



HARLEQUIN<sup>®</sup> **PLUS**  
SERVER RIP

# Release Notes

Version 9.0r0

July 2011

# Contents

1	Enhancements	2
2	Note about this release	2
2.1	Supported operating systems	3
2.2	New features	4
2.3	Add switch to turn off luminance compensation—12729	9
2.4	Plugins, utilities and the Plugin kit	9
2.5	Installation information	10
2.6	Procset changes	11
2.7	Miscellaneous information	11
3	Compatibility	13
3.1	Font error in PDF 1.3 file—61014	13
4	Change details	13
5	Exclusions and known problems	20
5.1	Known issues	21
6	Documentation	25

# Harlequin PLUS Server RIP Release Notes v9.0r0

Global Graphics Software (GGS) is pleased to announce the release of Harlequin PLUS Server RIP v9.0r0.

## I Enhancements

The Harlequin PLUS Server RIP v9.0r0 provides the following enhancements:

- [“Leasing and installment plan—64566”](#), on page 4
- [“Try before you buy upgrades—64600”](#), on page 4
- [“Support for PANTONE Plus libraries—64681”](#), on page 4
- [“Push Calibration—64916”](#), on page 5
- [“Positive/Negative ROAM switch—64915”](#), on page 5
- [“Update Fogra and IFRA press profiles—70007”](#), on page 5
- [“Black preservation—62198”](#), on page 5
- [“BlackTint key—63938”](#), on page 6
- [“PDF/X Support—64154”](#), on page 8
- [“LOGFILE \(Windows only\)—12672”](#), on page 8
- [“Update ColorBurn and ColorDodge blend modes—64011”](#), on page 8
- [“Implement SSE2 instruction set on x86 for improved performance.”](#), on page 15
- Bug fixes. See [“Change details”](#), on page 13
- Performance improvements

**Note:** The option to use Enfocus Status Checking is removed from the v9.0r0 Harlequin RIP.

## 2 Note about this release

Please note the following items related to this release.

- [“Supported operating systems”](#), on page 3
- [“New features”](#), on page 4
- [“Plugins, utilities and the Plugin kit”](#), on page 9
- [“Installation information”](#), on page 10

- [“Procset changes”, on page 11](#)
- [“Miscellaneous information”, on page 11](#)
- [“Known issues”, on page 21](#)
- [“Documentation”, on page 25](#)

## 2.1 Supported operating systems

This Harlequin PLUS Server RIP v9.0r0 release supports the following operating systems.

Windows	Macintosh
Windows XP (SP2 and SP3, not base)	Mac OS X (10.4.x) “Tiger”
Windows 7	Mac OS X (10.5.x) “Leopard”
Windows 2003 Server (SP1 and SP2)	Mac OS X 10.6.x “Snow Leopard”
Windows 2008 Server (base, SP1 and SP2)	
Windows 2008 R2	
Windows Vista (base, SP1 and SP2) all editions except Starter	

Table 1.1 Supported operating systems

**Note:** The v9.0r0 RIP will not run on Intel processors older than the pentium 4, or Athlon processors that pre-date the Athlon 64.

### 2.1.1 Windows 64-bit operating systems

The Harlequin PLUS Server RIP will run on a Windows 64-bit operating system as long as it is 32-bit compatible. This means that when you install the operating system you must check the option that allows 32-bit compatibility.

### 2.1.2 Windows Server 2008 support

This section describes the support for Windows Server 2008:

#### 2.1.2.1 Windows Server 2008 32-bit

This platform is supported from the Harlequin PLUS Server RIP v8.0r8, or later, as long as version 7.5 of the Safenet drivers are used. For more information see [“HLS v4.1”, on page 10](#).

#### 2.1.2.2 Windows Server 2008 64-bit

This platform is supported from the Harlequin PLUS Server RIP v8.0r8 or later. The RIP is run as a 32-bit application on this platform. Support is extended to all standard input and output plugins, except as noted below. The following limitations apply:

- The NTPrint input plugin is not supported.
- Miramar’s AppleTalk stack is not supported.
- GGSL cannot be responsible for the behavior of customer developed plugins or code used in the RIP.

- GroupLogic's AppleTalk solution is supported for the specific and limited purpose of font downloading from legacy Apple Macintosh OS 9 systems. This means that if a problem downloading fonts is reported, it will be investigated by GGSL. Problems with sending files or other AppleTalk functions will not be investigated.

### 2.1.3 Windows Vista features

The RIP does not support the use of any optional features of Windows Vista (for example, BitLocker Encryption on Windows Vista Ultimate).

## 2.2 New features

This section outlines some of the new features:

### 2.2.1 Leasing and installment plan—64566

The license model is extended to allow RIP customers to spread the cost of a RIP purchase over a period (such as one year), and to be able to use it immediately while providing OEMs with the ability to enforce regular payment. Once the full RIP price has been paid (after a year), the OEM can easily enable the RIP to run from then on.

For more information see the installation and HLS manuals.

### 2.2.2 Try before you buy upgrades—64600

A RIP customer running an older version of the Harlequin Server RIP can install and run Harlequin Server RIP v9.0 for an evaluation period without requiring a new dongle. A permit to enable this usage can be ordered from Global Graphics in a similar way to ordering a password for try before you buy of a RIP feature such as TrapPro.

In addition, the RIP customer can return to using their older RIP without having to switch dongles or reconfigure their RIP in any way.

The RIP customer can build on the configuration applied in the upgrade version installed for the TBYB as and when a permanent upgrade is purchased. The TBYB option is only provided for upgrades on sites which are already running the RIP using a USB dongle. RIP customers with older dongles (for example, parallel) should obtain a new dongle from their OEM.

Provision of the TBYB solution is subject to appropriate commercial agreements.

For more information see the installation and HLS manuals.

### 2.2.3 Support for PANTONE Plus libraries—64681

PANTONE® have released PANTONE® Plus as an extension to their pre-existing PANTONE color sets. PANTONE Plus is an addition of new colors and a re-organization of the guide, and pre-existing colors are unchanged. From v9.0r0 these new colors have been added to the known color databases in the Harlequin RIP.

Although the default value for `/PantonePLUS` in new setups is set to `true`, in setups migrated from older RIPs it will be set to `false` to maintain previous behavior. `/PantonePLUS` is added as an optional key in the `HqnSettings` proset.

This change only has an effect in an integration where the known color databases included with the RIP are used.

For more information see the ColorPro manual.

## 2.2.4 Push Calibration—64916

From v9.0r0 of the Harlequin Server RIP a mechanism that enables a third-party application to push calibration sets into the RIP is added. It is intended to replace the somewhat error-prone method used by some vendors to emulate the processing performed by Global Graphics' Genlin tool, and to avoid the need for a final manual step to import the calibration data. Calibration sets may be submitted as a PostScript language file to the RIP, calling the `PushCalibration` procedure in the **HqnPushCalibration** procset. Calling this procedure does not trigger any raster output, and files may be submitted through any input channel configured on the RIP, such as hot folders, Unix-style sockets and so on.

For more information see technote Hqn081.

## 2.2.5 Positive/Negative ROAM switch—64915

When rendering for plates some CTP devices require a positive image, and some a negative image. When outputting to a negative device you can view a single pagebuffer displayed in negative. However, when selecting multiple page buffers the composite will ROAM a virtually solid black because only crop and register marks will be clear on every plate. Therefore, from v9.0r0 a check-box in the ROAM options and reduced ROAM options is provided to allow the ROAM to be negated.

For more information see the OEM manual.

## 2.2.6 Update Fogra and IFRA press profiles—70007

The following obsolete profiles have been removed from:

**SW\Config\Press\Profiles\CMYK\Press:**

- BVD-FOGRA positive gloss
- BVD-FOGRA positive LWC
- BVD-FOGRA positive matt
- BVD-FOGRA positive uncoated

The following profiles have been added to: **SW\Config\Press\Profiles\CMYK\Press:**

- Fogra 39L
- Fogra 43L
- IFRA 26L
- IFRA 30L
- SNAP (CGATS TR002)
- SWOP (CGATS TR003)
- SWOP (CGATS TR005)

## 2.2.7 Black preservation—62198

From v9.0r0 the RIP applies black preservation to device independent color spaces even when color management in the job is not being overridden with Harlequin color management. This means that the RIP applies black preservation to any CMYK, RGB, Gray, or DeviceN color space and any ICC-Based color space that has a device space of CMYK, RGB, or Gray.

The `Black setinterceptcolorspace` dictionary key is set to `false` which means to preserve 100% black. If there is a black colorant and the color is 100% pure black, that is preserved with normal color management being ignored.

Previously, the RIP only applied black preservation to CMYK, RGB, or Gray color spaces when they were converted using Harlequin color management.

To revert the RIP to its previous behavior use:

```
<< /Black << /Default << /RGB true >> >> >> setinterceptcolorspace
```

## 2.2.8 BlackTint key—63938

`BlackTint` is a new key for the `setinterceptcolorspace` operator. It only affects the object types of text and linework.

The text and linework object types can be further divided into five color models which may be handled independently. These are CMYK, RGB, Gray, NamedColor, and CIE. Each of the currently allowed 10 combinations of object type and color model accept a value of either a boolean or a real number in the range of 0.0 to 1.0 with these meanings:

- A value of `true` means that black tints are always color managed and does not use this feature (the default).
- A value of `false` means that black tints are always preserved as black on the output, but the luminance of this black is intended to match the fully color managed output.
- A real number is the threshold value. If an input black value is equal or greater than the threshold, it will be treated as a value of `false`. If it is below the threshold it will be treated as a value of `true`.
- A value of 0.0 is equivalent to a value of `false`.
- A value of 1.0 means that only 100% black luminance is preserved.

There are cases where it is not possible to preserve the luminance. Instead, the input black value into the output is preserved. One case is where a devicelink profile is used in `setreproduction` where it is not possible to obtain an XYZ. Another is where non-ICC color management is used, such as a CRD or a Harlequin profile. These cases have not yet been implemented.

Where `setreproduction` configures multiple transforms, such as for an emulation workflow, the above restriction on devicelink profiles and non-ICC color management only applies to the final transform. That is, if the final transform uses an ICC output profile, the luminance can be preserved.

If the `Black` `setinterceptcolorspace` key is `false`, 100% black linework and text is preserved as 100% black regardless of the `BlackTint` settings.

Transparency requires some special treatment. Black preservation is only applied to opaque areas of a page containing transparency, it is not applied to areas of the page where compositing has taken place.

**Note:** If all transparency settings applied to a particular object are equivalent to opaque settings, they will be treated as opaque for this purpose.

The `Black` key of `setinterceptcolorspace` has been modified to accept the same ways of specializing according to object type and color model as `BlackTint`. However, `Black` will only accept boolean values, not real values, because it continues to apply only to 100% black.

When recombining pre-separated jobs, both the `Black` and `BlackTint` functionality is disabled because it is not possible to reliably recombine objects; therefore it is not possible to reliably derive the original color for all regions of the page. Attempting to do so will often lead to artifacts where black has been preserved but not in some arbitrarily neighboring regions of the page. When ripping composite jobs using a recombine setup, `Black` and `BlackTint` are not applied to grey objects, but are applied to other objects.

Below are examples of how to use this feature. In all cases, `|value|` can be a boolean value of `true/false`, or a real number threshold between `0.0` and `1.0` inclusive.

1. This sets `BlackTint` for all objects that it affects (text and linework only):

```
<<
  /BlackTint |value|
>> setinterceptcolorspace
```

2. This is exactly equivalent to [1](#) (above). It sets all object types used (text and linework):

```
<<
  /BlackTint << /Default |value| >>
>> setinterceptcolorspace
```

3. This sets a different value for text and linework:

```
<<
  /BlackTint <<
    /Default |value|
    /Text |value|
    /Other |value|
  >>
>> setinterceptcolorspace
```

The `Default` value is optional and is used for any unspecified object types. It has no effect in this case.

4. This is also exactly equivalent to [1](#) and [2](#) (above). It sets all color models of all objects types:

```
<<
  /BlackTint << /Default << /Default |value| >> >>
>> setinterceptcolorspace
```

5. This is exactly equivalent to [3](#) (above). It sets the value for all color models for text and linework:

```
<<
  /BlackTint <<
    /Default << /Default |value| >>
    /Text << /Default |value| >>
    /Other << /Default |value| >>
  >>
>> setinterceptcolorspace
```

Again, the `Default` value is optional and used for any unspecified color models or object types for the inner and outer dictionaries respectively.

6. This sets a different value for both text and linework with different color models:

```
<<
  /BlackTint <<
    /Default <<
      /Default |value|
      /CMYK |value|
      /RGB |value|
      /Gray |value|
      /NamedColor |value|
      /CIE |value|
    >>
  >>
>> setinterceptcolorspace
```

In this example, the `Default` in the inner dictionary has no effect.

7. The easiest way to set a value of 0.6 for text and linework painted in CMYK. All other objects will not have black preserved:

```
<<
    /BlackTint << /Default << /CMYK 0.6 >> >>
>> setinterceptcolorspace
```

## 2.2.9 PDF/X Support—64154

Portable Document Format (PDF) files up to and including PDF 1.7 are supported. In addition, the following PDF/X versions are supported: PDF/X-1a, PDF/X-3, PDF/X-4, PDF/X-4p, PDF/X-5g and PDF/X-5pg. Support for PDF/X-4, PDF/X-4p, PDF/X-5g and PDF/X-5pg allows a digital front end to be constructed which is compliant with PDF/VT-1, PDF/VT-2 and PDF/VT-2s.

Support for PDF/X-4p, PDF/X-5g, PDF/X-5pg requires the ability for the RIP to find external files (ICC color profiles for PDF/X-4p and PDF/X-5pg and reference XObjects for PDF/X-5g and PDF/X-5pg). By default, references to external files in PDF/X are searched for in the **SW/OPI** folder. Other folders can be searched by adding the complete path of the folder as a string in the `OPIdirectories` array in **HqnExternalFile** procset.

The `/OPIdirectories` key is an array of directory names for the referenced files. Explicit device names may be used, and if no volume name is entered the files will be searched for within the **SW** directory only, unless other mounted devices have been explicitly marked as searchable. Each file is searched for in `<dir>/<file>` where `<dir>` is the path defined in the `OPIdirectories` array, and `<file>` is the file name specified in the OPI comments, and then in `<dir>/*/<file>`. The default setting of `(OPI//)` means that only files placed in the `SW/OPI` directory will be found. Directory names must have trailing slashes.

For more information see Harlequin Technote 079 “Building PDF/VT compliant systems”.

### 2.2.10 LOGFILE (Windows only)—12672

From v9.0r0 of the Harlequin PLUS Server RIP the command line startup parameters are added to `SW\LOGFILE` for debugging purposes.

Any command line option is listed whether it was handled or ignored.

This is only available on Windows.

Example LOGFILE output is:

```
STARTUP: Handled command line options:
STARTUP:  GUI
STARTUP:  LICENCERETRIES 1000
STARTUP:  RESET

STARTUP: Ignored command line options:
STARTUP:  HEDLESS
STARTUP:  MYOPTION 37
```

Where “HEDLESS” and “MYOPTION 37” are invalid commands.

**Note:** If a command line option is entered incorrectly a warning dialog is displayed. You must click OK to continue the RIP startup. Previously, the character “L” did not cause this warning. However, from v9.0r0 it does.

### 2.2.11 Update ColorBurn and ColorDodge blend modes—64011

Since the publication of the PDF v1.7 specification a number of extensions have been developed to support various new features including those in Acrobat 9 and 9.1. These extensions are published as

Adobe Supplement to the ISO 32000, BaseVersion: 1.7". The Harlequin PLUS Server RIP v9.0r0 and later supports ExtensionLevel: 3.

## 2.3 Add switch to turn off luminance compensation—12729

A new top level key is added to `setinterceptcolorspace` called `BlackTintLuminance`:

```
<< /BlackTintLuminance false >> setinterceptcolorspace
```

where `true` is the default and means that the luminance with `BlackTint` is preserved where possible. `False` means that the input black value is preserved on the output.

If it isn't possible to preserve the luminance, for example, if the color conversion uses a device link profile, then the input value is preserved.

A value of `true` behaves the same as it did before this change.

## 2.4 Plugins, utilities and the Plugin kit

This section contains information about plugins and utilities.

### 2.4.1 Supplied plugins and utilities

Any plugins distributed with this release are supplied solely for use with the Harlequin PLUS Server RIP v9.0.r0.

The following tables list the intended standard and optional plugins and the various utilities supplied with the Harlequin PLUS Server RIP v9.0r0:

Platform	Plugin	Version
Win, Mac OS X	CRDgen	9.0r0
Win, Mac OS X	XPS PrintTicket Device	9.0r0
Win, Mac OS X	AppleTalk	1.3r3
Win	NT Pipe	1.0r3
Win, Mac OS X	Serial	1.0r2
Win, Mac OS X	Socket	3.0r4
Win, Mac OS X	Spool	3.4r2
Win, Mac OS X	PDF Raster	1.2r3
Win, Mac OS X	Testdev (none)	3.0r9
Win, Mac OS X	TIFF	4.0r1
Mac OS X	Sentinel SuperPro	1.0.0.3
Win	Sentinel SuperPro	7.5.1
Win, Mac OS X	Genlin	2.2r0
Win, Mac OS X	HLM	4.1
Win, Mac OS X	HLS	4.1
Win, Mac OS X	NT Print	2.0r5
Win, Mac OS X	Migrate	5.0

Table 1.2 Standard plugins

Platform	Plugin	Version
Win, Mac OS X	CIP3	1.4r11
Win, Mac OS X	Epson 11880	1.0r0
Win, Mac OS X	Epson 3800	1.1r0
Win, Mac OS X	Epson 4800/4880	1.2r1
Win, Mac OS X	Epson 4800/4880	1.2r1
Win, Mac OS X	Epson 7800/9800	1.1r0
Win, Mac OS X	Epson 7880/9880	1.1r1
Win, Mac OS X	HP DesignJet 130	1.1r0
Win, Mac OS X	HP DesignJet 3000	1.0r5
Win, Mac OS X	HP DesignJet 5000	1.0r4
Win, Mac OS X	HP T1100/T610	1.1r0
Win, Mac OS X	HP Z2100	1.1r0
Win, Mac OS X	HP Z6100	1.1r0
Win, Mac OS X	TIFF/IT-P1	2.1r2
Win, Mac OS X	HEDS	3.0r0
Win, Mac OS X	Plugin Kit	19.1r0
Win, Mac OS X	HXM cross modulated screening	1.2r0

Table I.3 Optional plugins

**Note:** The optional plugins for v9.0r0 have not changed since v8.3r1. Unless explicitly noted to the contrary, plugins support the same operating system versions as the RIP they are supplied with.

## 2.5 Installation information

This section contains information you should note about installing your product:

### 2.5.1 Watermarked RIP drop dead date

The date at which a Watermarked RIP will stop functioning is 31st March 2013.

**Note:** The Watermarked RIP is available as a single threaded version only.

### 2.5.2 HLS v4.1

On Windows the Harlequin License Server (HLS) v4.1 requires v7.5.1 of the Sentinel SuperPro driver, whereas for Mac OS X running on a PowerPC CPU it requires v1.0.0.3 (running the HLS on an Intel Mac does not need a separate driver).

**Note:** With HLS v4.1 existing demo dongles are treated as being empty dongles and, therefore, all users of demo RIPs (v9.0, v8.0 or earlier), will need permits.

From v9.0r0 those Harlequin RIPs that use licence authorization will only work with v4.1r0 or later of the HLS. Note that if, after installing v9.0r0, you install a pre-v9.0r0 RIP on the same machine, the installed HLS may be replaced by the older version included with that RIP. If this happens, when you next try to run the v9.0 RIP it will display an error message stating the that the HLS is “too old”, at which point you will need to reinstall a v4.1r0 (or later) copy of the HLS for the v9.0 RIP to run.

### 2.5.3 Mac OS X and HLS

When running a RIP for the first time (after installing or updating HLS), on a Mac OS X system that uses HLS, you will be prompted to enter an authorizing password.

### 2.5.4 Installation (InstallAnywhere)

The InstallAnywhere installer allows installation of the Harlequin PLUS Server RIP.

**Note:** When **Next** is selected from the “Choose Shortcut Folder” section there may be a long pause before the “Pre- Installation Summary” is displayed.

When selecting an item in the InstallAnywhere installer on Windows, it is not actually selected but merely highlights it. To select items simply double-click.

### 2.5.5 Installation of the dongle driver

When performing an installation of the Sentinel System dongle drivers, by running the Sentinel installer supplied with the Harlequin RIP, a custom install is no longer required. The Sentinel Protection Server and Sentinel Keys Server are no longer an option and will not be installed.

### 2.5.6 InstallAnywhere is incompatible with Windows Vista Aero color scheme—62349

During the installation of the Harlequin RIP onto a Windows Vista operating system, an information dialog appears stating that the color scheme has been changed. On selecting more information, a dialog is displayed which states that the color scheme has been changed to Windows Vista Basic. This color scheme change does not affect the installation, functionality or performance in any way.

### 2.5.7 Installation on Mac OS X Leopard—62768

When installing the RIP on Mac OS X Leopard (10.5) do not select the setting to “Set access for specific services and applications” in the firewall System Preferences.

## 2.6 Procset changes

The following procsets have changed from v8.3r1 to v9.0r0.

GGFontEmulation, HqnImage, HqnGif, HqnOPI, HqnPageSetupConf, HqnPDFChecker, HqnSettings and HqnImpose2.

The following procsets are new:

HqnExternalFile, HqnOPICCommon, and HqnPushCalibration.

## 2.7 Miscellaneous information

This section contains information on various topics.

### 2.7.1 Disk space issue

Tests on more recent computers have shown that it is possible to run out of disk space, despite having the Output Controller set to delete PGBs “When necessary”.

When the free disk space is less than the `Disk space left for system` value, PGBs are deleted. However, this check only happens every 2 seconds and it is possible to fill the disk in that time with the default setting (50 Mb).

The following error is a symptom of low disk space:

```
%%[ Error: ioerror; OffendingCommand: renderbands ]%%  
%%[ Flushing: rest of job (to end of file) will be ignored ]%%
```

If this error occurs you should increase the `Disk space left for system` value.

Select Harlequin RIP > Configure RIP > Options and increase the `Disk space left for system` value.

Subsequent jobs will succeed when sufficient disk space becomes available.

## 2.7.2 AppleTalk on Snow Leopard—64220

Mac OS X 10.6.x (Snow Leopard) does not support the AppleTalk protocol. The AppleTalk plugin requires an AppleTalk stack so the only method of using this protocol is to install a third party product.

## 2.7.3 OverprintBlack—12719

From v9.0r0 the `OverprintBlack` user parameter has changed. Rather than working on only the output color values, `OverprintBlack` is now based on input color values. Output colors that are 100% black after color management but do not have 100% black input values, are no longer affected by `OverprintBlack`.

RGB black is converted to black on output prior to `OverprintBlack` being applied to the output colors.

In addition, `DeviceN` color spaces with color values that are 100% in Black and 0% in all other colorants are now subject to 100% Black preservation. Similarly, a color value of x% in Black and 0% in all other colorants is subject to `BlackTint` preservation.

## 2.7.4 Input settings for PDF/X-3 and PDF/X-4 files—63400

In v9.0r0 PDF/X-3 and PDF/X-4 jobs honor the input profile setting from a ColorPro setup if the `Override colour management in job switch` is turned on. It does this by using the input profile to convert colors from the output intents profile from the job to the output device profile. In particular, a device link profile used in the ColorPro setup is now honored, but this will also apply to any input profile. For the usual case of PDF/X jobs with a CMYK output intents profile, the RIP uses the CMYK input profile. However, the RIP will use the RGB input profile instead if the PDF/X job has an RGB output intents profile.

PDF/X-3 and PDF/X-4 jobs now honor the black preservation and named color settings from ColorPro setups.

Only use the Color input profile if the override is turned on, and apply the input profile if there is no output profile.

## 2.7.5 External image stream—65285

When processing a PDF that uses external streams the file containing the external stream must be in the same directory as the PDF file. If it is not, the file will not be found and you may see alerts requesting that a disk be inserted into any CD or DVD drives present as the RIP looks on other devices.

## 2.7.6 Printer Buffer default

The default value for the Printer Buffer has been increased to 20480 KB.

## 3 Compatibility

The following section deals with issues of compatibility.

### 3.1 Font error in PDF 1.3 file—61014

When processing a PDF v1.3 file the following error may occur:

```
Error: invalidfont; OffendingCommand: Tj(PDF)
```

This could be caused by an invalid font that contains a truncated CMap. Instead of failing such truncated CMaps when loading, the RIP will now fail if it needs a missing CMap entry, but not otherwise.

## 4 Change details

This is a list of the features and problems fixed and other changes made in the Harlequin PLUS Server RIP v9.0r0. The tables are uncategorized, in numerical order.

Ref number	Description
12624	Fix a PDF Retained Raster issue when Recombine is also enabled where the RIP did not recombine the separations in a file. For more information see Technote Hqn078 (SW Call #121481). Changes made in the RIP binaries.
12663	Prevent VMErrors when Trapping (SW Call #120078). Changes made in the RIP binaries.
12672	Add startup parameters to the LOGFILE which logs any command line options and whether they were handled or ignored (Windows only) (SW Call #120308). Changes made in the RIP binaries.
12692	Implement a change so that a PPML/GA 3.0 test file does not differ in output from Adobe Acrobat (SW Call #120492). Changes made in the RIP binaries.
12712	Implement a change so that a rectangular outline is not created from an object with a drop shadow (SW Call #120677, #120973, #121653). Changes made in the RIP binaries.
12719	Fix a regression in the way the RIP treats the overprinting of RGB black (SW Call #120829). For more information see <a href="#">“OverprintBlack—12719”</a> , on page 12.
12729	Add a Switch to turn off L* compensation with a new top level key called BlackTintLuminance: << /BlackTintLuminance false >> setinterceptcolorspace (SW Call #120069). Changes made in the RIP binaries.

Table 1.4 Changes made between v8.3r1 and v9.0r0

Ref number	Description
12737	Fix spelling of “Failed to open file” (SW Call #121033). Changes made in the RIP binaries.
12758	Fix an issue so that specific customer supplied ICC profiles, which caused a Mono-chrome setup to fail, are handled correctly handled by the RIP (SW Call #121272). Changes made in the RIP binaries.
12763	Implement a fix to prevent the error: Undefined - findfont error caused when processing a customer supplied PostScript language test page (SW Call #121366). Changes made in the RIP binaries.
12764	Implement a fix for a customer supplied file which displayed overlapping text characters overlapping (SW Call #121369). Changes made in the RIP binaries.
12765	Make a change so that the Kill command does not cause the RIP to hang when outputting to the TIFF device (SW Call #121347). Changes made in the procsets HqnImage and HqnSettings.
12766	Make the default style name “New Settings” translatable. (SW Call #121393). Changes made in the RIP binaries.
12767	Implement a fix so that separation omission (not blank) with trapping is now honored for contone in the same way as it is for halftone (SW Call #121389, #121395). Changes made in the RIP binaries.
12771	Fix an issue where wedges and color bars had the wrong size when output in setups where the vertical and horizontal resolutions are different (SW Call #121430). Changes made in the HqnImpose procset.
12773	Make a change so that requested highlight traps are not omitted if crop marks are enabled (SW Call #121465, #121472). Changes made in the RIP binaries.
12777	Implement a fix for overlapping lines of text in a customer supplied PDF v1.3 file (SW Call #121505). Changes made in the RIP binaries.
12778	Fix an issue when halftone CMYK setup configured with NotBlank which caused the RIP to output CYK whereas with a 8.3r0 release the RIP the output is CMYK (SW Call #120091). Changes made in the RIP binaries.
12780	Make a fix to prevent the error: %%[ Error: invalidfont; OffendingCommand: TJ(PDF) ]%% because a Font's table version number (0x0001004b) was not recognized (SW Call #121534). Changes made in the RIP binaries.
12781	See “63933”, on page 16 (SW Call #121540).
12784	Make fix that prevents a gap appearing in a line text when processing CID fonts (SW Call #121602). Change made in the RIP binaries.

Table 1.4 Changes made between v8.3r1 and v9.0r0

Ref number	Description
12789	A customer submitted a file which renders some text as block is fixed by 63294 (SW Call #121649). Changes made in the RIP binaries.
28683	Calculate number of spread steps when the origin is on the circle circumference (XPS Support #689). Changes made in the RIP binaries.
50506	Extend emulation to RGB and Gray profiles (SW Call #117806). Changes made in the RIP binaries and the HqnPageSetupConf procset.
50884	Optimize UCR/BG conversions. Changes made in the RIP binaries.
51217	Create checkparams operator for PostScript language Red Book compatibility. Changes made in the RIP binaries.
51371	When there is no UEL or ESC E at the end of a job, print a page if there are any markings on the page. Changes made in the RIP binaries
51466	Implemented a decimating image filter and associated userparam controls. Currently the filter is only optimized for 3-component images. Changes made in the RIP binaries.
51533	Add more support for transparency with a new pagedevice key "BackdropAutoSeparations" and a new setinterceptcolorspace key "UseBlendSpaceForOutput". Changes made in the RIP binaries
51561	Add caching to tint transforms to improve performance of jobs with spot colors Changes made in the RIP binaries.
61188	Redesign raster output interface. Change made in the RIP binaries.
61275	Implement SSE2 instruction set on x86 for improved performance.
62197	Add option for pure black text. Changes made in the RIP binaries.
62285	Improve 100% black preservation with compositing. (SW Call #120781). Changes made in the RIP binaries.
62634	Allows screens to be defined for object types. Changes made in the RIP binaries.
62637	Switch to run HLS via launchd on Mac OS X. Changes made in the RIP binaries.
62778	Implement a more complete implementation of the page device parameters, especially for media handling. Changes made in the RIP binaries.
62819	Added support for 12-bit RLE to RUN_SIMPLE and RUN_REPEAT records. Changes made in the RIP binaries.

Table 1.4 Changes made between v8.3r1 and v9.0r0

Ref number	Description
62970	Add the ability to ignore invalid ICC profiles embedded in image files required. Changes made in the RIP binaries.
63090	Fix the issue that no traps are produced when late color management is turned on. (SW Call #119187, #119270). Changes made in the RIP binaries.
63166	Add support for PSCustomMediaSize parameters in PrintTicket handling as Section 9.1.2 of PrintTicket Spec. Changes made in the HqnXPSPrintTicket.
63169	Implement a fix for examples of a bold font being rendered bolder than other applications (SW Call #119298). Changes made in the RIP binaries.
63365	Make Flatout “or” operator work in RGB spaces (SW Call #119476). Changes made to Flatout.
63400	PDF/X file input color settings are now not ignored. For more information see <a href="#">“Input settings for PDF/X-3 and PDF/X-4 files—63400”</a> , on page 12 (SW Call #119238, #119604). Changes made in the RIP binaries.
63636	Make a change so that images painted in CIE spaces, that is, those that don't use a device space or equivalent ICC profile, use the RGBImages rendering intent (SW Call #119846). Changes made in the HqnPageSetupConf procset.
63765	Make a change so that TrapPro does not fail to create traps for some very small text objects, (3 pt size), at low resolutions (600dpi) (SW Call #300185). Changes made in the RIP binaries.
63788	Optimize JPEG zigzag decompression for some specific jobs. Changes made in the RIP binaries.
63800	Improve rendering performance of rotated bitmap characters. Changes made in the RIP binaries.
63920	Using a customer supplied ExtraStart file the following error occurred: %%[Error: invalidaccess; OffendingCommand: defineop; File: %statementedit ]%%. This is fixed by 60118 (Pilot Support #120075). Changes made in the RIP binaries.
63933	Allow direct reference AcroForm dictionary to prevent a typecheck error (SW Call #121540). Changes made in the RIP binaries.
63938	Further Black preservation implementation to fix an issue where CMYK coerced to DeviceN via an intercept which did not have black preserved. Changes made in RIP binaries.
63989	Make a change to improve performance on a very large customer supplied Post-Script language file (SW Call #120169). Changes made in the RIP binaries.

Table 1.4 Changes made between v8.3r1 and v9.0r0

Ref number	Description
64011	Update ColorBurn and ColorDodge blend modes for ISO 32000-1 standard. Changes made in RIP binaries.
64015	Make a change so that a gray PDF file with images that use a /Indexed color space based on /DeviceGray are not treated as composite (SW Call #120231). Changes made in the RIP binaries.
64020	Duplicate of request “65010”, on page 19.
64045	Speed-up ascii85 and RLE decode filters. Changes made in the RIP binaries.
64089	Extend setreproduction and setinterceptcolorspace with more object and color specializations. Changes made in the RIP binaries.
64116	Optimize the Backdrop Render Store for compositing. Changes made in the RIP binaries.
64121	Enhance path rectangle test. Changes made in the RIP binaries.
64135	Implement better caching for Halftones. Changes made in the RIP binaries.
64154	Implement support for PDF/X-5. Changes made in the RIP binaries.
64271	Act on PDF/X-5:2010 & PDF/X-4:2010 version identifiers. Changes made in the RIP binaries.
64282	Augment ObjectMap with rendering intent. Changes made in the RIP binaries.
64323	Improve the density of 12-bit RLE records. Changes made in the RIP binaries.
64332	Change default RIP location to a customer specified location (SW Call #120604). Changes made to the installer
64371	Make a change so that HqnPDFCheck calling HqnOPI does not result in a delay in interpreting a first page of a job (XPS Support #748). Changes made in the HqnPDFChecker procset.
64526	Allow partial paints while interpreting a form (SW Call #120773). Changes made in the RIP binaries.
64537	Implement a fix for TrapPro so that the “Choke Image” option for “Image to Object” does not make 100% black text trapping spread into image (SW Call #120844). Changes made in the RIP binaries.
64551	Implement transparency performance improvements for a specific type of file (SW Call #120859). Changes made in the RIP binaries.

Table 1.4 Changes made between v8.3r1 and v9.0r0

Ref number	Description
64566	Allow RIP leasing and hire purchase. Changes made in the RIP binaries.
64600	Allow “Try Before You Buy” for RIP upgrades. Changes made in the RIP binaries.
64681	Add support for PANTONE® plus colors. Changes made in the RIP binaries.
64783	Implement a change to prevent the error: UndefinedResource - OffendingCommand: pdfopen on a customer supplied PDF file (SW Call #121131). Changes made in the RIP binaries.
64794	Add a warning if the user cancels from Configure RIP or Configure RIP Extras dialogs after making changes (SW Call #121151). Changes made in the RIP binaries.
64805	Implement a fix so that an apostrophe is output correctly from an embedded subsetted type-1 font (SW Call #121169). Changes made in the RIP binaries.
64810	Implement a fix to prevent a crash with highlight trap and late color management (SW Call #121383, #121473). Changes made in the RIP binaries.
64815	Implement a fix to prevent traps resulting in 1 pixel-width images to be dropped (SW Call #121173). Changes made in the RIP binaries.
64820	Display expiring licenses in License Manager. Changes made in the HLS.
64822	Allow display and deletion of expired licenses in License Manager. Changes made in the HLS.
64915	Add positive/negative ROAM switch. Changes made in the RIP binaries.
64916	Provide mechanism to push calibration updates into the RIP. Changes made in the HqnPushCalibration procset.
64920	Support additional targets for SetGold. Changes made in SetGold.
64953	Implement the SetGold and CRDGEN changes needed to achieve certification for proofing accuracy. Changes made in the RIP binaries.
64971	Add HXM light to the list of features in Configure RIP extras dialog. along with the option to add a password. Change made in the RIP binaries.

**Table 1.4** Changes made between v8.3r1 and v9.0r0

Ref number	Description
64978	Implement a fix to prevent a crash when using TrapPro with modular screens. (SW Call #121339, #121502). Changes made in the RIP binaries.
64979	Extend startup message to include IP address. Changes made in the HLS.
64983	Make a change so that a blank selection does not appear for a Style in the Page Setup dialog when using a non-English UI (SW Call #121353). Changes made in the RIP binaries.
65010	Make a change so that Object to Image trapping difference in 8.1+ is resolved (SW Call #121253). Changes made in the RIP binaries.
65091	Implement a fix so that an elaborate “y” character is drawn correctly in a customer supplied file (SW Call #121429). Changes made in the RIP binaries.
65095	Allow CRDGEN to create 16 bit CRDs and allow the RIP to use them. Changes made in the RIP binaries.
65109	Implement a change so that a customer supplied PDF file processes more quickly (SW Call #121434). Changes made in the RIP binaries.
65116	Change stroke joins on faux bold fonts. Changes made in the RIP binaries.
65139	Font issues fixed by “64805”, on page 18 (SW Call #121459). Changes made in the RIP binaries.
65144	Fix an issue which caused incorrect output with 16-bit source raster modular half-tone and partial paint (SW Call #121451). Changes made in the RIP binaries.
65169	Make a change so that the set of calibration patches created does not differ from the set or patches printed (SW Call #121456). Changes made in the RIP binaries.
65175	Implement a fix which caused a slowdown in the RIP when processing clippaths (SW Call #121493). Changes made in the RIP binaries.
65189	Improvement of performance with that a customer supplied sample PDF file that covers the whole page in a “background” pattern made up from a font with just a few characters in it is fixed by “65240”, on page 20 (SW Call #121527). Changes made in the RIP binaries.
65229	Create v4.1 of Harlequin License Server and License Manager. Changes made in the RIP binaries and build system.

Table 1.4 Changes made between v8.3r1 and v9.0r0

Ref number	Description
65235	The NxN imposition objective issue which crashed the RIP is fixed by <a href="#">“65265”</a> , on <a href="#">page 20</a> . Changes made in the RIP binaries.
65236	Use HLS 4.1 for v9.0r0. Changes made in the RIP binaries and build system.
65237	Fixed by <a href="#">“12777”</a> , on <a href="#">page 14</a> . The customer supplied PDF 1.6 file does not now error with: %%[ Error: undefinedresult; OffendingCommand: Do(PDF) ]%% (SW Call #121563). Changes made in the RIP binaries.
65238	Install HLS as a launchd daemon on Mac OS X. Changes made to the installer.
65240	Implement a fix so that a customer supplied PDF file now processes at a similar speed as it did in v7.2 (SW Call #121510). Changes made in the RIP binaries.
65265	Implement a fix to prevent a crash when using Simple Imposition. Changes made in the RIP binaries.
65285	See <a href="#">“External image stream—65285”</a> , on <a href="#">page 12</a> .
65298	Update version, dates, and splash screen for v9.0r0 and set watermark expiry date to 31 Mar 2013. Changes made in the RIP binaries.
65306	Remove Enfocus StatusCheck support. Changes made in the RIP binaries and the HqnPageSetupConf procset.
65316	Avoid finding unnecessary inkings during black generation, especially for Maximum Black. Changes made in CRDGEN.
65350	Allow more extra gray levels in the CSS dialog. Changes made in the RIP binaries.
70007	Update Fogra and IFRA Press Profiles for RIP. Changes made in the RIP binaries.

Table 1.4 Changes made between v8.3r1 and v9.0r0

## 5 Exclusions and known problems

Every effort is made to produce Harlequin RIP software complete and free of problems. We have however identified the following known issues described below:

- [“Known issues”](#), on [page 21](#)
- [“Installation issues”](#), on [page 22](#)
- [“Transparency/Recombine/Late color management issues”](#), on [page 23](#)
- [“TrapPro issues”](#), on [page 23](#)
- [“Simple Imposition issues”](#), on [page 23](#)

- [“Miscellaneous issues”, on page 24](#)

## 5.1 Known issues

This table contains a list of known issues. See the following sections for issues with more details.

Ref number	Description—Known issues
11561	See <a href="#">“Calibration Manager: incorrect copying of values—11561”, on page 24.</a>
12534	Poorly constructed PDF fails with %%[ Error: syntaxerror; OffendingCommand: pdfscan ]%%.
12536	CET files testing defineresource, resourceforall, resourcestatus and undefineresource all fail.
12537	Certain PDF files under perform in v8.0r0 when compared to 7.2r0.
22296	See <a href="#">“Problem with the List Spot Colors page feature—22296”, on page 23.</a>
26871	Add CMY preserve 100% check boxes to color GUI.
27817	See <a href="#">“ColorantZoneDetails does not use the default if a parameter is missing—27817 (SP4)”, on page 23.</a>
28663	See <a href="#">“Quit the RIP if target Migrate RIP is running—28663 (v7.0)”, on page 23.</a>
28738	See <a href="#">“Using LoadSetup with Simple Imposition—28738 (v7.0)”, on page 24.</a>
29762	See <a href="#">“Multiple migrates in the same session end up in error—29762”, on page 22.</a>
29860	See <a href="#">“Migrating to Simple Imposition (from v 6.x) assumes the presence of same named SI setting—29860”, on page 22.</a>
51229	Mitre joins drawn incorrectly for filled figure in DTM test sample file.
51272	Crash in mono RLE.
50796	Comply with ICCv4: implement Transform Tag Interpretation.
60686	RIP reports invalid font for an XPS package using a particular CJK font.
61014	Several PDF documents fail with an %%[ Error: invalidfont; OffendingCommand: Tj(PDF) ]%%.
61054	A Genoa test file which previously ripped in v7.2, will fail in v8.0 with a type-check, renderband error.
61066	Crash in rcbshfil.c with recombine and shade12.ps.
61252	See <a href="#">“Bounding Box affects color conversion—61252 (v7.2)”, on page 23.</a>
61269	See <a href="#">“RIP fails to find CID font—61269 (v7.2)”, on page 25.</a>
61459	See <a href="#">“Font emulation shows regression from v7.1—61459”, on page 24.</a>
61642	Composite PDF with recombine page setup asserts and crashes the RIP.
61835	Support for Window Previews on the Taskbar in Windows Vista.
62029	Customer test file fails with: ERROR: /undefined OFFENDING COMMAND: 0d30303030303030.
62235	Characters in text of exhibit job RIP as rectangles.
62264	Allow OEM customization of default Color Management settings.
62307	See <a href="#">“Transparent white object incorrectly knocks out (regression)—62307”, on page 24.</a>

Table I.5 Known issues list

Ref number	Description—Known issues
62349	See “ <a href="#">InstallAnywhere is incompatible with Windows Vista Aero color scheme—62349</a> ”, on page 11.
62540	Blank page buffer is produced as the first page when retained raster is enabled.
62542	Stacking issue when using retained rasters.
62768	See “ <a href="#">Installation on Mac OS X Leopard—62768</a> ”, on page 11.
62784	Some transparency files fail when using EpsonVSD devices.
62791	See “ <a href="#">Number of characters in dialog edit strings (Windows)—62791</a> ”, on page 24.
62796	When using Core Halftone screening, the “Screen Usage: Dot Shape:” lines only list one of the colorants. It should display all eight.
65422	Band-interleaved separations should not be used for output. Use of them, especially when processing jobs with live PDF transparency, may lead to RIP crashes. Other separated configurations and band-interleaved contone output are unaffected.
65424	Multi-bit modular halftoning (other than HEDS2) is not called, and the resulting output will be unscreened contone. HEDS2 and non-modular screening work as expected.

Table I.5 Known issues list

## 5.1.1 Installation issues

This section describes installation issues.

### 5.1.1.1 USB dongle failure

Isolated incidents of USB Dongle failure have been observed when using the dongle in passive USB hubs, monitors, docking stations, etc. We recommend placing the dongle in a powered USB port on the PC.

## 5.1.2 Migrate issues

The section provides details on some Migrate issues.

### 5.1.2.1 Migrating to Simple Imposition (from v 6.x) assumes the presence of same named SI setting—29860

When a page setup that uses a `Crop Marks Page` feature is migrated into a v7.1 RIP that does not have a Simple imposition setting called `Crop Marks`, the v7.1 page setup Simple imposition menu will be blank, and any editing attempts result in the message:

```
Please select an Imposition setup.
```

The Page setup can be used to RIP jobs, but displays the message:

```
Using Imposition Setup "(Crop Marks)"Warning: Failed to find Imposition Setup "(Crop Marks)", defaulting to (None)
```

### 5.1.2.2 Multiple migrates in the same session end up in error—29762

Migrate is able to be run a number of times in the same session (that is, you may migrate RIP A -> RIP B, and then RIP C -> RIP D and so on, without quitting Migrate). We have however found that such multiple migrations may result in error for the latter migrations, especially on color setups. It is therefore recommended that the Migrate application is restarted between migrations.

### 5.1.2.3 Quit the RIP if target Migrate RIP is running—28663 (v7.0)

Using Migrate 3.3 issued with v7.0 the target RIP can be open and running while Migrate is running. Migrate will display a prompt to merge the `sw` folders, and the user can confirm this without any displayed message. Any changes made will not take effect until the RIP is restarted, but the RIP could become destabilized.

A message should be displayed prompting the user to quit the RIP to continue migrating. To avoid destabilization the target RIP should be quit.

## 5.1.3 Transparency/Recombine/Late color management issues

Please note the following points when using Transparency, Recombine or Late color management:

- Partial painting is not supported with transparency jobs.
- Text Knockout Mode is not supported.

**Note:** Multi-page imposition cannot be used with recombine. However, `Crop Marks`, or other uses of the `One-Up`, `single-sided` imposition scheme, (for example, when adding a color bar), can be used with recombine.

For more details see the *Recombine* section of the *OEM Manual*.

### 5.1.3.1 Bounding Box affects color conversion—61252 (v7.2)

If the results of using Bounding Box Page Feature/Simple Imposition option are compared with not using it, without the Bounding Box, and using CMYK, with a yellow and black test image, the RIPped file is correct. With Bounding Box there is a heavy percentage of background yellow and no black. Photoshop shows a 6% tint of yellow when the RGB file is converted to CMYK.

When RIPping this file in 7.1r4, Bounding Box correctly has no effect on the color. Later versions do.

A work around is available for this issues please contact your support channel.

### 5.1.3.2 Problem with the List Spot Colors page feature—22296

If Recombine is switched on the List Spot Colors page feature will report `No spot colors in page` when spot colors are present.

## 5.1.4 TrapPro issues

This section details the issues relating to TrapPro.

### 5.1.4.1 ColorantZoneDetails does not use the default if a parameter is missing—27817 (SP4)

This only affects users who wish to set trapping parameters using a PostScript language file. Every parameter in `trapparams` is optional, and not specifying a parameter, generally means that the default value is used (in the same way as `setpagedevice`). However, if the `/TrapColorScaling` key (in `ColorantZoneDetails`) is not defined, the default value is not used. This can cause unpredictable results.

## 5.1.5 Simple Imposition issues

This section details some issues related to Simple Imposition.

### 5.1.5.1 Simple Imposition and Harlequin RIP page setups

Simple Imposition setups are not stored with the Harlequin Page Setups, they are referenced setups. This means that several page setups can use a single Simple Imposition setup. If you do use a Simple

Imposition setup for different page setups it is important that you select a Custom page size (rather than getting the page size from the Media or Job).

## 5.1.6 Miscellaneous issues

This section contains miscellaneous issues:

### 5.1.6.1 Number of characters in dialog edit strings (Windows)—62791

Because of the change to the new style Windows XP GUI all the dialog edit strings work with Unicode. A maximum of 31 characters is allowed and there are no problems when the characters are 1 byte long. However, when some of the characters are 2 bytes long (such Japanese characters), the 31 characters will not fit into the reserved string anymore. Therefore, if you attempt to add characters to the end of an existing name and click OK a dialog will appear asking you to use a unique name (which of course you are but the system does not recognize the new characters). To work around this delete the name and use a shorter completely unique name.

Please note that no warnings are displayed.

### 5.1.6.2 Font emulation shows regression from v7.1—61459

During testing we have found an instance of a file where Font emulation did not work correctly whereas it previously worked in v7.1. There is an incompatibility between font emulation and derived fonts. When the RIP is about to faux an “existing” font, it should to check to see whether it is an emulated one, and if so, avoid the fauxing.

### 5.1.6.3 Jobs remain in output controller

During testing we have seen jobs remain in the output controller using a customers digital press plugin. The jobs process successfully and PGBs are created and placed into the Input Queue. When the job starts to output, it remains in the center of the Output Controller dialog indefinitely.

We have found that targeting a location for the plugin which is different to the default location can help to avoid the issue.

### 5.1.6.4 Using LoadSetup with Simple Imposition—28738 (v7.0)

`LoadSetup` in the `HqnControl` procset can be used with Simple Imposition. However, if a PostScript language file is dropped into a hot folder that uses `LoadSetup` and calls a Simple Imposition page feature, the file will complete but will not be moved or deleted after completion.

**Note:** Using `LoadSetup` to call a page setup using Simple Imposition will not apply any of the following from the page setup loaded:

- Page features.
- Toothpick or screening accelerator settings.
- A PostScript language level other than 3.

### 5.1.6.5 Transparent white object incorrectly knocks out (regression)—62307

During testing we have found a specific file which ignores a 40% transparency value and reproduces it as a solid white object.

### 5.1.6.6 Calibration Manager: incorrect copying of values—11561

The following issues have been reported relating to copying color channels in the Calibration Manager with the `Printing Press` device.

- Using a `Printing Press` device, dot gain values are not used when copying into the `Other colors in job` channel.
- When copying between process channels, exact values are not copied.

For `Printing Press`, there are two calibration curves; an underlying calibration curve and a dot gain curve. The latter is intended to be the dot gain measured when the former is applied to raw CMYK values. The dot gains are actually derived by applying a transform using data in the profile. For `Other colors in job`, the transform is linear so we see a straight line in the calibration editor.

The RIP currently copies the calibration curve (a straight line) where it should be copying the dot gain data. This explains why nothing happens when copying a channel to the `Other colors in job`.

The problem with this is that the press calibration works by calculating the difference between the intended and actual press dot gains. If the intended press contains the default straight line for `Other colors in job`, you are likely to see pale calibrated spot colors.

#### 5.1.6.7 RIP fails to find CID font—61269 (v7.2)

CID Fonts referenced by their name alone and no encoding stubs, fail to find the correct font, even though one has installed the correct `.ttf` file. The fact that the `Font` and `CIDFont` categories share the same substitution list causes significant problems.

It can be fixed with a stub. Save the following PostScript language code in the `SW/fonts` directory as:

```
<FontName>      Example: "FZXH1JW--GB1-0"

%!PS-Adobe-3.0 Resource-Font
%</FontName> dup /CIDFont findresource definefont (Example on next line:)
/FZXH1JW--GB1-0 dup /CIDFont findresource definefont
```

This problem is occurring because the font is installed to the `CIDFont` directory. If it was placed in the `fonts` directory instead, it would work. Therefore, a work-around is to move the installed CIDfonts to `/SW/fonts` from `/SW/CIDFont`.

## 6 Documentation

The following Documentation has been created or updated for this release:

Title	Status	Format
Installation Guides	Updated	PDF/MIF
OEM Manual	Updated	PDF/MIF
Extensions Manual	Updated	PDF
HLS Manual	Updated	PDF
Plugin Kit Manual	Updated	PDF
ColorPro Manual	Updated	PDF/MIF
TrapPro	Updated	PDF/MIF
Localization Kit Release Notes	Updated	PDF
Pagebuffer File Format	Updated	PDF
Migrate	Updated	PDF
HP130	Updated	PDF/MIF

Table I.6 Documentation

<b>Title</b>	<b>Status</b>	<b>Format</b>
Epson 3800	Updated	PDF/MIF
Epson 4800	Updated	PDF/MIF
Epson 4880	Updated	PDF/MIF
Epson 7800/9800	Updated	PDF/MIF
Epson 7880/9880	Updated	PDF/MIF
Epson 118800	Updated	PDF/MIF
HP T1100/T610	Updated	PDF/MIF
HP Z2100	Updated	PDF/MIF
HP Z6100	Updated	PDF/MIF
CIP3 plugin	Updated	PDF/MIF
List Of Technical Notes	Updated	PDF/MIF
Hqn075	Updated	PDF
Hqn077	Updated	PDF/MIF
Hqn078	Updated	PDF/MIF
Hqn079	Updated	PDF
Hqn081	New	PDF/MIF

Table I.6 Documentation

## COPYRIGHT AND TRADEMARKS

Harlequin PLUS Server RIP v9.0r0

July 2011

Document issue: 125

Copyright © 2011 Global Graphics Software Ltd. All rights reserved.

Certificate of Computer Registration of Computer Software. Registration No. 2006SR05517

No part of this publication may be reproduced, stored in a retrieval system, or transmitted, in any form or by any means, electronic, mechanical, photocopying, recording, or otherwise, without the prior written permission of Global Graphics Software Ltd.

The information in this publication is provided for information only and is subject to change without notice. Global Graphics Software Ltd and its affiliates assume no responsibility or liability for any loss or damage that may arise from the use of any information in this publication. The software described in this book is furnished under license and may only be used or copied in accordance with the terms of that license.

Harlequin is a registered trademark of Global Graphics Software Ltd.

The Global Graphics Software logo, the Harlequin at Heart Logo, Cortex, Harlequin RIP, Harlequin ColorPro, EasyTrap, FireWorks, FlatOut, Harlequin Color Management System (HCMS), Harlequin Color Production Solutions (HCPS), Harlequin Color Proofing (HCP), Harlequin Error Diffusion Screening Plugin 1-bit (HEDS1), Harlequin Error Diffusion Screening Plugin 2-bit (HEDS2), Harlequin Full Color System (HFCS), Harlequin ICC Profile Processor (HIPPP), Harlequin Standard Color System (HSCS), Harlequin Chain Screening (HCS), Harlequin Display List Technology (HDLT), Harlequin Dispersed Screening (HDS), Harlequin Micro Screening (HMS), Harlequin Precision Screening (HPS), HQcrypt, Harlequin Screening Library (HSL), ProofReady, Scalable Open Architecture (SOAR), SetGold, SetGoldPro, TrapMaster, TrapWorks, TrapPro, TrapProLite, Harlequin RIP Eclipse Release and Harlequin RIP Genesis Release are all trademarks of Global Graphics Software Ltd.

Protected by U.S. Patents 5,579,457; 5,808,622; 5,784,049; 5,862,253; 6,343,145; 6,330,072; 6,483,524; 6,380,951; 6,755,498; 6,624,908; 6,809,839.

Other U.S. Patents Pending

Protected by European Patents 0 803 160; 0 772 934; 0 896 771; 672 29 760.8-08.

Portions licensed under U.S. Patent No. 5,212,546; 4,941,038.

TrueType is a registered trademark of Apple Computer, Inc.

The ECI and FOGRA ICC color profiles supplied with this Harlequin RIP are distributed with the kind permission of the ECI (European Color Initiative) and FOGRA respectively, and of Heidelberger Druckmaschinen AG (HEIDELBERG).

The IFRA ICC profiles supplied with this Global Graphics Software are distributed with the kind permission of IFRA and of GretagMacbeth.

International Cooperation for Integration of Processes in Prepress, Press and Postpress, CIP4, Job Definition Format, JDF and the CIP4 logo are trademarks of CIP4.

Adobe, Adobe Photoshop, Adobe Type Manager, Acrobat, Display PostScript, Adobe Illustrator, PostScript, Distiller and PostScript 3 are either registered trademarks or trademarks of Adobe Systems Incorporated in the United States and/or other countries which may be registered in certain jurisdictions.

Global Graphics Software Ltd is a licensee of Pantone, Inc. PANTONE® Colors generated by ScriptWorks are four-color process simulations and may not match PANTONE-identified solid color standards. Consult current PANTONE Color Publications for accurate color. PANTONE®, Hexachrome®, and PANTONE CALIBRATED™ are trademarks of Pantone, Inc. © Pantone, Inc., 1991.

Other brand or product names are the registered trademarks or trademarks of their respective holders.



US Government Use

Harlequin RIP software is a computer software program developed at private expense and is subject to the following Restricted Rights Legend: "Use, duplication, or disclosure by the United States Government is subject to restrictions as set forth in (i) FAR 52.227-14 Alt III or (ii) FAR 52.227-19, as applicable. Use by agencies of the Department of Defense (DOD) is subject to Global Graphics Software's customary commercial license as contained in the accompanying license agreement, in accordance with DFAR 227.7202-1(a). For purposes of the FAR, the Software shall be deemed to be 'unpublished' and licensed with disclosure prohibitions, rights reserved under the copyright laws of the United States." Global Graphics Software Incorporated, 31 Nagog Park, Suite 315, Acton MA 01720.