Southern States
The Quality Name in High Voltage Switching

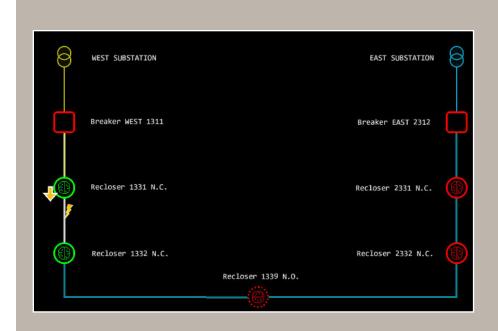*Distribution Automation*
Smart Automation Module (SAM) and Management System (SAMS) for Distribution Fault Detection, Isolation, and Restoration (DFDIR)

Distribution Automation Platform Delivers Cost-Effective, Reliable Solution for Utilities

As the demand for reliable power continues to grow, utilities are increasingly adopting automated fault restoration solutions. Southern States' unique **DFDIR solution** offers an innovative, user-friendly, and fully configurable approach to addressing these challenges. Designed for maximum flexibility, this **decentralized system** seamlessly integrates with devices from multiple vendors and interfaces with any SCADA system that supports DNP. It supports a wide range of automation speeds—from rapid cycle-based restoration to post-lockout recovery—ensuring adaptability to various operational needs. Whether you need automation for just a few circuits or an entire system-wide deployment, **the SAM solution** is designed to adapt to your needs. Let Southern States help you meet your reliability goals with our wide range of distribution automation solutions.

FEATURES

- Easy to Use, intuitive user interface
- Easy setup enables new circuits to be configured for automation within minutes.
- Built in simulator to validate successful configuration prior to deployment
- Robust platform that can handle the most complex topology
- User configurable automation speed ranging from cycle-based to post lockout recovery
    - Cycle-based speeds supported with fiber connectivity
- Supports multiple communications options (fiber, cellular, radio, etc.)
- Decentralized system and decision making
- Centralized component to streamline programming, configuration, updates, and visualization
- DNP 3.0 SCADA interface
- Event recording for detailed analysis
- Compatible with Southern States reclosers or other vendors' devices

CATALOG FLYER

Smart Automation Module (SAM)

Specifications

SMART AUTOMATION MODULE (SAM)

- Peer to peer communication via proprietary protocol
- Decentralized automation and decision making
- Supports fiber, cellular, radio, etc.
- Easy to add interface in Southern States Cabinets
- 6" x 4.5" x 3" box for installation in other vendors cabinets
- Cycle or second based restoration
- Topology processing to support multiple fault scenarios.
- Event capture of waveforms at time of fault for precise analysis.
- Works in conjunction with any customer protection relay, allowing utilities to use the same equipment and protection they are familiar with.
- Fault detection via current/voltage waveform monitoring at ¼ cycle speed.

SMART AUTOMATION MANAGEMENT SYSTEM (SAMS)

- Can be easily installed on your choice of a server, cloud site, PC, VM, etc.
- Hosts the configuration utility
- Remotely program, update, monitor all SAM units from one location
- Built in simulator to validate successful configuration prior to deployment
- View of real time waveforms and phasors data
- Retrieval of event capture waveforms from SAM units
- User management and controlled access
- Real time data view of all automated circuits
- Event window for post fault analysis of events
- DNP interface for SCADA system support

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