

# Release Notes GC-PowerPlace v13.4

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## **New Features**

### **Create EMF file**

An output for an Enhanced Windows MetaFile (.EMF) has been added to the Print Preview dialog. Making use of all the settings available in the Print Preview Dialog, the function creates a file in EMF format. Depending on the settings entered by the user, EMF files are automatically named with the Physical layer name upon output or a user-defined name if multiple layers are combined into the image file.

## **Improved features**

### **Support for panelized images in DXF and DWG**

Both the import and export algorithms for DXF and DWG have been updated to add support for the export of DXF and DWG files in the 64 bit versions of all products. This updating also allowed for the export of panelized images (using the virtual step and repeat method) to DXF or DWG. The Export > Enhanced DXF/DWG dialog now contains an option to export the panels in quick mode or full mode.

## Items Fixed since v13.3

This list is customer reported issues fixed for this release.

- #261 Improved the DFM checks for thermal connections (both number and width) as well as the No copper for via check. All checks are under the Power/Ground set of checks.
- #258 Modified the Export menu to change RS-274X to Gerber (RS-274X) and GerberD to RS-274D to better highlight the Gerber export.
- #255 Added the ability to handle virtual copies of data in DXF and DWG files. Options to match the GraphiCode display of Quick or Full is included.
- #253 Fixed an issue with incorrectly displayed pads with an ODB++ file.
- #252 Modified the import of Gerber file polygons to no longer ignore a zero move after the completion of a polygon chain but now to treat this incidence as the start of the next new polygon chain.
- #251 Auto Convert Sketched Pads now converts two connecting pads into a single pad if the layer is a Solderpaste layer.
- #250 Fixed a pad split problem on a rounded rectangle where multiple splits were defined.
- #249 A series of copy and paste function lead to more than two instances of the same D-Code in an aperture list. This led to incorrect RS-274X output. Two instances was already correctly handled. This approach has now been extended to repeats >2.
- #247 Scaling of apertures using Percent Scaling did not work correctly when X and Y values were different. New rule: If x and y scale values are different:

For standard and formula apertures with 2 dimensions (rectangles, rounded rectangle etc.) the x and y scaling values will be applied.

For the standard apertures with 1 dimension (round, square etc) and Custom Apertures (no defined values only a name) then the larger scaling value of either the x or the y will be used.

- #246 Addressed an issue where GC-Basic functions were reporting an assert and failing to continue in v13.3 beta release. Fixed for the v13.3 release.
- #245 Fixed a problem generated in some datasets where D0 was being incorrectly created during Drill Drawing Creation.
- #243 The Isolation algorithm was creating a large number of apertures after using a non-polygon aperture.
- #241 Advanced Stencil Editing function to create C pads was crashing on this specific dataset due to a layer offset issue. Fixed.
- #240 Tiny trace rounding error was resulting in a missing fiducial in lower precision DPF Export. Issue fixed.

- #239 Fixed an issue regarding interaction of contours when importing a DPF file.
- #237 Updated GC-Basic help to correctly define the new syntax for Flat Ended Homeplate creation.
- #236 Fixed a copper area calculation crash on a large dataset.
- #234 Fixed the Tool Table Assistant to correctly assign non-plated holes. The function was working correctly if the Plated differentiator was defined but not if the non-plated differentiator was assigned.
- #233 Using a rectangle aperture to draw a line gave an incorrect image result when step and repeats with a 90 degree rotation. Fixed.
- #232 Updated the trapezoiding algorithm to remove incorrectly formed gaps within polygon areas. These were happening in the RS-274X export.
- #231 Fixed an issue where a custom aperture (bowtie shape) was being created as a custom pad with an offset datum point. This then reported incorrect extents for the aperture.