

Release Notes All products v10.3

Table of Contents

NEW FEATURES	2
SUPPORT FOR AUTOCAD 2010 FORMAT	2
DFM SLIVER CHECK	2
DFM VOID DETECTION AND FIXING.....	2
GENERATE MICROCRAFT .EMM FILES.....	2
BETTER MEMORY MANAGEMENT.....	2
ITEMS FIXED SINCE V10.2.2	3

New Features

Support for AutoCAD 2010 format

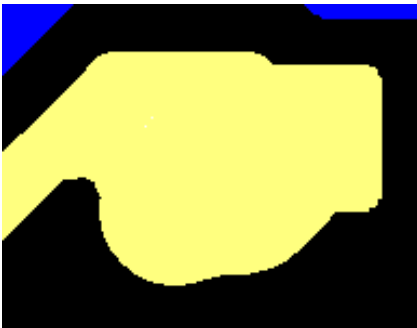
All products (except GC-Prevue) now support the import of AutoCAD 2010 DXF and DWG formatted files. Export of DXF and DWG file is still in ACAD14 format to allow the easier distribution and reading of GraphiCode generated files.

DFM Sliver check

The Sliver check for Signal layers has been completely overhauled to detect slivers of photo-resist that may cause manufacturing issues. A fix method has also been added to allow the auto-fixing of detected errors through the Review DFM interface.



Sliver Detected

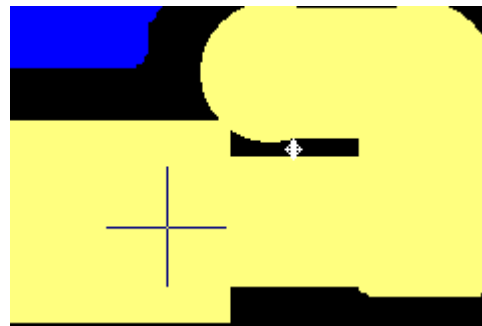


Sliver Fixed

The Sliver detection algorithm is also utilized to detect and fix Acid Traps on Signal layers. In order to detect Acid Traps, the Sliver check also needs to be activated but, as with previous versions of GraphiCode software, detection of acid traps is optional.

DFM Void detection and Fixing

The Minimum Void DFM check has also been overhauled to better detect and to better fix voids found on signal and Soldermask layers. The algorithm now detects AND fixes all voids in a consistent and reproducible manner. Void fills are still assigned the Fixed Void attribute to enable easier selection and removal of the void fixes is necessary. Void detection is now based on void area in combination with minimum orthogonal distance.



Void Detected



Void Filled

Generate Microcraft .emm files

GC-PowerStation now has the ability to generate Microcraft .emm files for the Microcraft range of flying probe bareboard testers.

Better Memory management

GraphiCode has updated the internal tools used to manage memory allocation and usage.

Items fixed since v10.2.2

This list is customer reported issues fixed for this release.

- #4464 Incorrectly detected sliver errors caused by contour failure are no longer reported.
- #4463 Fixed a bug in the layer reduction algorithm caused by a poor polygon construction that resulted in an incorrectly drawn gerber layer.
- #4460 Applied a consistent polygon interaction methodology for Gerber files and DPF files to correctly display a polygon interaction that was previously causing a cutout.
- #4459 Fixed an issue causing Rounded Rectangles to be incorrectly rotated due to the updating of the ODB++ symbol definition.
- #4455 Fixed an issue caused by precision level in the DPF translator that caused very, very small arc segments to be interpreted as single points rather than full circle arcs.
- #4454 Updated the Import wizard to accept Rounded Rectangle apertures for all layers rather than on a layer by layer basis. This will speed up import of multiple RS-274X layers with custom apertures describing Rounded Rectangles.
- #4452 Fixed issue where a previously defined aperture was not updated in the DPF output. This lead to an incorrect aperture being specified for rotated, reversed custom apertures specified in panelized copies.
- #4451 Reversed custom apertures were being reversed a second time when used in panelized rotated copies. This issue has been resolved.
- #4449 Fixed an issue caused by missing drill numbers within the ODB++ file.

