Release Notes GC-PowerPlace v19.1

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New and Improved Features

Support for the .XNC Drill format

The continued improvement of data transfer formats by UCAMCO (Gerber X2 and now .XNC) is whole-heartedly support by GraphiCode and as part of this support we have added input support for the .XNC drill format to this release.

Merge CAD Centroids

The Merge CAD centroids function has been written to remove a limitation that prevented more than 1200 components being merged in one pass. There is now no limit to the number of components that can be merged.

The function was also updated to allow individual differences to be graphically inspected directly from the report. This can allow for a much faster verification of differences and ensures that the merged components layer is correctly generated from the data present.

Added numerous Plugin functions

A number of plugin functions have been added to enhance the customization of the product. Details can be found within the Intellisense for the plugin.

Items Fixed since v18.3

This list is customer reported issues fixed for this release.

#626 Fixed an issue in the code and the extension that resulted in a small scaling issue when Export Image File was called. The image was previously being rounded down by one pixel.
#625 Updated the error checking when outputting ODB++ file to handle situations where only one Part layer is present in the GWK file. An issue that resulted in a failed TGZ file compression was also fixed (caused by spaces in file path).
#620 An invalid point index resulted in a drill file that had been exported being unable to read back into the software. Highly data-specific error.
#619 Merge CAD centroids ran out of memory. This was caused by a limitation of the script language that the function had been written in. Fixing this bug required a re-write of the function and the improvements highlighted in the previous section.
#618 Updated the handling of modal D03 usage within an older Gerber file. This construction is now illegal in the GerberX2 specification but we were over-aggressive with the handling of this once-legal construction. The user is now asked if they wish to flash pads at the appropriate locations.
#616 Importing a drill file in EIA format did not identify the drill sizes used in the file. This has been corrected and the drill sizes are now correctly generated.
#614 Added support for .XNC drill format
#613 Updated the handling of a now deprecated construction within a Gerber file. Older formats of Gerber now draw the Primitive Code 2 description as was originally intended but GerberX2 files containing that construction will now generate an error and substitute the legal primitive code 20.
#611 The Vis2apr aperture convertor was incorrectly converting apertures with a list as round pads. The convertor has been updated to correctly handle the situation when provided with aperture descriptions inconsistent with the format.
#610 Merging GWK files caused an issue with the part layers. Fixed the issue (which was caused by duplicate object IDs within the component layers of the two files).
#609 Writing out a DPF file and then read that file back into the software produced a different image. Problem was caused by the last XY location on one layer and the first XY point on the next drawn layer being identical and not closed out correctly between layers.
#606 Fixed a bug in the extension code that appeared during the writing of DXF files in certain situations.