

Sextant Components SDK

Automatic Geo-3D Example

Slash the time it takes to model urban 3D databases

Using some of the components in the SDK, the automatic Geo-3D example illustrates the use of the built in wizard interfaces to enable your application to rapidly create a logical model of objects in the environment from vector data files (point, line or area) of various formats (ESRI shape, VPF, MapInfo, AutoCAD), generate a 3D terrain model from the user's choice of DEM formats, (including DTED), and visualize the result in 3D. The example, built in Visual Basic, shows how to easily manipulate a wide variety of commercial and military, raster and vector GIS data formats including CADRG, CIB, Geo-TIFF, VPF, and shape files.

Sextant Components in your application

Incorporate years of 3D GIS expertise to enable your location-based application.

Leverage tested urban geo-specific modeling solutions.

Utilize standard COM server technology.

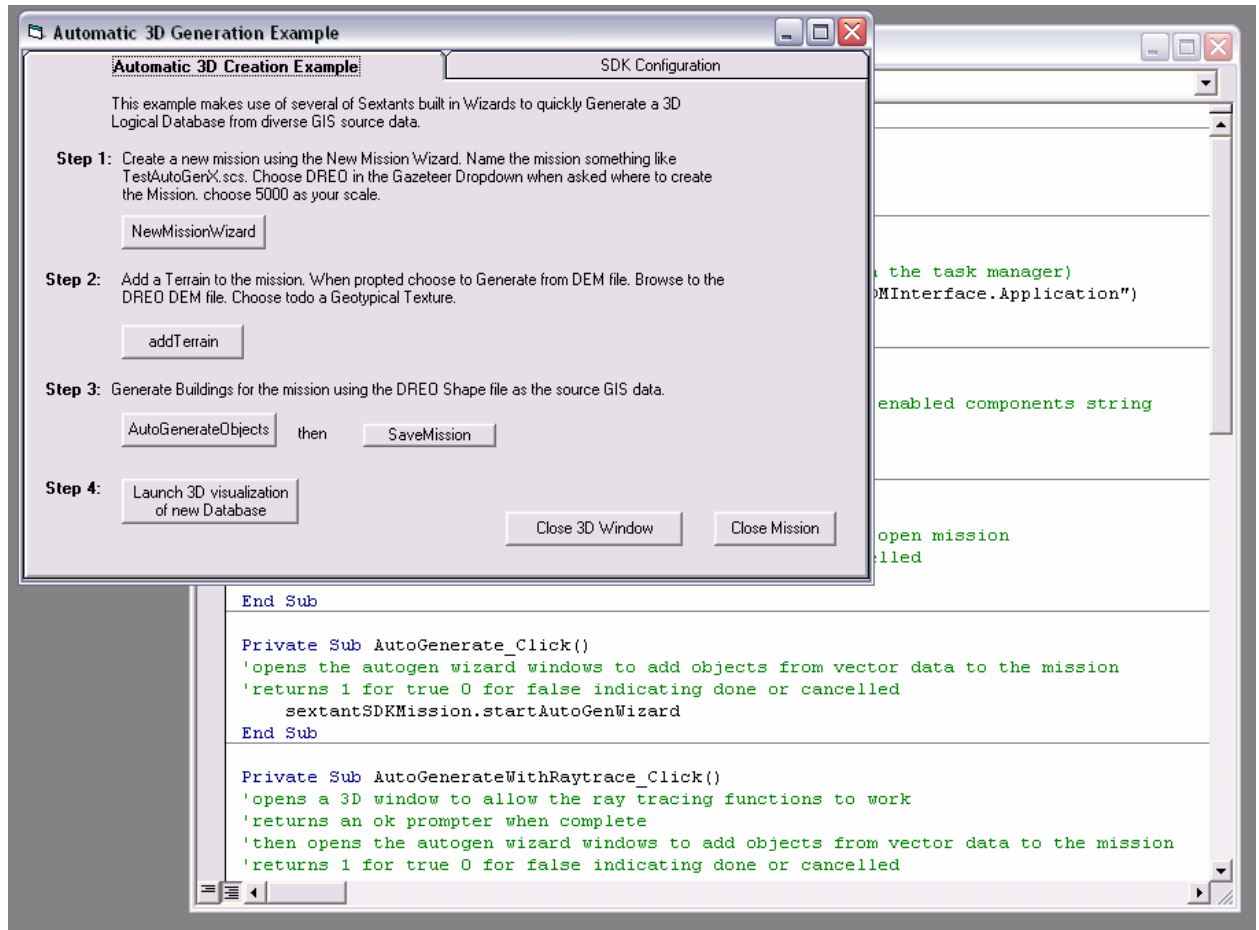
Out-source maintenance of part of your application.

Insert geo-specific 3D solutions into existing applications.

Access wizard interfaces for user interaction.

Complete programmatic access to the useful information in a sea of geo-spatial data.

Let your application **conform** with MIL-STD-2525B for military symbols - pass in a window handle and symbols are drawn!



Other Programming examples include:

- How to add a building detailer to your application to model buildings inside and out to an amazing level of fidelity
- How to export the logical database to other file formats
- How to get geometry and texture information from models in the logical database

http://www.objectraku.com/components/01components_main.html

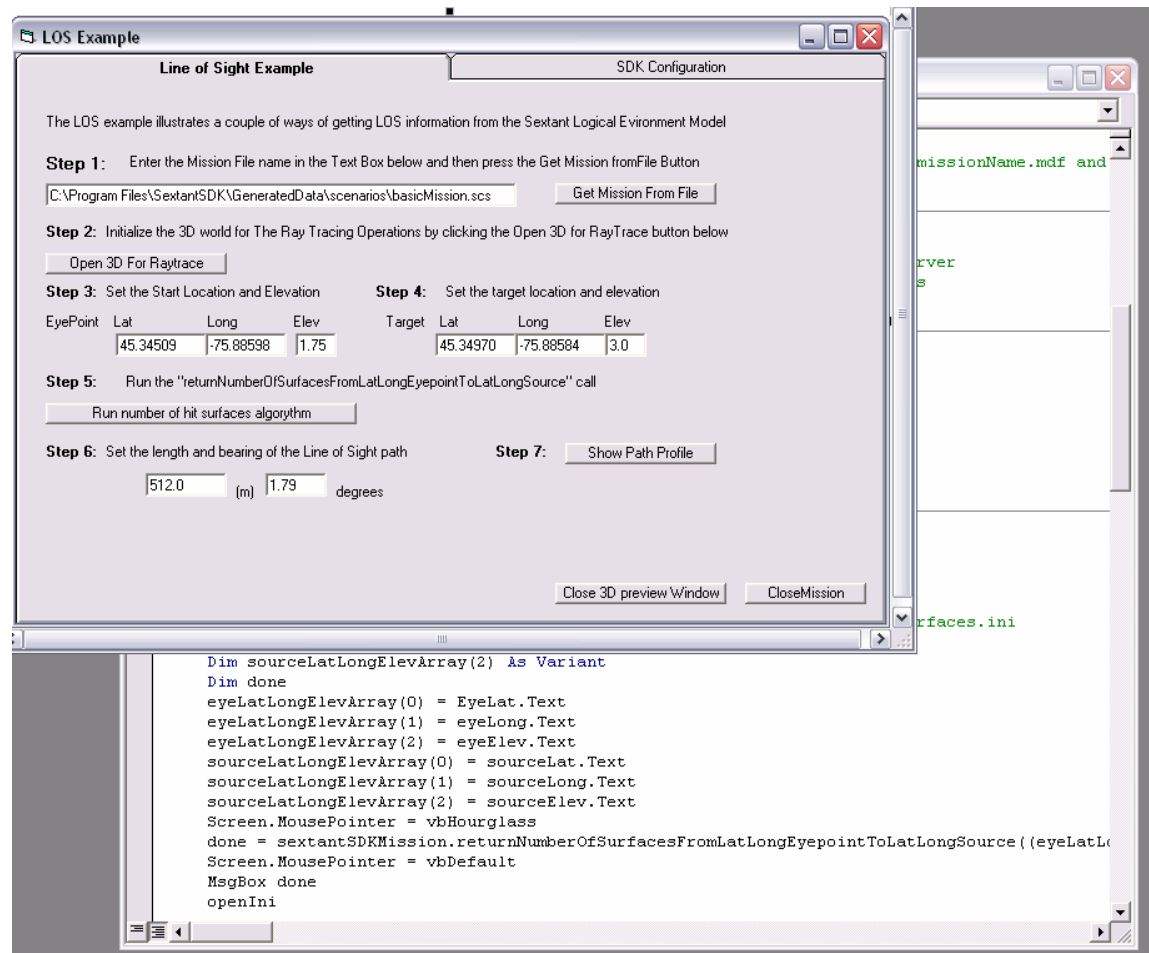
Read more about the Sextant Components SDK online

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Line Of Sight analysis example

Urban ops are 3D ops

Using some of the components in the SDK, the line of sight analysis example illustrates the difference between a simple visible not visible type of analysis done between 2 points in 3D and a more volume oriented approach that shows denied areas above the ground as well as on it. Lines of Sight can be calculated from within building structures and will respect any apertures in the building. This example also shows a radio propagation type scenario, the call returns the number of surfaces (building walls, tree lines) that the line of sight intersects with. The number of surfaces can be used to help determine signal strength from one place to another.



The Sextant suite of software tools had its origins in the US DoD's MOUT ACTD and is now available in component form for integration into your application.

Selected as the capability for Virtual Mission Planning, Sextant was put through rigorous hands-on testing by soldiers and marines in over 3 years of field experiments.

The result of that process was a tool kit designed and proven effective for operators in the field requiring rapid visualization and analysis of urban environments for mission planning and rehearsal.

Sextant has been deployed in OEF as well as OIF I, II, and III. Users in the field create mission specific databases, often refining foundation data provided by NGA, TEC, or HHQ.

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