

SurvalentONE

Protection Settings Manager

Software that automatically monitors and updates relay protection settings based on the network state



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Utiliverse™ ecosystem

Synchronize relay protection settings with the network via an automatic, rules-based process

The configuration of an electric distribution network requires ongoing monitoring due to unexpected faults, ongoing maintenance, customer demand, and a variety of other factors. To avoid undesirable events such as miscoordinations, protection relays must be checked and adjusted accordingly following each network reconfiguration.

Survalent's Protection Settings Manager (PSM) provides centralized control over protection settings groups. PSM monitors the grid and updates each selected relay through an automated, rules-based process that ensures the right settings group is always active.

By automatically maintaining appropriate relay settings, PSM saves time and helps keep the grid operating at peak efficiency.

Maintain Optimal Protection Settings

The Protection Settings Manager automatically monitors protection relays and keeps them in sync with the network configuration.

The application employs a set of user-defined rules to ascertain the correct protection settings group for each relay. These rules are formulated with respect to the properties of individual line sections, analog points, and status points in the ADMS.

PSM includes a Delay to Verify feature that halts the application for a defined number of seconds to verify the network state and confirm if protection settings need to be updated; this prevents unnecessary or suboptimal changes from occurring.

For safety purposes, the application can be set to automatically pause whenever a protection relay is tagged or a related station is put in maintenance mode.

Achieve Greater Operational Efficiencies

By automating the configuration of protection settings, you can guarantee that relays will be properly updated after each network change; this eliminates the possibility of errors by busy technicians. PSM seamlessly interfaces with your existing relays to provide immediate results because it supports both analog and digital protection settings groups. The application runs in the background on a predefined interval that is set globally for all relays, saving significant time and effort. By including PSM in the control room, your protection & control team is free to perform other critical tasks, increasing their overall productivity.

Benefits

- Optimize protection settings for network configuration changes
- Time savings and productivity gains from automatic relay monitoring and adjustment
- Increased grid efficiency and reliability because of fewer miscoordinations

Key Features

- Rules-based, automated control over relay protection settings
- Delay to Verify option, ensuring steady-state network operation before protection settings updates
- User-defined rules based on the properties of line sections, analog points, and status points
- Support for analog and digital protection settings groups
- Automatic pause function for when a protection relay is tagged or a related station enters maintenance mode
- Can be used to adjust protection settings after operator switching or from an automated application such as FLISR



Visual display of PSM setting & confirmation of setting applied after FLISR event.

Better Software. Better Decisions.

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

Over 800 utilities in 40 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 comprehensive substation automation solution, Survalent StationCentral, delivers advanced control and monitoring for enhanced network performance and protection.

Our unwavering commitment to excellence and to our customers has been the key to our success for over 60 years.

100% Project Delivery. We Guarantee It. Ask Us How.

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