales/>. If the language you want is not there, contact us at [info@microimages.com](mailto:info@microimages.com) to inquire about the opportunities associated with becoming the Official Translator for your language.

### **Arabic on Windows**

In order to fully use the Arabic support in the TNT products, you must be running either Windows 2000, XP, or Vista as these Windows versions support Unicode. For step-by-step instructions, download the file **UsingArabic.pdf** from [http://www.microimages.com/i18n/\\_ar\\_arabic/UsingArabic.pdf](http://www.microimages.com/i18n/_ar_arabic/UsingArabic.pdf).

### **Japanese on Mac OS X**

To use the Japanese Keyboard Input Method under Mac OS X, check the Japanese keyboard input method (IME) option when installing your TNT product. After installation, select Tools / System / Fonts from the TNT menu to choose one of the fonts with JIS-028 encoding.

### **Updating Language Interface Packages**

The most recent language kits are all included on the release CDs and in the full product download from the MicroImages web site. Between releases, new versions and revisions are posted on the MicroImages web site at <http://www.microimages.com/i18n/locales/>. Download the package for the language you want. Then use the Tools / System / Preferences process to select your locale in the General System Preferences dialog.

### **Font Issues**

The TNT products can use any TrueType font on your system for interface and annotation. Use 2-byte Unicode fonts to support your language and characters. Select Tools / System / Fonts from the TNT menu to choose a font that displays your language interface correctly. Consult the color plates entitled *Select True Type Interface Fonts* and *Finding TrueType Fonts on the Web* at <http://www.microimages.com/documentation/65ttfonts.pdf> and <http://www.microimages.com/documentation/65findingtruetypefonts.pdf>, respectively.

# Upgrades and Updates

## New Releases

When you receive a new release of the TNT products, the install process lets you select the target directory for the installation. In most cases, you should accept the new directory offered as the default.

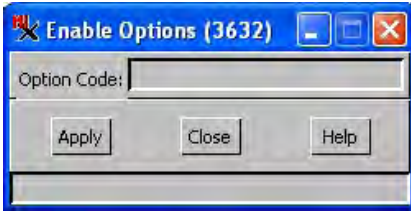
MicroImages does **NOT RECOMMEND** that you install a new version over your existing version. Install the new version separately, so you will have the option of using the old version alongside the new version during a transition period. You probably will want to work quickly with the old, familiar features for a while until you have time to learn the new features. Of course you need about 300 MB of disk space for the new version. The first time you run the new version, a startup dialog offers you the option of copying your personal settings and defaults from the previous version to the new version.

**Software License Key Upgrade.** When you renew your subscription to the TNT products, the install process for the new release opens a window and asks you to enter an authorization code to enable your key for the new version. Enter the code exactly as it appears on the authorization notice you receive from MicroImages.

**Network Software License Key Upgrade.** When you upgrade a network (floating) license to a new version, you must also update the License Manager. First shut down your License Manager. Then download and install the License Manager for the new version from MicroImages' web site (<http://www.microimages.com/getstart/enterpri.htm>). The License Manager download is listed below the TNT products for the variety of platforms supported. There is a separate download for 32-bit and 64-bit operating systems. Be sure to download and install the correct version for the operating system of the license server machine. After the new version of the License Manager is installed, restart the License Manager. You can then install and run the new version of the software on each machine that uses the network license. You may need to enter an option enable code, as described in the next section, on the License Manager machine.

## Upgrades

The software license key distributed with the TNT professional products is programmed to support the version number and the product level and peripheral options you purchased. MicroImages, Inc. makes it easy to extend your product subscription for a newer version.



When you purchase a new version or product level, MicroImages, Inc. sends you an **option enable code**. Select Upgrade License from the Help menu. Enter your option enable code, and press the Apply button. TNT re-programs your key to support the new version or product level.

## Updates

All software has errors. MicroImages responds quickly to error reports. But if we don't know about them, we can't fix them. So we encourage our clients to report problems that they find so we can fix them and provide an updated version to all our users. The best method for reporting errors is to use the Contact Support form that opens when you select Help / Contact Support from the TNT menu. This form assists in your error reporting by providing tools to assist in your error description, such as creating movies of the steps to reproduce the problem and screen shots. It also collects some information from your machine, such as your operating system and the version of the software you are running.

You may also report errors to our software support team using these other methods:

voice: (402)477-9562  
FAX: (402)477-9559  
email: support@microimages.com

Every week, the latest version of the TNT products is made available on our website. <http://www.microimages.com/downloads/tntpatch/>

The **Release Version (RV)** is the official release of the TNT products. The Release Version is updated each week on our web site with all the latest fixes and updates. The latest edition of the Release Version can be downloaded from MicroImages web site and may be provided on DVD when a new TNT product is ordered.

MicroImages also posts another download option:

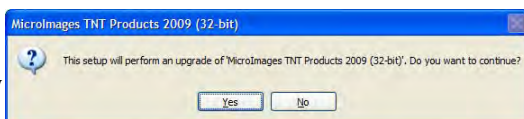
The **Development Version (DV)** is the RV plus new features, with error fixes (and possibly new errors introduced with the new features). You can use the DV in professional mode if your software license is authorized for the previous version. So if your key is authorized for RV 2008, you can run DV 2009. All DV versions expire 30 days after their issue date and must be updated for continued use.

If you have a problem or find an error, get the newest weekly edition of the Release Version and try again. If the problem persists, please use the Contact Support form.

You may wish to get the **Development Version** if your work involves a process that is getting significant new features in the next release. Those new features, during the development phase, are available for download in the Development Version. Naturally, these new and not fully tested features will not be as stable as those in the Release Version. Thus we urge clients who are doing mission-critical production work and facing deadlines to use the Release Version, not the Development Version for these tasks. Nevertheless, MicroImages invites interested (and intrepid) clients to download and work with the Development Version. You can partner with MicroImages by reporting errors and suggesting improvements during our development phase to help keep the TNT products the most innovative and advanced products on the market.

When a new version is officially released, the old DV is discontinued, and it is usually several weeks before the DV for the next version becomes available.

When you download a newer edition of the same version of a TNT product you already have installed, you get a



message informing you that an upgrade will be performed. If you install over your last edition of the same version of the same product, all your user settings are retained.

There are two download choices for for every supported platform: Full and Minimal. The Full installation package includes the latest edition of the software with all fixes and updates made since its initial release, as well as the tutorials, scripts, and available languages. The Minimal installation package only includes the latest edition of the software with all fixes and updates (no tutorials, scripts, or languages).

Neither installation package includes the sample data provided by MicroImages for use with the tutorial exercises and for other purposes. You can download the sample data as a single zip file from [www.microimages.com/tntlite/getdata.htm](http://www.microimages.com/tntlite/getdata.htm). You can download data for individual booklets from the page that describes the booklet.

If your first download and installation for a particular version of the software used the Minimal installer, subsequent installations using a downloaded Full installer will update your edition of the software but will not add the components missing from your minimal installation. To get the tutorials, scripts, and languages installed, you need to uninstall your Minimal version before installing the Full version; the installer only updates files that were already there, it does not add files.

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# 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 Pro** 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 or DVD 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 TNTmap, which is WMS compliant.

**TNTmips Basic** TNTmips Basic is a very low cost version of TNTmips for students and professionals with small projects with larger object size limits than TNTmips Free.

**TNTmips Free** TNTmips Free is a free version of TNTmips for students and professionals with small projects. You can download TNTmips Free from MicroImages' web site.

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