

# PyCell Studio, Version 4.2.5, Release Notes

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## Introduction

Welcome to PyCell Studio, Version 4.2.5, released 2008-07-02.

Highlights of Version 4.2.5 include:

- Continuing improvements in performance and memory usage  
Though more limited in scope than improvements in Version 4.2.3, Ciranova is committed to delivering performance improvements.
- New methods for PyCell design on diagonals (45 degree axes)
- Support for OpenAccess 22.04.007 (DM4).  
We've worked closely to align our OpenAccess support with software releases from Cadence, Mentor Graphics, Springsoft, and Synopsys.

See Change Requests for specific differences from Version 4.2.3.

These release notes summarize the important enhancements, bug fixes, and other changes which have been made since Version 4.2.3. For complete technical details, please see the related documentation.

## New Features and Enhancements

### 1. API Enhancements.

- `Grouping.getComp()`  
Return member component from a Grouping.
- `Point.toDiagAxes()`, `Point.toOrthoAxes()`, `Rect.fillDiagBoxWithRects()`  
`Rect.fillDiagBoxWithRects()`  
New methods for conveniently working with geometries on 45s, especially useful for inductor generation.
- `Rect.fillBBoxWithRects()`  
Fast method for creating a field of rectangles, such as via fill for a bond pad.
- `Numeric`  
New class for working with string-valued parameters representing numbers with units, such as 12u (12 micro) or 15n (15 nano).
- `GapStyle.MIN_CENTER`  
New spacing style for `MultiPath` and `Rect.fillBBoxWithRects()`.

## Change Requests

Like many companies, Ciranova uses Bugzilla ([www.bugzilla.org](http://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.

### 2008-07-02

723	Request Connectivity information displayed in Info pane
779	Slow Pyros performance caused by display error message
1415	Check libMgr::openLib() use of list of open libraries
1555	Need to provide "Numeric" functionality in standard package
1563	utilities should handle "/" at the end of the input library name
1585	Request documentation stop using "i" and "ii" page notation
1655	Should deprecate and later remove Dlo save(lib cell view) method
1664	change copyright dates in all documentation
1731	engenlib uses local directory matching libName rather than specified directory
1735	Pyros aborts when design is open, changing libraries and opening another design
1737	endmfiles should check number of parameters for --list option
1745	cnexp -V should not generate banner message
1752	openLib() function should evaluate environment variables and tildes
1777	Trying to use ruler in Pyros 4.2_1 causes Runtime termination
1782	pyros segfaults when an instance is rotated and then stretch handle is dragged
1793	Layer visibility state should not change while editing SubMaster
1796	Package change for partners/cds
1823	Conditional rule query corrupted during ruleset activation/deactivation
1824	cnexp should allow setting of user-defined self attributes
1827	MultiPath help message spelling error
1833	Enhancement for filling field of rectangles
1863	Derived layer generating primary layer error when purpose specified
1871	endmfiles creates erroneous attached file
1876	DISCONNECT must be recognized and ignored
1882	\$CNI_ROOT/bin/platname to be updated for new naming convention
1889	Loading a design with many pcells is slow
1901	Stretch handle stretchType definition to be corrected
1915	tech converter fails for gcc411 and OA DM4
1953	Non DRC layers are ignored in fgDeriveLayer()
1963	Conversion for operation SHRINK is incorrect