

SurvalentONE

Fault Location, Isolation, and Service Restoration & Loss of Voltage

Distribution Automation Software
that Monitors Voltage, Identifies
and Isolates Faults, and Resupplies
Power or Loss of Voltage



Survalent.

Minimize Outage Impact & Duration by Rerouting Power in Seconds

When a tree falls on a power line, field crews may take several hours to locate the problem and repair the damage. Meanwhile, thousands of frustrated customers must put their lives and businesses on hold until power is restored. In response, utilities are turning to fault location, isolation, and service restoration (FLISR) technology.

Survalent's FLISR solution is based on a sophisticated fault location algorithm that uses telemetry from field devices, in tandem with the SurvalentONE ADMS network model, to rapidly identify faults, isolate them, and then automatically resupply as many customers as possible.

With SurvalentONE FLISR in the control room, utilities can turn sustained outages into momentary events resulting in greater network reliability, lower CMI, and increased customer satisfaction.

Loss of Voltage

SurvalentONE FLISR includes our Loss of Voltage (LOV) application, which monitors the network for sudden voltage drops. When the LOV algorithm detects a loss of voltage in a substation or elsewhere in the grid is detected, the application will attempt to isolate the cause of the voltage loss from the network and reroute power to as many customers affected as possible.

Minimize Outage Duration & Extent

When lockout devices are tripped, SurvalentONE FLISR immediately limits the severity of the ensuing power outage, restoring service to non-faulted areas in seconds versus hours.

Less downtime means less financial impact on customers, especially large commercial & industrial (C&I) customers who incur significant losses during even the briefest service interruption.

By keeping electricity flowing to more customers for more hours of each day, utilities simultaneously increase their revenues and improve performance metrics such as CMI, SAIDI, and SAIFI, which are used by regulators and customers to assess the quality of the network.

Increase Revenue by Attracting Premium Power Customers

With SurvalentONE FLISR, utilities can attract large C&I customers to set up shop in their service area by providing reliability guarantees as part of a contracted service level agreement.

Reduce Operating Costs

Control room operators no longer have to spend time diagnosing faults and trying to estimate their locations because SurvalentONE FLISR can do it all for them in seconds. The solution narrows down fault locations to a smaller search area, allowing field crews to find and fix problems faster which reduces labor costs.

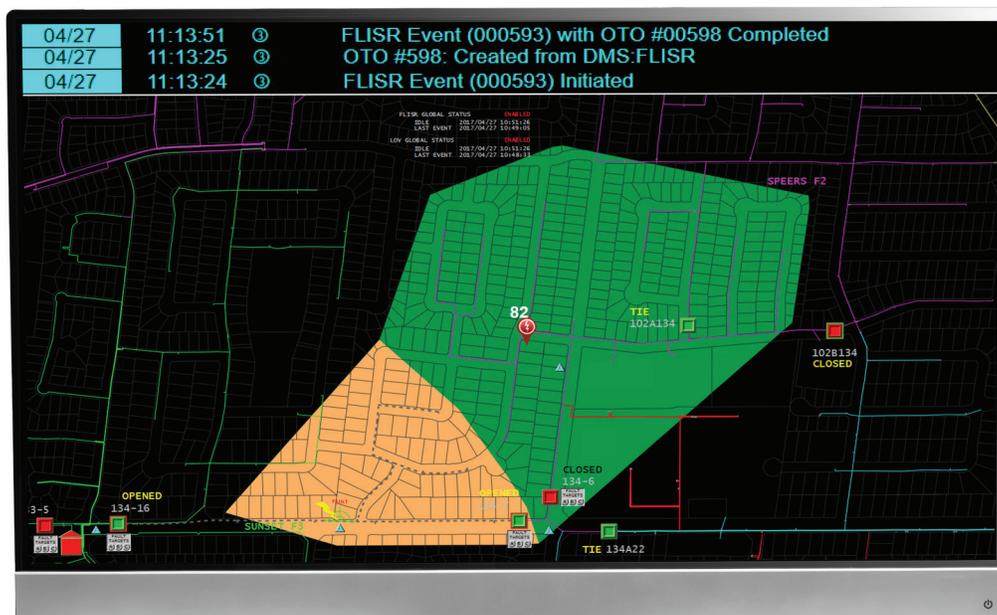
By automatically switching as many customers as possible downstream of the fault to neighboring feeders, SurvalentONE FLISR frees up crews to focus on the root cause of each fault. Since field crews drive fewer miles per rollout, less fuel is used and there is less wear and tear on service vehicles and equipment.

Benefits

- Rapid service restoration for customers
- Increased customer satisfaction
- Improved CMI, SAIFI, SAIDI & related performance indices
- Increased revenues through more network uptime and premium power programs
- Lower field service costs
- Compliance with regulatory standards
- Better decision-making in the control room
- Coordinate with other distribution automation solutions

Key Features

- Seamless integration with SurvalentONE ADMS
- Centralized FLISR solution
- Ability to enable/disable the application on a per feeder basis or globally
- Semi-automatic and automatic modes of operation
- Vendor agnostic for field devices
- Sophisticated fault location algorithm
- Comprehensive FLISR operations log and switch order created for every FLISR event
- Enhanced testing capabilities
- Optional Integration with SurvalentONE Distribution Power Flow and Distribution State Estimation to enhance service restoration analysis



FLISR detected the fault, isolated the area, then closed a neighboring tie switch, thereby restoring power to affected customers within seconds.

Control your critical network operations with confidence

With Survalent, you can control your critical network operations with confidence. We're the most trusted provider of advanced distribution management systems (ADMS) for electric, water/wastewater, gas, and transit utilities across the globe.

Over 600 utilities in 30 countries rely on the SurvalentONE platform to effectively operate, monitor, analyze, restore, and optimize operations. By supporting critical utility operations with a fully integrated solution, our customers have significantly improved operational efficiencies, customer satisfaction and network reliability.

Our unwavering commitment to excellence and to our customers has been the key to our success for over 50 years.

“Survalent has been extremely helpful in resolving any problems and in going the extra mile to ensure a smooth installation. Great technical support!”

- PowerStream

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