

About transparency support in Prinergy Evo

Prinergy Evo enables you to easily process transparencies without flattening them, providing simpler, faster, and more accurate trapping of files with transparent objects. PDF processing engines such as the Color Matcher and Trapper have been upgraded to handle transparent objects natively, eliminating artifacts that sometimes could be introduced during flattening.

With the release of Illustrator 9 software, graphic designers could easily apply transparency effects to vector artwork, creating translucent shapes, text, drop shadows, and masks. When you write a PDF 1.4 file (and later) from Illustrator software 9 and later and InDesign 2 software and later, the file may contain transparent objects.

Before Prinergy Evo 4.0, transparent objects in PDF 1.4 and later files had to be flattened to PDF 1.3 objects during the normalizing process, sometimes with unpredictable results.

Handling files with transparency

To take advantage of Prinergy Evo's transparency handling, ensure your incoming files contain native (unflattened) transparency. To do this out of Illustrator or InDesign, export the file to PDF 1.4 or later. Do *not* print the file to PostScript or to a PDF file.

To easily determine whether a given PDF file contains native transparency, open it in Acrobat software and use the Transparency Flattening tool. In the **Highlight** list, select **Transparent Objects**. If any objects in the preview appear red, there is native transparency in the file.

New Setting For Transparent Objects

You can preserve transparency during the refine process. In the refine to PDF process template, Normalize pane, PDF 1.4 and higher (Acrobat 5 and higher) list, the options are:

- **Flatten to PDF 1.3**
Prinergy Evo will detect and flatten all files with native PDF 1.4 transparency using the highest quality setting. This is the behavior from Prinergy Evo 3.x and earlier.
- **Leave as is**
Prinergy Evo will detect and preserve transparent effects in PDF 1.4 or later files.
- **Fail**
Prinergy Evo will fail when it encounters transparent objects.

New RIP Option

Prinergy Evo 4.0 and later includes the Adobe PDF Print Engine, a new PDF RIP from Adobe Systems Inc. The Adobe PDF Print Engine allows PDF files to be rendered natively, using the same technology that is in Acrobat software and Adobe Creative Suite software. In the Output from PDF and Output from Imposition process templates, you can select the RIP in the **Render** section.

Common Approaches to Handling Files With Transparencies

Input File Type	Transparency Setting Chosen in the Refine Process Template	RIP Chosen in the Output Process Template	Things To Consider
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PDF 1.3 file where flattening occurs in the desktop software (for example, Illustrator)	File is already flattened.	File is already flattened.	<ul style="list-style-type: none"> Useful when you require PostScript, EPS, DCS, PDF 1.3, or PDF/X-1a for downstream processing.
PDF 1.4 file (and later)	Flatten to PDF 1.3	File is already flattened in refine process.	<ul style="list-style-type: none"> This option was available in Prinergy Evo 3.x. Useful when you require PostScript, PDF 1.3, or PDF/X-1a for downstream processing but want Prinergy Evo to perform the flattening.
PDF 1.4 file (and later)	Leave as is	Adobe CPSI	<ul style="list-style-type: none"> This option is available in Prinergy Evo 4.x and later. Useful when you want transparent objects to be handled natively without flattening during the refine process. If text exists underneath transparent images, the text might appear fatter in low-resolution output due to the flattening that occurs in CPSI.
PDF 1.4 file (and later)	Leave as is	Adobe PDF Print Engine (does not flatten)	<ul style="list-style-type: none"> This option is available in Prinergy Evo 4.x and later. Useful when you want transparent objects to be handled natively throughout the workflow and do not want the file to be flattened.

By their nature, the following file formats do not contain native transparency. If the original contained transparency effects, they would have been flattened. Because these formats do not include native transparency, there is no benefit to running them through Prinergy Evo.

- PostScript
- EPS
- DCS
- PDF 1.3 or earlier
- PDF/X-1a (PDF/X-1a is a restricted subset of PDF which prohibits transparency)