RT|ASR

Auto-Sectionalizing and Restoration

The **RT**|ASR Auto-Sectionalizing and Restoration solution from DC Systems isolates problems during an outage and restores power to as many customers as possible within seconds—without operator intervention. The system, generally installed in a substation, enables utility companies to boost efficiency, cut costs, reduce the duration of outages, and meet regulatory demands.

APPLICATIONS:
- Fault isolation
- Automatic feeder switching
- Self-healing grids
- Outage restoration
- Critical circuit protection

AUTOMATIC RESTORATION

In the past, when one part of a feeder went down, field crews or control room operators were faced with the time-consuming, tedious tasks of determining where a fault occurred and manually rerouting power around it. Multiple problems arising during large storms could quickly overwhelm operations, resulting in widespread, lengthy outages. **RT**|ASR software eliminates the need for human intervention by automatically isolating faults and performing switching to restore power to as many homes and business as possible within seconds.

PROVEN INTELLIGENCE

The **RT**|ASR system relies on connectivity models and real-time feeder conditions to determine the optimum switching configuration during an outage. The software considers pre-fault load, line capacity, feeder protection settings, and within seconds takes the same actions that a highly trained operator would when an outage occurs, given similar circumstances. The system automatically checks transformer loading so that a switching operation does not cause an overload.

REAL-TIME FAULT ISOLATION

The **RT**|ASR system relies on connectivity models and real-time feeder conditions to determine the optimum switching configuration during an outage. The software considers pre-fault load, line capacity, feeder protection settings, and within seconds takes the same actions that a highly trained operator would when an outage occurs, given similar circumstances. The system automatically checks transformer loading so that a switching operation does not cause an overload.

SAFETY FIRST

Prior to performing any switching operation, **RT**|ASR software goes through an extensive set of safety checks that are customizable to fit each customer's needs. The software double-checks feeder conditions to ensure that maintenance personnel are not working on the circuit, and verifies communication and data integrity.

DCSystems

AUTOMATIC RECONFIGURATION OF DISTRIBUTION FEEDERS

Sustained outage reduction

When part of the grid goes down, intelligent systems automatically reroute power to as many customers as possible within seconds, resulting in significantly improved interruption metrics.

Flexible communication

The **RT**|ASR solution uses Ethernet, serial, radio, and other methods to facilitate communication to devices and other substations.

Increased customer satisfaction

RT|ASR software provides extra protection and increased reliability for critical customers on the network.

Improved efficiency, lower costs

Computer control of fault isolation and feeder routing cuts costs and reduces the number of issues that demand immediate operator attention.

The Complete RT Real-time Smart Grid Platform™

RT|ASR software is a member of the RT Real-time Smart Grid Platform™ applications from DC Systems, a leading developer of smart grid software for utilities and large energy users.

Our products combine the power of distributed intelligence with centralized data management—putting intelligence where you need it, while centralizing configuration, administration, and monitoring at the enterprise level. RT applications interoperate throughout the Smart Grid—from field devices, to substations, to control centers, to the enterprise—giving you greater flexibility, control, and responsiveness.

Let Us Turn Your Data Into Smart Data.

DCSystems

1600 Seaport Blvd, Suite 150
Redwood City, CA 94063
Phone 650.425.7700
sales@dcsystems.com
www.dcsystems.com