Ucam Xpert v2025.06

Fixed issues

Your continued feedback is important and appreciated.

This version resolves the following issues you have raised with our Customer Care department.

AOI Output: AOI

- Layer thickness is set automatically when there are subjobs defined. This now is working as expected.

AOI Output: Galaxy

- Outline handling in Galaxy AOI Output now is as expected.
- Extended Galaxy AOI output for coupons with added negative background.
- Option to activate/deactivate the DPF / ODB++ job output in the Galaxy settings.
- Changing job after galaxy output is working without disruptions.
- Future drill for Galaxy output is assigned automatically.

CAD Output: Gerber

- Expanding arcs, during Gerber output, of invalid arcs could apply a too big tolerance to the resulting tracks. Expanding, while creating Gerber output, these invalid arcs have been improved.
- When the Cad resource file contains '274x*build_netlist: 1' and '274x*expand_true_objects: 1' the presence of references to True Objects on tracks was preventing that these objects were output in the generated Gerber format (RS-274X) file. This is fixed now.

Editing: Apertures

- Creating a new block aperture on the selected objects is keeping the embedded apertures identical as the original selections, no longer trying to group aperture definitions.

Editing: Attribute Manager

- Heightened security for custom attributes in AttributeSet.xml.

Editing: Enhanced Editor

- By running 'Generate', with both values for Gab and Overlap configured with value 0, a warning box will pop up with the number of open contours and UFD (Error Handling) will indicate the location of the open.

Editing: Insert

- Adding Reverse draw that would overlap with a coupon (block aperture) containing vector text objects could change the rotation on the vector text objects. Measuring objects on vector text objects embedded in block apertures could also indicate an incorrect rotation while previewing which vector text object will be involved. The rotation of these vector text objects is no longer

changing unexpectedly.

Editing Tools: Drill Tool Manager

- Changing units is running fast and stable again.

Editing Tools: Fill Pattern

- Filling certain regions with pads could fail with insufficient memory. Filling these regions can be completed normally.

Electrical Test: Utest

- During "Filter Copper Areas", pads that are not in a groundplane but are connected to a groundplane via a drill will be removed. Ucam.db key to avoid this is: "testpoint.groundplane.maximum_drill".
  The default of this key is "0". With this setting the pads connected by drills will be removed always.
  If it is set to a value >0, only pads connected by drills with smaller diameter will be removed.

FaultStation:

- Filtering in select ATF file window is working as expected.

Input: DPMX

- Problematic layers can be loaded. The existing invalid arcs are displayed according to their invalid definitions.

Input: Gerber

- 0-sized holes, specified with both X- and Y-holes size with value 0, in Circle and Obround standard aperture were resulting in an UNDefined aperture. These 0-sized holes are now ignored and the expected aperture is created.
- The implementation of 'gerber.input.fail_on_error: 1' has been extended for supporting all kind of error messages encountered while loading Gerber files.

Input: Import ODB++

- An ODB++ job with both a compressed and expanded version of the same file is now using the compressed variant, similar as what is noticed by third party ODB++ conversion tools.
- ODB++ standard aperture cross is supported during ODB++ Import conversion.
- Conversion of overlapping islands in a surface definition embedded in a custom symbol definition could confuse ODB++ Import. The merging of the 2 islands could be incorrect. These custom symbols are resulting in the expected image now.
- Importing ODB++ files with wrong syntax for lines is done with warnings for each occurrence.
- The length of the net names is no longer limited to 60 characters. Previously too long net names were truncated, which could cause false violations while comparing the netlist information.

Input: IPC-D-356

- Setting ucam.db key ipcmet.new_input_algorithm to false Plated/unplated is correctly

recognized in IPC356 input.

Input: SmartStart

- SmartStart could still indicate that loading an IPC-D-356 file was completed successfully, even if error messages were given and no layers could be created. SmartStart marks these files as failed now.

Job Editor: Layers

- Merge Layers is notifying if the layer displayed in plane 1 is deactivated, previously the content of the plane 1 layer could be modified unexpectedly.

Job Management: Open Job

- Reading an xjb job could read the layer polarity wrong. This is solved in UxamX and iamcam.

Job Management: Save Job

- New ucam.db key: 'job.save.undefined_ape'. If set to true, the job will be saved even with undefined apertures. If set to false, the job will be refused to save if undefined apertures are present and give an error. Default is set to false.

Netlist: Build

- Running Job Netlist Build is keeping the active layers unchanged, although some layers needed being activated to build the netlist.

Panelization: PanelPlus

- Changing unit while being in the results window of PanelPlus is changing all PCB coordinates again.

Product Stage Editor:

- In Layer Parameters the finished thickness has been added.

Select:

- Select window with Polygon was not selecting Blocks. Now all objects can be selected again.

Verification: Net Compare

- Certain net number (net 8192) in a netlist reference layer could result in false violations found by Net Compare. Buffer overflow has been resolved to support all net numbers.

View: Numbers

- Changing the current unit is no longer influencing the value in the Angle field of the Numbers menu.

YELO: CAJ Copper Adjuster

- Performance and stability issues are solved for setting ucam.db key drc.ufd.sqlite.on is set to 1.
- Copper Plane adjustments could be hanging on certain data in combination with the applied parameters. The adjustments can be completed in these conditions.

YELO: MAJ Mask Adjuster

- Warning about missing markup of critical pads which could create unwanted results established.