



## v13.0r1 Release Notes



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Global Graphics Software Limited is pleased to announce the release of Harlequin® MultiRIP™ (HMR) v13.0r1.

## 1 Alerts and guidance

### 1.1 *LDK utilities and run-time reminder*

If you're using LDK security, please remember:

LDKTool and LDKUtil will no longer work for activating LDK licenses after Nov 3<sup>rd</sup> 2020. You *must* use version 2 of these utilities, as shipped with Harlequin 13.0r0 and later, and available on the Global Graphics FTP site.

The LDK 7.100 run time and earlier will not work on Windows 10 build 2004; you must use run time 7.103, as shipped with Harlequin 13.0r0 and later.

### 1.2 *Windows compiler*

MSVC 16.4 or later was recommended for Harlequin 13.0r0. This is updated to MSVC 16.7 or later for Harlequin 13.0r1.

### 1.3 *BlackTint now applied to smooth shades*

The BlackTint setinterceptcolorspace key can now be applied to some smooth shades as well as to fill, strokes and text. If your configuration sets BlackTint to false, then output may change for jobs containing shadings. Black tint preservation is not exposed in the user interface, but may be configured in a page feature, plugin setup code etc. You can control the object types to which it will be applied by using a dictionary value for BlackTint, setting the value of its Vignette key to true. See Extensions Manual for more details. (HQN-381966)

## 2 New features and improvements

For details regarding new features and improvements made to this release, please see:

- Avoiding a new cause of invalidfont errors - 2.1

### 2.1 *Avoiding a new cause of invalidfont errors (HQN-382235)*

We've seen a significant number of reports over the last few months of a new problem with fonts embedded in PDF files, coming in from multiple OEMs and from multiple sectors of the printing industry.

The error is reported as invalidfont, with an "offending command" that's one of the PDF text painting operators such as Tj, although, of course, many other badly formed fonts can trigger that same report.

The cause of many of the new incidences of this problem has been that the PDF files contain an embedded TrueType font which is invalid because it does not contain a CMap table. The error is therefore correct behavior. But we've also found in these new cases that the CMap table is not actually used. So, for Harlequin 13.0r1 we have moved the code to trigger the error such that it is now called only if the font attempts to use a missing CMap.

We have not been able to pin down the cause for this new wave of problems. We've noticed that many (but not all) of the examples that we have been sent use fonts from the Google font library (<https://fonts.google.com/>). Some reports have also implicated the OpenType Sanitizer (OTS). Whatever the cause, it's clear that something new has been widely adopted in the resources or tools used for PDF creation, which is why we're bringing out a change in Harlequin 13.0r1 to allow your customers to process these PDF files.

### 3 Notes about this release

This section contains notes about the changes made to HMR v13.0r1:

#### 3.1 Procset changes

The following procsets have been changed between HMR v13.0r0 and HMR v13.0r1:

`HqnControl`, `HqnCSV`, `HqnImpose2`, `HqnInputTypes`

No procsets have been removed or added.

For reference, the following procsets were changed between HMR v12.1r2 and HMR v13.0r0:

`HqnAssert`, `HqnColorDatabase`, `HqnCompare`, `HqnControl`, `HqnCSV`,  
`HqnErrorHandler`, `HqnImage`, `HqnImpose2`, `HqnInputTypes`,  
`HqnLayout`, `HqnLocal`, `HqnPageSetupConf`, `HqnPDFPages`, `HqnSpots`,  
`Trapping`

The following were removed between 12.1r2 and 13.0r0:

`HqnFontSubstitution`, `HqnLogo`, `HqnZIP`

### **3.2 Updates to supported platforms and compilers**

Harlequin MultiRIP 13 requires the 64-bit version of Windows.

- Windows 8.1 (requires SP1, excludes Windows RT)
- Windows Server 2012 R2 (Standard Edition only, excludes Server Core configuration)
- Windows 10 workstation (excludes Windows Mobile and Mobile Enterprise, embedded and IoT Core).
- Windows Server 2016 (Standard Edition only, excludes Server Core, Nano-server configurations)
- Windows Server 2019 (excludes Server Core, Nano-server, Windows Server 1809 configurations); from HMR 12.1.

Plugins should be compiled with MSVC 2019, v16.7 or later (from HMR v13.0r1).

### **3.3 Installers**

Installers provided by Global Graphics Software are now built using InstallAnywhere 2020 (HQN-381462).

### **3.4 LDK Run-time**

Harlequin v13.0r1 is shipped with LDK Run-time v7.103. See also Section 1.1.

### 3.5 *Plugins and utilities*

Any plugins distributed with this release are supplied solely for use with the Harlequin MultiRIP v13.

The Harlequin MultiRIP will support OEM and third-party plugins using input and output, color management and screening APIs.

The following table lists the standard and optional plugins and the various utilities available with the Harlequin MultiRIP v13.0r1:

Availability	Plugin/Utility	v13.0r1	v13.0r0
Standard	Migrate	9.1r0	9.1r0
Standard	Genlin	3.1r2	3.1r2
Standard	SetGold	5.3r0	5.3r0
Standard	LDK utilities	2.0r0	2.0r0
Standard	Spro2ldk	2.0	2.0
Standard	LDK Run-time	7.103	7.103
Standard	Socket	3.2r4	3.2r4
Standard	Spool folder	3.7r0	3.7r0
Standard	PDF Raster	1.4r4	1.4r4
Standard	Testdev (none)	3.2r5	3.2r5
Standard	TIFF	4.5r1	4.5r1
Standard	CRD Generator plugin	70.0r1	70.0r0
Optional	CIP3	1.6r2	1.6r2
Optional	OKI C931/C941/C942	2.4r3	2.4r3
Optional	NT Pipe	1.1r3	1.1r3
Optional	Plugin Kit	20.3r2	20.3r2

### 3.6 *Watermark RIPs*

The drop-dead date for HMR v13.0r1 watermark RIPs has been set to September 30, 2021.

### 3.7 Documentation change details

This section contains details of the various documents that have been or are planned to be created or updated for Harlequin MultiRIP v13.0r1:

<i>Release Notes</i> (this document)
<i>Extensions Manual</i>
<i>API Reference Manual</i>

**Note:** HMR documentation is available on the Support FTP site at:

<http://support.globalgraphics.com/login.html>. Go to /HMR\_Common/HMR\_Doc.

**Note:** All HMR technical notes are located at: <http://support.globalgraphics.com/login.html>.

Go to /HMR\_Common/HMR\_Doc/Technical Notes.

## 4 Harlequin MultiRIP v13.0r1 change details

Jira story	Support call(s)	Summary
HQN-301079		Optimize iHVD when the PageRange requests the same page multiple times
HQN-378955	2654, 3606, 3716	Improve rendering of DeviceN color spaces that contain both None and a spot name that's not a device colorant or in an NCD
HQN-379864		Support PDF files with CIDFont widths arrays with more than 65535 entries
HQN-381067		Allow 8-bit containers for image mask data from a JPEG2000 image in a PDF file
HQN-381151		Accelerate PDF files using many grey levels in simple graphics
HQN-381469		Update Global Graphics logos in Doxygen documentation
HQN-381602		Improve TIFF input error messages
HQN-381666		Handle failure to find an HPS solution for non-optimized screen angles
HQN-381715	3461	Extend Fit under ControlFile in HqnImpose2 to apply to PDF and image files
HQN-381780	3456, 3516	Allow spot colors without CMYK equivalents to be processed
HQN-381817	3119	Disable caching of small vector outlines with RenderAccurate scan conversion to avoid the potential for misalignment by one pixel
HQN-381831	126006	Remove unwanted trap line in specific customer job
HQN-381832		Improve error handling for CSV data sources for dynamic overlays
HQN-381908	3506	Improve separation omission logic for jobs with colored patterns
HQN-381940		Extend the ICC profiles shipped with Harlequin to include updates from the registry at color.org
HQN-381966	3514	Apply BlackTint preservation to ShadingType 2 and 3 smooth shadings

Jira story	Support call(s)	Summary
HQN-381979	3523, 2082	Amend decoding of 4-bit, Flate-compressed data streams with predictor=2 to match Acrobat rather than the specification
HQN-381980		Improve low memory handling of image blocks
HQN-382015	3536	Optimize for PDF files with huge numbers of gstates and other resources
HQN-382023	3537	Accelerate rendering of rotated images in transparency regions
HQN-382040		Avoid memory fragmentation in long jobs with PDF transparency
HQN-382052		Reduce global VM build up from error handling
HQN-382071	126119	Render PDF optional content groups that are (incorrectly) not listed in OCProperties
HQN-382075		Improve error checking for screening modules
HQN-382097		Improve compatibility with Acrobat on soft masks when PoorSoftMask is set
HQN-382166	3537	Improve caching behavior of spot halftones with transfer functions for jobs with multiple screens
HQN-382167		Accelerate screened output with many shfills
HQN-382232		Prevent rare cases of incorrect omission of separations when the All colorant is used
HQN-382235	3590, 126201, 3685	Accept PDF files with invalid embedded fonts that contain no CMap tables unless the CMaps are actually used
HQN-382238		Support modular screens delivering fewer than 256 gray levels
HQN-382244	3594	Account for very small differences in offsets between clip and graphics when using eHVD
HQN-382254	126151	Show dashes when they fall exactly on a dash-pattern transition boundary
HQN-382285	3602	Correct annotation size and position transformation from appearance space BBox
HQN-382447	3660	Correct handling of multiple values in Names array in ColorantFamily
HQN-382453	3654	Act on Orientation as well as ExtraOrientation in HqnContour
HQN-382454	3536	Re-use color management structures between soft masks to reduce memory usage and increase speed of some jobs
HQN-382472		Update HMR copyright dialog
HQN-382491		Optimize eHVD z-order manipulation to improve reuse
HQN-382522		Version 16.7 is the recommended Visual Studio 2019 update for Harlequin 13.0r1
HQN-382538		Add latest version of MSVC runtimes
HQN-382550		Improve handling of string sources for HqnImpose2 Marks
HQN-382558	3695	Correct issues with dynamically adding spots when their first use is in a soft mask
HQN-382570	3698	Correct color handling in rare cases when different elements use different color management
HQN-382610	3712	Support multi-byte characters in HqnImpose2 ControlGraphicText



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Harlequin® MultiRIP™ v13.0r1 Release Notes

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