



Object Raku Technology Inc
 Point of Contact:
 Mr. Mike Parlow
 604 728 7258 x3
parlow@objectraku.com
www.objectraku.com

Quotes:

"Sextant is a utility that is worth its weight in gold...This software saves lives."

GySgt P. M. Hegeman,
 USMC, I MEF

"We have been using Object Raku for almost 2 years at CFJIC. We continue to find it extremely useful in support to operations."

Major J. W. Klatt
 Advanced Exploitation
 Section
 Canadian Forces Joint
 Imagery Centre

"The Raku Symbol Server allowed us to go to market quickly with a high-quality, out-of-the box solution for 2525b symbology. Object Raku's support has been excellent."

Kevin Flood,
 Director, Product Mgt
 Analytical Graphics, Inc.

"The robustness of the Sextant product and the creativity of the Object Raku staff has enabled DRDC Ottawa to investigate new EW concepts for the Canadian Forces."

Derek Elsaesser
 Tactical EW Systems
 Group
 Communication and Navigation
 Electronic Warfare
 Section
 DRDC-Ottawa

Object Raku Technology Inc. of Vancouver, BC is focused on the fusion of geospatial data and 3D visualization for the benefit of our civilian, government and military customers. Through the company's object-oriented solutions to complex GIS challenges, remarkable breakthroughs have been achieved in the field of rapid 3D terrain generation and mission rehearsal with a special emphasis on urban opera-

tions. Object Raku's software has been fielded for real-world military mission planning and intelligence operations since 2000. Object Raku's clients include the US National Geospatial-Intelligence Agency as well as operational units within the US Army, Marine Corps, and Navy. Canadian clients include DRDC and the Canadian Forces Joint Imagery Centre.

Technology Solutions include:

Sextant Visualization, Analysis and Planning suite

- Virtual Warfighting Tool (Military)
- Rapid Urban Contingency Visualization (Civilian First Responder)
- Geospatial Package
- Simulation Package
- Crowd Authoring Module
- LIDAR Feature Extraction Module

Sextant Components Software Development Kit

- Core Creation Tool Kit
- Building Construction Tool Kit
- Automatic Geo 3D and Terrain Tool Kit
- Analysis Tool Kit
- LIDAR

**Mission Rehearsal Central
 Mission Rehearsal Central – DIS
 Raku DIS Component
 Raku Symbol Server**

Services Solutions include:

Raku Geo Services

Object Raku is in the business of providing innovative software solutions to end users and systems integrators. Object Raku employs off the shelf technology and performs customization to meet customer requirements in the fields of 3D visualization, real time data acquisition, tracking and database management.

Select Object Raku for your next GIS development project. Our team has extensive background in geospatial systems programming including a comprehensive knowledge of ESRI components, Global Mapper and Google Earth. Ask us about adding georeferenced 3D to your mapping application.

Raku Geo Modeling

Object Raku is your best option for high quality terrain creation at realistic prices. Our advantage lies in the award-winning Sextant software suite used for the majority of these efforts. With Sextant's speed of creation and broad range of usable data inputs, our staff and licensed users have a serious competitive advantage. Projects can output to a variety of 2 & 3 dimensional formats including shape file, VRML, OpenFlight™, and kml (Google Earth).

At Right:

Sextant VWT™ – On the left is the digital map view with the corresponding 3D view on the right. VWT includes full 2525B military symbology as well as Line-of-Sight and Range fan analysis tools. Depending on mission requirements, users can detail windows, doors, stairs and subterranean features.



Use Sextant Components to:

Automatically and rapidly create 3D databases from attributed GIS vector data.

Create, detail & texture **complex building models**.

Write your own **geometry exporter**

Find the **useful** information in a sea of geospatial data.

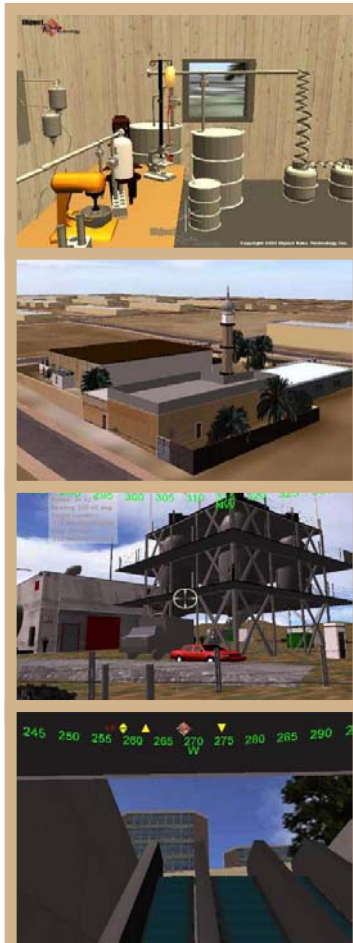
Create a DEM of the urban landscape including buildings at LIDAR resolutions to pass to your analysis algorithms.

Ask the urban environment to return **line of sight** coverage patterns from input vantage point as an x,y,z point set.

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

Connect your application to a distributed simulation.

Output urban terrain detail, including meta-data and geometry to ESRI Shape, SEDRIS, or Openflight files.



Where does Sextant fit in?

- **Sextant is the Street-Level Component**
 - a complement to TerraExplorer, FalconView, C2PC, JBV, ArcGIS, Erdas Imagine
 - in use by Intelligence analysts, Operational planners and Topographic engineers
- **Visualize the ground-level & subterranean:**
 - Friendly and Enemy avenues of approaches
 - Key & Restricted terrain, Obstacles, CASEVAC routes, safe havens for convoys
- **Analyze**
 - Friendly and Enemy observation, fields of fire, cover, concealment, building aperture
- **Fuse**
 - Embed reports, images, network links in the 3D mission file
- **Rehearse and Familiarize**
 - Fire teams and operators can “walk the ground”, together, ahead of the operation

Sextant Components

The **Line of Sight (LOS) Server** is a component in the new Sextant Component SDK. The LOS Server provides a way for users to query the mission geometry for objects located between a specified 3D eyepoint and a specified 3D source location.

The server takes into account all buildings and objects in the mission as well as the ground terrain. The call returns:

- the number of surfaces found between the eyepoint and source point as well as
- a file containing the distance along the ray to each intersected object and the object identifier.

The file also allows the user to determine if the terrain has been intersected. The LOS Server is useful for algorithms needing to



know how many objects or buildings are in the path, for determining if terrain is intersected along a path, as well as for finding particular objects along a path

To get more information on the LOS Server, please email components@objectraku.com.