## PowerVista™ Software Application Suite

Control and Management of Distribution Systemss

### **Description**

PowerVista™ software is a powerful and flexible suite of applications and tools for managing distribution system assets that are monitored and controlled with Sensus Distribution Automation (DA) intelligent communications devices. PowerVista software applications enable real-time access to distribution equipment from any PC using a standard browser, by logging onto a secure account created and maintained for each customer. PowerVista software can be hosted by Sensus or located in a customer's data center.



### **Features**

#### **APPLICATIONS**

PowerVista software is an ideal tool for distribution engineers, system planners and asset managers. Using the PowerVista application, personnel can quickly identify equipment or system issues from any office or remote PC. This same information is available to field crews equipped with mobile PC's

or by notices sent via e-mail, text message or pagers.

PowerVista software complements distribution supervisory control and data acquisition (SCADA) systems by providing additional features for engineering, planning and operations. For customers without distribution SCADA systems, PowerVista software is a powerful

application for managing their equipment.

PowerVista provides tools to manage:

- Distribution equipment
- · User accounts and access
- Communication system status

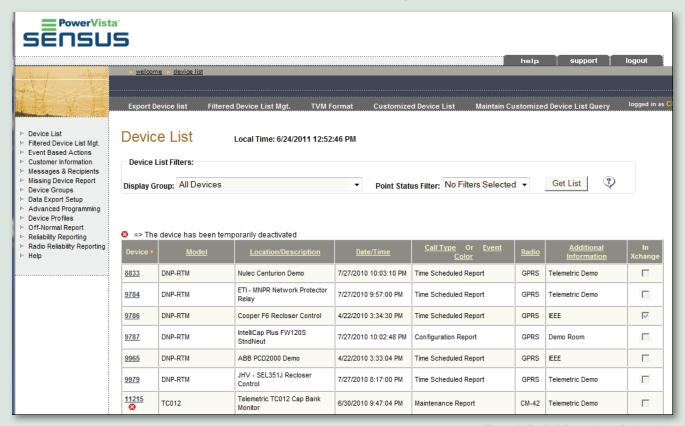


Figure I. Typical PowerVista Device List



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### Features Continued

The following features are available to all PowerVista software users. No local application other than a standard web browser is required.

### **Equipment Management**

- Device list: View a list of all equipment on your account, such as switches, reclosers, capacitors and many more distribution and transmission system assets
- Device status: Displays digital and analog inputs, analog outputs and control outputs. View the current status of all devices and drill down to see greater detail.
- · Customize the device list and

- device status screens to provide only the relevant information for your application, individual user, or group of users. For example, a recloser or switch might display just voltage and load amperes.
- Request updated status information at any time
- User notifications: Set up customized rules that will send alarm or status change information via email, text message or pager. For example, receive a page for low voltage alarms or high load conditions.
- Send output commands: Control output commands can be sent to any Sensus DA enabled field device or group of devices

- Control actions: Set up customized rules that will trigger an automatic control action by a Sensus DA field device
- Device groups: Create groups of devices that can be addressed with a single command
- Graphing: View graphs of analog inputs
- Export Data: Users can export data to comma-seperated values (CSV) files or e-mail to share information or use in other applications

# Account and User Management

 Create new user IDs and passwords

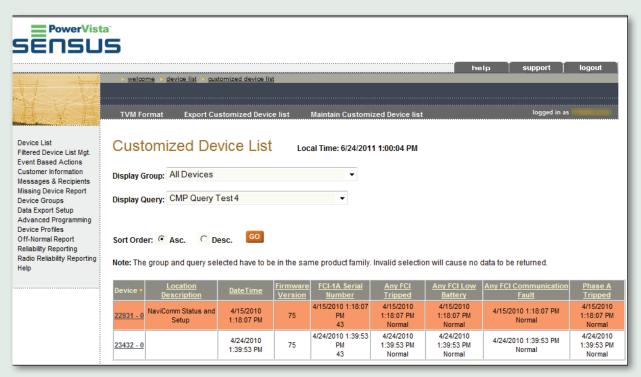


Figure II. PowerVista Customized Device



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- · Assign access levels to users
- Five levels of user access control: View only, view and request data, operator, sub-administrator and administrator
- Assign devices to groups
- · Update account information
- Manage strong passwords and changes
- Command logging by user for traceability

#### **Communication Management**

- View call volume and data usage by device
- View communications performance

 Set up notifications for devices not communicating

#### **PowerVista Software Security**

Each customer's secure account and data is password protected. The account data is backed up daily and is housed on servers with redundant hard drives that mirror the active hard drives. Hardware and software firewalls provide an additional layer of security for the servers. Communications between the Network Operations Center (NOC) and the customer's web browser are encrypted via Secure Sockets Layer (SSL).

 Server authentication using 128bit encryption key

- Bi-directional data transmission using private encryption keys
- Two factor authentication using RSA SecureID is available as an option

#### Network Operations Center Features

When PowerVista is hosted, the Sensus NOC collects and processes data from Sensus DA intelligent communicating devices. A Sensus DA field device's integrated radio provides two-way communications between the Sensus radio module and the NOC via the data networks. PowerVista servers provide users with instant access to this data through their

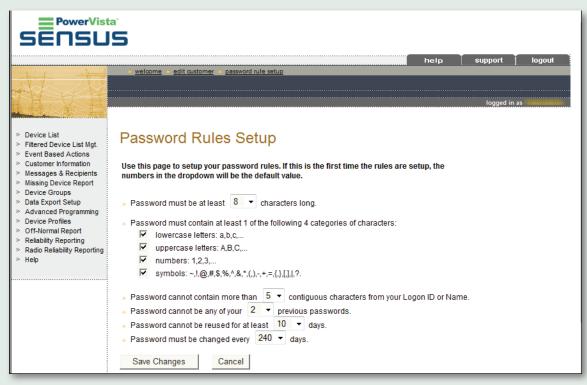


Figure III. Security — Password Rules Setup



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secure account.

The Sensus NOC is hosted in a special communications facility designed to promote maximum uptime, reliability and safety for your data.

#### Sensus NOC features:

- Redundant, fault tolerant Synchronous optical networking (SONET) facilities
- Redundant path, dual-entry fiber facilities
- Storage Array Network (SAN)

- with hot-swappable components provides redundancy and facilitates disaster recovery
- Hardware firewall
- Automatic server fail-over to hotstandby
- Load balancing server
- Watchdog software applications monitor key processes and notify staff of problems on a 24/7 basis
- Uninterruptible power supplies, including a generator with 24 hours of fuel supply on site
- · Halon fire protection system

- Security card access and 24/7 monitoring
- Earthquake protection

### SCADA-Xchange™ Software

In parallel with PowerVista software, Sensus DA field devices can also be monitored and controlled through an existing SCADA system using PowerVista's software optional SCADA-Xchange module via DNP3 or other protocols.

For more information, visit us at www.sensus.com

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