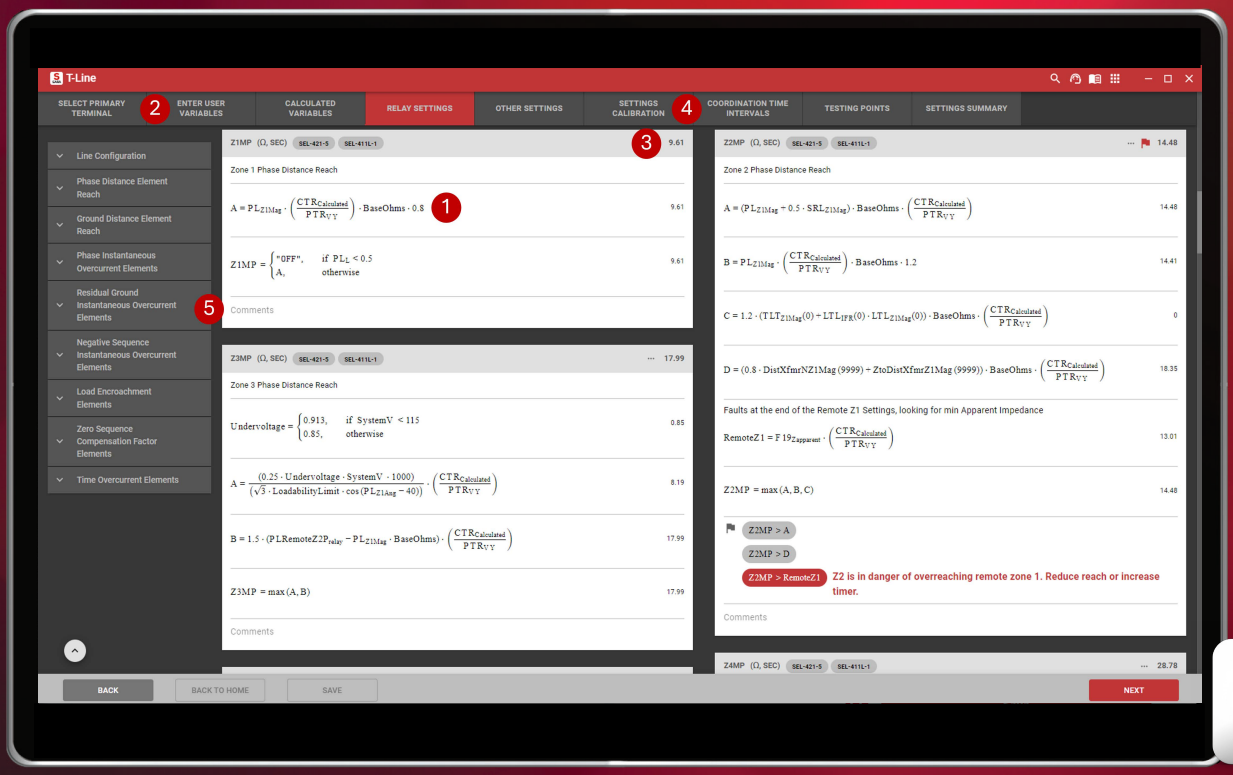
SynchroGrid
Powering A New Direction In System Protection

SOFTWARE SOLUTIONS

1. Create a template containing protection philosophy
2. Specify project specific variables
3. Integrate with short-circuit model to automatically calculate setting values



4. Make adjustments to optimize results
5. Add comments for documentation

SARA: AUTOMATED TOOL FOR RELAY SETTING DEVELOPMENT

Empowering Utilities Through Automation

SARA (Setting Automation Relay Assistant) is a software tool which integrates with short-circuit models to automate relay setting creation for transmission lines, autotransformers, and capacitor banks. This innovative program uses a smart template that streamlines simulation of large number of faults and calculation of setting values based on equations. This eliminates errors due to factors such as the manual transfer of data and increases efficiency in producing accurate settings.

Eliminate Manual Errors During Settings Development

Customize Philosophy Templates for Utility-Specific Calculations

Use Automation Scripts to Increase Efficiency

Automate Reports for Easy NERC Compliance

EMPOWERING UTILITIES THROUGH AUTOMATION

The Future of Relay Setting Development

SARA is a powerful software tool for the protection industry which can optimize the relay setting development process, simplify short-circuit model simulations, review and analyze the resulting data. In SARA, engineers can create a template to define their protection philosophy, auto-populate information from short-circuit models to eliminate the need to manually copy and paste data, perform relay setting calculations, and directly output RDB files and reporting documentation which can be used for NERC compliance.

The Automation Process

CREATE PHILOSOPHY TEMPLATE. Create a template to define a set of symbolic equations that represent a setting philosophy.

AUTOMATE DATA COLLECTION & FAULT ANALYSIS. Integrate with short-circuit models to automate data collection and fault analysis.

OPTIMIZE RELAY SETTING CALCULATIONS. Run the template via bi-directional communication with a short-circuit simulation tools to solve setting equations.

EXPORT ALL SETTINGS CALCULATIONS. Export all settings directly to a ready-to-deploy relay setting file.

GENERATE DOCUMENTATION. Generate a NERC compliant report with all settings, equations, calculated fault values, and notes in an editable Word format.

ACHIEVE NERC COMPLIANCE. Create equations to verify NERC compliance for all versions of PRC-023, PRC-026, and PRC-027.