



HARLEQUIN^{PLUS} Server RIP (v8.0)

The Harlequin RIP continues to deliver key capabilities: performance, reliability, flexibility, excellent color quality, dependability and a rich feature-set for a variety of environments. The latest iteration - the Harlequin PLUS Server RIP (v8.0) - encompasses Global Graphics' next generation kernel technology, providing native XPS, PDF and PostScript® interpretation, and many 'workflow in a

box' prepress capabilities that are not always expected in a RIP including trapping, screening, proofing, color management, simple in-RIP imposition and font emulation. After nearly two decades, the descendents of the first Harlequin RIP continue to outpace the industry by offering an exemplary level of RIP performance.

All native, all of the time

The Harlequin PLUS Server RIP (v8.0) handles XPS, PDF & PostScript natively, without first converting to another format, resulting in faster, more accurate throughput. The RIP supports the following Page Description Languages (PDLs):

- XPS v1.0
- PDF 1.7, including PDF/X-1a, PDF/X-3 and PDF/X-4
- PostScript Language Level 3

Color management & proofing

Available with the Harlequin PLUS Server RIP (v8.0) is Harlequin ColorPro™ which provides excellent color process control, giving accurate, consistent and predictable color reproduction for a wide range of workflows including ICC profiles. Harlequin SetGold Pro™ is a utility for making high quality input and output profiles that are tightly integrated with the Harlequin RIP and optimizes the quality of the color output of the printing or proofing device. ProofReady™ plugins provide OEMs with the tools they need to deliver 'out of the box' color proofing. A Color Management Module (CMM) API also allows OEMs to easily add their own or third party color management.

Screening

Global Graphics is at the forefront of leading edge screening techniques, holding extensive patents in screening technology. The Harlequin Screening Library™ (HSL™) is a collection of advanced screening techniques designed to resolve the quality issues faced by the pre-press and printing industry and includes our patented solution for high quality stochastic screening - Harlequin Dispersed Screening (HDS), as well as special screen sets developed specifically to support N-color applications and photo inks. A screening API also allows OEMs to easily plug in their own screening algorithms or a complete screening solution of their choice.

In-RIP trapping

Our best-in-class, powerful trapping solution, Harlequin TrapPro™, is the result of extensive internal development. This in-RIP trapping technology handles trapping automatically, as the page is processed in the prepress workflow.

Font Emulation

The Harlequin PLUS Server RIP (v8.0) has one of the most advanced font emulation capabilities on the market. Where there is a missing font, this feature can be switched on to make a typographically acceptable match with no text overflow and, where character spacing, weight and width matches that of the missing source.

Simple Imposition

Simple Imposition is an optional in-RIP imposition capability which can be used for a variety of different schemes, and a variety of different formats. Imposition management is accessed and edited easily through simple, graphical new GUI controls accessed directly from the Page Setup dialog within the RIP.

JDF-enabled

Harlequin RIPs are JDF-enabled; they are able to process jobs passed to them from a JDF source. Harlequin PLUS Server RIP (v8.0) introduces support for the JDF 1.3 specification and is designed for compliance with level 2 of CIP4's base Interoperability Conformance specification (ICS). The Harlequin RIP Genesis Release (v7.1) was the first product to be officially CIP4 certified following testing by the Printing Industries of America./Graphic Arts Technical Foundation, against the Layout Creator to Imposition (LayCrlmp) ICS and Base ICS.



The Harlequin RIP Genesis Release (v7.1) was the first product to be JDF certified by CIP4.



Harlequin PLUS Server RIP

FEATURES

Color management	Harlequin ColorPro™ with enhanced GUI Support for RGB, CMYK, N-Color and gray ICC 4.0 profiles Press/Proof Simulation Color management module (CMM) API				
Proofing	Epson ProofReady™ plugin support (SWOP® certified on Mac OS 10.2.1 when used with Epson Stylus Pro 4000, SetGoldPro and Harlequin RIP Eclipse Release™ SP4) Harlequin 1bit and 2bit EDS Screening SetGold™ v3.0 on Windows XP Optional proofing Plugins available for the following: <table><tr><td>Epson</td><td>Hewlett-Packard</td></tr><tr><td><ul style="list-style-type: none">● 2200, 3000, 5000, 5500, 7500● 4000, 7600, 9600, 10000, 10600● 3800, 4800, 7800, 9800including variable dot size devices</td><td><ul style="list-style-type: none">● HP DesignJet 120● HP DesignJet 130● HP DesignJet 10, 20, 50● HP DesignJet 1050C/1055CM● HP DesignJet 2000CP/2500CP● HP DesignJet 3000CP/3500CP● HP DesignJet 5000 (42" and 60" wide models), 5500</td></tr></table>	Epson	Hewlett-Packard	<ul style="list-style-type: none">● 2200, 3000, 5000, 5500, 7500● 4000, 7600, 9600, 10000, 10600● 3800, 4800, 7800, 9800 including variable dot size devices	<ul style="list-style-type: none">● HP DesignJet 120● HP DesignJet 130● HP DesignJet 10, 20, 50● HP DesignJet 1050C/1055CM● HP DesignJet 2000CP/2500CP● HP DesignJet 3000CP/3500CP● HP DesignJet 5000 (42" and 60" wide models), 5500
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Trapping	Harlequin TrapPro™ (optional) Trap Zone support with PDF files in TrapPro				
File Types	XPS 1.0 PDF 1.0, 1.1, 1.2, 1.3, 1.4, 1.5, 1.6, 1.7 PDF/X-1a:2003 & PDF/X-3:2003 PDF/X-1a:2001 & PDF/X-3:2002 PDF/X-4, PDF/X-4p TIFF™ 6 TIFF/IT-PI (optional) HDPhoto JPEG, GIF JPEG2000 (with PDF 1.5 or greater) DCS and DCS 2 PostScript LL 1/2/3 EPS JDF 1.1a, 1.2 and 1.3 specification files				
Network Protocols	TCP/IP AppleTalk® (Mac, PC) Windows® named pipe, Unix®-style sockets Serial				
Supplied Fonts	Base 35 core Linotype Fonts (optional)				
Font Support	Demand Loadable Fonts (DLD1) (Harlequin automatic conversion of Type 1 fonts into compact DLD1 font format allows use of more than 1,500 fonts per page) Type0, Type1, Type2 (CFF), Type 3, Type 4, Type32, Type 42 (TrueType) CID fonts, including TrueType based 'New CID' OpenType and TrueType collections (.ttc) Morisawa Fonts CID/OCF (optional, requires license with Morisawa)				
Other font controls	User defined font substitution Font emulation Font rendering API				
Calibration	Calibration, dot gain, tone curve controls Genlin™ Utility: auto-import of calibration values from the following devices: <ul style="list-style-type: none">● X-Rite 408, DTP41 series, DTP 32, DTP 12, 938, DTP34● GretagMacbeth Eye-One				

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FEATURES (continued)

Screening

Support for AM/FM screening tuned for a variety of devices:

- Renowned Harlequin Precision Screening™ (HPS)
- Harlequin Dispersed Screening™ (HDS). Patented FM/Stochastic screening (Optional)
- Harlequin Error Diffusion Screening™ (EDS) (Optional)
- Screening API

SYSTEM REQUIREMENTS

Windows 2000, 2003, XP, Vista

Processor: Pentium-based processor @ 450 MHz

Redhat Linux Enterprise Server v3.0

Processor: Pentium-based processor @ 450 MHz

Mac® OS X (10.2-10.5.x), Mac OS X Server (10.3.x, 10.4.x)

Processor: PowerMac G3, G4, G5; IntelMac

All systems

Memory: 256 MB

- Add an additional 8 MB RAM for each composite PostScript font used in a single job.
- Add an additional 12 MB for Harlequin Precision Screening™ (HPS™).
- Add an additional 64 MB for TrapPro.
- Add an additional 32 MB for EDS Screening in the output plugin.

Hard drive: 4 GB free space (minimum)

Port: Parallel/USB port for the Sentinel security dongle.

CD-ROM: CD-ROM drive for installing the Harlequin RIP

WHAT'S NEW IN
LEADERBOARD

EIGHT™

- Native processing of XPS 1.0 files
- Native processing of PDF 1.7 (in addition to previously available native support for PDF 1.6 through to PDF 1.0 and native processing of PostScript)
- Native PDF/X-4 support
- HD Photo support
- JDF 1.3 compatible
- Significant performance increases:
 - Multi-threaded rendering that helps remove RIP bottlenecks in handling raster data and takes full advantage of the new Duo and Quad core technologies
 - PDF retained raster that speeds up variable data processing
- Raster PDF output to facilitate soft proofing
- Compatible with Windows® Vista™
- Compatible with MAC OS X 10.5 (Leopard).

IN ADDITION TO PREVIOUSLY AVAILABLE FEATURES INCLUDING:

- PostScript LL3 compatible
- Award winning in-RIP Font Emulation
- Two and four up in-RIP Simple Imposition
- In-RIP color management
- In-RIP trapping
- Cross platform.



ONE OPEN ARCHITECTURE MANY PDL APPLICATIONS INFINITE OPPORTUNITIES

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www.globalgraphics.com

Global Graphics Software Inc.

5875 Trinity Parkway, Suite 110
Centreville, VA 20120, USA
Tel: +1 703 266 9588
Fax: +1 703 266 9582

Global Graphics Software Ltd

2nd Floor, Building 2030
Cambourne Business Park
Cambourne, Cambridge
CB23 6DW UK
Tel: +44 (0)1954 283100
Fax: +44 (0)1954 283101

Global Graphics KK

Level 14, Hibiya Central Building
1-2-9 Nishi-Shimbashi, Minato-ku
Tokyo 105-0003, Japan
Tel: +81-3-5532-7340
Fax: +81-3-5532-7373