



Release Highlights for BluePrint-PCB Product Version 2.1

Introduction

DownStream has optimized BluePrint's performance to better handle large designs and complex drawings. We have also made significant quality improvements.

BluePrint V2.1 includes the following refinements over previous releases:

- Improved speed to place and drag PCB Views (2X)
- Improved snapping to PCB View objects (2X)
- Improved PCB view highlighting and selection algorithms (5X)
- Improved highlighting of copper pours (5X)
- Optimized Zoom command (4X)
- Improved Exploded View generation (2X)
- Optimized display of reference designators (2X)
- Faster Link Window generation (2X)
- Optimized Drill settings selection in the Format PCB View dialog (2X)
- Optimized File Export of DXF and PDF files (2X)
- Optimized BluePrint File Save and Open operations (2X)
- Optimized Panel Array generation (2X)
- Fabrication manager optimization (memory usage)
- Quality improvements for error handling of all import routines
- Quality improvements for undo/redo commands
- Quality improvements to text editor operation

In addition, BluePrint now has the ability to work directly with your PC's graphic's card using the industry standard OpenGL interface. If you have a fast graphics card and set BluePrint's new "hardware accelerator" option, you will see even better performance.

To turn on BluePrint's "hardware accelerator":

1. Select **Tools – Options – Drawing – PCB View**
2. Select the "**Use Hardware Acceleration**" checkbox.
3. Select **OK** to accept the changes and close the Options dialog.

BluePrint V2.1 Build 466 Defect Fixes

Product/Project	ID	Description
Automation API	53428	Enhancement to support Allegro ODB++ ASCII file method for import
Automation API	53429	Enhancement to query component extents
BluePrint Viewer	53424	The Link Window in the BluePrint Viewer is not displaying component reference designators. This works in BluePrint V2.0.1 Build 422.
BluePrint Viewer	53417	Enhancement to add "hardware accelerator" option
Callout	53202	Period character after note index remains with callout symbol
Dimensioning	53477	Dimensioning inside Exploded View is incorrect. This works in V2.0.1 Build 422.
ECO	53462	Orientation of rotated reference designators lost on ECO of design data. This works in V2.0.1 Build 422.
GD&T	53467	DST GD&T font occasionally becomes unregistered when working in two or more instances of BluePrint at a time.
GD&T	53407	All Around Symbol not displayed when format option selected. This works in BluePrint V2.0.1 Build 422.
Import Allegro ODB++	53471	BluePrint is not importing the copper weight in the ASCII files correctly
Import Allegro ODB++	53396	Request a warning during import when drill file not found
Import PADS ASCII	53409	PADS Default Tolerance setting is not imported
Import PADS ASCII	53414	Partial Via on inner layer displayed as wrong size in this design
Import PADS ASCII	53452	Variant imported incorrectly
Operating System		Windows 7 Support
Options	53434	Hardware Acceleration option with NVIDIA GeForce Go 7800 results in partial board outline on PCB Views at certain scales.
PADS ASCII Import	53461	Enhancement to handle new PADS Layout 9.0 feature
Text Box	53445	Cannot insert symbol or change text font in text box inside a BluePrint "container" (for instance, a detail)
Text Box	53446	Insert of Symbol in text box changes text font for next text insert and should not
Tools	53422	Trim tool causes crash when nomenclature with significant number of segments applied to sheet
Tools	53435	Measurement tool on drafting toolbar crashes when a second measurement applied. This works in BluePrint V2.0.1 Build 422.
User Interface	53423	Link Window does not invoke when hyperlinked ref des selected in Parts List for this file

BluePrint V2.1 Build 463 Defect Fixes

Product/Project	ID	Description
Assembly Drawing	53290	New Board View to display Side View without Components
Automation API	53213	API: Would like to suppress display of ODB++ import msg
Dimensioning	52925	Would like to dimension to copper pours
Drill Chart	53115	Drill Chart - Format to not display .015 unplated and .097 drills are erroneously not displayed
ECO	52965	Drills set as holes get reset to symbols on re-import of design file
ECO	53112	Changes made to Part Names lost on re-import
ECO	53120	Rotation of Attribute text reset on ECO if "Show Leader Lines" for Ref Des checked in PCB View Formatting
ECO	53388	Drill Chart - Save table As - Does not work - not applied after ECO or new document
Export PDF	53368	Export PDF - results in error and no PDF for this BPD file
Export PDF	53386	PDF output file held open by BluePrint
Import ODB++	52952	Import ODB++ - This file crashes on import
Import ODB++	53197	This ODB++ file crashes on import
Import ODB++	53378	ODB++ file will not import
Import PADS ASCII	53260	PADS 9.0 support
Import PADS ASCII	53282	Extra drill shows up in this design
Import Parts List	53118	Import Parts List - fails when no refdes in Parts List
OnLine Help	53263	OnLine Help - Explain PADS ASCII Variant methodology on ECO
Options	53126	Enhancement for Tools Options to contain setting for Min and Max Ref des size
Options	53275	Tools>Options Import Profile dialog is confusing
Panel Drawing	52990	Route and Arc Segments dropped onto scaled sheet do not scale.
Panel Drawing	53032	Panel Drawing element issues when sheet scaled
PDF/DXF Export	52931	PDF/DXF Export - Flags on linked notes in a noteblock do not export
PDF/DXF Export	52933	PDF/DXF Export - A noteblock footer exports to PDF/DXF but it is hidden in BluePrint
PDF/DXF Export	53106	Export PDF or DXF - Circular copper unfilled cutout exported to PDF or DXF as filled
Performance	53389	Performance: File - New - Drawing - Assembly Drawing takes 40 seconds on this drawing
Startup Template	53370	Use SAVE AS STARTUP to create document template, ref des's incorrectly left in template
System	53273	BluePrint crashes when changing "empty" font name in the font drop-down list to a font installed in the system

Product/Project	ID	Description
User Interface	52922	Must turn on ALL drills before being able to selectively turn on drills desired
User Interface	52971	Edit PCB View, place items, & close - if rotate PCB items do not rotate with PCB
User Interface	53098	Copy PCB View with BP Ref Des's, Paste into Word doc, Ref Des's do not show
User Interface	53127	Font units don't change in Font and PCB View dialogs
User Interface	53150	Document objects move randomly when toolbars are rearranged
User Interface	53223	Tool tip reports wrong layer: PADS ASCII
User Interface	53261	Format PCB View - Right Readable setting is not applied when checked
User Interface	53382	No zoom to select in Design view
User Interface	53391	Format Sheet - Change Sheet Size - select OK - Sheet does not change size until another action is taken
User Interface	53399	Incorrect DXF format in the Export Save As dialog and in the BluePrint help

New BluePrint V2.1 Functionality

The following functional enhancements are contained in BluePrint Version 2.1:

- ✓ Windows 7 Support (V2.1 and newer)
- ✓ PADS 9.0 Support
- ✓ Hardware Acceleration
- ✓ New DXF Export to create a single DXF file from a multi-sheet document

PADS 9.0. The File > Import > PADS ASCII command has been updated to support PADS Layout Version 9.0.

Hardware Acceleration. There is a new option under **Tools – Options – Drawing – PCB View**. When the option “Use Hardware Acceleration” is selected, BluePrint will leverage the hardware on your graphics card. The better the graphics card, the better performance you should see with this option selected.

New DXF Export to create a single DXF file from a multi-page drawing. You can now export a single DXF file representing a multi-page drawing. This is done by selecting the option **Tools – Options – Import/Export – DXF Export**. When the option “Export all pages into one file” is selected, BluePrint will export all pages of the release package into one DXF file, instead of creating individual DXF files for each page as is done by default.