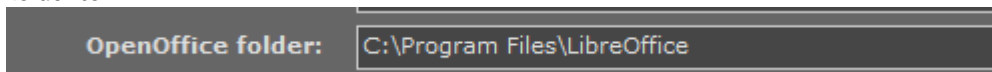


Integr8tor v2020.08

Code changes and fixes

We have taken great care in fixing the items below for you and hope this will contribute to an even better user experience.

- Switch from LibreOffice 5.4.3.2 (32-bit) to 6.3.6.2 (64-bit).
Important note: because of the 64-bit architecture, version 6.3.6.2 installs in a different Windows directory (C:\Program Files). Remember to adjust the Cockpit > Preferences > Paths > OpenOffice folder to



after installing this version.

- Layer rename scripting is now using the more performant JDOM2 API, compared to JDOM1 before. Important note: this update may impact on your layer rename script in case it accesses the xjob. Feel free to contact our support organization in case you experience any issues.
- Cockpit's Drill Editor was not dealing correctly with situations where the incoming drill/rout data had duplicate tool/aperture numbers used for different diameters, e.g. A3 = 0.7mm and A3 = 3.2mm. This could typically happen after an import from ODB++. These duplicate tool numbers are now split up into unique numbers automatically during input.
- Various cases of archives failing to successfully unpack have been addressed. Archives containing folders or file names with multiple spaces, parenthesis or where the full path name length exceeds 260 characters can now be processed without problems.
- The generation of SWF images, displayed in various locations in Cockpit, would take abnormally long in case zero-sized apertures were present in the data. This is no longer the case.
- Minor edits like changing the solder mask color or the PCB thickness on a job triggered a complete re-analysis of the job. These edits will now only update the relevant image(s) or single data fields, avoiding a second full analysis.
- An error in the QED PDF reporting of Gold Fingers in the Copper Area section has been corrected.
- Stackup recognition could take exceptionally long when layers with an extremely high number of draws were present in the archive. This part of the process has been refined and sped up.
- The polarity flag in solder mask Gerber files coming from Altium Designer was misinterpreted if the layer's FileFunction attribute was missing. This has been addressed.
- Cockpit user logins without Administrator rights could have the labels and input fields in the Modify / Resubmit job dialogues completely garbled. This is no longer the case.
- An issue has been corrected where the Cockpit file list showed duplicate drill files in case the AutoClean option for splitting plated and non-plated tools into different files was set.
- The function "Accept All" in the bottom left-hand part of Cockpit – File List was not moving the job into the active (standard/custom) tray as expected, hindering the continuation of the flow. This has been rectified.
- Applying a tool table for drill diameter compensation was not working correctly for non-plated drill layers.
- Integr8tor drill tool compensation was ignoring the uDrillMethod aperture attribute as a criterion in the Select Objects column of the ttb file. The attribute is now correctly picked up.
- The tool and pad classification for plated and unplated slots could produce unexpected results, impacting on the regular QED analysis and on the outputs from the drill tool compensated perspective. This has been corrected.
- Same net spacing calculation could run into a problem if the data to be analyzed contained arcs. This is no longer the case.

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- An inconsistency in the the procedure to change a Cockpit user's password has been taken care of.
- Eagle .brd files can call multiple versions of the same library. The eagle.jar file has been updated to be able to deal with this.
- # and + characters in file names caused Cockpit to be unable to show PDF layer or job images.
- Parenthesis in incoming file names were causing the input process to fail. This is no longer the case.
- Saving changes to a QED report layout was sometimes not working correctly.
- For improved legibility, the drill layers in the QED PDF stackup image are now ordered from left to right by (plated/unplated/rout) subclass and by drill span.
- Depainting of silk layers has been disabled.
- Certain areas in Cockpit had trouble correctly displaying the &-sign in filenames. This is no longer an issue.
- Update of 7zip from v18.06 to v19.00.
- An update of the solder mask color coming in via an http request did not always update the job image or QED report correctly. This update sets this right.
- A correction was made to a flaw in the marking of functional copper that could lead to obvious outlines not being picked up.
- The unit-dependent value fields in Checkpoint were not updated correctly in case of a unit switch in the application. Unit and values are now back in sync.
- There is now full support for the display of PDF images having Asian characters in the file path.
- The presence of multiple mask/legend/paste/... layers on the same side of a board was incorrecly reported in QED XML. This has been addressed.
- DPF job exports were not always renamed correctly after the first output action. This version patches this issue.
- PDF image generation and PDF file output suffered from the Windows-based MAX_PATH (260) restriction. This limitation is now bypassed.
- Data sets with drill files only and no copper layers are now handled correctly in the input and analysis process.
- In the case of a single layer job, an incorrect name for the top (or bottom) PDF image of the copper layer was used, causing the display of this PDF in Cockpit to fail.
- The length of the names of customer-defined trays (job locations) was limited to 4 characters. This has been extended to 10.
- QED.xsd schema update from v2.20 to v2.21.