

Product Description

The latest release of Smallworld Field Information System* from GE Energy provides extra functionality and usability benefits to GE Energy customers.

Smallworld Field Information System (Smallworld Field) enables companies to leverage the investment made in their Smallworld system, by being able to serve their field users with vital business, asset and map information in the field through the use of Smallworld Field Data Server*. This empowers mobile workers, whose roles could include inspection, field engineering and vegetation management. It ensures they are more responsive by providing access to timely, accurate information, enabling quicker, more informed decisions. Field crews can update attribute data in the field, create new or move existing assets and sketch redlines on to the map data either manually or utilizing GPS¹ integration within Smallworld Field. These edits and new assets can be returned to the office for inclusion in the central Smallworld database using Smallworld Task Management* module.

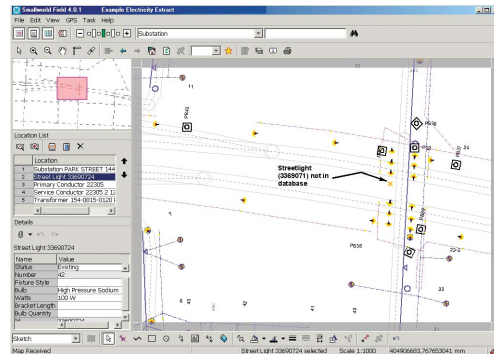
Features

Smallworld Field Data Server

Smallworld Field Data Server supports the profile definition and extract definition processes which define what information is made available to field crews.

A profile definition associates a series of Smallworld Field settings with particular types of users. These settings include:

- Graphical data that the field user sees in the map
- Objects which are selectable in the map and their visible and editable attributes
- Predefined queries available to the user to help locate assets



Smallworld Field Information System

An extract definition is generated by associating a profile with a geographic area. Running an extract definition creates an extract containing the data and configuration files unique to a field user or group of users.

Benefits

Customers gain business benefits from increased access and use of spatial data throughout their organization, especially remote field crews. The reach of access to this data offers benefits both to the business and to the field users:

- Adaptable to suit customer needs through extensibility and customization
- Latest information available to all crews
- Reduced data maintenance costs and time for changes occurring in field to be reflected in central system
- Less reliance on paper records
- Field personnel less reliant on office support
- Higher quality of information in main database
- Availability of work specific forms
- Increased productivity of field personnel leads to:
 - Fewer abandoned jobs
 - Lower cost of service and repair work
 - Better fulfillment of service level agreements and regulatory requirements



Smallworld Field

The software has been designed specifically with the field user in mind, to enhance ease of use and productivity. "Where am I?" map view update and automatic update of the map based upon current GPS position allow for easy navigation. Predefined queries help users to quickly locate the assets of interest and a favorites option allow frequently used map views to be saved. In addition, the mode of operation and display is tailored to suit the device being used.

Smallworld Field tasks allow field crews to record the work that they have done. This could include notification of problems and inconsistencies with the data in the database – or omissions. To assist with recording this information, point, line, polyline, polygon and text information can be sketched onto the map and if available the current GPS position can be used to record the location.

Field crews may need to send additional information back to the office in the form of additional documents or digital photographs. These can be attached either to an individual asset, sketch object or to a task.

Preconfigured sketch styles and forms to allow entry of attributes ensure that intelligent data capture and update is a simple undertaking. For sketching redlines, options to change the point symbols, line styles, line color and line termination symbols are provided.

A simple measurement tool is provided, enabling the field user to find the distance between two points, the length of a line or polyline and the area of a polygon. For permanent dimensioning, support is given for distances between two points.

Printing directly from the field device is possible using a simple template that allows permanent text such as copyright or disclaimer information to be printed. The choice of printing to a true scale, indicated on the output as a scale bar and numerical value, is also provided.

Smallworld Field can be customized and extended to meet individual customers' workflow and field crew needs. To assist with this, API documentation is provided with information about

add-ins and classes that can be accessed allowing the field system to be tailored to meet customer needs, for example, providing specific custom applications.

Synchronization ensures that the data held within Smallworld Field data is in step with the main Smallworld system. Smallworld Field enables this via a two-step process:

- Downloading the data onto the field device by taking a new version of a complete extract, or just smaller incremental changes that have been made since the last download
- Uploading the changes made in the field back to the office

Smallworld Task Management

Smallworld Task Management* is a layered module on Smallworld Core Spatial Technology*, which controls and manages the workflow of updates and sketches completed in the field. GIS operators are able to perform quality assurance checks before the data is entered into the central Smallworld system.

System Requirements

Product Compatibility

Smallworld Field Information System 4.0.1 is compatible with Smallworld Core Spatial Technology 4 Application Framework and Physical Network Inventory* 4.

Operating System Support

Smallworld Field Data Server 4.0.1 and Smallworld Task Management 4.0.1 support is consistent with the Smallworld Core Spatial Technology 4 or Physical Network Inventory 4 (Windows® platforms only). Extracts scheduled using Smallworld Field Data Server 4.0.1 can also be processed on other platforms, for example UNIX®.

Smallworld Field 4.0.1 is supported on the following operating systems:

- Windows 2000 SP4
- Windows XP SP2 Professional
- Windows XP SP2 Tablet PC Edition

¹ Within United States only Trimble TSIP protocol is supported (NMEA protocol not supported)

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