



HARLEQUIN® multiRIP™

Release Notes

Version 10.0r2

May 2014

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Harlequin® MultiRIP™ v10.0r2

Release notes

Global Graphics Software (GGSL) is pleased to announce the release of the Harlequin® MultiRIP™ v10.0r2 (HMR).

The Harlequin MultiRIP v10.0r2 is the same as v10.0r0 with the exception of the changes and issues detailed below. For information about the changes and issues with v10.0r0 please consult the Release note provided with that release.

This release note contains the following information:

- [“New features and improvements” on page 3](#)
- [“Notes about this release” on page 4](#)
- [“Change details” on page 13.](#)

I New features and improvements

Please note the following changes made to HMR v10.0r2:

- Trapping performance improvements, including the initial release of multi-threaded trapping
- Fix for artifact in Cal Poly PDF/VT test suite
- Watermark RIPs using main build and LDK licences
- Add support for Windows v8.1 and Windows Server 2012 R2
- HXM screens at flexo angles
- SetGold and SetGoldPro updated to v5.1
- Getdongleinfo
- Maintenance and various fixes.

Please note the following changes made for HMR v10.0r1:

- Allow HXM/HDS spot color angles to be selected. For more information see [“Spot color screen angle selection for HXM and HDS—368116” on page 11](#)
- Improve the memory requirements for Harlequin VariData (HVD)
- Add Japanese resources for pdfrafter in HMR v10.0r1
- Update the plugin installer to include the new release of the Oki c9650 plugin (v1.7r0)
- Add the ability to see license details using the LDK tool. For more information see [“LDK tool “Display Keys” option” on page 10](#)

- The Plugin API now uses the actual RIP platform code instead of the licence platform so that 32-bit plugins work when a 32-bit RIP is run using a 64-bit licence for HMR 10 with a 32-bit upgrade
- Provide a method to report the actual value of max active threads to allow confirmation that passwords and configurations have been correctly applied. For more information see [“Reporting the actual value of MaxThreads” on page 10](#)
- HVD now works with parallel pages and a pdfexecid “chunked” workflow
- Make the LDK activation tool localizable and provide a Japanese translation
- Allow multiple LDK licences to be used on a single computer
- Global Graphics can now provide a single LDK Product Key that can be used with a 32- or 64-bit RIP build, rather than requiring different keys for the two builds
- Provide an example of how to deal with halftone rasters on a 64-bit OS. See [“Plugin Kit example—mpeg3” on page 12](#).

2 Notes about this release

This sections contains notes about the changes made to the release of HMR v10.0r2 and HMR v10.0r1.

2.1 Information about v10.0r2

This section contains changes made between v10.0r1 and v10.0r2.

2.1.1 Platform and operating system support

Support for Windows v8.1 and Windows Server 2012 R2 is added.

Before updating to Windows v8.1 and if you are using LDK security rather than HLS you should uninstall the LDK runtime using:

```
haspdinst.exe -remove.
```

For more information see: http://answers.microsoft.com/en-us/windows/forum/windows_8-hardware/remove-sentinel-runtime-drivers/06eb64f3-ca92-4336-a362-3d26f3d8dc2a.

The Harlequin MultiRIP v10.0r2 is formally supported on the following operating systems:

Component	Recommended and minimum requirements (R or M)	
Processor	Any core-I processor at 2 GHz or faster, or AMD equivalent	R
Operating system	32-bit HMR is supported on: <ul style="list-style-type: none"> • Windows XP • Windows 7 • Windows 8 64-bit HMR is supported on: <ul style="list-style-type: none"> • Windows 7 • Windows 8 • Windows 8.1 • Windows Server 2008 R2 • Windows Server 2012 • Windows Server 2012 R2 	
Hard drive	32 GiB or larger, preferably 7200 RPM or higher	M
System requirements	4 GiB RAM if not using TrapPro; 8 GiB RAM when using TrapPro. Note: The use of more than 4 GiB RAM implies a 64-bit RIP build Note: You may want to amend this value to account for your particular plugin requirements	R
Port	Parallel / USB port for the Sentinel security dongle unless using the LDK Note: Amend the port type depending on which dongle you supply	M
Network	Access via wired connection or WiFi for job submission and licence activation	R
Minimum monitor specification	1280 x 1024 or higher resolution	M
Sentinel LDK	The LDK Admin Control Centre (ACC) requires a web browser: <ul style="list-style-type: none"> • Internet Explorer 8.0 or later • Mozilla Firefox latest version 	M

Table 1 Harlequin MultiRIP recommended and minimum requirements

Note: For output devices running at higher resolutions, larger formats, more colorants, or those that run at high speed, more RAM, more disk space and a higher specification CPUs is highly recommended.

Note: HMR v10.0r0 (or later) is not supported on Mac OS X or Linux.

Note: On Windows Server 2012, if HMR is not installed in the default directory, but for example, on a second disk, you have to right-click the executable and select **Run as Administrator** in order for it to run.

Note: If you try to activate the LDK on Windows 7 without SP1 the error `failed to setup extended errors` is generated. It is recommended that you update the operating system by applying SP1. Alternatively, see <http://support.microsoft.com/kb/975858/en-us>. You could, if you wish, use a different machine for the activation. The same error is possible on Server 2008 R2.

2.1.2 Procset changes

The following procsets have been changed between HMR v10.0r1 and v10.0r2:

HqnImpose2, HqnPDFPages and HqnTarget.

2.1.3 Transition from HLS to LDK

When performing the transition from HMR 10.x with HLS to HMR 10.x with LDK the LDK runtime and components must be installed and the `SW\secprefs` file must be changed. Therefore, it is recommended that you perform a new install in a new location and select LDK for the security. You can then use the backup configuration and fonts tools to move data across from a pre-existing RIP.

If, however, you wish to transition your current installation, that is replace HMR 10.x with HLS with HMR 10.x with LDK on the same RIP, you must install the LDK runtime and components using the installer and change the `SW\secprefs` file to indicate that the RIP should use LDK security instead of HLS after the transition. The `SW\secprefs` file is created during the installation, and it informs the RIP which security option to use when both LDK and HLS are installed on a system.

To use LDK security the `SW\secprefs` file contents should be:

```
method
ldk
```

2.1.4 The `getdongleinfo.exe` utility

A `getdongleinfo.exe` utility is provided for end users to gather information about their SuperPro dongle and RIP passwords when they want to swap from using HLS security to LDK security.

Currently, OEMs are free to migrate users from HLS to LDK as required. However, support for HLS is planned to be dropped from HMR v 11 hence migration to LDK will be required.

The utility is straight-forward to use:

Double click `getdongleinfo.exe`. It reports if it can find a SuperPro dongle, and if it can it prompts you to locate the RIP's SW folder followed by a prompt for a location to save its results file. The resulting file should then be sent to the OEM so that they can request an appropriate LDK license. That license will enable the same features as in the original RIP, and use the same security number.

2.1.5 Watermark RIPs

From v10.0r2 the same RIP executable is used for watermark, demo and production RIPs. They are differentiated using flags in the license. If you take both 32- and 64-bit RIP builds you can use watermark licenses with both builds.

Watermark RIPs are made available using time-limited LDK licenses, and are different from production RIPs in that they will:

- add watermarks to all rasters output (as they always have done)
- disable FlatOut functionality
- disable the Executive

- display an “evaluation only” alert box at boot time and at random intervals thereafter (between every 10 and 20 minutes)
- have a drop-dead date for each RIP version. Watermark RIPs will stop working at the first of expiry of the license or the drop-dead date
- use a different range of RIP serial numbers from demo/production RIPs
- is not be usable with Harlequin VariData.

You can order product keys for watermark RIPs in the same way that you would order any LDK license. A different range of serial numbers for watermark and production licenses is used so that you can easily distinguish between the two.

Each new major RIP version requires a different Product Key for watermark RIPs. For example, a version 10 watermark Product Key will not work with version 11.

If you create your own installer you can automatically activate the watermark license as part of the installation without requiring the end-user to enter the Product Key (assuming an internet connection is available).

Watermark dongles are not provided as all user cases that benefited from that approach can now be better served with a regular time-limited LDK demo license.

Conversion of a watermark install to a production license is a a simple matter of activating a production license on the same computer. Note however, that the RIP serial number will change in the process, which means that some plugins, encrypted fonts and 3rd party options may require new passwords to re-enable them. This is because every watermark RIP activated from the same Product Key will have the same RIP serial number which must be replaced with a unique number when converted.

The watermark licenses can be ordered for a range of use cases with slight differences to suit your need:

- Every user different: Order a separate Product Key for each user, each with one activation. That is, installed on a single computer.
- Every dealer different: Order a watermark Product Key for each of your dealers (or distributors, or salesmen, etc). Each would allow for a number of activations. That is,. it can be installed and used on a number of computers. The activation count can be set by you when you order the license.
- One code: Order a single Product Key with a large number of activations, and provide the same Key to all of your sales channels and prospects.

2.1.6 New default values

The default value for the Disk space left for system value in the Configure RIP Options dialog is changed from 50 MiB to 5120 MiB.

2.1.7 New user interface control for image to image trapping

Add user interface control for Image To Image Trapping.

When image to image trapping is enabled (the default) traps, along with a center-line, are generated along an image boundary where the adjacent object is another image. This change overrides the table in the Adobe Technical Note #5622.

2.1.8 New HVD parameters

The following parameters for HVD have been implemented for v10.0r2:

`/OptimizedPDFCompactMemory`

This option can be used for both eHVD and iHVD.

This is a boolean switch controlling memory behavior and decides between the option of using less memory or faster operation. When this flag is true, the RIP discards some bits of scanner state earlier than it otherwise would. This leads to a lower overall memory usage for many jobs at the possible expense of less flexible mark coalescing and therefore more raster elements per page on average. Also there is a scanning speed penalty for this lowering of memory consumption. The default is false.

`/OptimizedPDFCoalesceLimitPercent`

This option can only be used for eHVD.

This option provides less scanning flexibility and controls the way marks on the page are coalesced into raster elements. If this parameter is negative (the default), there is no restriction: every eligible mark is coalesced. If it's zero, no coalescing at all takes place. If it's positive, coalescing is allowed. The default is -1

`/OptimizedPDFCoverageLimitPercent`

This option can only be used for eHVD.

This option only takes effect when `OptimizedPDFExternal` is true. When greater than zero, the RIP calculates the total area of the bounding boxes of the raster elements it has scanned on every page. When this area expressed as a percentage of the overall page area exceeds the value of this parameter, all marks for the page in question are coalesced into a single raster element. For example, if the scanner calculates that there are three elements on a given page and each is the same size as the page itself, the calculated total area is 300% of the page area and so any value below 300 for this parameter would result in the page being limited to a single raster element (and thus the coverage would be reduced to 100%). The default is 0 (no limit).

2.1.9 Migrate notes

A RIP password in a new RIP (v10.0r2 or later), that is a password in the **ConfigureRip** file in the **/Extras** dictionaries, will not be overwritten during a migration from an older RIP. This is because RIP passwords will be migrated from an earlier RIP, only when the equivalent password in the target (new) RIP is set to 0. This also applies to RIP passwords that were not present in the older RIP. So, if any RIP passwords are enabled in the new RIP before the migration, they will not be overwritten during the migration.

For non-RIP passwords, you should enable the option in the new RIP after the migration. That is, passwords in the **/ProtectedDevices**, **/PluginExtras** and **/ProtectedScreen** arrays in the **ConfigureRIP** file will not be migrated.

See also [“New flexo screen sets” on page 9](#).

2.1.10 New flexo screen sets

The naming conventions on both the flexo and the older offset HXM screen sets have been changed for clarification in the RIP dialogs and system monitor. When migrating to v10.0r2 from an older RIP in which an older HXM installer has been used, to a new RIP in which the new offset HXM installer has been used, the migrate tool will handle the name changes.

Note: The reason that the screens added at v10.0r2 are called “flexo” is because the HXM CMYK screens provided are at the angles recommended by the Flexo Technical Association (FTA).

From v10.0r2 the HXM screen sets are supplied in two separate installers: **Install_HXMflexo.exe** and **Install_HXMoffset.exe**.

For the installation of the new screens to be successful you must use the flexo screen installer supplied with v10.0r2.

If you want to use the original HXM at offset angles, you must use the new offset HXM installer with 10.0r2.

Note: If you try to use the v10.0r2 flexo installer with an older (pre v10.0rx) RIP, a warning that they are not compatible is displayed and you can't proceed.

Note: When migrating from an old 32-bit RIP to a new 64-bit RIP, the screens are not migrated, so the new HXM screens must be installed in the new RIP anyway.

2.1.11 iPEG4 deprecated—368107

iPEG4.c is deprecated pending improved or replacement.

2.1.12 LDK tool “Display keys” option for SuperPro dongles

From v10.0r2 the LDK tool `Display keys` option will show details for the connected SuperPro dongle (as long as the SuperPro drivers are installed). This is to assist as GGSL switch to using SafeNet HL dongles. For further information see [“LDK tool “Display Keys” option” on page 10](#).

2.2 Information about v10.0r1

This section contains changes made between v10.0r0 and v10.0r1.

2.2.1 Migrate and HXM/HDS screening

Because of the recent changes made to HXM and HDS screening, the Migrate utility must be used when upgrading from v10.0 to v10.0r1. For more information see [“Spot color screen angle selection for HXM and HDS—368116” on page 11](#).

Please note the following points before attempting to migrate:

- You must use the Migrate utility provided with v10.0r1. That is, the Migrate utility from v10.0 will not work correctly.
- The HXM/HDS screens must be installed into the v10.0r1 RIP before an attempt is made to migrate.
- The imported (migrated) page setups will continue to use default screen angles for any spot colors explicitly listed; they may now be edited to assign screen angles to those spot colors if required.

2.2.2 Procsets changed

The only procset changed between HMR v10.0r0 and HMR v10.0r1 is:
HqnPageSetupConf.

2.2.3 Naming and version numbering

The installer announces itself as “Harlequin MultiRIP”. In the logfile, the RIP announces itself as “RIP Version 40.0 Revision 2 XX-bit Edition”.

Note: XX is either 32 or 64, and v40.0 Revision 2 represents v4.0r2 of the core RIP library.

2.2.4 Operating System information

You should note the following:

- The WoW64 subsystem of the Windows operating system is a RIP requirement and must be present. In particular, you should check that it is present on Windows Server 2012.
- Windows XP must have SP3 installed.
- Windows 7 and Windows Server 2008 R2 must have SP1 installed.

2.2.5 Reporting the actual value of MaxThreads

The values returned for `/MaxThreads` in `currentsystemparams` show the settings that were actually made after taking the limits set by `swStart` and the current password/license for multithreading limits into account. Note that this doesn't tell you how many threads are actually running at any one time.

2.2.6 LDK tool “Display Keys” option

A `Display Keys` option is added to the LDK tool which allows you to display further information about the various LDK licenses you have. By selecting a key in the displayed list, information about that key is displayed in the lower area of the dialog.

For example you can view; the Customer number, Security number, Resolution limit, RIP version, and maximum number of threads allowed.

In addition, you can save information about all your keys to a text file by selecting `Save`.

For more information see below and the Sentinel LDK Security document.

2.2.7 Sentinel LDK notes

When you install a new RIP using the LDK and you activate your product key, the RIP will run.

If you uninstall the RIP and remove the LDK runtime and then re-install the RIP and LDK runtime using the “skip this step...” option when prompted to enter the key, the RIP should run because the SL key should still be present.

If, however, the RIP does not run, claiming that no licenses are available, you should re-start the Sentinel Local License Manager service. To do this, right-click **Computer** and select **Manage**. Select **Services and Applications** in the left windows followed by double-clicking **Services** in the right window. This displays all the available services. Scroll down and select **Sentinel Local License Manager** followed by **Restart**.

Generally, if you have a problem with the RIP not starting and you have already activated your product key, restart the Sentinel Local License Manager service.

2.2.8 pdfexecid

From HMR v10.0r1 `pdfexecid` can safely be used with HVD. For more information see below.

2.2.9 Using HVD with page ranges

A large job can be split into “chunks” of data with the use of `/PageRange`. Here, for example, the job is split into chunks of 10 pages:

```
/PDFContext
(%E//TestJobs/largejob.pdf) (r) file << >> pdfopen def
PDFContext << /PageRange [ [1 10] ] >> pdfexecid
PDFContext << /PageRange [ [11 20] ] >> pdfexecid
PDFContext << /PageRange [ [21 30] ] >> pdfexecid
PDFContext << /PageRange [ [31 40] ] >> pdfexecid
PDFContext << /PageRange [ [41 50] ] >> pdfexecid
PDFContext pdfclose
```

While running this PostScript language fragment in an HVD setup, if, for example, during the first page range (1 to 10) some variable data is retained for re-use but the scan is aborted during a subsequent range, the scan for variable data is aborted for the rest of the job. Thus, if you are using small chunks of data and are seeing jobs aborting the HVD scan when you think there should be re-use of data, you should increase the `/OptimizedPDFScanLimitPercent` value, possibly up to the maximum of 100%, in which case, the HVD scan will continue for the whole job.

Note: If you are writing a PostScript language control stream that needs to execute chunks from different PDF files you should call `pdfclose` on the first PDF file before calling `pdfexecid` on a chunk from the second to ensure that HVD scanning is triggered for the second file.”.

2.2.10 Spot color screen angle selection for HXM and HDS—368116

From HMR v10.0r1, if you are editing a halftone (screened) style and using Harlequin Cross-Modulated (HXM) screening or Harlequin Dispersed Screening (HDS) along with additional spot colors, the selection of an equivalent angle for each named spot color is provided. For example, you can specify that “Pantone Reflex Blue” should use the “Cyan” angle, and “My Red” should use the “Magenta” angle. You cannot enter a specific angle for each spot color but you can select one of Cyan/Magenta/Yellow/Black from a drop-down menu. If (Other colors in job) is set to Yes or Not Blank, spot colors that are not specified by you in the dialog are printed using the Default screen.

This change only applies to Threshold and HDS screens. That is, it does not apply to Core Module screens. If a modular screen is selected for a spot color, the RIP ignores the selection.

2.2.11 Using HDS and HXM screens with non-square resolutions—369220

When using HDS or HXM screens with non-square resolutions the `Rotate screens according to page rotation` option must not be selected as part of the page setup. If this is attempted with a v9.0rx RIP, the RIP generates an `ioerror/Offending Command: setscreen`. With HMR 10.0.x the error generated is:

```
%%[ Error: configurationerror; OffendingCommand: pagedevice; Info: Can't rotate
threshold screen anisotropically ]%%.
```

To work around this; open the Separations Manager for your page setup with the HDS/HXM screen selected. The selected HDS/HXM screen is displayed. Change the selection to another non-HDS/HXM dot shape, for example, “Round”. In the lower part of the dialog `Rotate screens according to page rotation` is displayed. De-select that option then re-select the required HDS/HXM screen and save the separation style. The RIP is now able to output the selected HDS/HXM screen with a non-square resolution.

2.2.12 HEDS with older plugins

You should note that an older plugin that uses variable-sized dots by installing HEDS into the RIP will not work with HMR 10.0rx. However, an older plugin that creates the variable-sized dots internally within the plugin itself should continue to work if the RIP just treats it as contone.

2.2.13 CIP3 plugin

A new version (v1.5r0) of the CIP3 plugin was made available for use with HMR v10.0.0 because previous versions are not compatible with this RIP version. Because of this incompatibility migrating CIP3 settings from earlier versions to HMR v10.0rx can cause problems. To successfully migrate CIP3 to HMR v10.0rx from an earlier RIP, such as v9.0rx, use one of the following procedures.

- Before using Migrate, ensure you create a CIP3 page setup in the target RIP using the newer v1.5r0 CIP3 plugin. This ensures that, even after migration, the color setup styles for CIP3 called `CMYK Composite (Pixel)` and `CMYK Composite (Frame)` will be correct and will work.

However, after migration you will also see two color setup styles called `CMYK Composite (Pixel)_M00` and `CMYK Composite (Frame)_M00`. These have been migrated from the earlier RIP, and will be used by any page setups that were also migrated, but will not work in HMR 10.0rx.

Change the relevant “From” page setups to use the color setup styles without the `_M00` suffix, so that they work again. Once this is done for all the old page setups you can delete the broken `_M00` color setup styles using the Separations Manager.

- Before using Migrate, apply the following procedure to the “From” RIP. That is, the HSR v9.0rx RIP when migrating from v9.0rx to v10.0rx, or the v10.0r0 RIP when migrating from v10.0r0 to v10.0r1:

Carefully edit the file: `SW\Config\Devices\DevCSS\CIP3.X00` replacing each occurrence of `/Screened true` with `/Screened false`.

Proceed with the migration, and afterwards the CIP3 plugin should have normal, working color setup styles in both the “From” and “To” RIPs.

The same procedures can be used when migrating from v10.0r0 to v10.0r1 if your v10.0r0 RIP contains an older CIP3 plugin (earlier than v1.5r0) for whatever reason, or if it contains CIP3 setups that were migrated from an earlier RIP without following one of the above procedures.

2.2.14 Plugin Kit example—mpeg3

The “mpeg3” example can accept halftone rasters, but in a 64-bit build it treated them as though they were 32-bit packed. For HMR v10.0r1 this has been corrected. For more information see the Plugin Kit Manual section 5.6.6 “Halftone Raster Packing -1-bpp” (issue 411 or later).

2.2.15 Plugin Kit example—mpeg5

A plugin example “mpeg5” is available as part of the plugin kit v20.0 or later. This example shows how to use a thread to process data. Each time the “output thread” gets passed a new raster it “sleeps” for a while (to represent the time spent “processing” the data), and then the raster data itself is discarded. The plugin also shows how to report progress from the output thread using timelines. The APIs for handling threads and timelines are obtained using a PFI function to access the RDR API interface for API discovery. For more information see sections 17 and 18 of the Plugin Kit documentation.

3 Change details

Below is a list of the changes made between HMR v10.0r1 to HMR v10.0r2. The table is uncategorized, in numerical order:

Reference	Description
300923	The default value for the Disk space left for system value in the Configure RIP Options dialog is changed from 50 MiB to 5120 MiB Changes made to the RIP binaries.
347543	Create new HXM Flexo Screen sets and installers. For more information see “New flexo screen sets” on page 9 (SW Call #121769). No changes made, new screen sets.
367368	Make a change so that an LDK license can be used to specify that a RIP is a watermark RIP. For more information see “Watermark RIPs” on page 6 . Changes made to the RIP binaries and security.
367653	Make a change so that the RIP can identify an installed plugin with a product ID in the EMS (Entitlement Management System). This allows an OEM to use LDK security for plugins. Changes made to the RIP binaries.
367995	Add user interface control for Image To Image Trapping. See the TrapPro manual for more information. (SW Call #122826, SW Call #123117). Changes made to the RIP binaries.
368271	Make a change to prevent a blank page from causing premature Flat output in Imposition (SW Call #122893). Changes made to the Hqnimpose2 procset and the RIP binaries.
368449	Widen the “Dot Shape” selector in Edit Calibration dialog (SW Call #122973). Changes made to the RIP user interface.
368500	Fix some knockout problems which caused a customer reported issue with contone masks in previously supplied RIPs (SW Call #122977). Changes made to the RIP binaries.
368882	Honour Negative page setup setting when printing calibration strip (SW Call #123097). Changes made to the HqnTarget procset.
369043	Review handling of CalPoly PDF/VT test suite and fix some corruption in the output. Changes made to the RIP binaries.
369161	Add the device name to prevent an “Unknown output device” error message from appearing if the underlying plugin fails to declare itself to the RIP (SW Call #123209). Changes made to the RIP user interface.
369219	Updated the RIP installer Global Graphics logo. Changes made to the build system.
369220	Make a change so that the “Rotate screens” option is not disabled for Threshold screens (SW Call #123226). For more information see “Using HDS and HXM screens with non-square resolutions—369220” on page 11 . Changes made to the RIP binaries.

Table I Changes made for Harlequin MultiRIP v10.0r2

Reference	Description
369285	Make a change so that the “List Spot Colors” page feature works correctly in version 10.x or later. Changes made to the ListSpotColors page feature.
369427	Add new layered option for HXM screen sets. For more information see “New flexo screen sets” on page 9. Changes made to RIP security.
369491	Implement a fix to prevent a RIP crash when compositing a customer supplied PDF 1.7 file (SW Call #123302). Changes made to the RIP binaries.
369602	Make a change to check the packingUnit value and read the watermark pattern in the appropriate sized chunks to fix an issue with 64-bit builds of the Watermark RIP. Changes made to the RIP binaries.
369674	Implement a change for better handling of True Type hinting problems to prevent a customer reported RIP crash with spool input and Harlequin Parallel pages set to 2. (SW Call #123352). Changes made to the RIP binaries.
369703	Make a change so that the RIP “logs-in” to any LDK font option. This ensures that the Admin Control Centre displays an active session, and does not report “Not started” when time limited. Changes made to the RIP security.
369935	Include the HLS to LDK upgrade utility (getdongleinfo.exe) in the RIP. For more information see “The getdongleinfo.exe utility” on page 6. Changes made to the RIP build system.
370015	Implement a change so that the RIP does not fail when attempting to display a standard PostScript language error message when printing a customer supplied sample map PDF (SW Call #123323). Changes made to the RIP binaries.
370239	Switch localization locked variant (LLV) RIP security from dongle-only to LDK-only. Changes made to the RIP security.

Table 1 Changes made for Harlequin MultiRIP v10.0r2

Below is a list of the changes made between HMR v10.0r0 to HMR v10.0r1. The table is uncategorized, in numerical order:

Reference	Description
300101	Provide a method to report the actual value of max active threads to allow confirmation that passwords and configurations have been correctly applied. For more information see the “Reporting the actual value of MaxThreads” on page 10. Changes made in the RIP binaries

Table 2 Changes made for Harlequin MultiRIP v10.0r1

Reference	Description
301067	Implement an alternative approach to HVD scan hashing (GUID generation) to prevent collisions and increase speed. Changes made in the RIP binaries.
303632	Implement a change so that a customer-supplied file does not cause a RIP failure when using modular screens and TrapPro (SW Call #121339, SW Call #121502). Changes made in the RIP binaries.
347978	Add a new section to the API Reference manual (4.13.1) with an example showing how to use timelines with an interrupt event to perform cancel job functionality (SW Call #119918, SW Call #122631, SW Call #123131). Changes made to the API Reference manual.
358894	Added two new sets of screens for Flexo printing, normalized to the 0-90 quadrant. The (7.5, 37.5, 82.5, 67.5) set in HPS should be used with this set of angles in the CSS: (97.5, 37.5, 82.5, 67.5) and the (22.5, 52.5, 7.5, 82.5) set should be used with this set of angles in the CSS: (112.5, 52.5, 97.5, 82.5). Changes made in the build system.
367774	Implement a fix to the PDF string decryption of empty strings so that a customer-supplied encrypted PDF 1.4 file doesn't error with Error: rangecheck; Offending-Command: getinterval (SW Call #122775). Changes made in the RIP binaries.
367964	Make a change so that HVD works with parallel pages and a pdfexecid chunked workflow. Changes made in the RIP binaries.
368116	Allow HXM/HDS spot color angles to be selected. For more information see “Spot color screen angle selection for HXM and HDS—368116” on page 11 .
368198	Implement a change so that interrupting ICC profile installation does not cause the RIP to crash (SW Call #122868). Changes made in the RIP binaries.
368228	Refine Omit separation behavior when setting contone mask to 1 (SW Call #122793). Changes made in the RIP binaries.
368351	Implement a fix for a customer-supplied TIFF file which output corrupted (SW Call #122941). Changes made in the RIP binaries.
368353	The SOAR ROAM Server works with screened output from a 64-bit RIP. A change was made to link the ROAM server with a new RIP compound. Changes made in the RIP binaries.
368400	Implement a fix to prevent artifacts caused by incorrect stroke widths on faux bold text (SW Call #122963). Changes made in the RIP binaries.
368500	Implement a change so that a customer-reported issue with contone masks is fixed (SW Call #122977). Changes made in the RIP binaries.

Table 2 Changes made for Harlequin MultiRIP v10.0r1

Reference	Description
368639	Make the LDK activation tool localizable and translate to Japanese. Changes made in the RIP binaries.
368715	Add Japanese resources for pdfrafter in HMR v10.0r1. Changes made in the RIP binaries.
368728	Implement a change so that the base map size is increased when necessary. This fixes an issue with a customer-supplied PDF file which output very slowly or caused a configuration error using previous RIP versions (SW Call #123023). Changes made in the RIP binaries.
368748	Add a handler with highest priority SW_EVENT_OVERRIDE to correct the timeline progress when using single-if output with anti-aliasing (SW Call #123044). Changes made in the RIP binaries.
368795	Implement a change to allow a localization to specify the LDK feature which protects it. The LDK feature ID for a localization can be specified using the KeyFeature tag in the messages file header. Feature IDs are allocated by GGSL. Changes made in the RIP binaries.
368875	Change the maximum queue length so that it is effectively unlimited and raise the level at which the messages are written to the log. This will prevent multiple Disabling/Re-enabling queue messages from appearing in the RIP monitor when the RIP is used with SOAR (SW Call #123074). Changes made in the RIP binaries.
368936	Allow multiple LDK licences to be used on a single computer. Changes made to the RIP security.
368937	Add the ability to see license details using the LDK tool. For more information see “LDK tool “Display Keys” option” on page 10 . Changes made in the RIP binaries and security.
368982	Update Global Graphics logo on HMR “About” dialog. Changes made in the build system.
369107	Make a change so that the Plugin API uses the actual RIP platform code instead of the licence platform so that 32-bit plugins work when a 32-bit RIP is run using a 64-bit licence for HMR 10 with a 32-bit upgrade. Changes made in the RIP binaries.
369121	Make a change so that HMR 10.0r1 RIPs use the LDK tool v1.1. Change made in the installer and build system.
369149	Implement a fix for an issue where the No color management and Override black generation in job options, when enabled, resulted in incorrect output. (SW Call #123196). Changes made to the HqnPageSetupConf procset.
369152	Implement a change to provide an example of how to deal with halftone rasters on a 64-bit OS to prevent corrupt output from the Plugin Kit OPEG3 example with 64-bit RIP. Changes made to the plugin.

Table 2 Changes made for Harlequin MultiRIP v10.0r1

Reference	Description
369165	Implement a change to improve RIP performance when using Single output modes. (SW Call #123206). Changes made to the RIP binaries.
369201	Implement a change to improve the output speed when using the None device (SW Call #123206). Even though the output speed of the None device is improved it is recommended that this device is not used for performance comparison between v9.0rx and v10.0rx RIPs. Changes made to the RIP binaries.
369220	Using HDS/HXM screens with a non-square resolution (SW Call #123226). See “Using HDS and HXM screens with non-square resolutions—369220” on page 11. Changes made to the documentation.
369249	Make a change to substitute an empty string for a NULL to prevent a RIP failure when the /JobName user parameter is set to an empty string (SW Call #123231). Changes made in the RIP binaries.

Table 2 Changes made for Harlequin MultiRIP v10.0r1

4 Documentation change details

This section contains details of the various documents which have been created or updated for HMR v10.0r2:

Document	Status	Format
API Reference manual	Updated	PDF
Extensions manual	Updated	PDF
Hqn 046—Using Error Diffusion Screening	Retired	
Hqn 077—HXM Screening	Updated	PDF/MIF
Hqn 087—Harlequin VariData	New	PDF
Hqn 091—LDK tools and utilities	New	PDF
Install Guide for Windows	Updated	PDF/MIF
LDK FAQ document	Updated	PDF
List of technical notes	Updated	PDF/MIF
Migrate v7.0r1	Updated	PDF/MIF
OEM manual	Updated	PDF/MIF
Sentinel LDK Security	Retired	PDF
SetGold and SetGoldPro v5.1	Updated	PDF/MIF
TrapPro v10.0r2	Updated	PDF/MIF

Table 3 Documentation changes

Documentation is available on the support FTP site at: <http://support.globalgraphics.com/login.html>.
Go to: /HQN_Common/HMR_Doc/.



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Harlequin® MultiRIP™—v10.0r2

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