

ASPEN OneLiner and Power Flow

Version 12.5 Update

Please find enclosed the installation CD for *ASPEN OneLiner*[™] version 12.5. This maintenance release contains fixes for all known bugs to date. This update also updates the ASPEN Power Flow[™] logic if you are running *OneLiner* and *Power Flow* from a single executable.

You can run the setup.exe on this CD to create a new installation or to update an existing *OneLiner/Power Flow* installation.

Please write to support@aspeninc.com in English (suporte@aspeninc.com in Spanish and Portuguese) or call us (650-347-3997) if you have questions.

New Features and Improvements

- **Improved ANSI X/R calculation in network with switches** by allowing a smaller value for the switch resistance, Rc, in the X/R option dialog box (0.00001 instead of 0.0001).
- **Enhancement in OC relay window graphic user interface:** user can move the numeric label of TOC curves using the mouse to desired spot to make the coordination graph easier to read.
- **Added kV range and tags selection criteria** to Check | OC Minimum Pickup, OC Instantaneous Setting and Primary/Backup Coordination commands.
- **New right-click command in the View Stepped-Event Analysis Result window:** Copy text to clipboard.
- **Improved Apply Tag dialog box:** added combo box for quick selection of existing tags.
- **Increased maximum size of mho circle** in the distance-relay window from 400 to 500.
- **New PowerScript[™] parameter FS_nCurve** for fuse objects.
- **New PowerScript functions:** AppExit(), and SaveDataFile().
- **Enhanced PowerScript function GetProgramVerion() to show program build number and date.**

Newly added relay curves

- **GE.RLY:**
 - Updated UR IEC and IAC curves time dial range from 0.5-10 to 0.01-600
 - GES-9909 Insulated Case Circuit Breakers Type TP, THP, TC, THC
- **ABB.rly**
 - PCD Recloser curve 5 and curve Y(120)

Bug Fixes

- Fixed error in one-line graphic drawing for 3-winding transformer symbol.
- Fixed the logic for creating default file name in the Create Test File command to filter out all reserved characters. Windows file open dialog box does not work well when file name contains these characters.
- Bug fix: equivalent network OLR file was not always correctly processed for fault simulation immediately after creation.
- Bug fix: Switch ID field in PTI PSS/E RAW file export did not always match that in the SEQ file.

- Bug fix: The Relay | ASPEN Relay DB | Retrive Setting dialog box OnOK logic did not correctly process the Tier field.
- Bug fix: The Misc | Print command in the overcurrent-relay window did not print shape objects.
- Bug fix in Check | Primary/Backup coordination command: Program crashed when primary relay is on a switch with no other branches at the other end.
- Bug fix: The fault solution in the right half of split-window display did not update when the left half is active.
- Bug fix: The program crashed when user added damage curve with link to a 3-winding transformer.
- Fixed bug in logic for calculating operating time of overcurrent ground relay that have "CT at" field set to transformer neural or tertiary winding. The error caused random program crashes.
- Bug fix: The simultaneous fault command did not allow 3-phase open fault simulations.
- Bug fix: Relay groups on a switch are was not always set to out-of-service when switch is open.
- Bug fix: The Read Change File command did not always process mutual pair data fully, which can result in fault simulation result error until the file is saved, closed and opened again.
- Fixed possible memory error in Arc Flash Calculator command.
- Fixed bug in logic for zone selection in Check | OC Minimum Pickup, OC Instantaneous Setting and Primary/Backup Coordination commands.
- Fixed error in PFlow | Solution Report command in ASPEN Power Flow. The report omitted overloaded transformers.
- Modified logic for printing relay operating time to TTY Window in Fault | Show Solution command. The old logic caused random program crashes on some OneLiner installation.
- Fixed bug in importing Load Enc Enable setting of GE D60 relay from URS files.
- Fixed bug that caused error in result of simultaneous-fault simulation when bus-to-bus fault is the last one in the simultaneous fault list.
- Fixed flaw in Add Tag dialog box that marked the "Tag all connected" check box every time the dialog box is opened
- Fixed problem in Case Comparison Program logic for reporting differences in breaker reclosing data.
- Added logic to make sure distance relay data do not get damaged in relay setting import command.
- Fixed PowerScript SetParam() function logic for nInService parameter to accept only ACTIVE and OUTFSERVICE values
- Fixed bug in PowerScript function SetParam() logic for LN_sLengthUnit parameter.
- Fixed buffer lenght error in PTI export logic that caused the program to crash.
- Fixed bug in fault simualtion logic that cause program crashes when simulating bus-to-bus fault with nonzero impedance value.
- Fixed error in logic scheme simulation: The OC relay pickup signal worked reliabily only when the Relay | Option Curve extrapolation flag is enabled.
- Bug fix: Stepped event analysis result display on the one-line did not follow second/cycle time unit selection in the Diagram | Option dialog box.

- Fixed a bug in the Acquire Graphic From Another File command logic that affected on/off-line status of relay objects.
- Bug fix: Lengthened the fault-impedance field in the Specify Classical Fault dialog boxes.
- Bug fix: The Data Growser grid always scrolled back to column 1 each time new sort field is selected.
- Fixed error in Data Browser sort logic that caused problem in sorting 3-winding transformer data by Tap kV fields.
- Changed distance relay REL521 method logic to match the Help description: always use cross polarization.
- Fixed error in Case Comparison Program logic for exporting logic scheme data.
- Fixed error in implementaion of PowerScript function MakeOutageList().
- Fixed bug in script logic for exporting SEL-311 relay settings from *OneLiner* to .rdb file.
- Fixed error in S&C.rly fuse curve 450-8-xx. They were mistakenly entered as relay curve.
- Fixed software bug in Acseleator SEL5030 settings import which caused operation failure when setting set name contains blank spaces and the end.
- Fixed software bug in relay setting import logic that caused reading of SEL321 distance phase relay element settings into OneLiner Mho ground distance relay type.
- Updated PowerScript GetData logic to correctly retrieve object data from database after calling SetData() function.