



DRAFT of 20 December 2006

TNTserver 2006:72 and Other Topics

TNT Upgrade Price Change.

MicroImages' long term clients have observed that the time between official releases of the TNT products has gradually lengthened from 4 per year 20 years ago to 3, 2, and now it is approaching 1 per year. Coordinating the development and release of several products, multiple operating systems, multiple cores, the pending integration with web products, and so on simply requires more time and effort than is available in a short release cycle. This creeping complexity has required gradual adjustment in the way that the TNT software products are released, delivered, errors managed, updated, documented, supported, and most importantly, developed. It is now becoming the norm that many software products you are using are in continual release with overlapping versions of varying degrees of reliability and varied access to new features (for example, new versions of Google Earth stay in beta for a year, Apple makes 9 releases of Mac OS X 10.4, and of course MicroImages' weekly release of 2004:70 through DV2007:73). Eventually we may all be using the daily version of many different web application software products that self assemble according to a reliability level we specify for each major component. Some of you already do this in TNTmips by using the development version of a specific TNT process because it has a new feature important to your current project, but you use a release version in all other activities for reliability.

As a result of these trends, effective 15 February 2007 MicroImages' newly purchased prepaid annual maintenance for the TNT analysis products (TNTmips, TNTedit, and TNTview) you have at version 2006:72 and future versions will guarantee to provide the next (1) official release of that product. Until 15 February an annual maintenance contract can still be purchased for these TNT products operating at version 2006:72 at the current price that guarantees your access to the next 2 versions (2007:73 and 74). If you have not purchased your annual maintenance for 2007:73 and 74, you have until 15 February 2007 to submit your order to MicroImages at the current prices and terms. Please contact MicroImages or your Reseller now if you wish to receive a quote so that your order for annual maintenance at the current price reaches MicroImages before this deadline. After February 15th, prices charged for annual maintenance will be unchanged but will only be logged to receive 1 new official release.

Whether you order maintenance before or after 15 February, if your TNT product is not current to 2006:72 then, as usual, it will need to be upgraded to the current version 2006:72 before a prepaid annual maintenance order can be placed.

The maintenance terms written into all contracts already purchased by any client that guarantee any future TNT product upgrade versions will be honored by MicroImages. Please review your invoice or pro forma to determine the specific versions you have already purchased. For example, those of you who have contracted for upgrades through

version 20??:80 or later will still receive it and all the intervening official releases. Please also remember that Microlimages support to any client, for any product, at any version level is provided FREE of charge.

SIGEOL, a Geologic Analysis Package for Use with TNTmips.

TTI Production, a French geologic services company and Authorized Microlimages Reseller, has just released *SIGEOL: Advanced Geologic GIS Module for TNTmips 7.2*. SIGEOL has been in development by TTI's software engineers for more than 3 years. It has been implemented by TTI using Microlimages' software development kit (TNTsdk), Microlimages' geospatial scripting language (SML), and additional C code. Its design and features reflect the experience of TTI's geologists and geoscientists who have been actively applying GIS, remote sensing, and information technology in servicing the oil and mineral industry for many years. Their extensive experience in the requirements for the use of these technologies has been incorporated into the tools provided by SIGEOL in the form of a proprietary knowledge base of data, data structures (for example, schemas), and analysis coefficients.

SIGEOL lite is available for download FREE for use in French and English with version 2006:72 of TNTmips or a TNTlite downloaded from www.sigeol.com/gis-geology-software/. Detailed information on the capabilities of SIGEOL can also be reviewed in French or English at this site. This product has been developed exclusively by TTI, so please direct all inquires about this product, price, purchase, features, support, and so on to sale@sigeol.com or support@sigeol.com.

SPECIAL INTRODUCTORY OFFER.

Until 28 February 2007 SIGEOL is being offered to current users of TNTmips 2006:72 for a special introductory price of US\$1800 (US\$6000 after 28 February). Material describing TTI's special introductory academic and professional offers is attached. For more detailed information on this important new product see www.sigeol.com.

TNTserver 2006:72 Official Release.

The development of new features for version 2006:72 of Microlimages' TNT web publishing products is now complete. A 66-page PDF document entitled Technical Reference Manual for the Installation, Management, and Operation of TNTserver 2006:72 and TNTmap 2006:72 is available for your review at www.microimages.com/product/tntserver.htm. This is a DRAFT document as it lacks some illustration pages that are still being prepared to compare using TNTserver for a WMS to other WMS products from other developers. These additional pages will also review the use of other open source and commercially developed viewers that can access layers published by a WMS.

Microlimages has successfully tested this official release of version 2006:72 of TNTserver for 100% compliance with the ISO 19128 specifications for a WMS. These tests use the test data and a test sequence provided by the Open Geospatial Consortium (OGC) for this purpose. This official release version 2006:72 has been submitted to the OGC for their WMS certification using these same tests and data.

Patched versions of TNTserver 2006:72 will be provided via microimages.com as appropriate.

MicroImages has shifted TNTserver development efforts to version 2007:73 and is focusing upon the implementation of the 3 mandatory operations in the OGC Web Feature Service (WFS) specification (proposed ISO 19142): Get Capabilities, Describe Feature Type, and Get Feature.

FREE Trial of a TNTserver.

TNTserver 2006:72 downloaded from microimages.com/product/TNTserver.htm can be installed and used in test mode on any computer already using a key to run version 2006:72 of TNTmips, TNTedit, or TNTview.

Any MicroImages client using a professional (in other words, keyed) version of any 2006:72 TNT product can install a test version of TNTserver for any time period desired. In this trial version a large watermark word "TEST" will be superimposed on any layer or composite image it serves up. To see how this looks see the color plate entitled TNTserver 2006:72: Using in Test Mode. Those who subsequently purchase a professional version of the TNTserver product receive a separate software authorization key that removes this superimposed "TEST" watermark and permits the TNTserver to be installed anywhere, totally independently from any other TNT product. Also, if you wish to install TNTserver in test mode on any other Windows computer, you can order a separate TNTserver USB test key for \$100 including express shipment.

Once your test TNTserver and Apache or IIS have been installed and are operational, they can be used to test the web publication of any of your TNT supported geodata (for example, direct access files such as JP2, JPG, SHP, ...; raster, vector, shape, and CAD objects; groups; layouts; and atlases). These layers can be of any size and will be available for viewing from your test WMS by anyone using a WMS compliant web application or installed program (for example, Google Earth, World Wind, MicroImages' extension of Google Maps, TNTmap Viewer, TNTmap Open, or anyone else's WMS-compliant client) anywhere on the Internet or your local intranet. For more information on setting up and using your test version of TNTserver 2006:72 see the Technical Reference Manual for Installation, Management, and Operation of TNTserver 2006:72 and TNTmap 2006:72, and then subsequently consult MicroImages FREE technical support.

For a list and review of WMS viewers see the color plate entitled TNTmap 2006:72: Comparison of Web Map Service (WMS) Viewers.

For color plates illustrating the operation of other FREE WMS-compliant clients see <http://www.microimages.com/product/tntserver.htm>.

To locate sites publishing maps, images, and other geodata see the color plate entitled TNTmap 2006:72: URLs for Web Map Service (WMSs) and Viewers.

FREE Generic Use of TNTmap.

TNTmap is FREE and has been designed to operate as a web application via Safari, Firefox, Opera, and Internet Explorer (V7 recommended) on any platform they support including Mac, Windows, Linux/Unix, and Solaris. TNTmap is also available as an executable program for downloading and local installation for Windows and Mac systems. TNTmap is not copyrighted, encrypted or otherwise protected from your modification or alteration. TNTmap 2006:72 has been created using AJAX web application program-

ming (JavaScript, HTML, XML, CSS [Cascading Style Sheets], and JSON [JavaScript Object Notation]).

TNTmap provides a generic Google Maps viewer extension with enhancements from MicroImages such as a zoom box, a measurement tool, operation as a widget or installed application, and so on. It also permits the use of Google Map's location services and map and image layers with geodata layers published by any web site's WMS.

TNTmap launches your installed version of Google Earth or World Wind and overlays WMS layers you have selected from any web site's WMS.

TNTmap provides MicroImages' TNTmap Viewer and TNTmap Open for viewing composites of map, image, and geodata layers from any WMS-compliant site.

TNTmap is automatically installed as part of the installation of a TNTserver. Alternatively the web application or installation package for TNTmap can be obtained from www.microimages.com/TNTmap/. For more details on the operation of this product see the [Technical Reference Manual for the Installation, Management, and Operation of TNTserver 2006:72 and TNTmap 2006:72](#)

FREE Generic Use of TNTmap Builder.

The Builder component of TNTmap is a WMS catalog service, a WMS browser, and a WMS atlas composer. The TNTmap Builder component provides the tools you need to browse to and select layers from multiple WMS sites and launch any of the viewers supported by TNTmap to use these layers.

After you have used the Builder to assemble a set of layers, these connections to WMSs, your current viewpoint, and the viewer being used can be saved as an atlas for later reuse in that viewer, just as if you reassembled it in the Builder. The atlases you save are context files (*.cml) if you are using any OGC compliant WMS viewer including TNTmap Viewer or TNTmap Open, as KML files (*.kml) if you are using Google Earth via TNTmap, as an HTML mashup file (*.htm) if Google Maps is launched via TNTmap, and as an XML file (*.xml) if World Wind is launched via TNTmap.

You can use the Favorites tabbed panel in TNTmap Builder to revisit and restart any of the atlases you have saved if you are using an installed version of TNTmap. You can design atlases, save them, and incorporate their access and use into your web pages (see www.microimages.com/TNTmap/StateOrthos.htm for an example). You can incorporate password secured WMS layers managed by TNTserver into your atlas (see microimages.com/tntmap/lancasterpassword.htm for an example). You can send the context file to your friends, associates, or clients so they can use the same atlases.

2007:73 Product Release.

The features for the next TNT release are beginning to be tested. Color plates illustrating its most important features will now be appearing periodically via the News at microimages.com. A detailed but preliminary list of the new features planned for release in this version will be published for your review in the next 2 weeks. The following are just some of the highlights from this list.

The integrated use of geotagged photos (photos with latitude/longitude coordinates) is just one of several exciting new activities already implemented in the development version of 2007:73. It is available now with the following features for your testing and critique.

- Directly use JPEG image with the geotag recorded in EXIF tag.

- Add geotags to photos from time correlated GPS logs. An SML script with similar capabilities is also provided for this for your modification/extension.
- Insert geotag information into photos' EXIF headers.
- Photos can be stored as JPEG images (in other words, blob fields) in records in a TNT internal or Access database.
- Thumbnails of photos are optionally made in a second blob in same record.
- Attributes of photos also in database.
- View photo blobs for records in Database Table view as ImageTips on field or in new Photo view window and review photo's EXIF tag contents in an optional 2nd window.
- View photo in blob for Single Record view using photo view window.
- Photo viewer opened photo symbols displayed as pin map layer.
- ImageTips pop in as thumbnail views with added text such as prefix and suffix (similar to DataTips and GraphTips).

Another feature being implemented now is the capability for any TNT analysis product, including the FREE TNTatlas, to add layers acquired via the Internet or Intranet to your TNT display. This will add another layer type selection choice in your TNT product that will permit browsing to and selecting WMS layers. These WMS images will be added to your current view of TNT objects and any directly supported geodata files. You will be able to try this using any WMS but, as noted above, you can also set up a test version of TNTserver to publish your TNT objects or other geodata files for test access using its Web Map Service.

Version 2006:72's feature to directly launch a snapshot of your view into Google Earth has proven to be very useful. Paralleling this, version 2007:73 will subsequently permit launching Google Earth to open to a vertical view of its image and other contents of the same geographic area as your current TNT display. This will permit you to directly start Google Earth so you can move around and view its coverage of the area of the complex geospatial view you have composed in your current TNT view.

Please remember that everyone authorized to use the current version (2006:72) of a TNT analysis product is automatically authorized to download and use each weekly-revised development version (2007:73)). This FREE 30 day use begins the day it is posted for download. You can extend it for the next 30 days each time you patch your development version.

You can also help design your version 2007:73 TNT analysis product by installing this development version now and making your suggestions for the final design of the features scheduled to appear in the official release version. This is also a good time to begin to use the new error report form via Help/Contact Support from TNTmips' menu bar to make sure the old and new features critical to your activities are operating correctly. The 2007:73 version of this tool now provides a built-in activity recorder that easily records and sends us a movie to illustrate your test results or new feature ideas.