

PyCell Studio, Version 4.2.8, Release Notes

Table of Contents

Introduction.....	1
New Features and Enhancements.....	2
Change Requests.....	3
2009-04-15.....	3

Introduction

Welcome to PyCell Studio, Version 4.2.8, released 2009-04-15. This is a maintenance release requested by customers to simplify PyCell integration into their environments.

What happened to Version 4.2.7? The software branch for 4.2.7 was used internally for our other software product, Ciranova Helix, but never publicly released.

Highlights of Version 4.2.8 include:

- Technology file converter to support OpenAccess incremental tech.db.
- Creating or updating PyCell libraries creates a library timestamp property.
- User environment files, bashrc and tcshrc, include setting for OA_PLUGIN_PATH.
- Better version and debugging reports.

See Change Requests for specific differences from Version 4.2.6.

These release notes summarize the important enhancements, bug fixes, and other changes which have been made since Version 4.2.6. For complete technical details, please see the related documentation.

New Features and Enhancements

1. cntechconv enhanced to support OpenAccess incremental tech.db.
2. PyCell library timestamp
When cngenlib is executed, a library property, *PyCell_Stamp*, is added or updated, to help with debugging.
3. tcshrc/bashrc environment variable setting for OA_PLUGIN_PATH
Many customers work in companies that have central software installations without write permission. In the past, evaluating use of PyCells in other EDA tools required copying of OpenAccess plug-in registration files to their OpenAccess installation.

```
% cp $CNI_ROOT/quickstart/*.plg $OA_HOME/data/plugins.
```

This step is replaced by setting OA_PLUGIN_PATH in \$CNI_ROOT/quickstart/tcshrc/bashrc.

4. cnversion enhanced to print improved debugging and version information.
Corresponding SKILL command, cniVersion(), also added.

Change Requests

Like many companies, Ciranova uses Bugzilla (www.bugzilla.org) to track change requests. As yet, Ciranova does not have a publicly accessible request tracking system. If your request was assigned a Bugzilla number, you should have been notified by Ciranova technical support when it was closed. Otherwise, you can check the following listing of Bugzilla requests which were closed for this release.

2009-04-15

- 823 Should remove constructor from Python help message for several classes
- 1588 Remove duplicate entries for Instance Python help messages
- 1599 cntechconv output should be numerically sorted
- 1600 cndispconv doesn't correctly handle display.drf with multiple displays
- 1601 cndispconv doesn't correctly handle C-style comments
- 1908 Request fast bbox calculation when using Rect.fillBBoxWithRects
- 2427 fastMosfet.py should be part of packaged list
- 2459 Need better documentation for source tracing Feature
- 2532 cngenlib enhancement to provide library timestamp property
- 2537 Lib.getProps() enhancement for retrieval in read-only PyCell library
- 2607 DRC keywords should be defined in documentation
- 2627 Consider providing Range.expandDir() api
- 2653 INSIDE selects holes
- 2671 fgAbut() should ignore text layers in calculation of Bounding Boxes
- 2684 Pin can have Shapes without layer mask number
- 2696 Offgrid() command has fgPlace() limitation on edges of shapes
- 2718 uoaMsg.msg to be added to the installer
- 2724 WITH_WIDTH should support "=value" constraint
- 2726 techPropertyMap.txt needs to be packaged
- 2759 Wing IDE/Pyros interface intermittent failure