

TERRA VISTA

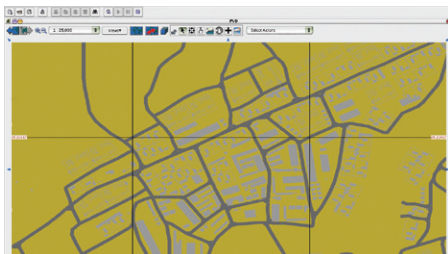
CORRELATED TERRAIN ENVIRONMENTS FOR MODELING AND SIMULATION APPLICATIONS

TERRA VISTA OUTPUT COMPILERS

- Terra Vista OneSAF OTF output compiler (for use with OneSAF Objective System (OOS))
- VBS2 output compiler
- Common Database (CDB) output compiler
- Terra Vista CTDB output compiler
- Terra Vista JCATS terrain output compiler (DAF format)
- Terra Vista JSAF output compiler
- Terra Vista SEDRIS output compiler



Correlated terrain output generated by Terra Vista for STAGE.



Correlated terrain output generated by Terra Vista for OneSAF.

ACCURATE AND CORRELATED TERRAIN GENERATION SOFTWARE

Terra Vista has all of the essential features required for the development of the most basic to the most sophisticated terrain applications. In addition to providing the highest level of correlation in more formats than any other terrain database product in the industry, Terra Vista also ensures support, through the use of ‘common source’ and ‘common processing’, for all major SAF/CGF formats, including OneSAF, CTDB, and JSAF. Through a comprehensive graphical user interface (GUI), rule-based construction methods, template-based automation, parametric modeling techniques, and expert systems-assisted configuration, users can construct databases faster.



Image courtesy of B-Design3D, Orthophoto and GIS data courtesy of SwissTopo

5 REASONS FOR CHOOSING TERRA VISTA

1. Highest Level of Correlation

Terra Vista is the leading terrain generation tool on the market with the highest level of correlation between SAF and visual databases. This level of correlation is achieved through internally developed SAF and Visual output compilers. These compilers use a single terrain representation that ensures correlation between multiple SAF formats, such as OTE, CTDB, and JCATS, and visual formats, such as OpenFlight and CDB. In addition, since Presagis develops all of the SAF and Visual output compilers internally and does not rely on 3rd party APIs, Terra Vista customers are able to execute a single database build for multiple outputs without sacrificing correlation.

2. Presagis Portfolio Integration - Aeria

With the integration of Creator modeling capabilities, Terra Vista can now parametrically create complex 3D buildings and bridges from standard GIS source data using Creator Wizards. This unique integration allows Terra Vista users the ability to create various bridge designs and customized buildings with various roof styles using the Creator Bridge and Building wizards.

Presagis is committed to the on-going integration of Creator and Terra Vista as part of the Presagis Aeria vision for an integrated workflow for the modeling and simulation community. As a result, Terra Vista customers will continue to benefit from the many functions and features already available in Creator with the release of future versions of Terra Vista.

Terra Vista also integrates with several other Presagis products and can now generate Vega Prime ready output and terrain output for use with AI.implant.

3. Faster Processing and Reduced Build Times

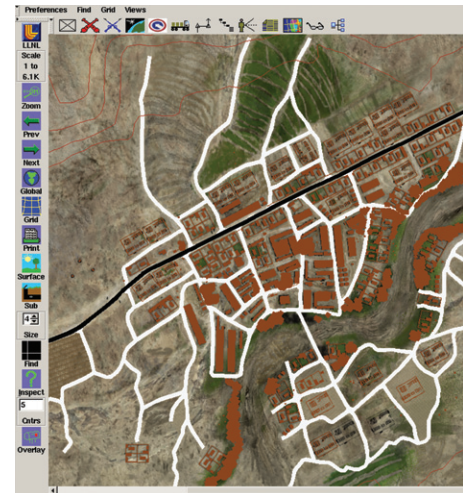
The Terra Vista Multi-Machine Build (MMB) capability allows for the distribution of very large, complex, and dense terrain databases within a networked environment for faster processing and reduced build times. With MMB, visual and SAF databases can be distributed to multiple compute nodes on a network with a single execution of the tool. Unlike other terrain tools on the market, Terra Vista has been tested and fielded with the capability to generate databases of 100+ GeoCells distributed to 256 individual compute processes with a single execution.

4. Widest Import/Export Options

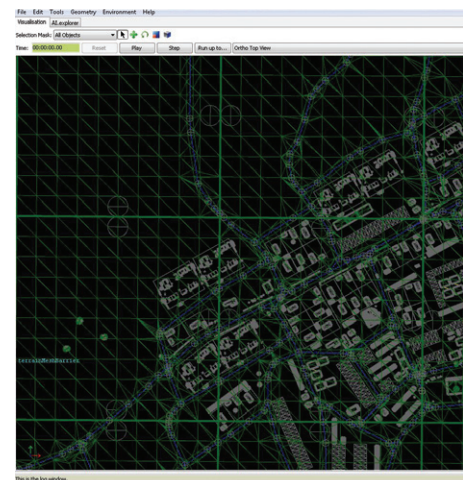
Terra Vista also has more import and export capabilities than any other tool on the market. For the compilation of numerous visual and SAF formats, Terra Vista is able to import a wide range of GIS data formats and specifications for use as source data for the creation of complex visual and SAF databases. Terra Vista DART also has the unique capability to import existing visual and SAF formats for reuse. Users are able to import existing legacy databases, such as OTE, CTDB, JCATS, and OpenFlight, and to then deconstruct the SAF or visual format back into usable GIS source data. This allows users to either update and reuse existing static databases with new content or to output to other correlated SAF/visual formats without having to re-create the entire database from scratch.

5. Support for Open Standards and Formats

To maximize reusability and to help lower user costs, Terra Vista also supports and embraces open standards, including OpenFlight and Common Database (CDB).



Correlated terrain output generated by Terra Vista for JCATS.



Correlated terrain output generated by Terra Vista for AI.implant.

COMMON DATABASE (CDB) SUPPORT

All levels of Terra Vista can now read and write to a Common Database CDB 3.0 dataset.

The CDB specification is unique because it is an open database format, a source data repository, and a runtime publishing format all in one.

In the past, an offline or runtime processing approach utilizing disparate tools was used to compile databases. With this approach, different databases were created for each runtime system, correlation issues were common, and, when the overall application needed updating, the updates had to be implemented in each of the databases. Also, if the system suffered correlation problems, it was difficult to isolate and resolve such issues.

Now, with CDB, all clients use the same database and Terra Vista can be used to create or edit the database as necessary. In addition, the database can hold unlimited content and may be rapidly updated.

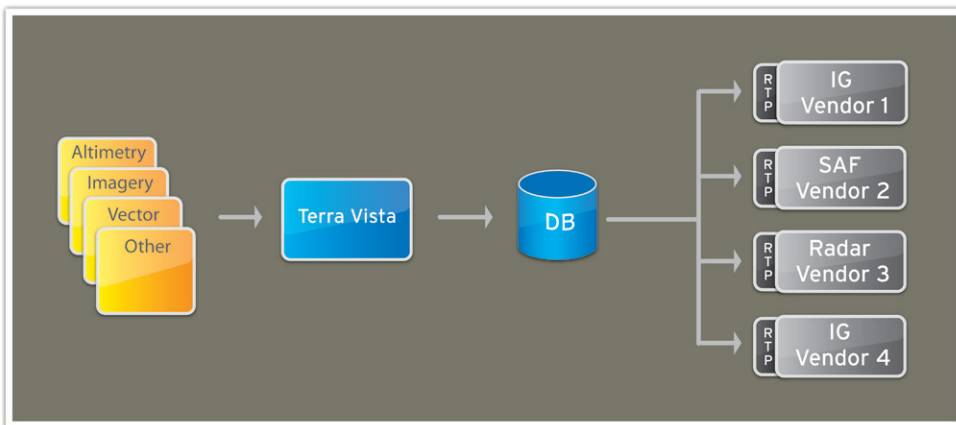
Other CDB Advantages:

- Users may choose to add support for CDB within their existing systems and can then benefit from those advances.
- Databases conforming to the standard can be reused as well as interchanged and shared between end users with CDB-compliant runtime systems.
- Open specification - can be implemented by anyone.
- A single runtime database for all clients in order to ensure correlation.
- CDB can reduce the production timeline by eliminating redundant implementation work.

NEW IN TERRA VISTA 6.2

- Faster build times for urban and large area terrain databases.
- Enhanced road features to provide new road and intersection modeling capabilities.
- Enhanced visual realism through new image blending & feathering capabilities.
- New Buildings with Interior Wizard.

Now, with CDB, all clients use the same database and Terra Vista can be used to create or edit the database as necessary.



CDB provides a simple yet compelling modeling and simulation database structure for the elimination of redundant data, for streamlining the delivery of content, and for the rapid execution of modifications to the database.



Terra Vista generated CDB terrain.

TERRA VISTA LICENSING OPTIONS

Terra Vista Base

Terra Vista Base is the entry level Terra Vista product. With basic terrain generation capabilities, Terra Vista Base includes support for OpenFlight, CDB, and TerraPage.

Terra Vista ProBuilder™

Terra Vista ProBuilder is an advanced terrain modeling software that enables developers to generate correlated visual, sensor, SAF/CGF, and analytical 3D databases. Providing the industry's highest level of correlation, fastest production times, and most powerful production environment, Terra Vista ProBuilder includes all of the features in Terra Vista Base plus more output options and key integrations with productivity options, including ETM, TeamWork, and Multi-Machine Build (MMB). In addition, ProBuilder and DART users can extend capability or add support for proprietary input/output formats with the TerraVista API.

Terra Vista DART™

Providing a super-set of the capabilities found in Terra Vista ProBuilder as well as additional unique functions not found in any other terrain generation application on the market today, Terra Vista Database Automated Re-use Technology (DART) is the most sophisticated Presagis terrain software. DART supports the re-use of legacy databases, the production of new databases, and the industry's highest level of correlated outputs through the use of 'common source' and 'common processing'. Also, by combining multi core processing with DART 'MMB In a Box' technology, users can set off up to two simultaneous back end build instances on the same machine.

Multi-Machine Build™ (MMB)

When generating correlated 3D databases, MMB acts like a LINUX Beowulf cluster to distribute the computational processing. MMB is designed to address customer concerns in several areas:

- Faster production to support time sensitive applications.
- Faster and scalable production to lower personnel costs—MMB makes current employees more productive by allowing the same number of employees to work on more projects in the same amount of calendar time.
- Faster production on demand when users need to make up for lost time or limit the impacts to program schedules, which cannot be accomplished by simply adding more people to a program.
- Add and remove computational resources during the build process in order to use more compute resources during night time hours and to reallocate them to other tasks during normal work hours.



Correlated terrain output generated by Terra Vista for JSAF.

TERRA VISTA PROGRAMS AND USERS

Programs

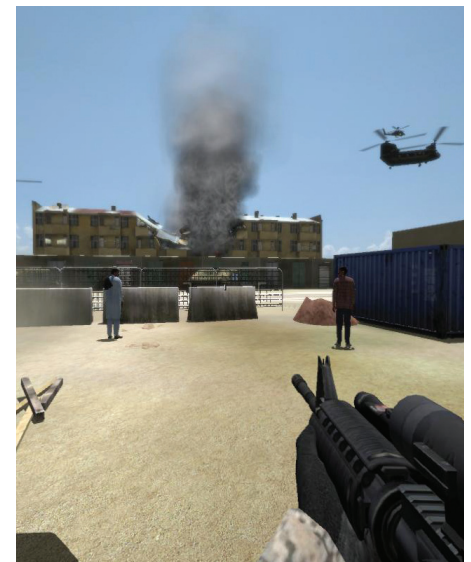
- Joint Strike Fighter, CCTT, AVCATT, B-2, F-117, COVE, SEAL Delivery Vehicle, and Army Battle Lab Experiments. Also used by USSOCOM, NATO, DoD, USA, USN, and many others in support of INTEL and for Operational support around the globe.

North American Users

- Lockheed Martin, Northrop Grumman, CAE, Raytheon, Rockwell Collins, and many others.

International Users

- BAE, Selex, AgustaWestland, ESG, GE-Fanuc, Krauss-Maffei Wegmann, Kongsberg, SAAB, and many others.



Correlated terrain output generated by Terra Vista for VBS2.