



Release Highlights for BluePrint-PCB Product Version 2.2.2

Introduction

BluePrint V2.2.2 Build 512 is a “rolling release”. Rolling releases enable us to provide enhancements and defect fixes to the market very quickly.

Enhancements

BluePrint now officially supports Microsoft Windows 7 (32 and 64 bit).

Updates

- Online Help
- End User License Agreement

Defect Fixes

Product/Project	ID	Description
Export PDF	53892	BluePrint was incorrectly exporting polylines with voids
Export DXF/PDF	53789	BluePrint was not exporting inserted objects (for instance a spreadsheet).
User Interface	53918	Feature Control Frame incorrectly moves position when leader line is hidden
Format Drawing Element	53917	Format Drawing Element on Detail in this file results in error
Import PADS ASCII	53981	Support for PADS 9.2 ASCII
Installation	53277	Environment variable substitution support for path specifications in BluePrint
Automation API		ShapeBorder property, ReqHorzMargin, was not working correctly
Import PADS ASCII		PADS import was incorrect when attribute name matched keywords in PADS ASCII file.

BluePrint V2.2.1 Build 508 is a “rolling release” with the following defect fixes:

Product/Project	ID	Description
Export PDF	53831	Export PDF crash
Export PDF/DXF	53780	Incorrect PDF/DXF output for feature control frame
User Interface	53797	Ref Des shift in PCB View when exporting PDF while text selected in noteblock
Panel Array	53828	Merge web routes does not drop all poly islands on this complex board outline

BluePrint V2.2.1 Build 506 is a defect fix release. Two problems were addressed in this release:

1. BluePrint would sometimes crash when you selected a PCB View icon in the Tools palette (for instance, the Drill Pattern button in the Fabrication Tools palette) to invoke the associated template dialog and then selected OK to place the Drill Pattern view on the drawing sheet. This has been fixed.
2. Defect 53725 was a Zuken ODB++ Import issue where negative plane voids were causing vias to be dropped.

Note: We recommend that you install your new license that is included on the installation media. Select the Installation Option, **Install License File**, and then select **Install License file from Installation Media**.

BluePrint V2.2.1 Enhancements

The following functional enhancements are contained in BluePrint Version 2.2.1:

- ✓ New Backdrill Layer Stack-up
- ✓ Board in Side View can now be displayed as unfilled or filled with a color independent of components
- ✓ Reference Designators can now be displayed as grouped ranges in the Process Step Chart
- ✓ New Dimensioning snap points to the center of lines and the center of closed polygon shapes
- ✓ Automation API enhancements

BluePrint V2.2.1 Build 505 Defect Fixes and Enhancements

New Backdrill Layer Stack-up. You can easily create a Backdrill Stackup representing the CAD design data you have imported. The Backdrill Stackup displays the design layers with graphics representing the Backdrills. The Backdrill Stackup detail can be found in the Fabrication Drawing Palette and is placed on the active sheet using a drag and drop operation. To display backdrills, BluePrint requires that the Tooltype definition includes the Start and End layers.

Board in Side View can now be displayed as filled or unfilled. Format the Side View and select the Display tab of the Format Side View dialog.

Reference Designators can now be displayed as grouped ranges in the Process Steps Chart. By default, the Process Steps Chart will execute and display with one part (one reference designator) per row. You can also display the Process Step Chart with a range of reference designators (one part name) per row. Select "Ranges" next to "Display reference designators as:" on the Data Source tab of the Process Steps Chart Format dialog.

New Dimensioning snap points to the center of lines and closed polygons. BluePrint now automatically creates snap points at the center of lines and calculates the center of simple and complex closed polygons.

Automation API Enhancements.

- New API method to set Parts List header visibility
- New API method for path specifications

Product/Project	ID	Description
Fabrication Manager	53566	Fabrication Manager - Changes in drill tolerances are not reflected in document for this design
Import ODB++	53583	For ODB++ Import, drill table gets overridden with autoassigned drill symbols
Import PADS ASCII	53584	Top side components displayed incorrectly for this design. Layer type defined as "general".
User Interface	53593	PREVIEW button in Component Format Dialogue causes shift when changing the display flag on a component overhanging the board outline.
Drafting Tools	53594	Enhancement to add dimension snapping points to the center of lines and polygons
Drafting Tools	53598	Transform->Rotate does not work for certain drafting elements in the PCB view
Setup	53612	Unexpected user file in Element Gallery results in crash when Fabrication Notes selected
Import PADS ASCII	53618	Truetype text is displayed different after import of PADS ASCII
Export PDF	53620	Exported PDF display of pads is incorrect on this document
Import PADS ASCII	53621	Silkscreen layers missing data after PADS Import
Import PADS ASCII	53622	Pads are displayed with incorrect size and shape after import PADS ASCII
Drafting Tools	53628	BluePrint does not snap to drills at ends of slot
Favication Drawing Elements	53641	Backdrills stackup - Cannot format to show only backdrills stacked (no vias) on this design
Import PADS ASCII	53642	Top View component outlines do not display correctly
File Open	53659	V1.8 document Variant preferences incorrectly changed to filled when opened in V2.2
Import PADS ASCII	53664	In this design, with component which has top and bottom definition, the bottom side of the component does not display
Import Allegro ODB++	53501	In this design, some of the components display without outlines and unassociated pads
Export PDF	53522	For this design, exported PDF incorrectly displays voids and copper pour
Import ODB++	53617	Custom soldermask pads displayed incorrectly
Import PADS ASCII	53618	For this design, truetype font is displayed at incorrect size.
Insert Object	53228	BluePrint document cannot be inserted as an Object in MSWord or Powerpoint
Import Altium ODB++	53687	Error on import when this Altium ODB++ design is imported a second time
User Interface	53702	Reference Designators display incorrectly when they are placed outside the board outline of a pcb view in edit mode and then moved back within the board outline.

Product/Project	ID	Description
User Interface	30336	Text Box - Tab key inserts a "box" symbol instead of performing the tab function
Import PADS ASCII	52247	Import PADS - TrueType Font size displayed too large after importing this ASCII
Automation API	53206	Need API to set Parts List Header visibility
Format	53207	Header not placed on split Parts List column
Assembly Drawing Elements	53208	Side view enhancement option to define the board display as unfilled or filled with a color
User Interface	53228	BluePrint document can not be inserted as Object in MSWord or PowerPoint
User Interface	53286	"Shift" issue with drafting elements placed in PCB View in edit mode
Assembly Drawing Tools	53416	Option to group ref des by range for Process Steps
User Interface	53420	Design view - ability to search for bottom side components
Fabrication Drawing Elements	53436	Enhancement request to display backdrills in layer stackup
Options	53440	Profile currency is lost
User Interface	53443	Patterned lines and shapes are very hard to see on display and printout
User Interface	53465	Callout number disappears when callout is moved
Import Zuken ODB++	53479	Import Zuken ODB++ - These CADStar files do not import into V2.1
User Interface	53480	Graphics Issue when zooming in on this exploded view
Import ODB++	53482	Height attribute value is ignored
Format	53489	Apply Format command - The selected ref des format (placement and orientation) is applied to all PCB Views and should be applied only to the selected PCB View
User Interface	53498	Link Windows (callout to note, PCB View) are not opening at proper scale
Assembly Drawing Tools	53509	Process Manager Crash on this ODB++ design
Format	53511	Format Ref Des - Regression where format dialog for selected ref des does not apply text formatting
Panel Array	53520	Total Drill Count not updated for panel
Import Allegro ODB++	53527	Allegro ODB++ import drops slot tolerances
Standalone Viewer	53542	Viewers - Component outlines are not highlighted when Search links selected
Import PADS ASCII	53549	Importing a PADS 9.0 design with rounded rectangles results in an erroneous warning
User Interface	53553	Tool tips can display beyond screen edge so that you can not read the entire tip
Drafting Tools	53556	Diameter dimensioning of pads with this design data results in crash
Automation API	53557	Missing API methods for path specifications
Assembly Drawing Tools	53559	Parts List Manager - sorting by reference designators with this design results in crash
Export PDF	53563	Export PDF - Ref Des orientation displayed incorrectly

BluePrint V2.2 Enhancements

The following functional enhancements are contained in BluePrint Version 2.2:

- ✓ Internet Explorer 8 support
- ✓ AutoCAD 2007 support
- ✓ Ability to display Reference Designators in BluePrint's Design View
- ✓ Ability to set the location for BluePrint's Startup files
- ✓ BoardStation and Expedition import enhancements
- ✓ Improved Online Help Search and Highlight
- ✓ Automation API enhancements

BluePrint V2.2 Build 486 Defect Fixes and Enhancements

Import Allegro ODB++ (defect 53426). In some cases, the Allegro ODB++ export does not include the Part Name. In these cases, BluePrint recognizes that the Part Name is missing and maps the Part Name to the components Package Name. BluePrint V2.2 Build 486 has been improved so that the user can map the Part Name to a specific component attribute:

1. Select **Tools – Options – Import/Export – Allegro ODB++**.
2. Under **Part Name Mapping** select the **Component Attribute** radio button. Enter the Component Attribute name (does not need to be context sensitive).
3. **Import Allegro ODB++**. BluePrint will map the specified Component Attribute to the Part Name.

Import Allegro ODB++ (defect 53521). Fixed a problem where layer thickness and copper weighting values were not always displayed correctly when measurement units were anything other than mils.

BluePrint V2.2 Build 485 Defect Fixes

Product/Project	ID	Description
Automation API	53447	PDF export, using the Automation API, drop line feeds for text
Automation API	53430	Components with arcs that hang beyond the board outline are incorrectly clipped when the option to "Limit PCB View to board outline" is selected through the Automation API.
Automation API	53428	Added Allegro ODB++ Advanced ASCII import file method
Automation API	53429	Added API method to get component extents
Automation API		Polarity Marking Support
BluePrint HTML Viewer	53439	BluePrint HTML Viewer does not work in Internet Explorer 8
Component Coordinate Chart	53117	Component Coordinate Chart improvements when generating on large designs
Export DXF	53506	Exported DXF does not open in AutoCAD 2007
Import BoardStation ODB++	53411	BoardStation ASCII file support to import layer thickness and copper weight
Import Expedition ODB++	53323	Added Expedition ODB++ True Type Font support
Import PADS ASCII	53452	Variant in this design file is imported incorrectly
Online Help		Improved Online Help search results
Parts List	53401	In the parts list, when you sort by ref des, the sort is alphabetic, left to right. CAD systems typically sort ref des by ref des prefix and then by ref des index. Instead of order: U1, U10, U2, U20, U3, .. the order should be: U1, U2, U3, U10, U20.
Parts List	53207	Headers not put on new sections appropriately when the Parts List is formatted to expand up and to the left.
Tools - Options	53408	BluePrint now has the ability to lock the document so that it can not be opened by CAM350
Tools - Options	53111	BluePrint now has the ability to specify a location for your startup files
User Interface	53204	BluePrint now has the ability to find all lower case text in document. MIL specs need to be uppercase.
User Interface	53398	Drill tolerances are not updated appropriately when sheet units are changed
User Interface	53277	Path specifications in BluePrint now support environment variable substitution
User Interface	53387	BluePrint can now display reference designators in the design view
User Interface		Rotation of PCB View with embedded shapes extends the PCB View canvas incorrectly

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