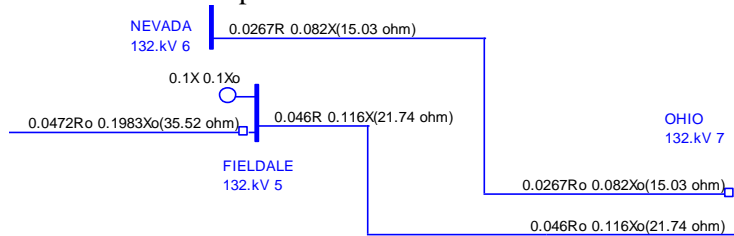# ASPEN Power Flow™
Version 14.5 Update

This maintenance release contains fixes for all known bugs to date and some program improvements.

You have been given a link to download the setup program Power FlowV14.5Setup.exe. You can run this setup to update an existing installation or to create a new *Power Flow V14* 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.

Program Improvements between Versions 14.4 and 14.5

- **Enhanced View | Impedance on 1-line display**: The line impedance in primary ohm is now shown next to per-unit value.

- **The lower limit of text size on the one-line diagram** has been changed from 8 to 4 to allow for high resolution screens.

Bug Fixes in Power Flow since version 14.4

- Fixed several software bugs in PowerScript engine: the SetObjMemo() did not update fileChanged flag; BK_nInService was missing in SetBrekerParam(); TC_SHUNT was missing in GetObjMemo() and SetObjeMemo();DP_sParam and DG_sParam SetDSRelayParm logic did not work in all cases.
- Bug fix: The length unit field in Line dialog box incorrectly displays 'mi' instead of 'm' for lines that were imported from DXT file.
- Fixed bug in power flow solution browser. It has not worked since v14.2.
- Fixed bug in PowerScrip SetData for BUS_nTapBus parameter. The 3-terminal tap value for this flag was not supported correctly.
- Fixed graphical display bug that caused branch name text to be pushed out of list box window when the text is too long.
- Fixed bug in logic for reading change file in ANAFAS format
- Bug fix in PowerCalc engine logic. Constant array was not up-to-date.
- Fixed software bug in the File | Info | Journal report command: The section for breaker was missing in the report. Also data records from previous version OLR files did not always print correctly.
- Fixed error in reading zero sequence mutual data in ANAFAS change file
- Fixed a bug in View | Line end command that caused program crash in some networks when a relay group is selected.
- Fixed bug in handling of script function APSFileDialog() parameter sInitDir.
- Fixed a bug in the change file add-bus logic.

- Fixed a bug in the logic for reading Equivalent network component ID prefix in File | Preferences dialog box. It caused the prefix to be truncated to 1 character.
- The Place Bus command sometime resulted in broken line graphic. Fixed.
- Fixed a bug in the save-binary-file logic, which damages the data file when Save | As command failed.
- Fixed a bug in the Diagram | Acquire Graphic from Another File command, to prevent it from issuing the "Input file is inconsistent" error when the command is executed on some large OLR files.
- Bug fixed: The Acquire Graphic from Another File command should not acquire the szEquivID[] string.
- Fixed bug in reading and writing on/off-line flag data field in load unit and generating unit data records.
- Modified the Read-ANAFAS-Change-File logic to eliminate loads, shunts and generators that no longer have any active or out-of-service units after the modifications.
- Fix several bugs in the logic for reading ANAFAS change files: These bugs had to do with missing mutual-coupling data, undefined memo and tag files for several object types, and the inability to process winding-configuration data and transformer neutral impedances.
- Fixed software bug in GE PSLF to ASPEN data conversion program: the data conversion DXT output file was not in correct V14 data format.

Bug Fixes in Case comparison program since version 14.3

- Fixed error in logic for "boundary equipment only" option. It was missing in the logic for reading large binary file.

Bug Fixes in PTI PSS/E-to-ASPEN Data Conversion Program since version 14.3

- Fixed software bug in PSS/E to ASPEN data conversion program: the data conversion DXT output file was not in correct V14 data format.
- Fixed software bug in PSS/E to ASPEN data conversion program. Long bus name was not handled correctly.
- Fixed a bug in logic for reading transformer data from SEQ file. The values for fRG2 + j fXG2 were incorrectly copied as neutral impedance for winding code 8.
- The mutual-data arrays have been re-dimensioned to be the same as OneLiner/Power Flow's.