GE
DigitalEnergy

Smallworld™ GeoSpatial Analysis

fact sheet

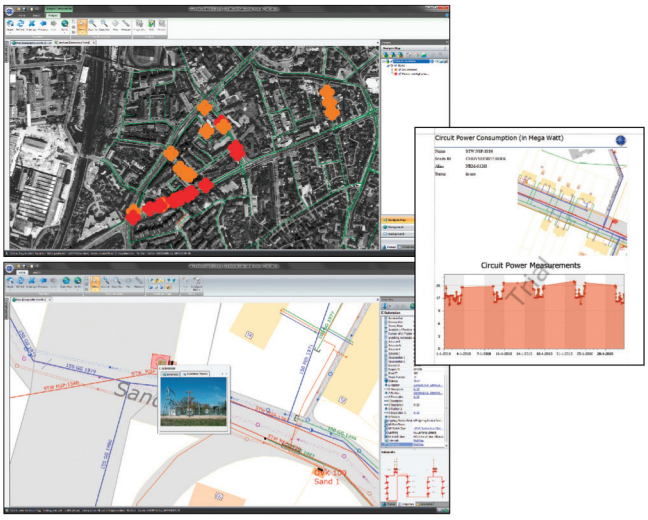
Product Overview

Smallworld GeoSpatial Analysis is a new, exciting, and easy to use business intelligence product from GE Energy Services. An integralpart of the Smallworld product suite, Smallworld GeoSpatialAnalysis offers easy and efficient access to data from distinct,distributed spatial and non-spatial systems. This data can be shared across the enterprise empowering a wide range of users with visualisation, query, analysis, and reporting capabilities.

Smallworld GeoSpatial Analysis introduces the concept of business objects, which link together spatial and non-spatial information,maps, photographs, documents, and websites in a unique and flexible way. These business objects match end-user needs and form the basis for detailed analysis and further visualisations.

Customer Value

- Added Value
  - Leverage the use of enterprise data: support cross departmental business processes through integration of data for a wide variety of users.
  - Increase agility: let end-users decide how to solve their business problems with Smallworld GeoSpatial Analysis requiring flexible configuration, rather than customisation.
  - Enable new insights into your data: uncover hidden trends and explore what-if scenarios to support faster and robust tactical, operational, or strategic decisions.
  - Enhance existing Smallworld installations, including OfficeSuites and Physical Network Inventory with a new dimension in data management, visualization, analysis, and reporting through the organization.



- Low Cost of Ownership
  - No expensive and time consuming data extraction or distribution, maintaining data integrity and actuality.
  - Easily managed and deployed in an enterprise environment,for low administration efforts.
  - Enable new insights into your data: uncover hidden trends and explore what-if scenarios to support faster and robust tactical, operational, or strategic decisions.
  - Minimal end-user training needed with Microsoft®OfficeFluent™ based user interface.

Examples of Real Life Applications

Operations Performance

Analysis can be performed to meet regulatory reporting requirements, to monitor key performance indicators, and to drive marketing campaigns for growth. These analysis examples are just a few of the many applications of the powerful tools available in Smallworld GeoSpatial Analysis.

Network Capacity Management

Smallworld GeoSpatial Analysis can provide the detailed analysis and visualisation required for network companies to optimise their current infrastructure through the correlation of potential customers and/or capacity.

Asset Investment Planning

Optimal network investment decisions can be supported through the visualization of various influencing factors with the network's status, such as, context, age, and usage. Alternative scenarios can be explored with investment budgets targeted for maximum return.

Key Features

Smallworld GeoSpatial Analysis empowers end-users throughout the enterprise, allowing flexibility to fulfill organizations' business processes. Typically the following steps are taken.

Find – Locating

- Navigate: using standard gestures
- Query: choose from predefined queries or create on the fly,using an intuitive query builder or a powerful expression language.
- Locate: use an application specific locator or a standard locator service for quick location of assets.

Examine and Visualize

- Select, measure, and inspect: Use the easy select options to inspect, measure, and highlight the objects of interest. Followsmart tags to other maps or documents.
- Filter and aggregate: Use intuitive data filtering to drill down relations or aggregate objects following relations. For example,collect the customers on a set of connections.
- Analyse: Utilize ad-hoc "what-if" analyses to quickly narrow down a set of candidates; or use specific, pre-configured analysis to produce a thematically coloured map with bar or pie charts. For example, display the lengths per material type used per area.

Create – Share the Information

- Plot: Output high quality graphical and tabular data. Use templates containing company logo, legend, north arrow, etc. Show analysis results in an automatic legend.
- Report: produce comprehensive reports that combine alphanumeric and geospatial information.
- Data Export: Create ad-hoc or wizard-driven exports in a range of formats, including MS Excel, Shape, KML, csv, or TomTom. Exports for an area can be clipped on the go.

Open, Remodel, and Configure

- Access Model – a wide range of features sources directly and maintain data integrity.
- Build user-friendly business objects: after adding feature sources, data can be integrated and aggregated, remodeled and interrelated, as if it were one single source.
  - Business collections: Created from base tables with lookups and aggregates. New information can be derived from existing data and visualized on the map.
  - Analyses: slice and dice, group, flatten, join, cut spatially, buffer, and nearest functions generate instant tangible results.

Product Options

Smallworld GeoSpatial Standard	Analysis	Professional
Find: navigate, query, placefinder	☑	☑
Examine: select, inspect, use analyses	☑	☑
Create: plot, report, export	☑	☑
Model: add feature sources, create business objects and analyses	☐	☑

Technical Information

- Supported Feature Sources
  - Databases: Smallworld VMDS 4.1 and higher, Oracle® Spatial 9 and higher, MS Access® and SQL Server 2008, ESRI® ArcPersonal GeoDatabase and ArcSDE®
  - CAD formats: Microstation® DGN and AutoCAD® DWG
  - Rasters: ECW™, MrSID, tiff, jp2, png, jpeg, gif, bmp
  - OGC: WMS webservices 1-1.3, KML and KMZ
  - File formats: ESRI® Shape, MS Excel®

To learn more about this offering, contact your GE sales representative or visit www.GEDigitalEnergy.com

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