

# What's new in RelayHelper 3.0

## 1. User accounts and subscriptions

RelayHelper now requires user registration. Three subscription plans are available: FREE, BASE, and PRO, allowing you to choose the option that best fits your workflow.

## 2. CEV file support

Added support for CEV files, enabling analysis of disturbance records from a well-known American manufacturer.

## 3. Trajectory visualization for protection calculators

Trajectory plotting is now available for all protection calculators. Protection analysis is now straightforward and visual.  
*(Available in BASE and PRO plans)*

## 4. Spectrogram visualization

Spectrogram view provides an intuitive way to analyze how frequency components evolve over time, making transient phenomena and non-stationary signals clearly visible.

*(Available in the PRO plan)*

## 5. Power Protection module

A new Power Protection section has been added to the Protection menu. It allows visualization of power variations captured in disturbance records.

For example, you can overlay a generator capability curve and verify whether the generator output exceeded its permissible limits.

*(Available in the PRO plan)*

## 6. Fault location module

A new single-ended algorithm for complex grid configuration that supports mutual coupling between lines and tap transformers.

*(Available in the PRO plan)*

## 7. Transition to CFF file format

RelayHelper has moved to the CFF file format.

Opening legacy COMTRADE (CFG & DAT) files is still supported, however, saving is now performed exclusively in CFF format.

## 8. Personal cloud storage

Each PRO user now has dedicated storage within their account for files and analysis results.

*(Available in the PRO plan)*



## **9. OneDrive integration**

Added direct integration with OneDrive for file access and storage.  
*(Available in the PRO plan)*

## **10. Saving and loading project data in INF section of CFF file**

Added the ability to save and load:  
COMTRADE files  
protection settings  
markers and annotations  
*(Available in the PRO plan)*

## **11. Improved mobile device support**

Enhanced usability and performance on mobile devices.

## **12. Improved design and workflow**

General improvements to the user interface and overall workflow for more efficient analysis.

## **13. UTF-8 character support**

Full support for UTF-8 symbols has been added, improving compatibility with international channel names and annotations.