



## Release Highlights for BluePrint-PCB Product Version 3.2

### Introduction

BluePrint V3.2 Build 670 is a rolling release, containing defect fixes for 3.2 functionality.

### Defect fixes for BluePrint V3.2 Build 670

Product/Project	ID	Description
Import IPC 2581	55235	CR5000 IPC-2581 import does not import slots correctly
User Interface	55132	Add Callout does not remove Note punctuation
Import Parts List	55133	Parts List import hang for UNIX format CSV file
Export PDF	55083	Side View envelope incorrect line width on PDF Export
Import BoardStation ODB++	55080	BluePrint displays the wrong component heights after importing this BoardStation design
User Interface	55079	Note punctuation is not restored after deleting reference or toggling off reference balloon
Export PDF	55077	Reference Balloons on Notes are dropped on exported PDF
Export PDF	55073	Score lines are not clipped by web routes on exported PDF
Operating System	55070	Crash on balloon tool tip on Windows 7 64 bit OS when DEP (Data Execution Protection) is enabled.
User Interface	55064	Drill holes are not visible for PCB Views on this design
Templates	55063	Adaptive Template crash when placing multiple references in Table cell
Export PDF	55000	PDF export drops voids in Gerber polygons
Common Tools	54939	Side View envelope covers board profile graphics

## **New Functionality in V3.2**

The following functional enhancements are contained in BluePrint Version 3.2:

- ✓ Adaptive Templates
- ✓ Dimensioning Enhancements
- ✓ Text Box Display
- ✓ Pan and Zoom Enhancements
- ✓ Updated Panel Options
- ✓ IPC-2581 Viewer Application
- ✓ Measuring Tool in PCB View
- ✓ Note Reference Option
- ✓ Defect Fixes

## **New Functionality Details**

### **Adaptive Templates**

#### Data Retention with Adaptive Templates

User defined content can be entered into table based templates and presented when the template is used in a drawing.

Add text, textual references, graphics, custom rows to templates and the objects are propagated to tables in addition to being populated with corresponding CAD data. User defined data is also preserved during data import and ECO operations.

Adaptive template support is available for Parts Lists, Drill Charts and Variant Lists.

### **Dimensioning Enhancements**

#### Dynamic Highlighting of Floating Dimensions

Dimensions not snapped to an object are known as floating dimensions. The dimension is disassociated from objects or “floating” on the drawing. New options for each dimension type enable highlighting and assignment of color to floating dimensions to make them more visually obvious. (54840)

#### Improved Access to Dimension Formatting

Access to the Format Dimension dialog was previously exclusive to the selection of the dimension and not accessed from selection of the dimension text. Dimension formatting is now accessible when selecting dimension text. (54841)

Coordinate Origin Limit

You can now define a maximum for the number of horizontal or vertical origins per sheet. When the maximum origins have been added, additional origins will be refused. (54843)

**Text Box Display Control**

Disable the Display of Text Box

By default, all text boxes are added with a visible bounding box around the perimeter of the text object. A new option is added to enable or disable the display of text box bounding boxes. Note: Changing the state of this option does not impact existing text boxes – only those created after the option state had changed. (54842)

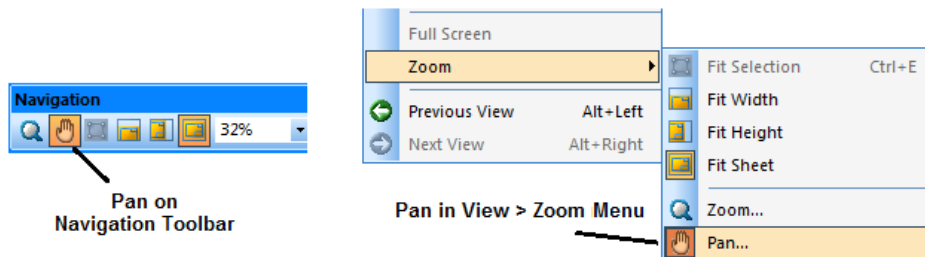
**Pan and Zoom Enhancements**

Mouse Zooming Option

Zooming can be achieved via the middle mouse button. Press middle mouse button and move the mouse towards the screen to zoom in. Move the mouse away from the screen to zoom out. A new option allows you to invert the mouse direction for zooming. Move away to zoom in and move towards to zoom out. (54095)

Pan Command

A new pan mode is added to the navigation toolbar and View > Zoom menu. Select the command to activate pan mode. Locate the cursor over the design, press and hold left mouse button to pan the view. (34032)



**Updated Panel Options**

Default Panel Chamfers

Default panel chamfer options can be set and applied to panels as an override or used by default when chamfers are not specified in the panel template. (54845)

Pinning Hole and Fiducial Drill Symbol Display

A new option allows you to set default visibility of drill symbols for panel pinning and fiducial drills. Disable the option to make them invisible. (54846)

## IPC-2581 Viewer Application

### Free IPC-2581 Viewer

DownStream Technologies, in support of the IPC-2581 Consortium, has developed a free IPC-2581 viewer. IPC-2581 is a file format specification used for transmitting PCB design data to a PCB manufacturing or assembly facility. The free IPC-2581 Viewer is available for download from our website at [www.downstreamtech.com](http://www.downstreamtech.com).

## Measuring Tool in PCB View

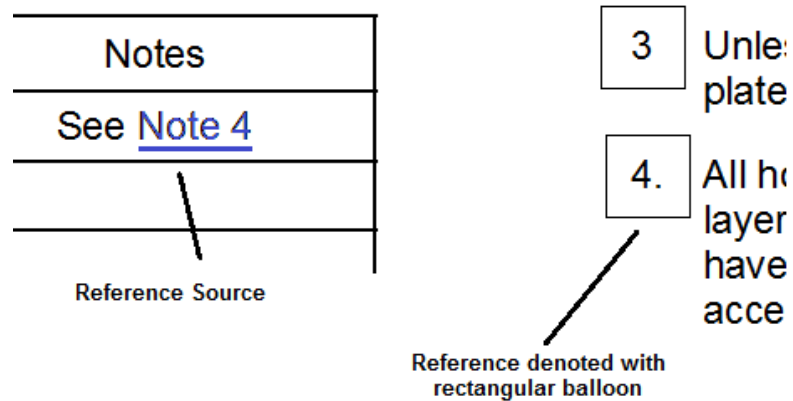
### Measure between objects with snapping

A new measuring tool is available in the PCB View. Click the command on the toolbar to initiate the measuring tool. Drag the cursor between objects to measure the distance.

## Note Reference Option

### Add Balloons for Text Based Note References

Notes referenced by other parts of the document are commonly denoted by a graphic “balloon” around its note number. It is now possible to have the reference balloon present when note reference is sourced from other notes. In the example below, a note column in the drill table refers to note 4. As a result the balloon is added around the number 4.



**Defect fixes for BluePrint V3.2 Build 664**

Product/Project	ID	Description
Adaptive Templates	54934	Adaptive Template was not working correctly in certain instances during ECO
Automation API	54984	Incorrect drill symbols are referenced when using the Automation API after BluePrint is closed and re-opened.
Automation API	54893	Automation API failure for modified text in Table Templates.
Common Tools	54921	Auto-sequencing command was failing in Build 660
Dimensioning	54922	Crash could occur after you created a dimension with tolerance format "Limit Dimensions", saved, closed and then re-opened the BluePrint file.
Import - Allegro ODB++	54981	Enhancement to allow multiple "names" to be listed for mapping to Part Name. The first one found in the design file that matches in the list is used. Also added the option to hide the prompt for successful attribute mapping to Part Name.
Import - BoardStation ODB++	54938	BoardStation ODB++ component height not read correctly on import
Import - BoardStation ODB++	54936	BoardStation ODB++ maximum pad size not read correctly on import
Import DXF	54923	DXF Import was incorrect for mirrored arcs
Note Block	54940	When you add a Reference Balloon using the checkbox in the Insert Reference dialog, the punctuation setting in the Note Block format dialog is not respected.
Online Help	54920	Online Help files were not accessible after we completed a DownStream website upgrade
Panel Array	54985	Improved PCB Data Clipping in the Panel Drawing
Parts List Manager	54983	For this design only, a crash occurred when a user part was added in the Parts List Manager.
Side View	54939	On a Side View, a profile of the board thickness is shown, and an envelope can be displayed representing the max height of the components. The envelop is displayed by a patterned rectangle and the envelope can overap the board profile graphics. User would like for the envelope to be displayed and not overlap the board profile.
User Interface	54979	The Ctrl-Drag operation (to copy) caused a crash when copying some BluePrint drawing elements.
User Interface	54980	Enhancement to default to displaying via visibility for all layers in the Design View
User Interface	54912	The Ctrl-Drag operation (to copy) caused a crash when copying a magnified view or a detail.

**BluePrint-PCB V3.2 Build 660 Defect Fixes**

Product/Project	ID	Description
User Interface	54905	Need the ability to replace a 8 bit font with a Unicode font for the Japanese and Chinese versions of BluePrint.
Printing	54906	Mirrored DXF images on a sheet do not print correctly
Dimensioning	54888	Leading zero suppression does not work for dimension tolerances
Dimensioning	54889	Over text position is incorrect for vertical dimensions that are pulled to the right
User Interface	54867	Added the Pan command to the BluePrint free viewers
Import Parts List	54890	When reading a CSV file, if user defaults to field type "by context", BluePrint uses only the first row to determine context, but should look at all rows. For nstance, the first row may be an integer and the second row may be text. The field type should be "string", not "integer" in this instance.
Import Parts List	54891	String delimiter does not support strings with embedded delimiter character
Common elements	54881	Not able to hide the outer borders of a table
Adaptive Templates	54892	Cannot hide cell broder in a user modified row of an Adaptive Template
Automation API	54893	Table text modifications lost for templates

**BluePrint-PCB V3.2 Build Defect Fixes**

Product/Project	ID	Description
Assembly Drawing	54813	Pin numbers are not associated with PCB View
Automation API	54836	API missing for File Import CR5000 IPC2581
Details	54814	For V-Score details, the Save To Gallery command is disabled.
Dimensioning	54747	Copy and paste, when cursor moved, results in paste far from the cursor
Dimensioning	54774	DST NEW font does not stay for Feature Control Frame
Dimensioning	54775	Dimension snap to the center of a slot
Dimensioning	54797	When multiple Dimension Text boxes are selected for Running Dimensions, the Format Group command crashes.
Dimensioning	54806	Metric Reference Graduations should be optionally placed at four sheet border center locations.
Dimensioning	54807	The Metric Reference Graduation is not repositioned correctly on the sheet border when a sheet is resized.
ECO	54812	When ECO revisions are displayed for signed off release packages, the PCB Views are not displayed for previous ECO revisions.
Export PDF	54778	PDF Export - Board Side View is too long
Export PDF	54811	Mentor BoardStation stroke font is not properly handled for PDF files exports from the BoardStation CAD system
Export PDF/DXF	54819	PDF DXF Export - incorrect web routes for flipped images
Fabrication Drawing	54837	Through holes incorrectly listed in Drill Chart on ECO import
Nomenclature	54815	Arcs and circles are displayed incorrect for drag and drop of an Application Block Element Gallery item.
Noteblocks	54009	Suppressed Header overlaps Note 1 making it un-editable
Noteblocks	54782	Note Reference Prefix setting is not saved
Panel Array Drawing	54818	The Panel Drawing Merge Web Route command hangs for certain complex board outlines.
User Interface	54095	Enh: Reverse middle mouse zoom directions
User Interface	54777	Noteblock balloon without callout - reference balloon
User Interface	54779	Note prefix lost when adding callouts
User Interface	54796	Snap Board Side View to Board Outline
User Interface	54835	Pin Numbers not displayed on top of filled pads

## **Patent, Copyrights, and Trademarks**

### **Patent**

“AUTOMATED PCB MANUFACTURING DOCUMENTATION RELEASE PACKAGE SYSTEM AND METHOD”, United States Patent No. 7,409,666 B2

### **Copyrights**

Copyright© 2005-2012 by DownStream Technologies, LLC. All rights reserved.

This information is copyrighted; all rights are reserved by DownStream Technologies, LLC. This information may not, in whole or in part, be copied, photocopied, reproduced, translated or reduced to any electronic medium or machine-readable form without the express written permission of DownStream Technologies, LLC.

DownStream Technologies, LLC., 225 Cedar Hill Street, Marlborough, Massachusetts 01752

### **Trademarks**

BluePrint , BluePrint-PCB , BluePrint for Printed Circuit Boards , and CAM350 are registered trademarks of DownStream Technologies, LLC. Adaptive Templates™ is a trademark of DownStream Technologies, LLC. Adobe, Adobe PDF Library, Adobe logo, Acrobat, PostScript, and Photoshop are either registered trademarks or trademarks of Adobe Systems Incorporated. The Postscript language is copyrighted by Adobe Systems Incorporated. DXF and Autodesk are registered trademarks of Autodesk, Inc. FLEXIm is a registered trademark of Macrovison Corporation. Omnify is a registered trademark of Omnify Software. Microsoft, Windows, Microsoft Paint, Microsoft Word, Microsoft PowerPoint, Microsoft Excel are either registered trademarks or trademarks of Microsoft Corporation. All rights reserved.

All other trademarks or registered trademarks are the property of their respective owners.

We have done our best to ensure that the material found in this publication is both useful and accurate. However, please be aware that errors may exist in this publication, and that neither the authors nor DownStream Technologies, LLC. make any guarantees concerning the accuracy of the information found here or in the use to which it may be put.