

TERRASIM

CREATE. AUTOMATE. SIMULATE.

TERRATOOLS® CORE

Working from an extensive variety of input cartographic data and imagery, TerraTools automatically builds high-fidelity geospatial databases to your content specifications. With our advanced flowgraph architecture, you can compile, review, and publish correlated large area databases in a matter of minutes to hours. TerraTools is 64-bit native, multithreaded, multi-core ready, for up to 8 parallel processing threads with a single runtime license.

You can also customize the software by adding application specific plug-ins. Our product offerings can be mixed and matched to provide you with the fastest and lowest cost solution that best addresses your application requirements.



KEY TERRATOOLS CORE FEATURES

Feature generation and integration:

- Linear and areal feature integration with terrain surface
- Automatic model placement and scatter within areals
- Automatic building interior generation
- Urban Details™ database intensification

Texture and model support:

- Texture and model libraries packaged with TerraTools
- Texture import for models and surfaces
- Phototexturing using ortho and georeferenced imagery
- External model import (3ds Max®, OpenFlight®)
- Export models to P3D for VBS2, VRML, 3ds Max and Google Earth

Cartographic data import:

- TIFF, Geotiff, ECW compressed imagery
- ESRI shapefile (2D/3D) and Personal Geodatabase, DLG, DXF, XML
- GRIDASCII, GRIDFLOAT, ASTER and USGS DEM

Intelligent feature generalization:

- Maintains feature topology and attribution
- Automatic feature buffering and layer processing

Process simplification tools:

- Templates for standard database processing
- OmniWizard guides data import and processing
- Extensive coordinate system support avoids translation
- Macro modes used to simplify project flowgraph

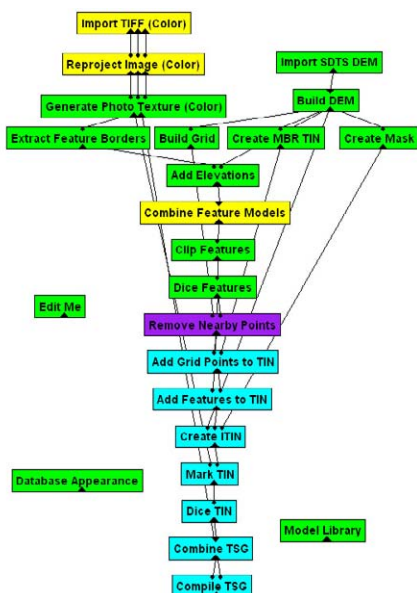
Database diagnostics and statistics:

- Terrain surface quality metrics
- Overload and polygon budget reporting
- Automatic localization of compilation errors

Visual optimization features:

- Selective fidelity-polygon budget control
- Multiple levels-of-detail (LOD) construction
- Flexible memory-paged load module sizes

TERRATOOLS PLUG-INS



Import

NGA Import Plug-in: All standard geospatial formats (Vector, Raster, DTED)

Export

CTDB Database Plug-in: OTB and JSAF formats 8.5 and 8.7 with MES buildings

JCATS Database Plug-in: JCATS format 7.1 and higher

MÁK GDB Plug-in: GDB Export for VR-Forces® and MÁK VR-Vantage

OneSAF Plug-in: All versions of OneSAF Terrain Format (OTF), including OneSAF EDM

S1000 Database Plug-in: S1000 database creation from TerraTools project data

VBS2 Plug-in: Support for all widely released versions of VBS2 terrain from source data

OpenSceneGraph Plug-in: OSG versions 2.4, 2.6, and 2.8 as both .osg and .ive files.

Steel Beasts Professional Plug-in: Exports terrain maps for use in Steel Beasts Pro.

X-Plane Plug-in: Exports databases for use in X-Plane flight simulator

Database Interchange

SEDRIS STF Export Plug-in: SEDRIS 3.0, 4.0, 4.1 transmittal with EDCS 2.9 and 4.2

OpenFlight Export Plug-in: Export TSG to OpenFlight versions 14.2, 15.4, 15.8, 16.x

Source Data Preparation

DEMTools Plug-in: DEM fusion - merge, fill, correct, register, reproject

GISLink Plug-in for TerraTours: Links source data and multimedia to 3D visualization

OTHER TERRASIM PRODUCTS

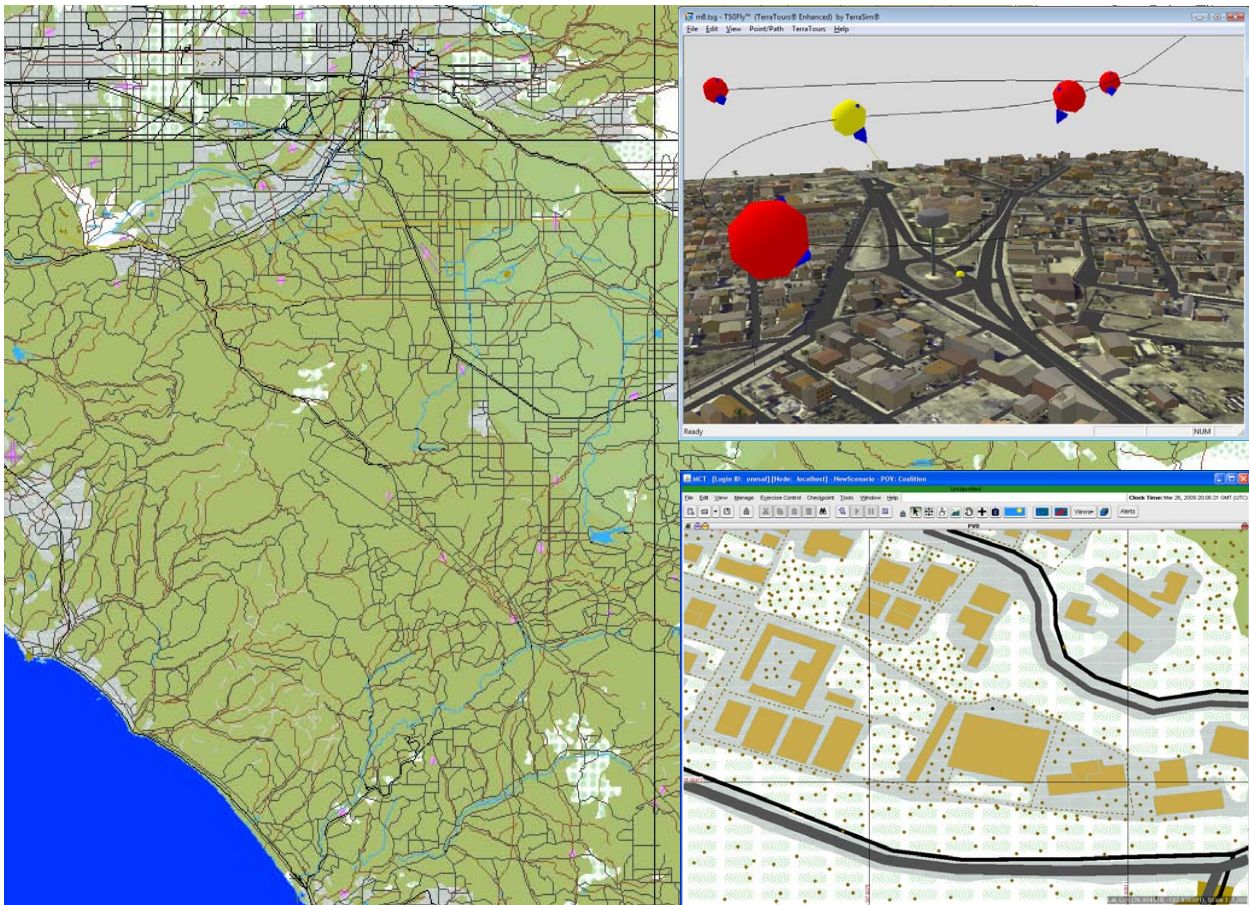
3D Geospatial Viewers: TSGFly™ and TerraTours®

TerraSim 3D graphics technology is embedded in our realtime 3D viewers, which provide high performance visualization on low-cost graphics cards. Using our Tiled Scene Graph (TSG) format, we support demand paging for large area databases along with multiple levels of detail for terrain geometry and 3D models.

Source Data Preparation Standalone Products

TerraSim develops source data preparation products that reduce time and complexity in converting raw imagery to geospatial information. These tools export data in standard industry formats and are tailored for use in TerraTools Core.

- **DEMTools from TerraSim®:** a processing package that manipulates DEM data to suit your visualization needs. It is available as a plug-in component to TerraTools Core or as a stand-alone extension to ESRI ArcGIS®.
- **RoadMAP from TerraSim®:** a stand-alone semi-automated road network extraction system that corrects road network data and exports it as a set of ESRI shapefiles.
- **TerraSim Xtract™:** a stand-alone product that imports legacy databases and models for reuse as automatically enhanced geospatial data. Xtract exporter to the widest variety of third-party data processing products.



CORPORATE BACKGROUND

A US-owned, privately held corporation, the company specializes in the development of products with state-of-the-art technology for rapid, high-fidelity geospatial visualization. Our technology is integrated into flexible and easy-to-use tools that support visual simulation, constructive simulation, and interactive 3D GIS. As a leading geospatial technology company, TerraSim's business model encompasses sales and support of commercial off-the-shelf software, geospatial visualization services, and advanced research and development.

www.terrasim.com | 412-232-3646 | sales@terrasim.com

