

Editing

Markup Assistant

1736

MarkupAssistant from Soldermask Optimizer was incorrectly showing JunkPads for many pads. This has been resolved.

Editing

Transform

1553

Running Spread and Choke on contours that are embedded in linked blocks could be losing the link between the blocks, even if the function was applied on both linked block apertures. The linked blocks remain linked, after applying a Spread and Choke, in case the same transformations have been applied on the linked apertures.

1564

Applying Spread or Choke (Thicken or Thin) is preserving the attributes that were allocated to the original apertures/objects.

1609

Copying contour regions is preserving the attributes that were allocated to the original regions.

1673

Spreading apertures that are embedded in block apertures could get confused with the block aperture definitions, which could corrupt the image. Spreading these (embedded) apertures is behaving normally again.

Editing Tools

Clipping

1406

Clipping is preserving the Aperture attributes on the objects with clipped apertures.

1608

Clipping function is preserving the attributes that were allocated to the original regions and contour apertures.

1710

Clipping could be wrong when the diameter size of the aperture used in the clip reference layer is same, or smaller, than the configured value for the Clip Clearance. Clipping is no longer suffering when configuring a relative small value for the requested clearance.

Contours

1395

Conversion of a Gerber file, composed by many self-intersecting contours, could be causing UcamX crash. The interpretation of these self-intersecting contours has been improved allowing converting the file without crash.

1580

Exact Contourize on (almost) touching rounded objects could corrupt the image (when certain arc margins were applied). Exact Contoutize on these constructions is respecting the image.

Drill Tool Manager

1236

Drill Tool Manager always allows updating the DPF file. Previously Update DPF could only be running once after running calculate in Drill Tool Manager.

Expand

1305

Using certain configurations, block expand could change the image (by allocating certain objects to unexpected polarity level). Expand blocks is keeping the image unchanged on these constructions and by using the problematic configuration.

1659

Expand True Objects transfers object and aperture attributes from the parent object/aperture to the new objects/apertures.

FlashMaker

1394

FlashMaker Find of potential SMD pads, drawn by single track, has been improved.

1493

Flashmaker Region and Complexes is grouping the standard objects correct now.

Rout

1619

Reconstruct Arcs, in Cleanup tab of Rout Manager, was not always respecting the start- and endpoint of a chain, a properly closed chain could become overlapping after reconstructing the arcs. Reconstruct Arcs is respecting the endpoints of the original objects.

Electrical Test

ATG

1528

IPC-ATG output could cause UcamX crash on certain constructions. IPC-ATG output can be created successfully on these jobs.

Testpoint Generation

147

Additional functionality is added to testpoint generation on special situations like painted pads.

Utest

1390

Option to exclude connected nets (e.g. connected by buried resistor) from Isolation test.

General

User Interface

1408

Deleting some aperture(s) from the ApertureManager was always requesting if all selected apertures and their objects could be deleted. This request was also coming when there were no apertures selected. Now a dedicated message is given, depending if there are selected apertures or not.

Hypertool

Scripting

1336

VHS command `layer1.contour_spread_rounded_corners()` could allocate incorrect orientation to an arc. Defining the arc orientation in `layer1.contour_spread_rounded_corners()` has been corrected.

1732

Calling the method `contour_spread` is available in new version.

Input

Gerber

1476

Conversion of a Gerber file that contains arc with its center at big distance from the edges of the arc can fail, with Coordinates out of range. These arcs are converted as tracks between the edges of the arc.

1562

Conversion of a Gerber file, composed by non-coincident cut-in lines that are connecting inners with angled segments, could be causing UcamX crash. The interpretation of these illegal regions has been improved allowing converting the file.

Import ODB++

1605

ODB++ Import is now also correctly converting component layers when the component information is compressed in the ODB++ job.

1632

Introduction of odbxx.input.week-day allowing influencing the resulting text string after the conversion of ODB++ dynamic text string \$\$WEEK-DAY.

1651

Default value for preferred netlist reference, while loading an ODB++ job containing different netlist references, has been changed into cadnet.

1739

ODB++ Import is working with internal compressed files.

Netlist

Reference

1582

The flash point of COMplex aperture in the Netlist Reference layers has its flash point inside the pad. This is needed to prevent false violations while running Net Compare on the data.

Output

DS LI Output

1599

Opening the DS LI Output menu could be giving Java NullPointerException on certain jobs when previously AutoDrill has been applied on the data.

Panelization

Validate StepRepeat

141

New condition to restrict links on empty blocks.

SmartDRC

1607

Changing a value for a check in Smart Design Rule Check menu is correctly reflected after changing between the different Class sections of the DRC configuration, when switching between a dedicated Class and the complete set of checks in the configuration (Class All). Previously the same checks could have a different value (as is the All class and sub-classes are unrelated).

1641

Clearance calculation between flashes with the COMplex pads (containing arcs in the COMplex aperture definition) and the neighboring arcs has been corrected. Sometimes

an unexpected vertex of the COMplex aperture was used during the calculation.

72

Filtering the results of SmartDRC will give the correct error count.

Undo/Redo

Undo

1581

UNDO, after running FlashMaker on Regions and Complexes? could be losing the objects that were replaced into flashes. UNDO is restoring the original objects again.

286

UNDO after running Draw Slots, converting flashes with rounded box aperture into drawn slots, has been made available.

Verification

Design Rules

142

Unnecessary messages removed from SmartDRC process.

1585

SmartDRC Same Net Spacing check is considering the nets on the selected objects. Previously the function was always considering all objects of the layer, even if the function was called on selected objects.

Secure Etch Compensation

146

Secure Etch Compensation was not always respecting the requested clearance between the compensated objects. The clearance is respected now between these objects.

View

Numbers

1285

Measure Objects, while snapping To Point, has been improved for calculations where Vector Text objects are involved.

1548

Measure Objects was ignoring the True Objects when the Option In Blocks was activate. The In Blocks option is no longer confusing the measurements between True Objects.

Query Component

1479

The Query Component menu can be docked in the workspace.

1593

Show Net, in Query Component (and Query Object) was also considering the net number of the object in the netref layers while indicating the objects of certain net. Since the net numbers in the netref layers are unrelated to the net numbers used in the job, Show Net is now looking for the matching net numbers, in the job and the netref layers, for highlighting the objects involved to the queried component or object.

YELO

Copper Adjuster

1011

Signal Adjuster preventing shorts while expanding pads.

1108

Plane Adjuster Aperture names used by YELO are unambiguous.

1177

Crash in Signal Adjuster has been resolved.

1589

YELO Signal and Plane Adjuster now combined in an all in one GUI.

1595

Copper Adjuster: Partial trace move is working for apertures of type box, octagon and complex too.

Legend Adjuster**1403**

Recognize text in YELO Legend Adjuster could mark objects of a contour aperture as text and sometimes some regions were marked incompletely. Opening jobs in which parts of a region were marked as text was notifying for Open Contours (although all regions of the job are properly closed). Recognizing text has been improved so that in case a contour regions is recognized as text the complete region is marked as text.

1405

LAI Repair Method Expand/Shrink with Split Draws is optimized.

1624

Undo functionality is working for Expand/Shrink too
