

The Smallworld PowerOn™ distribution management system delivers integrated tools that seamlessly manage operational and customer data across an enterprise. Going far beyond other systems on the market, Smallworld PowerOn® software provides a comprehensive solution that would typically be possible only through the integration of multiple products from multiple vendors.

With GE Network Solution's comprehensive outage and distribution management solution, you have a technology alternative that can be used by your enterprise today, as well as your enterprise of tomorrow. Smallworld PowerOn® software's proven scalability provides the ability to grow with your business.

What's Available Now

Smallworld PowerOn® 2.0 is a comprehensive distribution management system (DMS). It addresses distribution management functions and opens up operational capabilities and data to your entire utility organization. Smallworld PowerOn® DMS empowers utilities to achieve exceptional levels of service by:

- Quickly responding to customer queries – even in storm conditions.
- Decreasing outage restoration time through intelligent prediction and integration of operating centers and crews.
- Distributing information throughout the utility over both the company Intranet and the Internet, and allowing dispatch terminals anywhere.
- Giving users an easy-to-use, logical workflow process to follow.

The screenshot shows a web-based interface for a trouble report. At the top, it says 'Status: Arrived' and 'Trouble (NS): 2569-1' with a 'Priority: 3'. Below this is a 'Customer Calls' section with a table for 'Reported Trouble Types' and a 'Comments' text area. The 'Comments' area contains the text: 'No Outage', 'No Comment', and '...'. Below the comments are fields for 'Trouble Call' (1), 'Time of Call' (02:00:00 AM), 'Meter' (R3001762), 'Name' (James S. Smith), 'Address' (500 S. SHAWANEE ST), 'Phone' (303252311), and 'City' (FAYETTEWOOD, CO). The 'Location' section includes 'Interrupted Device' (Transformer (400) (14)), 'Address' (500 S. SHAWANEE ST), and 'Normal Feeder' (144). The 'First Crew Assignment' section shows a 'Selected Crew' (144-021) and several buttons for 'Assign' and 'Cancel' with associated IDs. At the bottom, there are summary statistics: 'Original Customers Affected: 18', 'Current Customers Affected: 18', 'Devices: 1', 'DM: 132', 'No. Calls: 2', and 'Feeder: 1441'.

Assigning switching tasks for selected devices



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Smallworld PowerOn® 2.0 Includes These Powerful Features

Network Management

Smallworld PowerOn® DMS gives you the ability to originate and track requests for planned switching.

Features and functionality include:

- The ability to generate switching order tasks via a graphical user interface or to simulate the execution in a “what-if” mode and store the tasks for future execution.
- The ability to issue, maintain and track all crew safety clearances, assurances and safety tags.
- A complete workflow model that includes dispatching functions and user interfaces to streamline the workflow of planned and unplanned switching.
- A network navigation and search tool that provides the ability to navigate electrical networks with search-and-find functions, including a graphical display showing all feeder ties/reclosers for a selected circuit and giving users the ability to navigate upstream or downstream from a selected device and to assign switching tasks for selected devices.

Reduce costs by maximizing your utility network efficiency and staff productivity

The screenshot displays the 'Order Worksheet' window for a switching order. The status is 'In Planning' and the switching ID is '2584-1'. The last update was on 12/04/2000 at 15:47:40. The form is divided into several sections: 'Order Details' with fields for Current and Original Organization, Created, Completed, Closed, Dispatch Center, Service Center, Location, Current Owner, Original Owner, Related Orders, Priority, Dispatcher Area, and Crew Area; 'Planning Details' with a 'Planned Work?' checkbox, Checked By, Checked Date, Planning Status (set to 'In Planning'), Work Requested By, and Requesting Organization; and 'Restoration Details' with a 'Restored?' checkbox and Info Given To SO By. At the bottom, there are summary statistics for Affected Customers, Devices, DM's, No. Calls, and Feeder, along with 'Next Line', 'OK', 'Cancel', and 'Print' buttons.



OVERVIEW

Outage Management

Smallworld PowerOn® DMS supports a streamlined workflow for each outage. Features include:

- A SCADA interface for automatic outage generation and use of load data for network management
- Network schematics for creating a working schematic view for network management operations
- Integration with customer information systems and interactive voice response units to accept trouble calls and provide the status of restoration efforts
- Automated analysis and prediction of trouble calls to determine probable device based on customer-configurable prediction rules
- Crew management functions that support the tracking and use of restoration crews
- Capabilities to build dynamic organizations to support decentralized dispatching during large volume events
- Automatic calculation of minutes of interruption for full and partial restoration efforts
- Reports to support operational decisions during outage events
- Dynamic outage management functions to build organizations to support decentralized dispatching during large volume events
- Calculation of customer minutes interrupted for full and partial restoration efforts
- Additional workflow capabilities, such as maintenance and service order dispatching.

Order ID	Type	Priority	Special	Device	Location	Post
3900-1	Trouble (FAS)	3		SINGLE CUSTOMER	004730 S JASON ST	Pred
3499-1	Trouble (FAS)	3		Transformer Bank(65,16)	4540 S KALAMATH ST	Pred
3499-1	Trouble (FAS)	3		SINGLE CUSTOMER	004801 S KALAMATH ST	Pred
3901-1	Trouble (FAS)	3		SINGLE CUSTOMER	004666 S HEIRON ST	Rest
3902-1	Trouble (FAS)	4		Circuit Breaker (1006)	S WINDERMERE ST - S RD GRANDE ST	Part

No.	Type	Device	Description	Location	Assigned To	Result	Completion Time
1	CO	Circuit E	Confirm Open	S WINDERMERE ST - S RD GRU		Confirmed	10:41 11/07/0000
2	R	Circuit E	Repair	S WINDERMERE ST - S RD GRU			
3	C	Switch I	Close	W OXFORD AVE - S CHEROKEE		Closed	10:41 11/07/0000
4	O	Switch I	Open	S KALAMATH ST - W OXFORD J		Opened	10:42 11/07/0000
5	C	Switch I	Close	S LINCOLN ST - E OXFORD AVE		Closed	10:43 11/07/0000
6	PT	Switch I	Place Tag	W OXFORD AVE - S CHEROKEE RP -026			

No.	Type	Location	Placed By	Placed Time	Placed For	Status
621	Assurance	Switch O# 9910				Unplaced
622	Assurance	Switch O# 9910	11/01 11/07/0000	Cimbura, John		Placed
623	Assurance	Switch O# 7239	11/01 11/07/0000	Cimbura, John		Placed
624	Assurance	Switch O# 2896	11/01 11/07/0000	Cimbura, John		Placed

Make better decisions throughout your organization by delivering information and applications using Internet technology

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OVERVIEW

General Functions

Smallworld PowerOn® DMS offers a number of other important features. These include:

- The seamless integration with Smallworld Core Spatial Technology™, providing spatial representation of distribution networks, outages and crews
- Network management functions that support both the daily updating of device statuses and the emergency updating of device statuses due to restoration switching
- Seamless integration to other operational products to support Web-based dispatching
- Mobile data terminal interfaces for wireless use
- Thin client access to both textual and graphical data.

Developed using Oracle®, Microsoft® and GE Network Solutions standard technologies, Smallworld PowerOn™ software is fully supported – 24 hours a day, 7 days a week, 365 days a year – customer service.

Moving into the Future with GE Network Solutions

GE Network Solutions is committed to continuously enhancing its products and its technology backs up this commitment. It is highly scalable and incorporates all of the features required to enable data integration and interoperability between different business systems. It is the right technology to take you comfortably into the future.



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GEA-13058 b.0502

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