



ProvisoHD is a software tool that enables users to quickly and visually analyze post-contingency data produced by PSLF's SSTOOLS (a steady-state contingency processor). Reliability standards are driving planning engineers to analyze a larger number of contingencies. As a result, SSTOOLS output files can be very large (multiple GB), so fast, efficient analysis of results is critical. ProvisoHD has become the standard post-processing tool for engineers performing analysis with SSTOOLS. ProvisoHD reads the output produced by the SSTOOLS and presents them in an MS Excel file format, clearly indicating those lines that are overloaded in the contingency study.

**The salient features of ProvisoHD include but are not limited to the following:**

- New simplified graphical user interface with filters to select/deselect data for reports/plots
- Cross-tabulation of violation results with custom user specifications
- Centralized output spreadsheets summarizing various results like voltages, branch flows, generators, loads, area/zone summaries, SVDs, interface flows, RAS and relay action events
- N-1-1/N-2 screening and ranking feature. Creation of outage combinations file for double outage contingency runs
- RAS and Relay dataset-based reports (PSLF V21 and above)
- Ability to report thermal violations based on individual pre-set branch limits
- A plotting module to visualize the violations summaries and to create the PV curve plots within ProvisoHD
- Provision of filter options to select/deselect data for plot views
- Batch processing capability to allow automated creation of reports
- System-wide summaries of generator/load losses due to contingency actions
- Support for EMS ID based reports for use with Node-breaker model (PSLF V19 and above, for those who license this option)

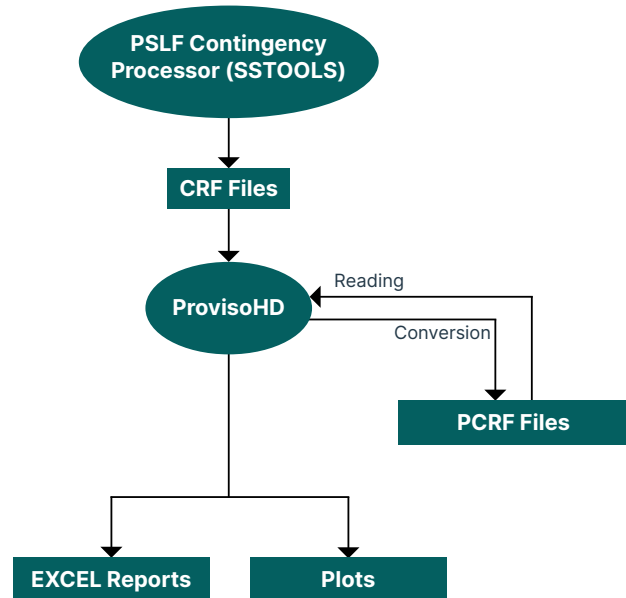
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**Simple flow chart to show the application/use of ProvisoHD:**



**Reporting Features:**

- Custom Cross-tabulation violation report types
  - Voltage & delta-voltage
  - Branch flow/thermal
  - Branch closing and standing angle
  - Interface flow
- RAS and relay event reports
- Steady-state voltage stability analysis reports (PV)

**Plotting Features:**

- Steady-state violation summary plots including system level summary plots of voltage & flows violations, Generators available reactive reserves, RAS, and interface flow limits
- In-built capability to create PV curves