

TERRATOOLS 2.0[®]

What's New in TerraTools 2.0

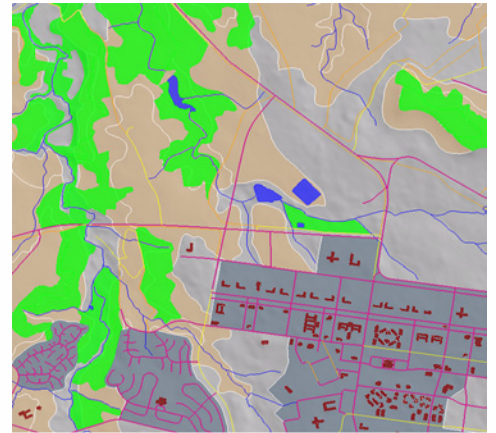
OmniWizard™

In addition to industry-leading automation that you have come to expect with each new TerraTools release, TerraTools 2.0 adds a powerful suite of user interface capabilities allowing novices and experts alike to rapidly exploit GIS data, imagery, and models for high-fidelity real-time visualization.

Increased functionality and user friendliness

OmniWizard™:

The TerraTools **OmniWizard** provides both a flexible and powerful graphical interface for data import and inspection, and fully automated TerraTools project flow graph generation. These combined capabilities allow users to quickly and easily select data for processing, choose desired feature modeling and terrain generation options, and create and execute a TerraTools project. OmniWizard settings can be saved and reprocessed, allowing rapid iteration and customization of projects. Novice users can quickly create high quality visualizations, while experienced users benefit from rapid project creation while retaining total processing control in the TerraTools process flow graph.

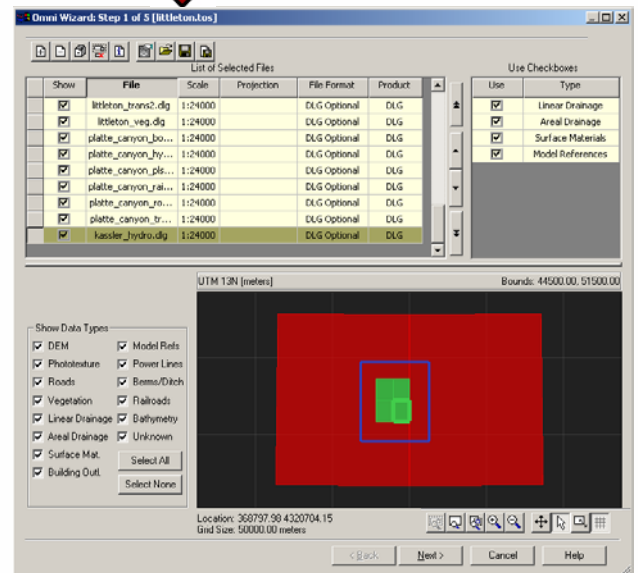


Full coordinate system support:

TerraTools now delivers extensive coordinate system, projection, and datum support with fully automated internal coordinate conversions. Input feature data, imagery, and models with disparate coordinate systems are ingested and converted to a common user-selectable database build coordinate system. Support includes geodetic, UTM, state plane and projected grid systems.



Source Data Ingest
to OmniWizard



Process flow graph simplification tools:

A new **Macro Node** capability allows users to collapse a set of nodes in the process graph into a single node, to simplify inspection and editing of TerraTools projects. Macro nodes can be opened, inspected, edited, and executed in exactly the same way as existing TerraTools nodes and graphs, delivering total control of the configuration of your TerraTools projects.

New Import and Modeling Tools

Improved building modeling tools:

TerraTools now contains a new roof generation tool which automatically constructs a peaked and gabled roof for an arbitrarily complex building footprint shape. In addition, TerraTools now supports the use of imagery to automatically phototexture building rooftops, a particularly useful feature for enhancing visual fidelity when high resolution orthophotos are available.

Full Coordinate
System Support

Process
Flow Graph
Simplification
Tools:
Macro Nodes

Improved
Building
Modeling Tools

Increased Automation for Import Feature Data

Enhanced Geometry and Terrain Data Import

Native CTDB Export

Still Frame Export for Movie Generation

TSGfly Viewer Enhancements

Increased automation for import feature data:

TerraTools 2.0 contains additional process nodes to automatically derive model references from attributed feature data and place appropriate models in the visualization database. TerraTools 2.0 also includes automatic processing of NIMA Digital Nautical Chart (DNC) data, to complement its extensive support for all NIMA VPF-based products.

Enhanced geometry and terrain data import:

2.5D feature data can now be ingested directly into the TerraTools TSG (Tiled Scene Graph) format, for direct use as model geometry for model placement. Triangulated irregular networks (TINs) can be ingested and converted to DEMs, to support merging of high-detail TIN data with existing DEM data as well as direct processing through the state-of-the-art TerraTools ITIN (Integrated TIN) generation engine.

New Export and Inspection Tools

Native CTDB export:

TerraTools now supports native CTDB format 7 export on Windows platforms. Users can directly write ModSAF and OTB compatible CTDB with full vector feature representation, routing networks, and models. TerraTools CTDB is fully correlated with other TerraTools output options including OpenFlight® and SEDRIS as well as with our native Tiled Scene Graph (TSG) format. Ranging from simple constructive simulation runtimes to complex MOU databases, TerraTools provides rapid generation for your computer generated forces applications.

Still frame export for movie generation:

Path files in TerraTools can now be used to automatically render TIFF snapshots of a visualization, which can be directly ingested into external movie creation software packages to compile high-quality movies. Standard movie sizes including NTSC and PAL DVD are supported, as well as configurable antialiasing and lighting parameters.

TSGfly viewer enhancements:

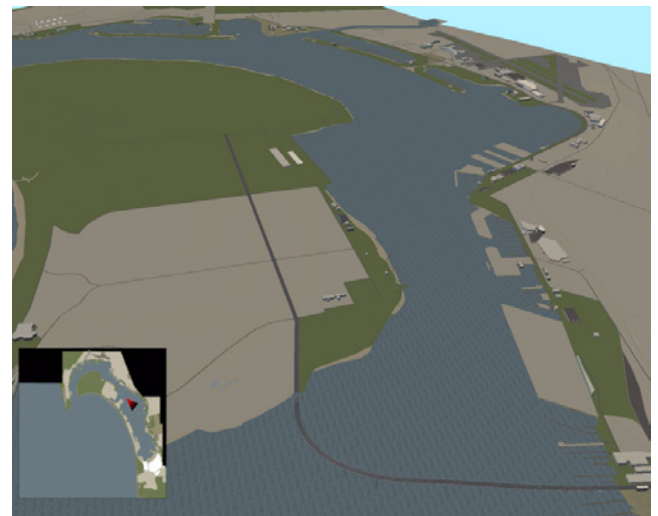
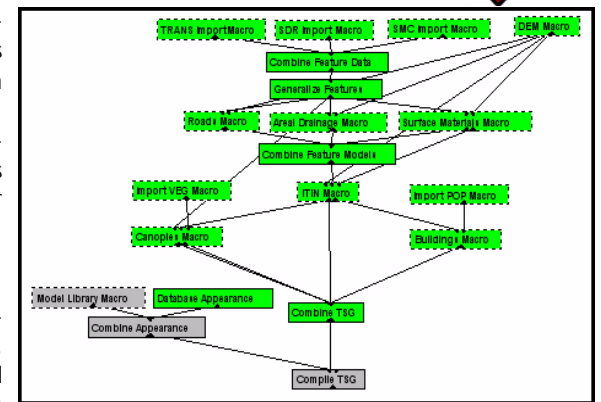
TSGfly, included with your purchase of TerraTools, is a freely redistributable real-time viewer. It now supports both static and moving map displays during database fly-throughs, using digital raster graphics, orthoimages, or OrthoCam™ images for the map display. TSGfly also provides a new capability for dynamically saving viewer position and look angle, allowing quick and simple inspection of points of interest.

TerraTools 2.0 is supported on Windows NT/2000/XP workstations with OpenGL graphics cards. With this second major upgrade release in its TerraTools product line, TerraSim continues to demonstrate its commitment to ongoing technology enhancements which improve functionality, productivity, and ease of use for its customers.

To learn more about how TerraTools 2.0 can fulfill your advanced geospatial visualization requirements, contact us at:



Macro Node Generation



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