
DownStream BluePrint 6.1 Release Notes

Build: 1581

Date: 5/15/2020

What's New?

This document describes the new features, enhancements and defect fixes in this Release:

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Release Summary

BluePrint 6.1 is a minor update to BluePrint 6.0. BluePrint 6.0 has been converted to 64 bit and now uses a new common database which it can share with CAM350 14.0. Both products now render design data in 3D. BluePrint 6.0 has added several new 3D drawing elements to improve PCB documentation. There is a new Stack Up Visualizer, 3D PDF export, and many other new features. BluePrint 6.1 adds Japanese language support, improved 3D hole rendering for drills, Publish to Web functionality and defect fixes.

Installation and Licensing

There is a new 64-bit License Manager and License required to run the CAM350 14.1 and BluePrint 6.1 license.

The installer for the client software (CAM350 14.0 and BluePrint 6.0) will create new folders and you can run both your previous release (CAM350 12.2 and BluePrint 5.2) and your new Release software side by side on the same PC if you wish.

For many users your installation should be as simple as this:

1. Run the installation executable
2. Choose “Install License File” to install the new License Manager.
 - a. If you are an existing customer on maintenance, choose “Install license from media” to install your new license file.
 - b. If you are a new user or your license is not found on media, get your new license from DownStream, copy it to your PC and then choose “browse to select” you license file.
3. Choose “Install DownStream Products” to install the new CAM350 14.0 and BluePrint 6.0 Beta software on your PC.

If you are installing to a Virtual Machine or have any questions, reference our DownStream Installation Guide or contact us at support@downstreamtech.com.

Notice: Microsoft requires that all Microsoft components installed on a PC are of the “same bit”. Since BluePrint 6.x is 64 bit and installs Microsoft Access Database 2016 (64 bit) to query it’s database, MSOffice 64 bit is required on the same PC. The DownStream install now checks to see if MSOffice 32 bit is installed and warns the user if this is the case.

System Requirements

Your PC should meet or exceed the following requirements:

- OS: Windows 8.1, 10 (64 bit only)
- Processor: 2GHz or faster
- Memory: 8GB+
- Disk Space: 1GB available
- Graphics: Discrete graphics card with on-board memory preferred (for best 3D performance)
- MSOffice 64 bit

Note: Please be aware that CAM350 14.0 and Blueprint 6.0 are 64 bit applications and will ONLY run on 64 bit Windows 8 and 10. DownStream has discontinued support of Windows 7.

Note: If you run Microsoft Office on the same PC as Blueprint then you must use a 64 bit version of Microsoft Office. Microsoft Office 32 bit will no longer run after Blueprint 6.x is installed. Microsoft requires that Microsoft Office components must be of the same “bitness” on a PC. Blueprint 6.x installs a Microsoft Office 64 bit component that will render Microsoft Office 32 bit inoperable.

Blueprint 6.1 New Functionality

- ✓ Japanese language support
- ✓ Improved 3D hole rendering
- ✓ Publish to Web functionality
- ✓ Display pads in Variant for uninstalled parts
- ✓ New lower case drill symbols added
- ✓ Option when Parts List executes to add new sheets contiguously or at the end of the drawing
- ✓ Magnify views can now display their pictorials on a different sheet
- ✓ Link window now remembers last size setting
- ✓ New oval shape for Callout balloon shape
- ✓ We now import the Allegro Drill Tool Size
- ✓ New option to ECO map by layer name vs layer order
- ✓ Improvement to PCB View visibility setting layer mapping for ECO & Startup files
- ✓ Enhancement to allow Group Select on the Parts List Manager Imported data and User data pages
- ✓ Enhancement to retain PCB RefDes on ODB++ import

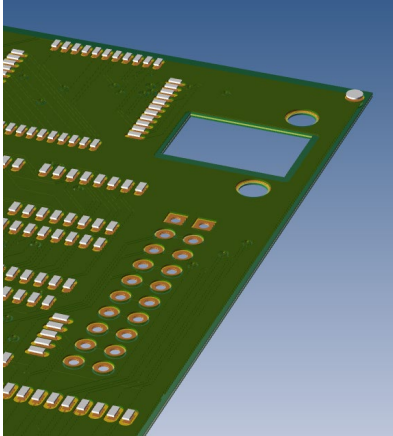
BluePrint 6.1 New Feature Details

Japanese language support

We now provide a special build of BluePrint 6.x with dialog, ribbons and menus translated to Japanese text.

Improved 3D hole rendering

We now show drill holes properly as holes through pads and any other PCB material through the board. Through holes, blind vias, buried holes, plated, unplated holes and backdrills are displayed with a more realistic representation.



Publish to Web functionality

BluePrint 6.1 includes the same Publish to Web functionality that is included in BluePrint 5.2. That is the ability to view a BluePrint document in Internet Explorer using a BluePrint HTML viewer and ActiveX control.

Important Notes: Publish to Web ONLY works with Internet Explorer. You cannot open the resulting HTML in another browser. Publish to Web relies on an ActiveX control which requires Internet Explorer.

Important Notes: As of BluePrint 6.1, the user must create a new Internet Explorer registry key to allow IE to run a 64-bit ActiveX control. If you also run other application ActiveX controls that are 32-bit you may need to first delete this new registry key.

How to Prepare Internet Explorer:

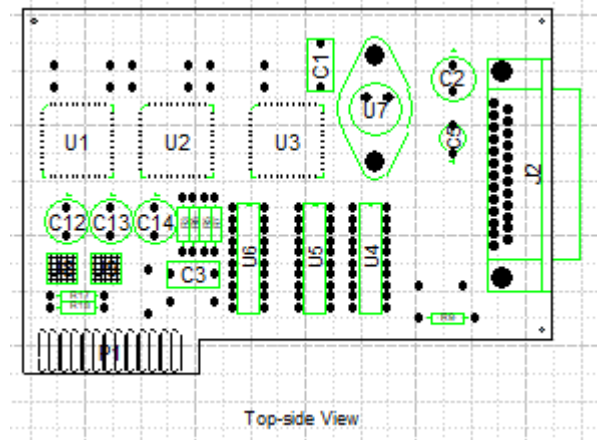
If you are using BluePrint 5.2 or an earlier release than there is nothing you need to do. These BluePrint releases are 32 bit and so is Internet Explorer. The default Internet Explorer settings will run Publish to Web successfully. If you are using BluePrint 6.1 or a later release, you must follow the steps below to enable

Internet Explorer to run a 64 bit ActiveX control. BluePrint 6.1 is a 64 bit application.

1. From MSWindows Start button, select the Run command and in the Run dialog enter regedit. Select OK on the Run dialog and the Registry Editor will invoke.
2. Browse to Computer\HKEY_CURRENT_USER\Software\Microsoft\Internet Explorer\Main.
3. With your cursor over the registry key Main, select RMB to see the context menu and select New and then DWORD (32-bit) Value. For this new key enter the name TabProcGrowth with default value (0).
4. Exit the Registry Editor

Display pads in Variant for uninstalled parts

Users have requested the ability to show a Variant with uninstalled part outline and ref des off, but the uninstalled part pads displayed. There is a new setting under Options-Drawing-Assembly Variants for “Show pins of hidden components”.



Link window now remembers last size setting

Users have requested that BluePrint remember the last size setting for the link window and to use that setting the next time the link window is opened. Previously, BluePrint always defaulted to a pre-set size for the window.

Magnify Views can now display their Pictorial window on another sheet

When you first create a Magnify View you define and display its Pictorial window on the same sheet as the PCB View it is magnifying. However, you may want to move that pictorial to another sheet. You can now do just that using the “Move Pictorial to Sheet...” command on the context menu of the Magnify View pictorial.

When Parts List expanding, insert any new sheets needed contiguously

By default, when a BluePrint executes a Parts List, if it needs to insert a new sheet it adds the new sheet to the end of the drawing. So you might place the Parts List on sheet 1 of a 5 sheet drawing and if there is no other space for the Parts List, BluePrint will add a new sheet 6, 7, etc... You can now tell BluePrint to insert the new sheets contiguously after the sheet the Parts List is placed on. In this example, the Parts List would execute on sheet 1 and then insert sheets 2, 3, etc...until the Parts List is complete. This new option can be found on the Options tab of the Format Parts List Template dialog. Select "After current sheet" under "Auto-split Options".

New Lower Case drill symbols

We have added Lower Case drill symbols to our drill symbol options in the Fabrication Manager. These new symbols are not available by default. To add them, you can open the Fabrication Manager, select Drill Symbol Formatting and then "Add..." a new table. You will then see the original and new drill symbols in the "All drill symbols" table. Select and move the new drill symbols (and any original drill symbols you want to use) into the "Symbols to use" table. Select Preview or OK to accept the changes.

Improvement to PCB View visibility setting layer mapping for ECO & Startup Files

In BluePrint 5.2, the PCB View layer mapping was very simple and sometimes problematic. ECO was mapped by layer name and Startup files were mapped by layer order. Any changes in layer names or layer order could cause the PCB View visibility settings to be incorrect after import of design data. In BluePrint 6.x, layer mapping was improved to intelligently map by layer type. For instance, silkscreen top will always be mapped to the silkscreen top for the newly imported data no matter if the layer name or layer order matches. In BluePrint 6.1, build 1576, we have taken this intelligent layer mapping concept even further. In addition to looking at layer type we now recognize "groups" of layer types, such as Inner Electrical layers, Dielectric layers and Documentation layers. Within those groups and other layer types, the user can specify to map by layer name or layer order, depending on their design process. See the "ECO Layer Format" option under Options – Import/Export – ECO Layer Format Mapping.

Group Select enhancement in the Parts List manager

You can now select single or multiple parts within the Import data and User data tabs to set or clear the Hidden checkbox. This feature greatly improves usability when the user has a large number of parts that they want to hide or make visible in a Parts List. Select, Ctrl-Select and Shift-Select all work as they do in typical Windows applications.

Option to assign PCB Decal or Footprint outlines for missing component assembly outlines during PCB CAD data import

When there are no assembly component graphics in the design, the user now has the option to tell BluePrint to use the PCB Decal or Footprint graphics. This mapping is done on import. The new option can be found on the Import/Export – General page of the Options dialog under "Missing Component Assembly Outlines in Imported PCB CAD".

BluePrint 6.0 New Functionality

- ✓ 64 bit database
- ✓ 4K resolution support
- ✓ 2D Graphics - New net name and pin number visibility when zoomed in
- ✓ New 3D Graphics engine and Features
- ✓ New 3D drawing elements (3D PCB Views, 3D Stack Up, Scrollable Note Blocks and PL)
- ✓ New 2D/3D PDF Export
- ✓ New 3D STEP Import
- ✓ Screentips for Menu ribbons
- ✓ Updated 2013/2016 UI backstage
- ✓ Updated palettes, ribbons and icons
- ✓ Format Painter
- ✓ Enhanced BluePrint Viewer with 3D viewing
- ✓ Table drawing element improvement for tabbing and edit selection
- ✓ Stack Up Visualizer
- ✓ Dielectric support

BluePrint 6.0 New Feature Details

64 bit database

CAM350 and BluePrint now share a 64 bit database. Our products can now import and work with very large CAD databases with the only restrictions being the processor and physical memory in your PC. You can also create a database with CAM350 that can be opened by BluePrint and vice a versa. If you import CAD data in CAM350 and same to our common database format (DPD), then you can open that file in BluePrint and work with the imported CAD data without having to re-import the data.

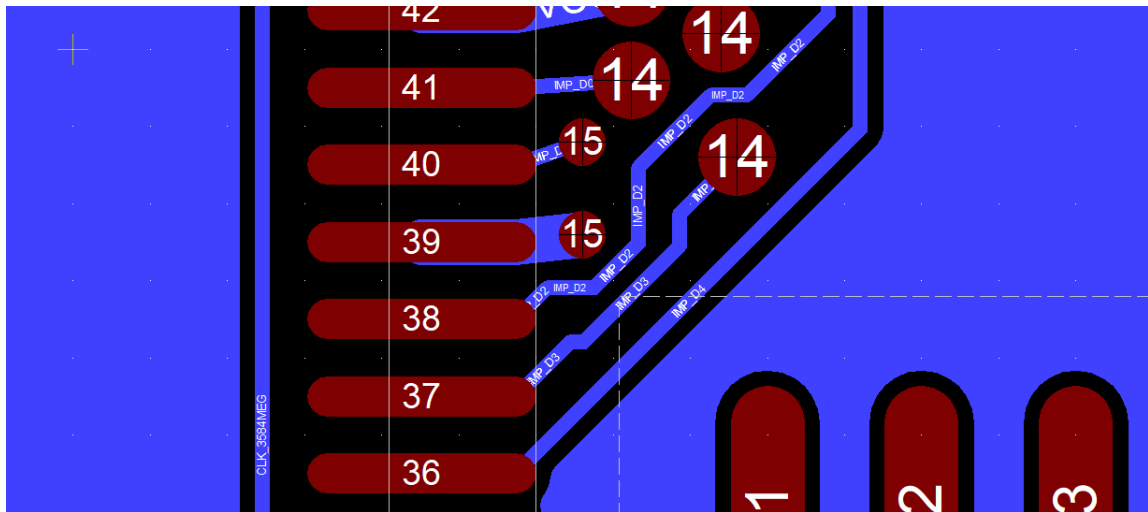
Note: CAM350 14.0 and BluePrint 6.0 are 64 bit ONLY. We have discontinued support for 32 bit. Microsoft's 64 bit OS was introduced on Vista in 2006. All new PC's and laptops are installed with 64 bit processors and Windows OS. CAM350 14.0 and BluePrint 6.0 take full advantage of today's PC power and performance.

4K resolution support

CAM350 and BluePrint now support 4K resolution screens. "4K" refers to a horizontal screen display resolution in the order of 4,000 pixels (for instance, 4096x2160). 4K is used by many of today's most popular laptops. 4K support in a software program requires smaller, high resolution icons and modifications to dialogs and panes that are too large for a smaller screen.

2D Graphics – New net name and pin number visibility when zoomed in

BluePrint display of CAD data now displays net name and pin numbers when you are zoomed in to the design.



New 3D Design View

BluePrint's 3D Design View lets you visualize a 3D model of your imported design data. The 3D Design View is rendered automatically from your imported ODB++, IPC2581, or PADS ASCII design data. Components are rendered based on their silkscreen outline and height information. The board, components, pins, drills, vias, nets and copper are all rendered in 3D. Because the 3D visualization is rendered directly from your imported CAD data it is updated in real time when a design ECO occurs and new data is imported.

You can interact with your 3D Design visualization by changing the rotation, zoom, camera angles and other features found on the 3D ribbon and by using your mouse.

Mouse Commands	Rotate, Zoom, Move
Zoom large increments Center Mouse Button Scroll	Zoom in and Zoom out. Uses large increments to zoom in/out.
Zoom small increments Ctrl-Center Mouse Button Scroll	Zoom in and Zoom out. Uses small increments to zoom in/out.
Move	Moves 3D image.

Select Right Mouse Button in 3D Design View, hold down and drag cursor	
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3D Ribbon - Perspective	Home, View, Flip Board, Previous View, Next View
Home	Brings 3D image back to Home position in 3D View. Typically centered on first layer.
View	If you think of the 3D PCB image as a cube, you can use the View command to display the Top, Bottom, Front, Back, Right, and Left sides of the cube.
Flip Board	Flips the Board
Previous View	Shows the 3D image before your most recent change was made
Next View	If you have selected Preview View, Next View will bring your display back to the state before your Previous View command.

3D Ribbon - Axis Cut	The 3D image can be cut by X, Y and Z planes or any combination.
X Plane	Select the X plane button on the Axis Cut group of the 3D ribbon. A rectangle representing the plane will display next to the 3D image. Select and drag the plane into the 3D image to cut the image.
Y Plane	Select the Y plane button on the Axis Cut group of the 3D ribbon. A rectangle representing the plane will display next to the 3D image. Select and drag the plane into the 3D image to cut the image.
Z Plane	Select the Z plane button on the Axis Cut group of the 3D ribbon. A rectangle representing the plane will display next to the 3D image. Select and drag the plane into the 3D image to cut the image.

3D Ribbon - Camera	Commands that reflect the view as if you were looking through the lens of a camera.
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Move	The display of the 3D image changes based on the position of the camera. For instance, if you move the camera Forward towards the 3D image, the image will get larger as you would expect. If you move the camera Backward from the 3D image then the image will appear smaller.
Pitch	Camera Pitch is the rotation of the camera around the 3D image up/down and right/left.
Field of View	The field of view is the extent of the 3D image that can be viewed through a pre-defined camera lens angle, 90, 45 or 22.5 degrees.
Level	Level brings the camera level (90 degrees) to the Home surface. Level removes pitch, but retains zoom and rotation.

3D Ribbon - Display	Commands that change the display of the 3D rendering
Configure - Wireframe	A 3D wireframe model is an edge or skeletal representation of the 3D image
Configure - Hollow Planes	Displays "see through" planes
Configure - Thickness	Displays planes with thickness from design data, no plane thickness or only the thickness of copper (pcb layer) planes.
Spread	The Spread command creates distance between the layers so that you can see between them. Selecting the Spread button on the 3D ribbon "spreads" one layer at a time. The Spread command is disabled once all layers have been spread.
Squeeze	The Squeeze command "un-spreads" (squeezes) the distance between the layers, one layer at a time. The Squeeze command becomes available when any layer is Spread.
Peel	The Peel command "peels" one layer at a time off the 3D PCB image and places it to the side.
Reapply	The Reapply command "un-peels" one layer at a time and places it back onto the 3D PCB image.
Colors Preset	You can define colors and transparency levels for different layer types.
Colors by Layer	When this command is selected your Color

	Presets are displayed. When this command is not enabled, the colors defined in the PCB View Format pane are displayed.
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3D Ribbon - Components	Actions that can be performed on components.
Show	This command toggles Components on/off in the 3D PCB view

3D Ribbon - 3D Source	These commands control the display of the 3D source for the 3D design window (the native rendered PCB image or STEP files)
Native Render	The Native Render button displays imported CAD design data in the 3D Design View
STEP File	The STEP file command displays the selected STEP file (from the STEP file button drop-down) in the 3D Design View.
STEP Explorer	Displays a Task Pane with the imported STEP file data in a tree format. When you select nodes in the tree, the corresponding STEP data will highlight in the 3D Design window.

3D Ribbon - Dimensioning	These commands allow you to measure and dimension a 3D STEP image. These tools cannot measure and dimension 3D Native rendered images.
Measure - Point to Point	Select the first point and then select the second point. A dimension representing the length between the two points is created.
Measure - Length	Select a circular object and move the cursor to create a radius dimension. Select a rectangular object and move the cursor to create a dimension of the side of that rectangle.
Measure - Feature to Feature	Select two objects in the 3D STEP image and a dimension will be created of the distance between the two objects.
Measure - Face Angle	Select the face of two objects and a dimension will be created of the angle between those two faces. For instance, an angle between the side of a component and the surface of the board might be 90 degrees.

3D Ribbon - Utilities	
Screen Shot	The screen shot command will create a bitmap of the image in the 3D Design View window. You can define the name, location and file type to save the bitmap.

New 3D Drawing Elements

In addition to standard two dimensional PCB documentation, BluePrint provides 3D functionality which allows you to:

- Create and place 3D PCB Views in your documentation
- Add scrollable and interactive Parts List and Noteblocks to your documentation
- Import and place 3D STEP files

BluePrint automatically renders 3D views of the design data using component height information. This 3D data can be viewed, edited and placed on your documentation to better communicate the fabrication and assembly of your design. You can also import 3D STEP files to augment your documentation with a 3D rendering of your PCB from your CAD system or adjacent assemblies (such as EMI shields, heat sinks, and enclosures) from your mechanical system. Your 3D documentation can be reviewed in BluePrint's standalone viewer or exported to 3D PDF where the 3D PCB views, scrollable Parts List and Noteblocks can be examined interactively. BluePrint's 3D drawing elements are found on the Common, Fabrication and Assembly tool palettes. After import, 3D STEP models are found in the Imported Task Pane and can be drag and dropped onto your documentation sheet.

The screenshot displays a 3D PCB drawing sheet with a grid background. It includes two 3D views of the PCB: a top-side view and a bottom-side view. The top-side view shows the components on the top of the board, while the bottom-side view shows the components on the reverse side. A scrollable note block contains assembly instructions. A scrollable parts list table is also present, listing components such as a linear regulator, crystal, connector, EPROM latch, RAM, and capacitor. A revision table is located in the top right corner, and a title block is at the bottom right.

3D Top-Side View

3D Bottom-Side View

ASSEMBLY NOTES: UNLESS OTHERWISE SPECIFIED

1. This is a static sensitive assembly- use static eliminating measures during assembly and handling.
2. Manufacture to IPC 610A workmanship standards.
3. Trim component leads within .062 from solder side of PWB with exception of indicated areas, which must be trimmed to .010 +/- .005.
4. Apply part number and serial number labels in areas shown.
5. Install item 19 (120-1032-001) heat sinks as follows:
 - A. Clean bottom surface of heat sink and mounting.
 - B. Apply sufficient amount of item 21 (120-1031-001), epoxy-sub, to

Parts List

Item No	Qty	Ref Dets	Part Name	Description
1	1	REF 1000	4VREG	+5V LINEAR REGULATOR
1	1	REF 1000	24-07MHZ	24-07MHZ
1	1	REF 1000	20PINCONN	CONNECTOR, RIBBON, 20 PIN
2	1	REF 1000	87C250	32K X 8 BIT CMOS EPROM LATCH
2	1	REF 1000	AM 100415	1024 X 1 MEG 11 EDC 8 POLAR RAM
8	1	REF 1000	CAP1208	SURFACE MOUNT CAPACITOR 0.082

REVISIONS

REV	DESCRIPTION	DATE	APPROVED

REVISIONS

REV	DESCRIPTION	DATE	APPROVED

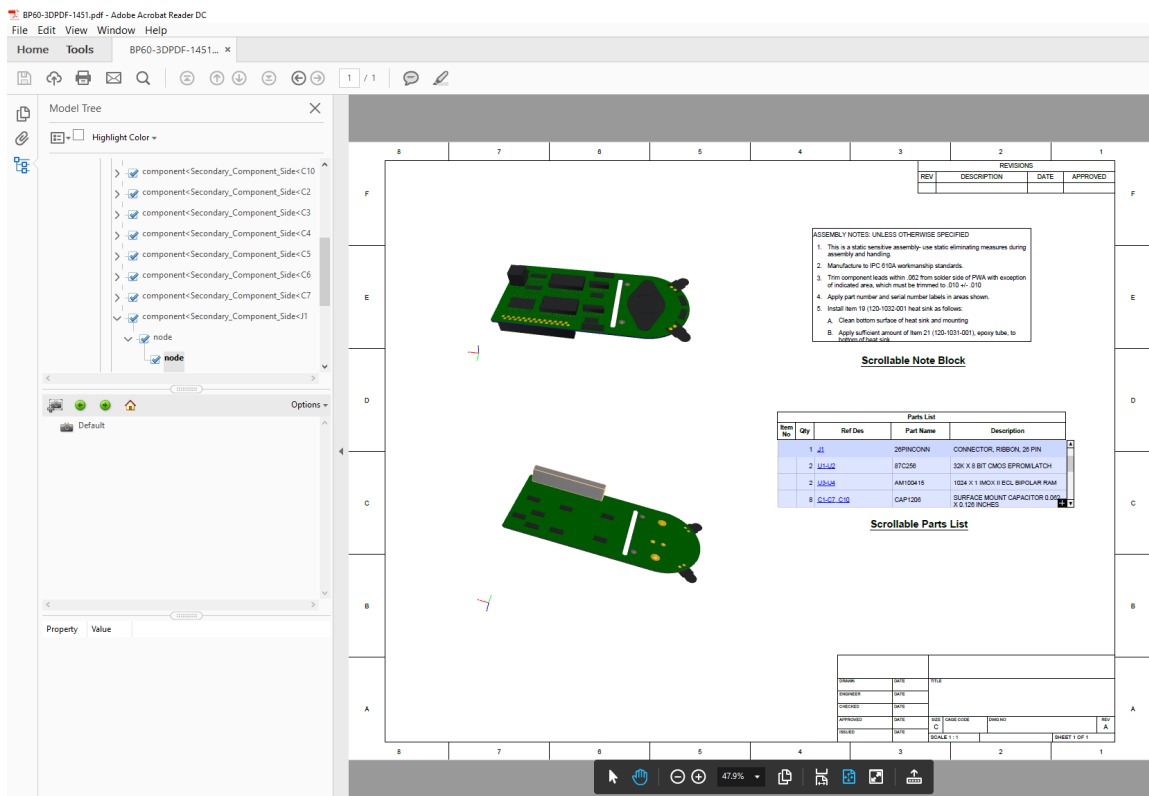
SCALE 1:1

SHEET 1 OF 1

PDF Export has been updated to include 3D drawing elements

In BluePrint, you can create high-quality 3D content in your documentation. When you export that document to PDF, you can then view and interact with the 3D content in the Adobe Acrobat Reader. For example, in BluePrint you can place a 3D PCB View on a sheet and interact with that view to change the rotation, camera position and zoom level. When this document is exported to PDF you can also interact with that 3D PCB View using Adobe Acrobat Reader. The ability to create 3D PDF where you can not only view your design data, but interact with it in Adobe Acrobat Reader is very powerful when reviewing the design with your team or communicating the fabrication or assembly to a third party.

File – Export – PDF. Both 2D and 3D drawing elements are exported to a single PDF document for viewing.



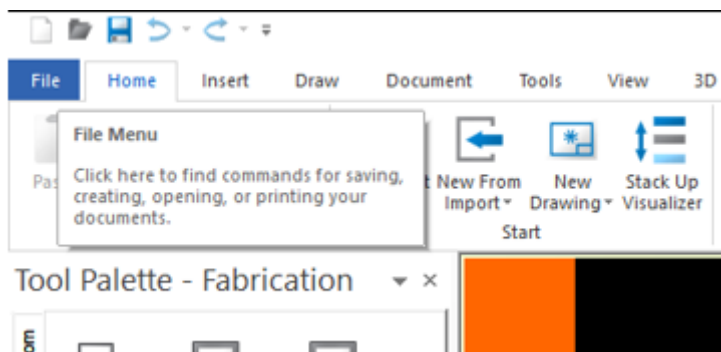
New 3D STEP Import

STEP files are the most widely used data exchange format for 3D CAD objects. The STEP format is an ISO standard (ISO 10303) and is exported by many PCB and Mechanical CAD systems. The STEP protocol most commonly supported by CAD systems is AP214 whose scope covers core data for Automotive Mechanical Design. Even so, a STEP file can represent any 3D representation. For documentation purposes, you may want to import a realistic view of your completed PCB from your PCB CAD system, or a mechanical part or assembly from your Mechanical CAD system. Any number of realistic 3D models can be imported into BluePrint and added to enhance your fabrication, assembly and panel documentation.

File – Import – STEP model. The imported STEP model will appear in BluePrint's imported Task pane. From there it can be dragged and dropped onto your sheet.

New Ribbon Tooltips

As you move your cursor over the Ribbons a tooltip will appear with information about the command under your cursor.



Format Painter

The Format Painter command on the Home ribbon allows you to quickly apply the same formatting from one shape to another “like” shape. Think of it as copy and paste for formatting. Format Painter only works with “like” shapes and objects. For instance, you can copy all formatting from one circle to another circle, but you cannot copy formatting from a circle to a rectangle.

Blueprint 6.0 Viewer and Pack and Release Viewer functionality

Both the Blueprint 6.0 Viewer and the Pack and Release Viewer have been updated to view documents created with 3D drawing elements and to view the imported design data the 3D Design view.

We have updated both Blueprint and the Blueprint viewer so that if either application opens a Pack and Release document that has a maximum limit set, that it will not allow the user to view that file after the limit has been reached. The same message that appears in the Blueprint 5.2 PNR Viewer will now appear in Blueprint when the maximum limit has been reached.

We have removed the Blueprint “Pack and Release” creation option to include the PNR Viewer in the PNR file (exe). The original intent was to create a single exe with viewer and document that could be emailed to a coworker. However, the viewer makes the resulting exe so large that it cannot be emailed to most email servers. Any user can instead download and install a free Blueprint Viewer from our website. The Pack and Release exe now includes only a self-extracting Blueprint document.

Note: The Blueprint 5.2 Web Publisher functionality is NOT available in the Blueprint 6.0 release. The Web Publisher is a HTML browser that allows users to view Blueprint documents using Internet Explorer. This technology is old and needs to be updated for the newer Windows 10 platform and to support multiple web browsers. We expect to release the Web Publisher in a future Blueprint 6.0 release.

Table drawing element improvements

Tabbing now allows the user to move through cells and immediately place the cursor in selection mode for editing. This is more like Microsoft Excel behavior. In Blueprint 5.2 this was a two-step process.

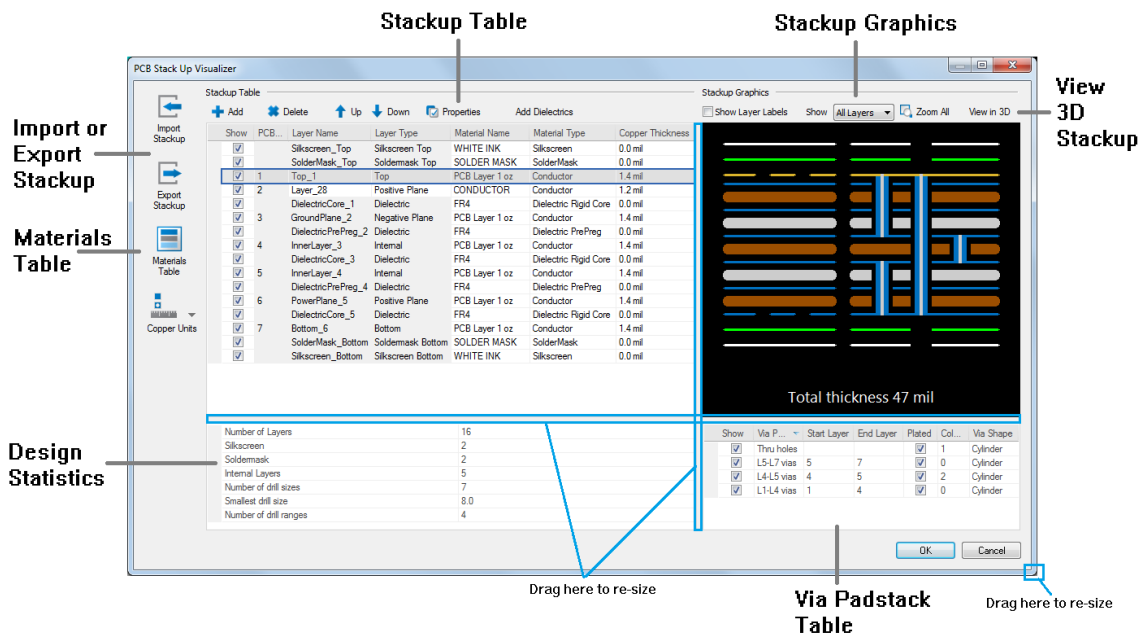
New Stackup Visualizer

The Stackup Visualizer in Blueprint allows the user to view or modify the PCB stack up. Layer stackups can be exported to an IPC-2581 format file and shared with fabricators for a pre-design stackup review. Changes to a stackup can be imported through the same IPC-2581 format.

The Materials table can be used to create a materials library of often used materials and assign the materials to layers in the stackup. Assign material properties to enhance the layer definition for stackup passing between fabricators and designers.

Stackup Visualizer presents layer stackup details in three visualization modes (the Stackup Table, 2D Stackup Graphics and a 3D Stackup visual). The Stackup Visualizer also presents statistical data for the stackup and relevant design details including via drills.

Below is a pictorial of the Stack Up Visualizer user interface.



Stackup Table

The Stackup Table presents the stackup as a table. Layers in the stackup are presented in top to bottom order and include Solder Mask, Silkscreen, PCB and Dielectric layers.

Here you can Add Layers, Delete Layers, Move Layers, View Layer Properties, Show Layer Labels, Automatically Add Dielectric Layers, Assign Layer Material

Stackup Graphics

The Stackup Graphics presents a cross section of the layer stackup. Layers are presented in top to bottom order with layer color coding and via drills.

Via Padstack Table

The Via Padstack Table presents one row for each layer set in the design and one row for through drills. Each row is identified by a layer set name.

Design Statistics

The Design Statistics area presents stackup relevant data from the design. Statistical data includes Number of Layers in the stackup, Number of Silkscreen and Soldermask layers, Number of Internal layers, Number of drill sizes, smallest drill size and the number of drilling ranges (or layer sets).

View 3D Stackup

Select View in 3D to view the layer stackup in 3D.

Materials Table

The Materials Table is for managing a library of materials used in the creation of layer stackups. The materials table is a library of PCB fabrication materials and other layer types like soldermask and silkscreen.

Import or Export Stackup

Use Import and Export Stackup to share and collaborate on stackup design. Layer stackups can be exported, reviewed, modified and then imported to update design materials, stackup layers, layer properties and so on.

BluePrint 6.1 Issues Resolved

BluePrint 6.1 build 1581

Defect ID	Description
64413	IPC2581 import incorrectly imports donut apertures
64407	Crash placing scrollable parts list
64242	Fab Manager will not separate holes with different tolerances
64218	Dimension formatting to suppress leading/trailing zeros does not work in stackups with board thickness
64217	PADS ASCII import - soldermask layer is not imported
64215	Component with SMT pads on opposite mount side are incorrectly displayed
64214	Crash when placing board side view for this design
64116	Allegro ODB++ import does not use the Options Part Name mapping settings
63887	When table causes a new sheet to be inserted not all default nomenclature settings are followed
63231	Thru hole component pins do not display in this design

BluePrint 6.1 build 1576

Defect ID	Description
63975	Blind vias are shown as through holes in this ipc-2581
63964	Layer spans are incorrect for some backdrills after loading this ipc-2581 rev. b file
63938	BluePrint Viewer path is wrong in Start menu
63754	Layer Mapping improvement for ECO and Startup files
63716	Xpedition ODB++ import – Enhancement to retain PCB RefDes
63710	Refresh of this PADS database crashes BluePrint
63707	Drills are shifted in Exploded Views for this design
63695	Silkscreen is oversized and blocky compared to 5.2
63658	ODB++ import – rectangular pads in component outline graphics are not rotated properly
63650	Panel – Island not removed during merge
63629	IPC2581 RevA–padstack cooper is incorrectly offset
63628	IPC2581 RevA–Layer Names and Attrs do not match 5.2
63595	Slots are drawn as symbols instead of drill holes
63588	ODB++ import – plating and tolerance incorrect
63586	Improve fill of non-closed component outlines
63529	Variant color not updating correctly after ECO
63527	PCB view rotation does not rotate all features
63516, 63704	CAD Layer Order visibility is not retained in PCB View
63495	Part of Variant definition lost after opening this 5.2 BPD
63459	Backdrills stackup incorrect after opening this 5.2 BPD
63458	Backdrills in Drill Pattern Format dialog lost after opening this 5.2 BPD
63336	Some pads are unfilled after import of IPC2581 RevA
63321	Parts List position moves after execution
63330	Print to PDF problems with polarity markings this doc
63329	PDF EXPORT has problems with polarity markings
63058	Repeatable crash on formatting Detail template
62839	PDF Export and Print to PDF drops fills
62718	Odb++ crashes 6.1, loads into 5.2

62529	Enhancement to enable Group select on the Parts List Manager Imported and User data pages
63938	BluePrint Viewer path is wrong in Start menu
63055	Product Selection dialog - hitting CANCEL causes BluePrint to crash
62529	Group select and <Operation> should be supported in all BP system dialogues and tables
62527	Templates linked to USER DEFINED DATA TABLES should auto update upon re-import of data (as system templates do upon re-import of design data, parts list data etc)
59456	If one DUPLICATES a sheet, no auto-nomenclature should be added (as setup in OPTIONS)

BluePrint 6.1 build 1570

Defect ID	Description
63056	Tooltip/snapping not working on lines outside board
63003	Component flipped after import of this IPC2581 design
62985	Highlight of component pad displayed at incorrect rotation for this design
62984	Link window does not display component outlines when using this startup file
62920	Registration vias displaying incorrectly for this design
62914	Top Side component pads displayed incorrectly when open this BPD file in 6.x
62913	Document Variable Manager – Edit dialog – can cause corrupted variable values
62887	Redraw performance regression from 5.2 after changing symbol in Fabrication Manager
62885	ECO update, which changes layer order, can change PCB View visibility settings on existing documents
62871	Cannot enter rotation in the Format dialog for a drawing element
62844	Pad visibility settings incorrect after ECO of this BPD
62843	Missing comp outlines after import this IPC2581 design
62842	Incorrect display of “pads and vias” not assoc with comp
62827	Slots missing after import of this PADS ASCII design
62821	Cursor over comp does not highlight or display tooltip after import of these ODB++ design files
62771	Enhancement to allow Magnify Views to be projected onto other drawing sheets
62766	Undo crash working in parts list table
62753	After import missing some layers, components and pins
62744	Part rotation incorrect in component coordinate chart
62700	Cannot snap consistently to part center
62635	DXF import - Comp with arc displayed incorrectly
62628	For scaled PCB view, wrong scale applied after Format
62564	Enhancement to insert new sheets contiguously when expanding parts list
62356	Undo of data source on Drill Chart leads to crash

61878	Enhancement to add lower case drill symbols
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BluePrint 6.1 build 1557

Defect ID	Description
62393	File – Export – PDF/DXF color issues with Side Views
62370	3D window loses focus after these steps
62307	Panel template is incorrect after importing this ODB++
62305	File – Import – ODB++ of Panel = Crash on these files
62231	Search for overlapping ref des incorrect on this file
62186	File – Import – PADS ASCII – cir board outlines incorrect
62185	Installation improvement to detect incompatibility with MSOffice 32 bit
62154	Enh to display pads only for uninstalled Variant parts
62045	Enhancement to increase space for display in the PCB View Format pane (removed “Appearance” section)
62022	Performance improvement for “merge routes” in panel
62018	3D PCB View drills missing from this file
62008	File – Print in Design view not working
61908	Cannot snap to custom pin outside board outline
61880	“Link window” now remembers last size setting
61633	Hatched area outline missing in exported pdf
61575	Dimensions unassociated when opening this 5.2 file
61468	Enhancement to tooltip sensitivity
61401	Enhancement adding OVAL shape to callout balloons
61332	Dimensions not snapping to circular cutouts in board
61126	Dimension snapping not working with copper
61081	Copper shapes not displayed with correct size
60971	Enh to import Cadence Drill Tool size in IPC2581
60619	Undo – side view = Crash for this file
59258	Trim tool hangs when doc has many line segments
59065	Format Text Box – Text Box tab – Text under vertical alignment graphics “cut off”

BluePrint 6.1 build 1544

Defect ID	Description
61769, 61684	Undo defect fixes
61723	Ability to create and save Mill Tab to gallery
61722	Startup file issue
61695	Crash when setting board image rotation in Panel Editor
61535	Enh to display 3D image in PCB Model mode (realistic) colors or Design mode colors (same as 2D view)
61485	Online Help search not working
61473	Document file will not save after these steps
61467	Enhancement to add Publish to Web functionality
61251	Copy a PCB View in BluePrint to Microsoft Word
61222	Enhancement to show drills in board more realistically
61146	How to define new fiducial size
61132	Issue translating Blueprint 5.2 database to 6.0
61251	Copy a PCB View in BluePrint to Microsoft Word
60885	Mill tab perforation issues on curved board outlines
60882	Installation improvement when missing MS Access DB
60841	Exploded view should not display pin numbers and net names automatically
60828	Improved moving Panel Origin back to original location
60723	Issue when copying and pasting 2 PCB Views
60618	Export PDF issue – board cutouts missing in PDF
60831	Issue after deleting segment of polyline
59476	Perf when importing Variant with a large number of parts
61158	Not all part attributes available to Callout link
61913	Drill Chart Auto-Size settings do not work
61570	Long delay after PCB View Format – Cancel this design
61187	Variant List doesn't display correct User Data quantities
61671	Visual queue to delineate Edit 3D PCB from 3D Design
61357	ECO perf improved on doc with many variants and parts

BluePrint 6.0 build 1501

Defect ID	Description
61157	Callout will not populate value when linked to user parts list attribute
60981	Unplated Drills not showing up in Drill Pattern
60958	Export PDF results in unwanted artifacts for this design with arcs. Print to PDF for this design incomplete
60916	IPC2581 Import – mounting holes without part names incorrectly assigned
60884	Panel Formatting on this BPD causes crash
60883	Component outlines not visible in Edit Panel mode
60860	Pads incorrectly display in Assembly view for this BPD
60565	Microsoft IME Japanese cannot enter correctly with roman character input
59476	Import – Variant performance improved for designs with a large number of parts

BluePrint 6.0 build 1496

Defect ID	Description
60697	Component Outline missing in this document
60609	Ref Des shifts after opening this BPD file in 6.0
60661	Data table missing "Material" field after design data import
60738	Drills displayed incorrectly in rotated PCB View
60699	Copper and Component fill displayed incorrectly on this design
60642	Design View is missing layers in layers tab after steps
60632	Color lost in exported PDF PCB View
60657	Crash selecting net in PCB View Format Pane
60544	Pin 1 markers not exported to PDF
60622	Drill plating status incorrect after design data import
57597	Incorrect thermal pads for inner layers after PADS import
60698	Crash zooming into PCB View on this design
60634	Process Step not displaying pins on parts
60804	Print to Adobe PDF results in incorrect PCB Views
60809	Export to PDF and DXF on Tools ribbon does not work
60610	Problem with 5.2 BPD to 6.0 DPD conversion resulting with blue highlighted component outlines
60722	Incorrect sizing of part with arc when highlighting
59753	BluePrint API enhancement – ApplicationOptions settings for DXF ExportOptions
59752	BluePrint API enhancement – PCBViewFilterLayer display order and CAD data type display order
59769	BluePrint API enhancement – PCBViewFilterLayer settings for FillPatterns
59868	BluePrint API enhancement – Added Drills.MaxPCBLayerCount field
59869	BluePrint API enhancement – duplicate drawing

BluePrint 6.0 build 1491

Defect ID	Description
60551	Drill slots are positioned incorrectly in this design
58749	Licensing timeout problems with certain configurations
60036	Setting the caption in a 3D Stack up does not work
60037	The caption location is incorrect when the 3D Stack up is repositioned
60593	Help topic "About Customization" links to "Using Templates" and "Using BluePrint's Automation API" are not active
60146	Exploded view on Panel displays ref des when ref des are not displayed in Panel
60516	BluePrint Viewer Help does not invoke from File – Help ribbon menu
60515	Partial drills not displaying correctly in this older drill panel template after import of design data
59302	Fill tool incorrectly recognizes Group origin when applying fill
58948	Export DXF failure on this BluePrint document
60506	Fabrication Manager changes not displayed when Preview selected
59960	Issue clipping PCB View to parts and exporting to PDF
60407	3D display appears elongated after a combination of "zooming" and "field of view" changes
60517	3D PCB View no longer displays after viewing imported STEP file in 3D Design window and switching back to "PCB Render"
60600	File – Save failure after opening .BPD file and then saving to the same file name and folder as .DPD file
60598	ECO of Expedition ODB++ design data into existing BluePrint 5.2 document displays PCB Views incorrectly with missing component outlines
60583	Arc inverted on PDF Export for this document

BluePrint 6.0 build 1485

Defect ID	Description
59985	Unable to import this customer IPC2581 file
59874	Error when attempting to add a new spell checker dictionary
59767	Copper weight for .attr file in microns when units=MM
59837	DXF import fails on this customer file
59629	Dimension font incorrectly changes after reopen of this customer document
59768	PCB Views cannot be scaled more than 20x
59961	Import of this ODB++ file is dropping components
59512	Stack up "dual dimension" value is being displayed incorrectly for this design
55547	Enhancement requested to tab through table cells
57151	Expedition ODB++ import memory limit error on this design
53327	Enhancement to table editing
59960	Issue clipping PCB View to parts and exporting to PDF
59213	Error opening document with very small exploded views
60272	Panel display issues with this very small design due to rounding calculations
60290	Imported STEP Model PCB attributes different in exported 3DPDF then in BluePrint
60479	Cannot add webroute for board profile with arcs

How to Contact Us

Please send any defects, feedback or questions to blueprint@downstreamtech.com.

Defects: Please include a detailed description with steps on how to reproduce the defect and attach any media necessary to reproduce the issue.

Feedback: If you have feedback for us about what we could improve or add to the product, even if not a defect, we still want to hear from you. Please send description.

Questions: If you have any questions about the Release software, please contact us through blueprint@downstreamtech.com or support@downstreamtech.com.

Patents, Copyrights, and Trademarks

Patents

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

“ADAPTIVE TEMPLATE SYSTEM FOR AN AUTOMATED PCB MANUFACTURING RELEASE PACKAGE SYSTEM”, United States Patent No. 8,875,072 B2

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