Object Raku Technology Inc
Point of Contact:
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www.objectraku.com

Quotes:

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

MSgt 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 & analysis of geospatial data and 3D visualization for the benefit of our commercial, government and military customers. Through the company's object-oriented solutions to complex GIS challenges, remarkable breakthroughs have been achieved in the field of GIS feature analysis and rapid 3D terrain generation. The speed and accuracy of Object Raku's tools translate directly to substantial time & cost savings for clients.

Object Raku's mission planning software has been fielded for real-world military mission planning and intelligence operations since 2000. Object Raku's clients include NGA, the UK MOD, as well as the US Marine Corps. Canadian clients include the Army, DRDC and the Canadian Forces Joint Imagery Centre.

Technology Solutions include:

Sextant

- The Sextant suite of tools are Object Raku Technology's flagship products for rapid geo-specific urban 3D database construction.
- Military configurations are specially suited for urban mission planning & target orientation with emphasis on the needs of small-unit-operations.

Feature Type Interpreter (FTI)

- Feature Type Interpreter (FTI) is a light-weight, stand-alone application providing fast & accurate automated feature extraction from LiDAR data. The software makes heavy use of available Graphics Processing Unit (GPU) strength and has been designed with both the novice and experienced geospatial analyst in mind. Industries that should investigate FTI's capabilities include Forestry, Defense, Utilities, Oil & Gas, and all levels of Government.
- Whatever your industry, analysts need LiDAR to become information rather than merely (point) data. Using FTI to extract individual features from the myriad of points in the cloud is the first step to actionable insight and intelligence from a particular LiDAR collection.

Raku Symbol Server (RSS)

- Raku Symbol Server is a MILSTD 2525B software component. Ideal for geospatial display, RSS provides symbols "on-the-fly" as needed rather than maintaining a crude bitmap library.
- Software developers incorporating RSS into their applications pay a developer's seat license plus a small run-time fee for deployed instances of the RSS dll.

Service 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.

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.

Feature Type Interpreter (FTI) – FTI is the LiDAR automated feature extraction complement to GIS workhorses like ArcGIS, ERDAS, and Intergraph. Rapidly analyze the data —in a very economical way—and bring up your results in your tried & true geospatial workstation.

FTI provides automated digital terrain model and feature extraction. Automated extraction includes buildings, 3 layers of vegetation, roads, and water courses. In addition to standard export options like shape files & geo-tiffs, FTI will update the source .LAS file(s) with feature classifications for each return.

In the geo-production process, FTI's speedy & accurate extraction boosts the operator's efforts to gain meaningful information from raw LiDAR data.

Imagery and LiDAR data courtesy Fugro Horizons, Inc.

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 metadata and geometry to ESRI Shape, SEDRIS, or Openflight files.

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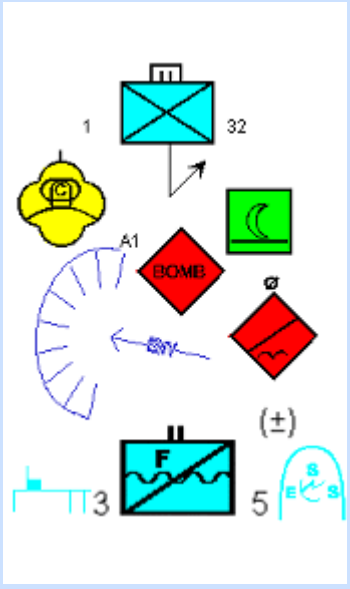
Where does Sextant fit in?

- **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

Raku Symbol Server: MILSTD 2525B



MILSTD-2525B generated by a Component

- Warfighter, MOOTW, SIGINT
- Tactical Graphics including lines and areas
- All frame & echelon combinations incl templated
- Transparent, Filled White or Black frame
- All fields for text and graphics modifiers

Choose the best output format

- GIF, JPG, BMP, TIF, PNG, EMF, SVG
- Saves to file or standard Windows clipboard
- Or have RSS draw directly on your application window

Standard COM interface

- Access using C, C++, VisualBasic 6, Javascript, VB Script
- Use with any language that supports COM
- .NET assemblies are available for .NET integration