Prinergy

Release 2.2
Release Notes

06-0307D-EN-B
Revised February 2004

creo™

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4,456,924	5,291,273	5,519,852	5,708,736	5,973,801	6,136,509	6,295,076
4,500,919	5,323,248	5,526,143	5,713,287	5,986,819	6,137,580	6,299,572
4,558,302	5,325,217	5,532,728	5,742,743	5,995,475	6,147,789	6,318,266
4,743,091	5,339,176	5,561,691	5,764,374	5,996,499	6,158,345	6,340,817
4,992,864	5,343,059	5,568,595	5,764,381	5,998,067	6,159,659	6,352,816
5,049,901	5,355,446	5,576,754	5,771,794	6,003,442	6,164,637	6,353,216
5,079,721	5,359,451	5,579,115	5,785,309	6,014,471	6,180,325	6,366,339
5,081,617	5,359,458	5,592,309	5,802,034	6,016,752	6,181,362	6,371,026
5,103,407	5,367,360	5,594,556	5,813,346	6,031,932	6,181,439	6,377,739
5,111,308	5,384,648	5,600,448	5,818,498	6,043,865	6,186,068	6,387,597
5,113,249	5,384,899	5,608,822	5,854,883	6,060,208	6,189,452	6,396,422
5,122,871	5,412,491	5,615,282	5,861,904	6,063,528	6,191,882	6,396,618
5,124,547	5,412,737	5,625,766	5,861,992	6,063,546	6,204,874	6,407,849
5,132,723	5,420,702	5,636,330	5,875,288	6,072,518	6,208,369	6,414,755
5,150,225	5,420,722	5,649,220	5,894,342	6,090,529	6,214,276	6,422,801
5,153,769	5,459,505	5,650,076	5,900,981	6,096,461	6,217,965	6,435,091
5,155,782	5,473,733	5,652,804	5,934,196	6,098,544	6,252,522	
5,157,516	5,481,379	5,680,129	5,942,137	6,107,011	6,260,482	
5,208,818	5,488,906	5,691,823	5,946,426	6,112,663	6,266,080	
5,208,888	5,497,252	5,691,828	5,947,028	6,115,056	6,266,134	
5,247,174	5,508,828	5,696,393	5,958,647	6,121,996	6,267,054	
5,249,067	5,509,561	5,699,174	5,966,504	6,130,702	6,268,948	

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06-0307D-EN-B

Revised February 2004

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Introduction



We are pleased to send you the latest revision of Prinergy® software. These release notes highlight the changes and improvements that were made to release 2.2 of Prinergy software. Where appropriate, they refer you to the Prinergy online help for more information. Prinergy 2.2 is a user-installable update. System prerequisites and the upgrade procedure are detailed in the *Prinergy 2.2 Upgrade Guide*, part number 731-00072B (available on the Prinergy Documentation CD).



Note: The commercial printing terms *page* and *imposition* used in this document correspond respectively to the packaging terms *artwork* and *layout.*

What Is in These Release Notes

The release notes include the following sections:

Problems Fixed—lists problems in the previous release of Prinergy that are now resolved.

New Features—describes new menu commands, options, windows, or dialog boxes that were added to Prinergy software.

Enhancements—describes improvements that were made to existing features.

Limitations and Known Issues—lists problems that are not yet resolved.

Problems Fixed

This section lists problems that are resolved in the current release of Prinergy software.

During Prinergy 2.2 development, problems discovered in Prinergy 2.1 were fixed in both Prinergy 2.2 and 2.1, where possible. Generally, the two versions are in sync within a few updates. However, the following problems were fixed only in Prinergy 2.2.

DCS Raster Output Does Not Honor the Device Check Box

The **Overwrite Existing Files With Same Name** check box in the **Device** section of the process plan is not honored. Output files will always be overwritten rather than renamed.

Head Direction of Page is Incorrect When Using Imposition View in Virtual Proofing System Software

There was a calculation error in determining the direction of the page when scaling and bottling were used in conjunction. The problem does not affect the printed content of the signature.

New Features

This section lists features that were added in Prinergy 2.2.

Installation and System Features

Prinergy Update Utility

Use the Prinergy Update Utility to install and upgrade Prinergy to release 2.2. You can also use it to install subsequent major and minor updates.



The Prinergy Update Utility is translated into the following languages:

- Dutch
- French
- German
- Spanish

The Prinergy Update Utility is a graphical version of the command line-based Prinergy Product Update (PPU) Utility. If you are familiar with PPU, you can continue to use it to install updates.

Why It Is Useful

If you have a full service contract, you can obtain Prinergy updates from eCentral. This gives you the flexibility to choose the updates you want and when to install them.

How to Use It

For more information, see the *Prinergy 2.2 Upgrade Guide*.

Note: The Prinergy 2.2.1.0 upgrade requires an installation key. To request a key, log on to eCentral to submit a request.

Backup to a File

If you have Online Backup (a licensable option), you can save the backup to a file on disk as an alternative to the normal option of saving the backup to tape.

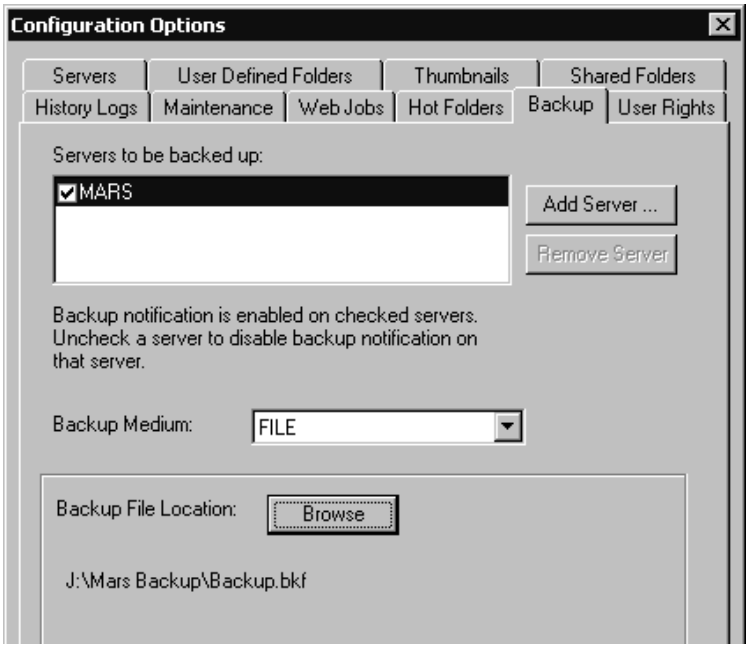
Why It Is Useful

This feature lets you choose the medium used for the Prinergy backup. Saving the backup to a network location allows you to take advantage of existing backup strategies. The tape device attached to the Prinergy server can be dedicated for Prinergy archiving.

How to Use It

To enable backup to file:

1. In Prinergy Administrator, from the **Tools** menu, select **Configure System**.
2. In the Configuration Options dialog box, click the **Backup** tab.



3. In the **Backup Medium box**, select **FILE.**

4. Beside **Backup File Location**, click **Browse** and select a location where you want to save the backup.



Note: Servers are backed up only if you have purchased and licensed the Online Backup option.

For more information, see *Backing Up the Prinergy System* in the *Prinergy System Administration Guide,* part number 731-00057A.

Remember Last Job Share

When creating a new job, Prinergy Workshop remembers your last settings and uses them as the job defaults. Prinergy Workshop retains settings from the following dialog boxes:

- Job Home
- Template Job
- Job Attributes
- Import Job

Why It Is Useful

This feature eliminates the need for you to re-enter or re-select required options for a job. It enables you to create jobs faster and minimizes errors. For example, Prinergy Workshop can remember where you created your last job and use it as the default volume.

How to Use It

This feature is enabled by default.

EPM and Failover

EPM+ expands on the Prinergy Emergency Platemaking (EPM) feature. It adds the proven data replication capabilities of the Veritas Storage Replicator (VSR) to the basic functionality of *failover.* Failover is when a Prinergy secondary/renderstation takes over primary server functions if the primary fails.

Why It is Useful

After failover, the failover server has database and job access up to within a few seconds of the time that the primary server went offline, so that you can pick up production from that point. The system continues to process jobs and produce plates, with full access to any jobs not stored on the primary server.

How to Use It

For more information, see the *EPM Plus (EPM+) Emergency Platemaking and VSR Installation and Operation Guide*.

DotShop Screening: Composer and Plug-In

A new version of the DotShop screening plug-in is now available. This a licensed feature.

This plug-in is supported by the release of a new version of the DotShop Composer, a screen instance creation software installed on the Prinergy primary server.

Why It is Useful

You can use DotShop for custom screening of objects and pages in PDF files. DotShop Composer:

- Automatically creates the screen instance file used by the plug-in
- Allows copying of screen instances
- Supports Maxtone and HyperFlex screening

How to Use it

To use DotShop Composer on your server:

From the Windows desktop, select **Start>Programs>Prinergy>DotShop Composer**. For more information, see the *Prinergy DotShop Composer Help*.

To use the DotShop plug-in on your client:

The DotShop Plug-in is placed in the **Prinergy_Plug-in_Disabled** folder in Acrobat during a Prinergy Workshop installation or update.

- On a Windows client, copy **CreoToolsPro.api** from the **Acrobat\Prinergy_Plug-in_Disabled** folder to the **Acrobat\Plug-ins\Prinergy** folder.
- On a Macintosh client with Acrobat 5.05, copy **CreoToolsPro** from the **Acrobat\Prinergy_Plugin_Disabled** folder to the **Acrobat\Plug-ins\Prinergy_Plug-ins** folder.
- On a Macintosh client with Acrobat 6.0, copy **CreoToolsPro** from the **Acrobat\MacOS\Prinergy_Plugin_Disabled** folder to the **Acrobat\Plug-ins\Prinergy_Plug-ins** folder.

To open the DotShop plug-in, click the **Prinergy DotShop** button on the Acrobat Editing toolbar, or select **Tools>Prinergy DotShop** from the Acrobat main menu. For more information, see the *Prinergy DotShop PDF Help*.

Creo PDF Trapper

Creo PDF Trapper is vector-based trapping software. It is available in different versions to suit different trapping workflows for commercial and packaging printers.

Why It Is Useful

Creo PDF Trapper software allows you to:

- Select objects, traps, and borders according to context and attribute
- Perform automatic and manual trapping of complex bitmaps
- Support packaging with trap geometry editing, trap path editing, and keepaway traps (advanced version)

How to Use It

To open the Trapper plug-in, click one of the following buttons on the Acrobat Editing toolbar:

- **Creo PDF Trap Viewer**
- **Creo PDF Trap Editor**
- **Creo PDF Advanced Trap Editor**

or select **Tools>Creo PDF Trapper** from the Acrobat main menu.

For more information, see the *Creo PDF Trapper Release Notes,* part number 717-00108A and the Creo PDF Trapper help.

Refine Features

Creo Color Matcher

The Creo Color Matcher is available as a Job Ticket Processor (JTP) for Prinergy printing workflows.

Why It Is Useful

The Creo Color Matcher contributes to color management in Prinergy by supporting:

- RGB image conversion
  RGB images and graphics can be automatically converted to CMYK using a standard ICC profile that is shipped with Prinergy, or using a custom profile that you supply.
- CMYK to CMYK color matching
  For CMYK to CMYK color matching, the Creo Color Matcher transforms the color space of a PDF file to the color space that is appropriate for a specific output device, using ICC profiles. CMYK to CMYK color matching during refine is a standard feature. CMYK to CMYK for proofing is a separately-licensed option.

Device-independent color spaces such as L*a*b* are converted to a final color space according to the ICC profile used in the process plan.

How to Use It

For more information, see the *Creo Color Matcher JTP Release Notes*, part number 717-00118A.

Treat As Black

To help automate trapping and to achieve the correct trap results, Creo PDF Trapper software can optionally treat colors like black.



Note: Treat as Black is available only if the Creo PDF Trapper software is licensed.

This feature allows you to select the **Treat As Black** check box for colors (usually spot colors) in the color database. Creo PDF Trapper, both the JTP and plug-in versions, will then trap this color using the same rules that it applies to black. The settings in the Black area of the Trap section of the refine process plan determine the behavior of Creo PDF Trapper towards black objects. Selecting the **Treat As Black** check box for a color does not alter its screen angle.

Why It Is Useful

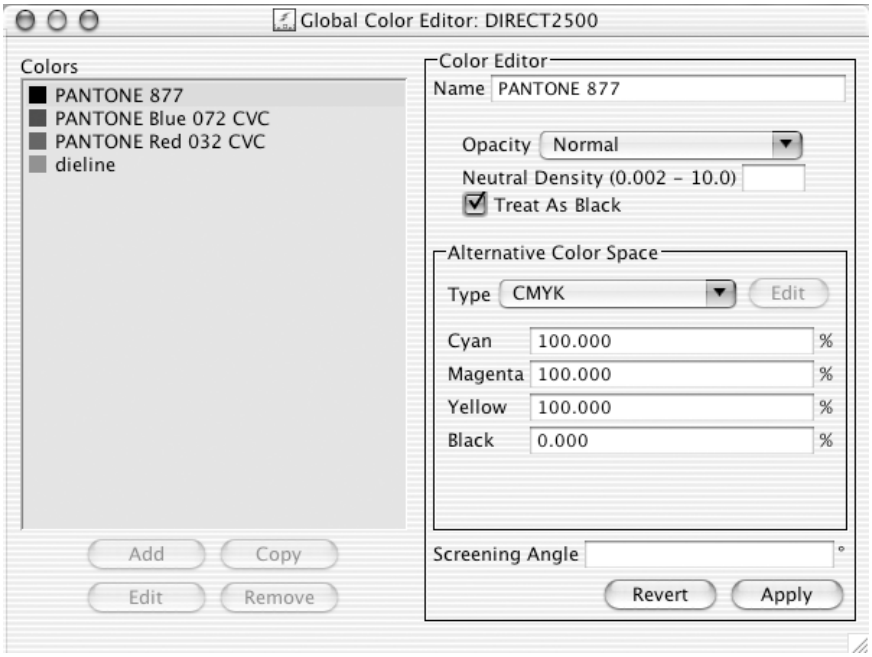
You may want to trap a color as if it were black for several reasons:

- To allow small text in a dark color to overprint like black text on a painted background

- To allow the color to define the shape of an object if there are bump colors lying underneath it
- To allow the traps generated to be scaled, for example, in the case where an opaque-inked object traps into a black object.

How to Use It

In Color Editor, a **Treat As Black** check box has been added. Select the check box for a color when you want it to be trapped like a black object.



Detecting Data in Non-Press Color Spaces

Prinergy can now detect data that is in a non-press color space, such as RGB, L*a*b*, and CIE-based color spaces. Prinergy can be instructed to ignore, generate a warning, or fail if this type of data is encountered.

Prinergy will:

- Detect non-press space data in files (for example, input files)
- Detect non-press space data in files that have been processed by Prinergy (for example, refined files or digital master files)
- Control behavior when non-press space data is detected (ignore, warn, fail)

Warnings and failures will appear in the Process Info dialog box and in the Task History.

Why It Is Useful

This feature ensures that supplied files only contain data in the targeted press space and that data is correctly color converted during the refine process.

When to Use It

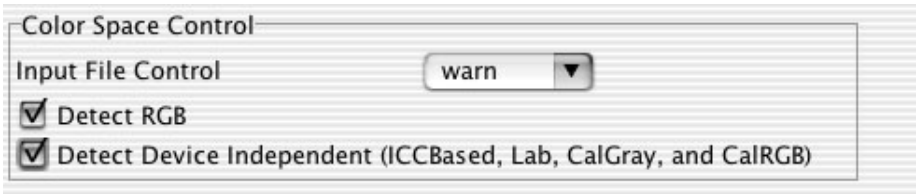
Use this feature:

- As a pre-flight mechanism to ensure the integrity of the content of supplied files
- When a contract has been established that requires the supplier to deliver files only in press space

Always enable checking of the refined file at a minimum of warn. (See the Optimize step of the Refine process plan.)

How to Use It

In the Refine process plan there are two places to control the color space detection, in the Normalize step and in the Optimize step. Both have the same look and feel as the example below:



The settings in the Normalize step control the detection desired for the input file. The settings in the Optimize step control the detection desired for the refined PDF file. Prior to the Optimize step, the Color Convert step may have converted the non-press color space objects to press color space objects. The check for non-press color space in the Optimize step can be used to ensure that the Color Convert step was executed correctly.

Note: If Failure is chosen in the Normalize step and non-press space data is detected, processing will continue in order for the check on the refined file to be performed.

Multiple Normalizer Configuration Files

Multiple Normalizer configuration files provide advanced users with enhanced control for non-standard workflow requirements. These configuration files can be pre-configured and invoked through a process plan.

This feature allows advanced users with special processing needs to have more than one normalizer configuration file and specify the configuration file to be used by the normalizer through a process plan setting. This better utilizes the Normalizer because a given Normalizer is not limited to one type of behavior (performing only PostScript® Bypass or OPI Bypass, for example), and it can be pooled with the other Normalizers in the system.

Why It Is Useful

Previously, you would have had to edit the Normalizer configuration file and restart the Normalizer JTP in order to change the behavior of the Normalizer. Alternatively, a Normalizer may have been configured with a specific behavior (PostScript Bypass, for example), and it could not be pooled with the other

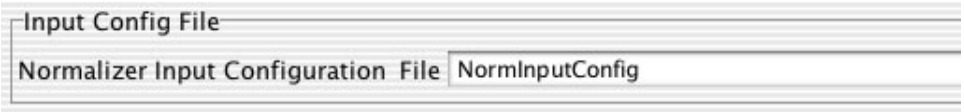
Normalizers in the system. Now you can apply the desired configuration file in the process plan without restarting the Normalizer and potentially interrupting other users' work.

When to Use It

Changes to the Normalizer's behavior may be required for specific types of input files. For example, you may want to apply Postscript Bypass for some files, but not others.

How to Use It

In the Refine process plan, inside the Normalize step, specify the path and file name of the desired configuration file, as shown below:



Detecting CT/LW and TIFF/IT Data

Trapping and modifying overprints for CT/LW content produces unacceptable results in most cases. Sometimes it is necessary to trap pages that include both CT/LW and vector content. This would previously have required a manual trapping step. With the new feature, during the refine process, the Normalizer marks any CT/LW and TIFF/IT data that it encounters, and then downstream processing for trapping and color management avoids this data. The process of refining and trapping input files remains highly automated.

Why It Is Useful

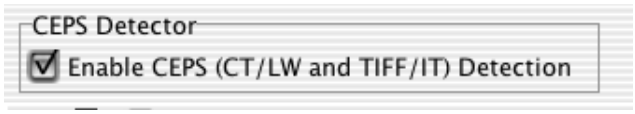
In the past, sites that process mixed content (for example, vector-based artwork that requires trapping and raster-based content that does not require trapping) had to manually trap mixed-content pages. With the new feature, input files can be refined and trapped automatically because the raster-based content is detected and excluded from modification. This feature also potentially allows all pages to process through a single hot folder or process plan and it reduces your need to know whether a page includes CT/LW content.

When to Use It

This feature is part of the refine process for input files.

How to Use It

In the Normalize section of the Refine process plan, select the **Enable CEPS (CT/LW and TIFF/IT) Detection** check box.



PDF/X-3 Output Intents

You can now choose PDF/X-3 Output Intents for the Final Output Profile during color conversion.

Why It is Useful

This option is useful when your input file is PDF/X-3 and you want to use the ICC color profile specified in the PDF/X-3 output intents for final output.

How to Use It

In the **Color Convert** tab of the **Refine** process plan, select the **Prefer embedded PDF/X-3 Output Intents for Final Output Profile** check box.

Resolving Spot Colors

It is now possible to resolve ambiguous spot color definitions during the refine step.

Why It is Useful

This feature converts multiple spot color definitions in a file to one definition. This makes PDF color more consistent and proofs more accurately represent printed output.

How to Use It

In the **Color Convert** tab of the **Refine** process plan, select **Resolve Ambiguous Spot Color Definitions**.

Overprinting Rich Black

You can now overprint rich black objects (objects with K=100% and >0% tint for at least one of C, M, or Y). This feature is only available with the Creo Color Match JTP.

Why It is Useful

You are no longer limited to overprinting black ink only. Setting rich black overprinting also sets black overprinting.

How to Use It

In the **Color Convert** tab of the **Refine** process plan, select **Set Rich Black to Overprint**.



Note: Overprinting rich black may result in high ink coverage in some areas, depending on the percentage of tint in C, M, and Y channels.

Center Page

The Center Page feature keeps pages centered with respect to the imposition page.

When importing an imposition or job, you can indicate whether the pages in the imposition should remain centered. If you use Prinergy Workshop to un-assign a page from a position and replace it with another page, the center of the replacement page is positioned in the same location as the center of the original page.

The center of a page is based on the trim box. If no trim box exists, then the media box is used.

Why It Is Useful

When artwork content is centered with respect to the trim box (or media box if no trim box exists), you can use Prinergy Workshop to reassign artwork to different positions in the layout, without experiencing image shifts.

Without this feature, you must set the trim box for artwork with different media sizes. If all artwork content is centered, this manual step is unnecessary.

When to Use It

For some hub-and-spoke configurations, it is likely that all impositions will be centered. You can update the import process plans to always center pages.

How to Use It

In the Process Plan Editor for import process plans a **Center 1-up Artworks in Layout/Center Pages in Imposition** box has been added.

It lists the following options:

- **Honor Existing**: pages will be centered or not, depending on whether they were centered in the imposition being imported (can be set using Pandora™).
- **Centered**: all pages will be centered with respect to the imposition page.
- **Not Centered**: pages are positioned in an imposition by the lower-left corner of their media boxes or trim boxes. (Same behavior as in Prinergy 2.1 and earlier.)

To enable the Center Page feature for the whole imposition:

- Select the **Centered** option for the import process plan.

To enable the Center Page feature on specific pages from the Signature view:

1. In the **Signatures** view, select the **Imposition Plans** section, and then from the **View** menu, select **Visible Columns**.
2. In the Visible Columns dialog box, select **Center Page**, **Offset**, and **Trim Size** to display those columns in the Job Manager.
3. In the **Imposition Plans** section of the **Signatures** view, select the pages that you want to center.
4. From the **Edit** menu, select **Center Page**.

Math Operations in APA and a New APA Editor

Advanced Production Automation (APA) has been improved to make automatic page imposition even easier. We extended the APA command language and added a new editor that you can use to edit new and existing APA control files.

The APA feature lets Prinergy automatically assign PDF pages to impositions and to configure specific geometry settings (offsets, orientation and so on) during the refine process. APA can apply to all jobs, but it is most useful with higher page counts.

The first part of this feature extends the APA page assignment statement to understand page offset arithmetic. For instance, in a book with 28 pages in the first chapter, you can tell Prinergy to add 28 to each page number in the second chapter to determine its correct page position. In this example, the APA command line would look like this:

ASSIGN= chapter2.p[#PgPos].pdf myPageSet [#PgPos]+28 1

The second part of this feature is an editor. It reduces the time required to learn the APA syntax and to edit APA files. It simplifies *wildcard* creation and has extended error checking (It can auto-correct simple mistakes or provide suggestions to help you make your own corrections). It also allows you to choose the units of measure that you want to use. Older APA files are supported by both the editor and the Refine process.

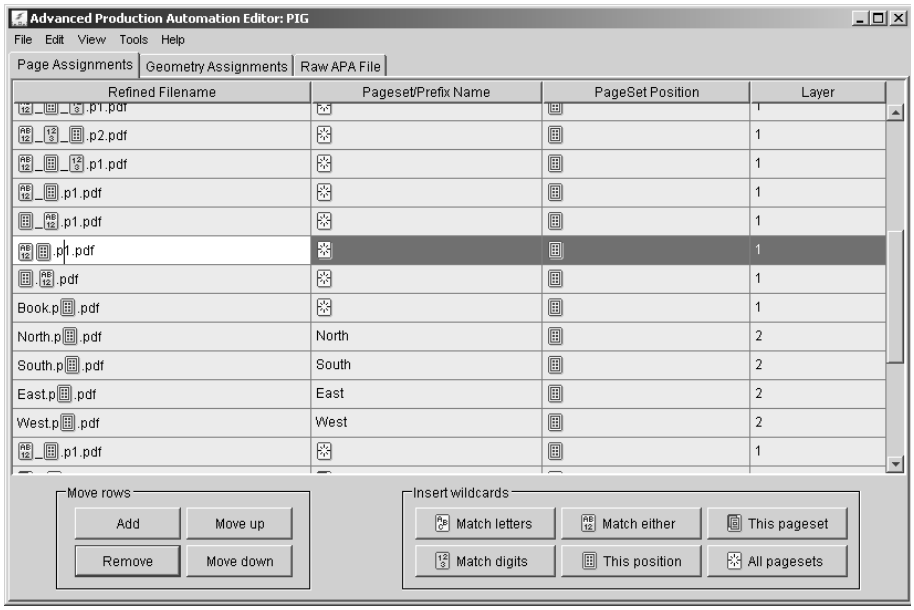


Figure 1: Page Assignments View

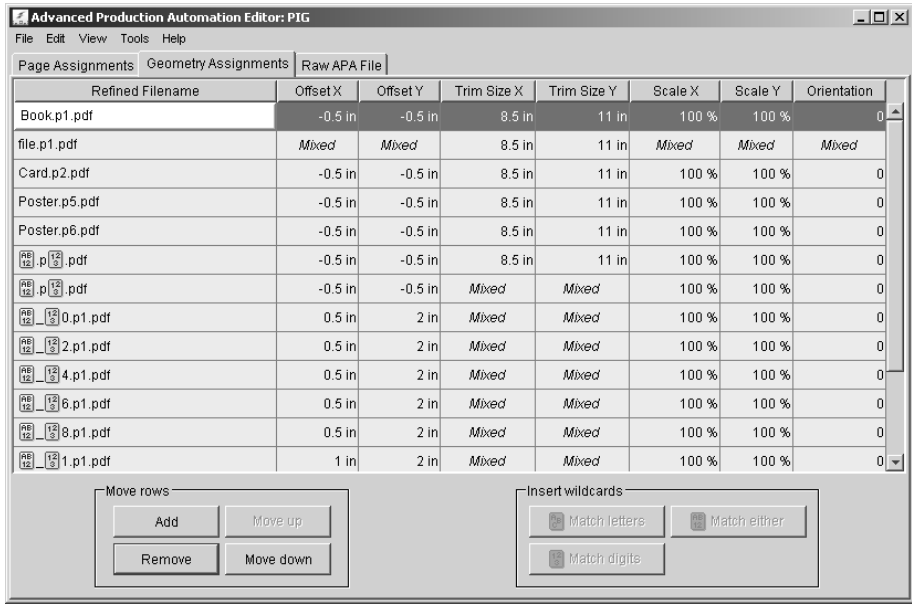


Figure 2: Geometry Assignments View

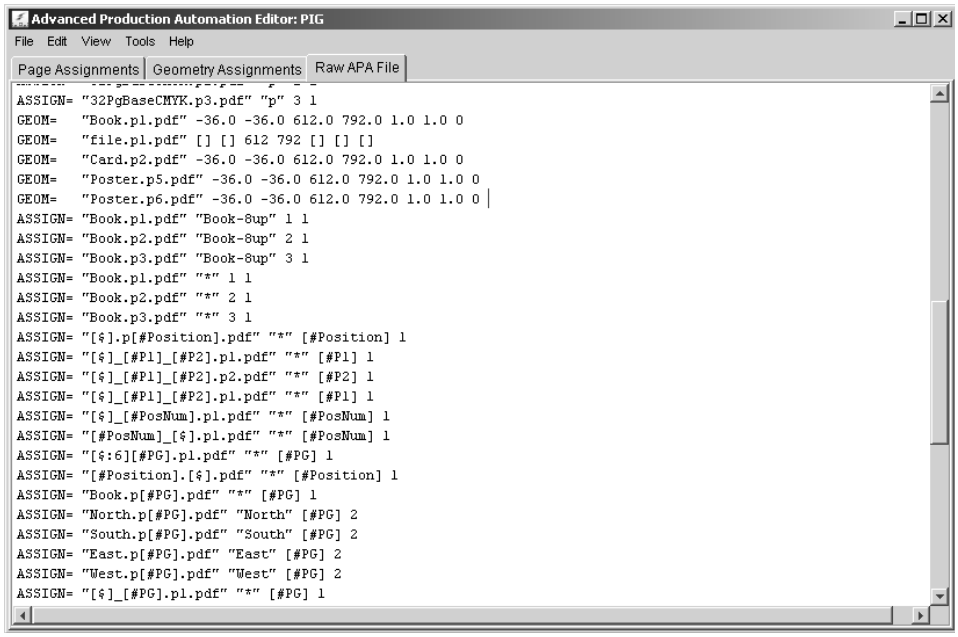


Figure 3: Raw APA File View

Why It Is Useful

Math operations on the page position mean that APA files may be much more general and often dramatically smaller than before.

The editor makes it easier for you to find the right APA file, to understand what it does, and to edit it to produce correct results.

When to Use It

This feature is part of the APA licensed package. APA files control imposition placement and geometry during the initial refine process and any subsequent re-refines. Page position math operations are particularly helpful on books and other large documents.

The editor is the easiest way to edit and check APA files of any size and complexity. APA and the editor are intended for your use. In comparison, Synapse® Page Assigner is a less-powerful but more intuitive tool that allows your customers to do some of their own page assignment.

To open the editor:

You can open the editor from the **Tools** menu of any Prinergy Workshop window. If you open it from the Job Manager window, it can automatically pick the right folder for the job's APA files. If you open the editor from any other window, you must browse the folder tree to find the file. If APA is not licensed, **Advanced Production Automation Editor** still appears in the **Tools** menu, but it is unavailable.

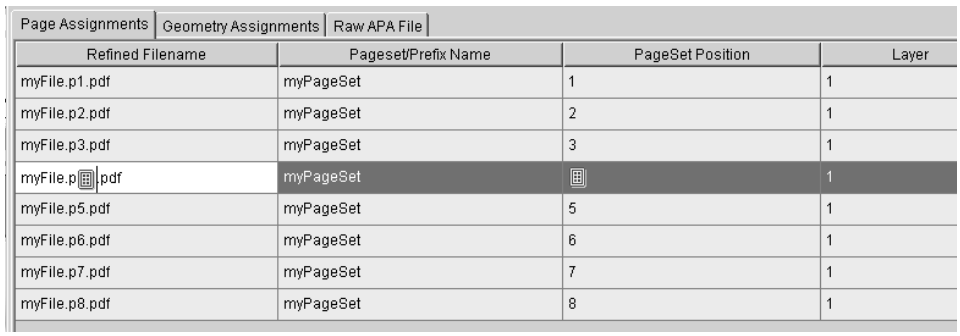
To load a file:

By default, when you open the editor, it creates (but does not save) a new APA file. To load an existing file, select **Load APA file** from the **File** menu. Similarly, select **Save** or **Save as** when you finish making your changes. This is important, because there is no auto-save, and the editor will allow you to quit without saving.

To view data in the editor:

The editor has three panes that provide a different view of the same data. The first pane is a table showing all the **ASSIGN=** commands in the APA file. The second pane shows all the **GEOM=** commands in the file, in the units of measurement that you selected. The third pane shows the full APA file. This view is most useful for copying and pasting text to or from other APA files, but you can also use it to see how the APA file is being constructed. Changes made in any pane are immediately reflected in the other two panes.

The refined page file names in a job are usually similar to each other. You can take advantage of this by using *wildcards* to take the place of one or more characters in the file name. For example, if the refined files are called **myFile.p1.pdf** or **myFile.p2.pdf**, select one of the page numbers and click the **This position** wildcard button. The result would look like:



In this example, this APA file will work, but the fourth row can do the job of all the other rows. Therefore, you can remove the other rows. To do this automatically, select **Simplify duplicate rows** from the **Edit** menu.

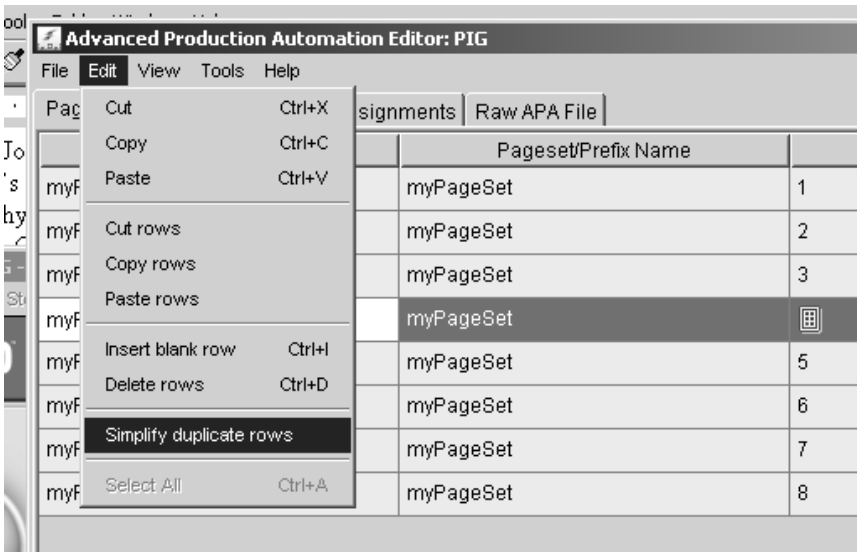


Figure 4: APA Edit Menu

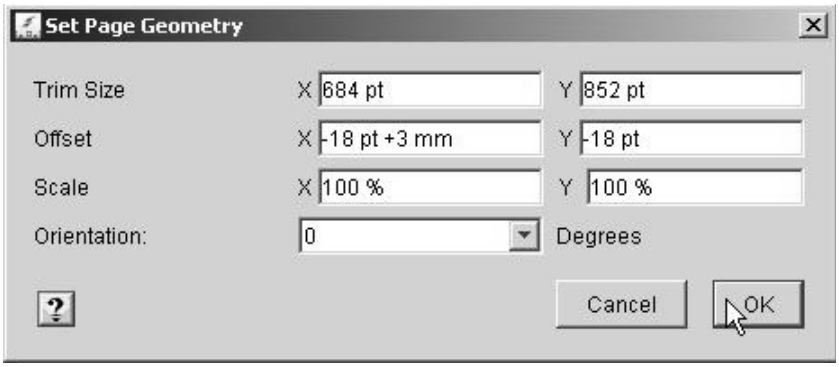
The file will automatically be reduced to a single line. This feature is particularly useful for re-editing large APA files.

Many standard keyboard shortcuts are supported, and they are shown beside the commands in the menus.

For more information about this feature, see the *Using Prinergy's Advanced Production Automation Feature* Technical Bulletin (part number 719-00018A), or search the Prinergy on-line help for *APA*.

Adding to and Subtracting From Page Geometry Settings

You can now enter amounts to add or subtract when specifying page geometry in the Set Page Geometry dialog box.



This feature saves time in jobs that require manual page geometry adjustments.

Output Features

PDF Scaling and Rotation in Publish PDF and Vector Output

When you output a PDF file from Prinergy, you can scale or rotate the PDF according to its assigned geometry and optionally remove all traps. If you do not want the resulting page marks, a new option allows the PDF file to be trimmed.
(It is output with its media box set to the trim box.)

Why It Is Useful

When the PDF file is repurposed for viewing on the Internet, users do not want to see the traps and may only be interested in the content within the trim box. As well, when sending a low-resolution version of the PDF file for proofing, traps in the file may look fat if not removed.

How to Use It

You can output PDF files from Prinergy Workshop by selecting **Publish PDF** from the **File** menu, or by using a PDF Vector output process plan.

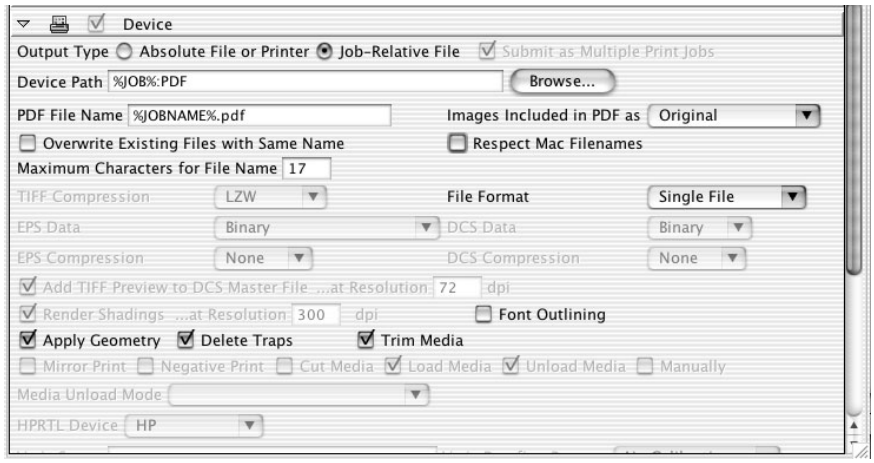
From the Prinergy Workshop **File** menu, select **Publish PDF to file**. The **Publish PDF Files** dialog box appears.



Three check boxes have been added to the **Publish PDF Files** dialog box:

- **Apply Geometry**: Select if you want to scale and rotate the PDF output according to its geometry settings
- **Remove Traps:** Select if you want to remove all traps in the PDF output
- **Trim Media**: Select if you want the PDF output to be trimmed to the trim box. In other words, select it if you want the media box of the newly generated PDF file to equal the trim box of the original PDF file.

In the Device section of the loose-page/Artwork process plan, the same checkboxes have been added:



Printing a Veris-Certified Proof

Prinergy now supports the Creo Certified Process for the Veris™ proofer.

The Creo Certified Process for the Veris confirms that the following calibration criteria are met:

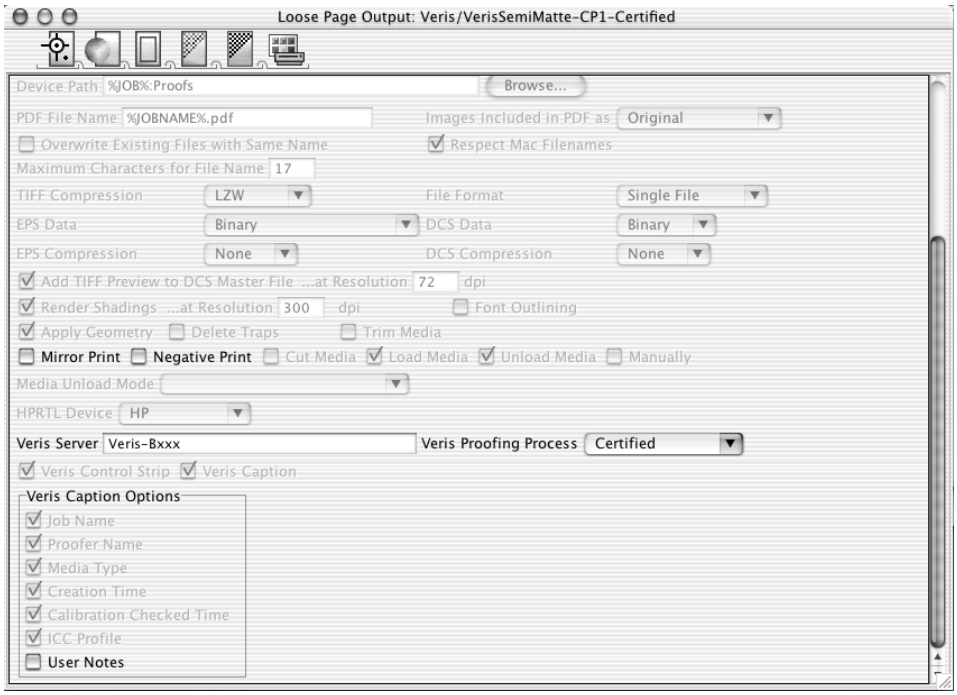
- Correct calibration was used
- Calibration data was valid
- Correct color profile was used
- Correct ink was used
- Correct media was used

When to Use It

Use this feature on loose-page and 1-up artwork or imposition and layout proofs.

How to Use It

In the Device section of the loose-page output and imposition proofs output process plans, select **Certified** from the **Veris Proofing Process** box.

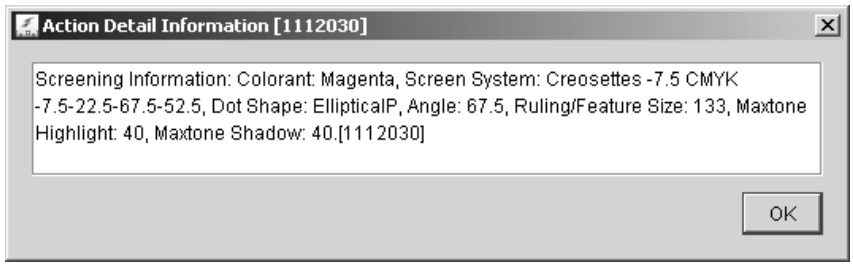


Screening History

Prinergy adds output screening information to the job history. This makes it easier to confirm that a job has had the correct screening applied.

The following information is captured in the job history: screen system, dot shape, screen angle, ruling, and Maxtone settings. Only one history message is generated for each screen setting. For example, if 100 objects are screened identically, only one history message with their screening information will be logged.

For example:



New Variable Marks

Variable marks that capture some of the parameters used in generating output have been added. The following variable marks are new:

- **$[username]**—identifies the user who ran the output process plan (based on logon information).
- **$[device]**—identifies the output device that produced the proof or plate. If the output was to a file, this mark will contain the folder where the output was directed to.
- **$[ICCprofile]**—identifies the ICC profile that was applied on output.
- **$[medium]**—identifies the Harmony medium that was applied to the output.
- **$[UnmappedColorsOnSurface]**—lists all colors on the surface before the color combiner was used.
- **$[WebGrowthProfile]**—identifies the name of the web growth profile used in the process plan.
- **$[PageName]**—includes layer information.
- **$[PageFileName]**—identifies only the file name of the top layer.
- **$[colorsOnPage]**—page mark is populated with the list of colors for a given page and indicates the layer that colors are assigned to. Output is in the following format:
  Layer 1: <color1>, <color2>, <color3> … Layer 2: <color1>, …
  Layer 2 is optional; it only prints if additional layers (versions) are present.
- **$[colorsOnSurface]**—sheet mark is substituted on output with all of the colors that are present on a surface. Output is in the following format:
  <color1> <color2> <color3> <color4> …

Ink Reporting

The Ink Report analyzes the CIP3 .PPF file generated by Prinergy's PrintLink feature to calculate the number of pixels turned on for one or more separations, and then reports the area of ink coverage (in square inches and centimeters) and the percentage of the plate covered.

The Ink Report is automatically generated by the Final Output process plan that outputs the CIP3 .PPF file to a hot folder. The Ink Report monitors the hot folder and outputs a text-based report.



Note: The PrintLink feature must be licensed for the Ink Report to be available.

Why It Is Useful

The Ink Report helps estimate ink consumption for a job run.

When to Use It

You can use this feature once the pages have been assigned to an imposition.

How to Use It

To set up the Ink Report:

1. From the **%ARAXIHOME%\CreoAraxi\bin\Ink** folder, drag the Ink Report shortcut to the desktop.
2. Right-click the shortcut and select **Properties**.
3. In the **Target** box is the command to run the ink report, and two parameters. The first parameter is the path to the hot folder where the CIP3 .PPF files will be placed. The second parameter is the directory where ink reports will be generated. Edit these paths if necessary. The default path for the hot folder is **J:\Ink\in** and the default path for the reports is **J:\Ink\reports**.
4. After the shortcut has been configured, double-click it. This action will launch the Ink Report Daemon that will begin monitoring the hot folder. If any directories for the hot folder or report output do not exist, the Ink Report Daemon will create them. This process will run in a minimized window. Note that this daemon must be restarted when the system is restarted

To create a new Final Output Process plan:

1. Select an output type.
2. Select the **PrintLink** check box.
3. Ensure that the **Output Type** is set to **Absolute File.** In the **Put Files in Directory** box, browse to the **Ink Report** hot folder and select it.
4. In the **File Generation Mode** box, select **One File per Sheet.** This will put all ink coverage values for all separations and both surfaces into one text file.
5. Clear the **Device** check box.

A sample Ink Report is shown below:

```
Ink Coverage Report for J:\Ink\in\TF_Ink!test_13_2.1AB.CMYK.ppf
Front Surface
Color                          Area (cm2)    Area (in2)  % Coverage
Cyan                               341.54         52.94        1.32
Magenta                            929.05        144.00        3.60
Yellow                            1432.81        222.09        5.55
Black                              292.75         45.38        1.13
5th=Customer-defined color          42.59           6.6        0.17
5th=Customer-defined color         107.78         16.71        0.42
5th=Customer-defined color         136.66         21.18        0.53
DIE                                 32.41          5.02        0.13
FDDkBl                              34.96          5.42        0.14
PANTONE 485 CV                     262.81         40.74        1.02
VARNISH                              0.55          0.08        0.00
```

DigiCap Screening

DigiCap™ is a Creo screening technology which improves ink transfer in solid areas of digital photopolymer media.

Why It Is Useful

Because ink deposited on the smooth surface of a photopolymer plate cannot maintain a uniform thickness, flexo output often has image appearance problems such as uneven density in the solids, excessive dot gain, and slur.

DigiCap applies small reverse dots in the surface of the plate, which minimizes visual artifacts, and in some cases reduces dot gain, while increasing solid ink densities. Applying a tint to the solids makes stippled artifacts in the solid areas smaller, which increases ink density and improves the visual appearance.

How to Use It

Set the **DigiCap** texture by specifying the size of the reverse dots, and the tint percentage in the Calibration and Screening section of the output process plan. You can also specify the distance in pixels from the edge of elements where DigiCap texturizing should not be applied.

To determine the proper DigiCap reverse dot size and tint percentage, you must perform a test containing multiple combinations of coarseness levels and tint percentages. For more information, see the *Prinergy Advanced Flexo Implementation User Guide*.

HyperFlex Screening

HyperFlex™ is a new Creo screening technology that aids in the formation of small dots or graphic elements on a photopolymer plate. The HyperFlex process applies non-printing UV light valves in between and around the highlight dots. HyperFlex is a licensed option.

HyperFlex also enables you to adjust the:

- Relief depth in and around small graphic elements such as highlight dots
- Width of the shoulder base that supports small graphic elements such as highlight dots

Why It Is Useful

The UV light valves are below the flexographic plate's rendering threshold and will not print. However, they help by building up polymer and reducing relief depth around and in between dots. HyperFlex expands the base of the dot shoulder, making the dots better formed and better able to withstand increased pressures on press.

How to Use It

In the Calibration and Screening section of the output process plan, set the **HyperFlex** dot size in pixels.

To determine the proper size for the HyperFlex dots, you must perform a series of exposure tests, gradually increasing the HyperFlex size until you begin to see the HyperFlex dot form on plate. For more information, see the *Prinergy Advanced Flexo Implementation User Guide*.

Virtual Proofing System 2.0

Virtual Proofing System 2.0 runs natively on Mac OS X. Prinergy 2.2 Virtual Proofing System 1.2.8 is still available for Mac OS 9.x users. Virtual Proofing System 2.0 includes all the features of Virtual Proofing System 1.2.8, plus a number of enhancements. See also: *TIFF Tags for Virtual Proofing System* on page 30.

Why It Is Useful

Using Virtual Proofing, you can do the following on screen:

- Preview a rendered file
- Confirm imposition, registration, trapping, page backup, fonts, image replacement, and color breaks on screen
- View transparent colors, unlimited spot colors, and enhanced zoom
- Save color definitions across multiple jobs.

How to Use It

1. Using a Prinergy process plan, generate Virtual Proofing System files.
2. From your desktop, start Virtual Proofing System.
3. Open the file(s) you want to view.

For details, see the *Virtual Proofing System User Guide*.

Digital Print Integration

Using Prinergy's Digital Print Integration feature, you can access qualified digital print applications such as Xerox Freeflow Print Manager, which drives Xerox DocuColor and DocuTech Digital Presses.



Note: Digital Print Integration is available only if the Digital Print software is licensed.

Why It Is Useful

This feature allows you to integrate digital print job programming into the Prinergy workflow. You can make use of Prinergy and Synapse toolsets when assembling and storing the job, and then have full access to digital print job programming and queue management to proof, print, and manage the job on a digital printer right from Prinergy Workshop.

How to Use It

1. Configure a digital print application.
2. Select a job that is ready for output.
3. From the **Output** menu, select **Submit for Digital Printing**.
4. Select the digital print application you want to open.

Overprint Handling

Overprint Handling is a new proofing feature for loose page and imposition proofs that provides raster color management of overprinted objects.



Note: Overprint Handling is available only if the Creo Advanced Color Management software is licensed.

Why It is Useful

Overprint Handling enables raster color management, which preserves the appearance of overprinted objects that have been color matched using a proof process ICC profile. Raster color processing prevents unintended knockouts for overprinted objects.

How to Use It

1. Obtain the Advanced Color Management license.
2. Use the Creo Color Matcher JTP for color conversion.
3. In the Loose Page or Imposition Proof process plan **Render** tab, select **Shades=256**.
4. In the **Match Colors** tab, select **Match Colors in Page Content**.
5. In the **Color Convert** tab, select **Overprint Handling**.

Using an Alternate Color Definition

You now have the option to use alternate color definitions defined in the color editors, or as defined in the PDF file with the Creo Color Match JTP. This option can be used during refining and proofing output. (This was enabled by default with the OEM Color Match JTP.)

Why It is Useful

This feature is useful if you wish to use a different spot color recipe than one defined in the file.

How to Use It

With this option enabled, the Creo Color Match JTP uses recipes defined in the Per-Job Editor, Global Color Editors, or the factory Pantone libraries (if loaded). If the colors are not found, it will use those defined in the file.

When you select this option during refine, the recipe in the file will be replaced with recipes from the color editors.

In the Loose Page or Imposition Proof process plan **Color Convert** tab, select the **Use Alternate Color Definition from Color Editor, if Available** check box.

Enhancements

This section lists features that were improved in Prinergy 2.2. Features that were modified as a result of a problem in the software are described in *Problems Fixed* on page 2.

Installation and System Enhancements

Prinergy Workshop and Adobe Acrobat 6

As of release 2.2.1.5, Prinergy Workshop fully supports Acrobat 6 for:

- Viewing and changing PDFs
- Installing and updating special Acrobat 6 plug-in folders during a Prinergy Workshop update

Install your own copy of Acrobat 6.0 Professional, then update Prinergy Workshop as usual. The new Client Auto Update utility will copy Prinergy Acrobat plug-ins into the correct Acrobat 6.0 folders.

You can still use Acrobat 5.05 on Prinergy clients, however, Acrobat 6 only works on Mac OS X.

Information about recommended Adobe Distiller 6 settings has been added to the Prinergy online help.



Note: You must use either Acrobat 5.05 or Acrobat 6.0 on your Prinergy system.

Synapse Link Integration

Synapse Link is a licensed Creo software application that provides a messaging interface (real-time JDF connectivity) between prepress workflow systems and management information systems (MIS). To enhance integration with Synapse Link and improve quality of data, Prinergy has enabled users to:

- Add information about why work is being performed on a job
- Switch to a new user without closing Prinergy

Synapse Link automates the exchange of production data and job status information between the workflow system and the management information system. It reduces the need to manually enter the same information into both. For sites with no MIS, you can use the reporting functionality in Synapse Link to capture the information that would go to a MIS. This information is available in a variety of report formats. For more information, see the *Synapse Link System Administration Guide*, part number 725-00078A.

Why It Is Useful

Providing information about why work is being done helps to determine how to charge for costing events. You can select one of the predefined work types, or customize the work types on a per-job basis and add details about why the work is being done and who approved it.

The ability to switch users is useful on workstations that multiple people use to access Prinergy throughout a day, when they don't need their individual user properties. It enables a quick user identity change without requiring Prinergy to reload user properties or the list of jobs, encourages proper process, and, consequently, improves the accuracy of user activity reports.

How to Use It

To make Link features available in Prinergy Workshop:

The **Enable User Switching** option button is displayed in the Connect to Server dialog box for Prinergy Workshop if you are licensed for Synapse Link. Click the **Enable User Switching** button to make the other Link features available.

To sign out without closing Workshop:

Switching of user identity is for workstations where several users access Workshop, but don't need their specific user properties. This enables a quick change for the user identity without closing Workshop, or reloading user properties or the list of jobs. If you want to load your own user properties (for example, the toolbar), you will still need to perform the usual login.

1. In Job Finder or Job Manager **Tools** menu, select **Change User**.
2. In the Connect to Prinergy Server dialog **User name** box, enter the new user name.
3. In the **Password** box, enter the password for the new user name.
4. Click **Login**.

Note: After you select Change User, you cannot cancel the operation. If you do not want to exit Workshop or switch user identities, re-enter your current user name and password.

To manage and record work types:

You can capture the reason work is being done in order to determine how to charge for costing events. Synapse Link enables this information to be used by the connected MIS system.

The **Work Type** dialog box is available from the **Start Process** dialog box when you are licensed for Synapse Link.

Refine and Output Enhancements

Optimized PDF Digital Masters

By default, the Normalizer will compress text and line art to produce smaller digital masters. This feature is not available in Prinergy 2.1.x. The Normalizer will use flate/zip compression to compress page content stream, forms, patterns, and Type 3 font content streams.

Added Support for [All] in Page Assigner JDF

When **[All]** is used as the page set name in the Page Assigner JDF, Prinergy assigns the specified pages to all page sets.

This feature is useful for versioning jobs. You can assign the base pages to all page sets using one Page Assigner JDF.

Prinergy Now Accepts Page Assigner JDFs

Prior to version 2.2, Prinergy only accepted ZIP files from the Page Assigner JDF. Prinergy 2.2 accepts both ZIP and JDF files.

Import Automation Improvements

You are now able to:

- Import a Page Assigner JDF (unzipped) into a pre-job hot folder to create a new job. Page Assigner is provided with the Prinergy Advanced Production Automation license and is also provided with the purchase of Synapse Prepare.
- Set the Import process plan to automatically generate initial separations after importing an imposition plan while keeping the existing page set.
- Set the Import process plan during an imposition plan import to allow pages to be automatically assigned even if pages were already refined before the imposition import.

Page Set Options have been renamed and re-organized as a cumulative options set.

How to Use It

- Select the **Set Initial Separations After Imposition Import** check box.
- Select the **Do Auto Page Assignment After Unpopulated Imposition Import** check box.

TIFF Tags for Virtual Proofing System

When you select the **Advanced TIFF Tags** check box in the **Device** section of your output process plan, Virtual Proofing System 2.0:

- Displays spot colors without requiring you to re-enter the color recipes (assuming you entered the color recipes in Prinergy)
- Reflects color opacity

Harmony Curves Sorted

Calibration Curves in the **Calibration and Screening** section of output process plans are now listed alphabetically.

Rendering Intents

Rendering Intents options have been expanded to include perceptual intent, relative colorimetric rendering intent, and rendering intents derived from the PDF file, for different object types.

Why It Is Useful

Rendering intents allows you to specify the color saturation for different images and graphics that produce the best results on your system.

How to Use It

1. In the **Refine** process plan **Color Conversion** tab, select **Image** and/or **Graphic** object types in **CMYK**, **RGB**, or **Calibrated Colors**.
2. Select **Relativ**e colorimetric rendering intent to turn off gamut compression and retain color saturation for selected object types.
3. Select **Perceptual** rendering to use gamut compression and produce less saturated colors for selected object types.
4. Select **From PDF** to use the rendering intent for selected object types that was specified in the file when it was output by the creative software.



Note: Calibrated Colors are CMYK and RGB objects with embedded ICC profiles such as ICC-tagged, CalGray, or CalRGB. For colorimetric rendering of calibrated colors, do not check **Override Embedded Profiles**.

Limitations and Known Issues

This section lists limitations and known issues in Prinergy 2.2. They may be outstanding issues from a previous release or new issues. When an issue listed here is resolved, the solution is described in the *Problems Fixed* section of the release notes for the next version of Prinergy software.

Cannot Change the Trim Box With NormInputConfig

Prinergy cannot modify trim box information via NormInputConfig for the following types of files:

- Files created by Adobe Illustrator® 10.0
- Files saved as AI 8 compatible by Adobe Illustrator 10.0
- DCS files output from Prinergy. Note: DCS files from CopyDot Toolkit are not affected.