

ASPEN Power Flow

V10.12 Maintenance Update

Please find enclosed the installation CD for *ASPEN Power Flow*TM version 10.12. This maintenance release contains fixes for all known to date bugs. It also has a number of improvements. Version 10.12 is Windows Vista compatible.

You can run `\pf\setup.exe` on this CD to create a new installation or to update an existing *Power Flow* installation.

Note: If you are running OneLiner and Power Flow as a combined executable, you need not install the Power Flow Program separately; you need only install OneLiner V10.12.

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

Improvements in Power Flow between V10.10 and V10.12

- **New shortcut to Zoom command:** You can now change the main window's zoom level using the <Ctrl>+mouse wheel combination. The same method also works in the distance relay window.
- **Improved Read Change File command for the ANAFAS format:** The improved logic can now process change files that contain a mix of old (4-digit bus numbers) and new (5-digit bus number) ANAFAS formatted change commands.
- **Locale specific decimal point:** CSV files created by OneLiner now use Window's regional setting for the decimal symbol (dot or comma) for floating-point numbers. From now on your spreadsheet program will recognize floating-point numbers correctly regardless of where you are in the world.

Bug fixes in OneLiner between V10.10 and V10.12

- Fixed an error in the Export to PTI command dialog box that prevented users from entering bus numbers having more than 5 digits.
- Fixed an error in the Read Change File command that caused incorrect processing of the mutual-coupling data section.
- Fixed a bug in the Undo command. Undoing the "Hide Buses In Region" command did not work when there is only one bus in the region.
- Fixed an error in the power flow report. The program did not print out-of-service switches correctly.
- Fixed a bug in the Acquire Graphics from Another File command. It caused the program to hang when there is a linked annotation in the OLR file that has no counterpart in the DXT file.
- Fixed a typographical error in the BS-171 labeling of wye-zigzag transformers in the 2-winding transformer properties dialog box.
- Fixed errors in the Export network to PSS/E file command: 1) Switch data were not included in PSS/E SEQ file; 2) The number of LTC taps in the RAW file was exported as '2' all the time; 3) Only the first 5 digits in the bus numbers are written to PSS/E files; 4) 3-winding transformers' LTC data were not exported.
- Added new option in the "Snap to state plan coordinate" command to allow importing data with inverted Y-axis values.

- Fixed a bug in the File | Merge command that caused annotations to move randomly after the merge. The problem happened only when user asked to merge buses with the same name.
- The Acquire Graphic command also copied text annotation. This behavior is now user-selectable.
- Updated PTI PSSE export logic to use comma, instead of space, as delimiter in version-29 and version-30 raw files. (Note: PSS/E accepts both comma and space as delimiter. This change was requested by users who use Excel to edit their raw files.) Also the output now includes the prefault voltage in the bus section whenever a fault solution is available.
- Fixed a bug that caused the program to hang when undoing a "Paste Equipment in Region" command.
- Modified read-text-data-file logic to detect duplicate bus names that differ only in case, such as "ASPEN" and "Aspen".
- The Case Comparison Program failed to report change in impedance when the difference is at the 5th decimal place or smaller. Fixed.
- Added logic (1) in the File | Read Change File command to read ANAFAS change files with the MOV data section 36, and (2) in the File | Export Network Data command to export the MOV data in ANAFAS format.
- Fixed bug in PowerScript PFFlow() function. Script result differed from the one-line display when branch impedance is too small.

Enhancements in the Case Comparison Program

- Added logic to generate ANAFAS change-file commands when differences in MOV data are found.

Bug fixes and enhancements in data conversion programs

ANAFAS-to-ASPEN Data Conversion Program Version 10.13

- Added logic to read MOV data in section 36.
- Improved logic to convert wye-delta transformers when parameters TB and TC are not specified for the zero-sequence shunt.
- Added logic to avoid reading files of the old ANAFAS format with 4-digit bus numbers. (*Note:* You should use a separate program, anafas_old.exe, for the old files.)

PTI PSS/E-to-ASPEN Data Conversion Program Version 10.11

- Fixed an error in the "Make 3-winding YYD transformer's high voltage side the Primary bus" option. The program erroneously assumed that Zpso remains unchanged when the primary and secondary buses are swapped. This error has been there since V10 was released in 2005.
- Modified logic to stop swapping the first and second MVA ratings when the "Make 3-winding YYD transformer's high voltage side the Primary bus" option is turned on. The reason is the three ratings (RATA1, RATB1, and RATC1) are 3 ratings for the "first winding", and they are NOT ratings of the three windings.
- Added logic to combine zero-sequence "shunt load" with positive-sequence load data to create a grounded load. Previously, a separate zero-sequence shunt is added to the same bus whenever the load is grounded.
- Added logic to read the zero-sequence shunt leg (B0) of phase shifters.
- Added logic to handle transformer winding configuration codes 311, 131, and 443.

PTI PSS/ADEPT-to-ASPEN Data Conversion Program Version 10.4

- Modified program to accept tab character as delimiters and bus names with up to 10 characters.