Control and Management of Distribution Systems

# **Description**

AutomationControl™ and the industry leading FlexNet™ smart utility communications network bring a powerful and flexible suite of applications and tools for managing distribution and SCADA system assets that are monitored and controlled with Sensus Automation intelligent communications devices. The Sensus AutomationControl smart utility application provides an interoperability foundation



that integrates and connects smart devices and assets that are needed to build a modernized smart utility network. The AutomationControl software application suite enables real-time access to automation devices and SCADA equipment using a standard browser, by logging onto a secure account created and maintained for each customer. Sensus offers AutomationControl as a flexible and secure cloud-based Software as a Service (SaaS) solution.

## **Features**

#### **APPLICATIONS**

AutomationControl software is an ideal tool for distribution engineers, system planners, and asset managers. Using the AutomationControl 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 PCs.

AutomationControl 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, AutomationControl software is a

powerful application for managing their equipment.

AutomationControl provides tools to manage:

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

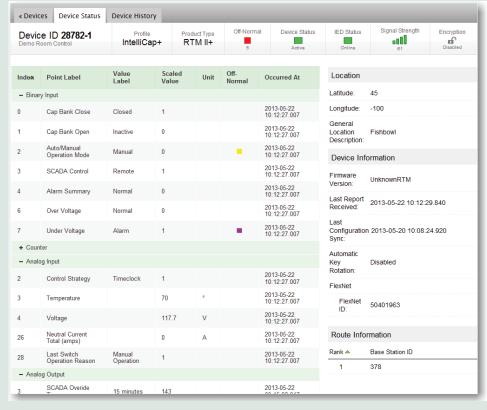


Figure I. Typical AutomationControl Device Status



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### Features Continued

The following features are available to all AutomationControl 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.

- User notifications: Set up customized rules that will send alarm or status change information via email or text message. For example, receive a text message for low voltage alarms or high load conditions (future feature).
- Assign Off-Normal values for easy detection of system issues.

#### Account and User Management

- Create new user IDs and passwords
- · Update account information
- Manage strong passwords and changes

- Manage SCADA-Xchange servers, channels, and masters
- Commission devices on SCADA-Xchange

#### **Communication System**

- Manage all reporting parameters remotely
  - Unsolicited event deadbands, limits, trigger times
  - Time scheduled reporting
- Manage ccommunication routes
- Manage integration with thirdparty IEDs

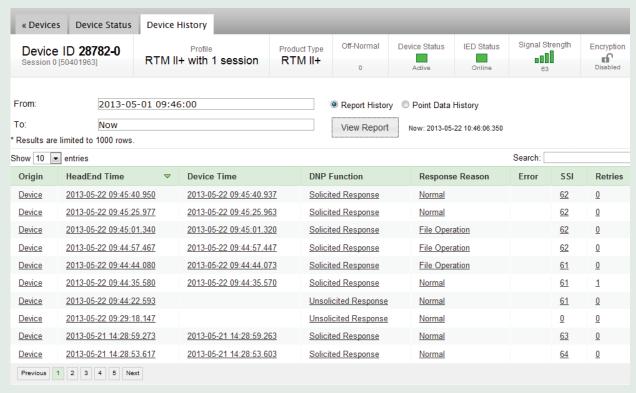


Figure II. AutomationControl Report History



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#### **Communication Management**

 View communications performance

# AutomationControl 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 centralized Data Center and the customer's Web browser are encrypted via Secure Sockets Layer (SSL).

- Server authentication using 256-bit encryption key
- Bi-directional data transmission using private encryption keys

#### **Data Center Features**

When AutomationControl is implemented as a Software as a Service (SaaS) solution, the Sensus Data Center collects and processes data from Sensus Automation intelligent communicating devices. A Sensus Automation field device's integrated radio provides twoway communications between the Sensus radio module and the Data Center via the data networks.

AutomationControl servers provide users with instant access to this data through their secure account.

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

#### **Sensus Data Center 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

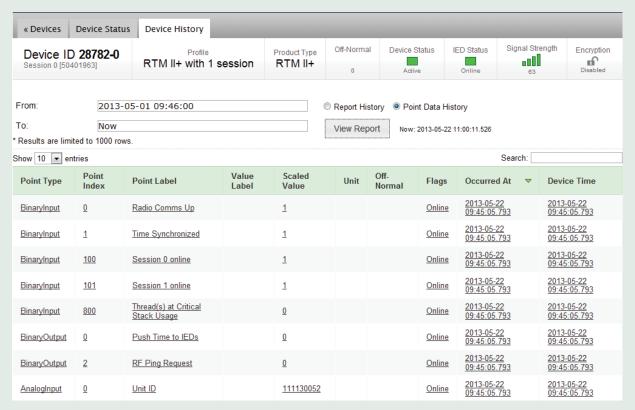


Figure III. AutomationControl Point Data History



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- Automatic server fail-over to hotstandby
- · Load balancing server
- Industry-standard 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™

In parallel with the AutomationControl software, Sensus Automation field devices can also be monitored and controlled through an existing SCADA system using AutomationControl's built-in secure SCADA-Xchange module via DNP3 or Modbus protocols.

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

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