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Document number: 734-00064A-EN Rev E
Release date: 26 May 2005

Technical bulletin

Prinergy 2.2 and later: Adobe CPSI 3016 RIP

Introduction

The Adobe® CPSI 3016 RIP is available with Prinergy® 2.2.1.8 and later. Keeping Prinergy up to date with the newest Adobe technology, the CPSI 3016 RIP incorporates the latest features and provides the means for future enhanced Adobe support for Prinergy. Creo recommends that you use the CPSI 3016 RIP with Prinergy, since Adobe is no longer issuing fixes for the old RIP.

Note: In Prinergy 2.2.1.11, the old RIP will be removed and only the CPSI 3016 RIP will be available. Therefore, Creo recommends that you transition to the CPSI 3016 RIP as soon as possible.

Benefits

The CPSI 3016 RIP provides a general improvement in RIP performance and fixes a number of problems. For example, some users report fewer font-rendering issues for certain files, such as PDFs created in Adobe InDesign®. The CPSI 3016 RIP breaks up the surface into separations when sending to Print Console. This means that urgent remakes of specific plates from other surfaces can be inserted between the plates of the currently plating surface without the need to cancel the current surface. You do this by sending the urgently needed plate with **High** priority (via **Start Process** > **Priority**).

Licensing and Installation

Prinergy 2.2.1.8 does not replace the existing RIP. The old and new RIPs are both available, allowing the flexibility to switch to the new RIP when you are comfortable with it.

Note: The CPSI 3016 RIP is not enabled in Prinergy 2.2.1.8 by default. It is available, but not activated. No action is required if you do not wish to use the CPSI 3016 RIP instead of the current Prinergy 2.2 RIP.

Note: In Prinergy 2.3, the CPSI 3016 RIP is standard.

A new license key is not required. The CPSI 3016 RIP uses the existing license key. You will notice a number of new JTPs with a “v2” suffix in the list of Output JTPs available to you in Prinergy Administrator:

- Proofing Device (256) v2
- Proofing Device (512) v2
- Print Console v2
- Xpose v2

Note: Only licensed JTPs are listed.

To switch to the new JTP in 2.2:

1. On the Prinergy server, start Prinergy Administrator.
2. Remove the old JTP:
    a. In the right pane, select the **JTPs** tab.
    b. From the list of JTPs, select the JTP you want to remove.
    c. From the **JTP** menu, select **Remove JTP**.
    d. Click **OK** when prompted to permanently remove the selected JTP from the server.
3. Add the new v2 Output JTP:
    a. From the **JTP** menu, select **Add JTP**, then select **Output**.
    b. In the **JTP Type** box, select a type of output JTP (for example, **Proofing Device 256 v2**).
    c. In the **Name** box, type a name for the new JTP.

    Note: Create a JTP naming scheme to help you easily identify various JTPs in your system.
    d. In the **Host Server** box, select a server to add the JTP to.
    e. If required, select any licensed options you wish to enable.
    f. Click **OK**.
    g. Add new v2 Output JTPs to the appropriate pools.

Precautions

Plate remakes

Because the old Prinergy RIP and the CPSI 3016 RIP are different, there is a chance of a screening phase difference when mixing plates (for example, C, M, and Y) from the old RIP with plates (for example, K) from the new RIP. A screen phase mismatch would appear as a changed (slightly muddy) rosette pattern on press. Although some press operators might not note any issues when mixing plates from the old and new RIP, it is not recommended practice to mix them. Note that Staccato plates with different screen phases should not cause on-press problems, because Staccato screening can tolerate mis-registration between separations better than AM screening.

Proofs and plates

Be careful when plating jobs with the CPSI 3016 RIP that were proofed with the old RIP. Because the RIPs are different, there is a slight chance of an interpretation difference between proof and plate in this circumstance. Ideally, jobs should be plated with the same version of Prinergy that the proofs were generated with. Hub and spoke configurations should coordinate when switching to the new RIP to avoid this situation.

Reprints

For reprints of jobs that were printed previously using the old 3011 RIP, it is recommended that you re-run proofs using the new CPSI 3016 RIP to ensure there are no unforeseen differences between the original press run and the reprint. Re-proofing is recommended during the transition phase from the old to the new RIP. When Creo determines that the new RIP does not introduce undue risk, the recommendation to re-proof old jobs will be removed.

The specific concern is with interpretation differences between the old and new RIP (for example, font rendering issues). Color changes should not occur between the old RIP and the new. Some Creo customers have reported problems in processing certain jobs using the 3016 RIP, which used to process correctly with the 3011 RIP. These failures may be the result of changes to the Adobe PostScript print architecture. The latest Adobe PostScript software includes several changes to its font processing mechanisms that improve document security, perform more stringent checks on the validity of fonts contained in PDFs and other print files, and provide better integration with Adobe applications. However, these changes to Adobe PostScript may have exposed problems in certain PDF files that were previously undetected. Creo and Adobe are working together to investigate these problems and determine possible solutions. In the meantime, please contact Creo about specific problems outputting your files.

Re-refining of PDF pages is not necessary to process reprints.

If you encounter an issue with the new RIP:

- Report the problem to the Creo Response Center (they will inform the Prinergy development team).
- If the issue does not have an acceptable workaround, you can replace the CPSI 3016 RIP with the old RIP. Note that this will not be possible in the update scheduled for July 2004, which will permanently remove the old RIP JTP.
- Prinergy 2.2.1.10 and Prinergy 2.3 have a **Convert text to paths** setting option in the render section of output process plans. This setting converts fonts to outlines before the file is RIPed. This non-licensed feature can be useful in situations where the 3016 RIP fails to process the fonts on a page. If a job requires the font outlining feature, Creo recommends that you output **both** proofs and plates with the **Convert text to paths** option enabled, to ensure that proofs accurately represent the plates.

  Note: Using the **Convert text to paths** setting can make text appear fatter on low-resolution proof output. However, this appearance problem can be overcome by rendering to a higher resolution (if rendering to 1-bit output, such as Virtual Proofing System), or by using anti-aliasing (if rendering to contone output).

Limitations

- Overprint Handling (Raster Color Matcher) will not be available for the CPSI 3016 RIP until the Prinergy 2.2.1.10 release.
- The following OEM screens from Heidelberg® are supported in Prinergy 2.2.1.9:
  - Diamond
  - HQS
  - RT
  - Megadot

  Note: Currently, IS Screening is not supported in the 3016 RIP.
- The following problems are fixed in Prinergy 2.2.1.9:
  - TIFF files sent to CS Expose from the new RIP do not work.
  - Black layer knockouts can occur in certain layered version jobs that use separated input.
  - Some very complex jobs may fail and report an “out of memory” error.
- Direct connection to the 3016 RIP for the following devices is not supported:
  - Heidelberg Hercules
  - Primesetter
  - Quasar
  - Signasetter
  - Topsetter
  - Speedway Engine Manager.

  These devices will be supported in a future Prinergy software update.
- Although the 3016 provides superior performance for most kinds of files, files that use a lot of rectangles to represent LW data (specifically, CT/LW files that were converted using Shira CEPSLink) may perform approximately twice as slow as the 3011 RIP. This is an issue only for Shira files that have been converted to PDF format using Normalizer. If the files are input using the PS Bypass feature, this performance issue should not be noticeable.

About Creo

Creo is a world leader in solutions for the graphic arts industry. Core product lines include image capture systems; inkjet proofers; thermal imaging devices for films, plates and proofs; professional color and copydot scanning systems; and workflow management software. Creo is also an Original Equipment Manufacture supplier of on-press imaging technology, components for digital presses, and color servers for high-speed, print-on-demand digital printers.

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