

DuraLink R3.1.3 Release Notes

- Render Action updated to v8.5.2.4, corrects a bug where the Reverse Page Range control was defaulting to 'on' even though the control was displayed as 'off'. The issue occurs with a new workflow where the Reverse Page Range control has never been 'touched' by the user. The result was that pages were unexpectedly output in reversed order. In RenderAction 8.5.2.4, this setting will default to 'off'.

DuraLink R3.1.2

- DuraLink Spooler: Correction for a problem causing some jobs to stall during output on a monochrome DuraLink press.
- For monochrome presses, R3.1.1 would RIP to CMYK and output to K. R3.1.2 will RIP to Gray and output to K.
- Navigator Client: now has reverse page range and collate controls.
- RIP: The ODC library has been updated.
- Correction for issue with reverse page range.
- Added compatibility with duplex presses having different printbar offsets and widths on the two stages.
- Render Action: Correct order of strips when page order is reversed.
- Page Filter Action: Corrected an issue when printing a narrow job with a narrow printable width.
- Navigator Server: added ForceNCopyCollate setting to partly work around an issue with output to press stalling when sending jobs with more than 200 pages, however this workaround only applies to single-page jobs.

In XiFlowServer.ini add

```
[ TRA ]  
ForceNCopyCollate=1
```

The default setting is 0, retaining the behavior in DuraLink R3.1.1, where a single-page job will be sent to JSL with a copy count set.

If this flag is set to 1, single-page jobs being printed with a copy count greater than 1 will be sent as multiple pages.

Software component revisions

Component	Version
Navigator HHR	* 13.1r0 13.1.0.21
Navigator Server	* 8.5.2.1
Navigator Client	* 8.5.2.1
XiWebServer	8.5.1.26
PageFilter Action	* 8.5.2.3
Render Action	* 8.5.2.2
XiPosition Action	8.5.1.26
DuraLink Spooler	* 2.1.2.3

Component	Version
JobSubmissionLib.dll	* 10.0.2
XiService.exe	1.2.2.1
XiEvents.exe	1.2.2.1
slp.dll	No version
slpd.exe	No version
GetDuraLinkHHRVersions.py	2.0
MakeCalibrationChart.py	2.13
RefreshCCTs.py	2.5
XiLib.py	1.6
Postflight	51.0
LogJam	10
DFEBackRest	8
XiSettings	1.0.1.1
Navigator Configurations Editor	2.34
Sentinel Driver Installer	7.5.7, 9.50.98.0
LDK Tool	2.0.0.0
LDK Util	2.0.0.0

This release includes HDS Fine and HDS Medium Large/Medium/Small calibrated dithers, and AIS Mirror, Opal,

Pearl.

 indicates that this item has been updated in this release.

- Python 3.x must be installed with the following options checked: “Add Python to environment variables”, “py launcher”, “Associate files with Python (requires the py launcher)”

This release uses the following Memjet software revisions

Component	Version
DLSS	21A
JobSubmissionLib.dll	10.0.2 build 5
OdcLib	7.5.1.3
RIP API	2-1

DuraLink R3.1.1

- Page Filter Action, correction to output page range values.
- Page Filter Action, correction to to slit and merge mode which was creating a PDF with no pages.
- DuraLink Spooler, corrections to Collation operation.
- Render Action, correction to timeout operation: honor timeout set in the configurion dialog and send timeout value to the RIP.
- LogJam version 10 has the capability to gather log files from remote RIP PCs.
- Navigator Server:
 - Correction for compatibility issue with PES API in DLSS-20A.
 - Correction for inability to launch NCE.
 - Correction for SLP compatibility issue with DLSS-19D.
 - Launch XFDebug by default to ensure XFDebug.log is produced.
 - Fix for resettting the pagesPrinted flag when re-processing a job.
- Correction for FILE_FORMAT error seen when large number of copies (ex: 200) job is sent to be RIPped.
- Correction for Job progress bar & page count in Oatley showing incorrect page info when printing collated jobs.
- Correction for RIP failure to reprocess collated jobs.
- XiEvents: clear old events to reduce the size of the working set over long periods.
- HHR
 - libtiffstart no longer posts COMPLETED event if called from the control RIP.
 - Ensure SyncCount value is set.

DuraLink R3.1

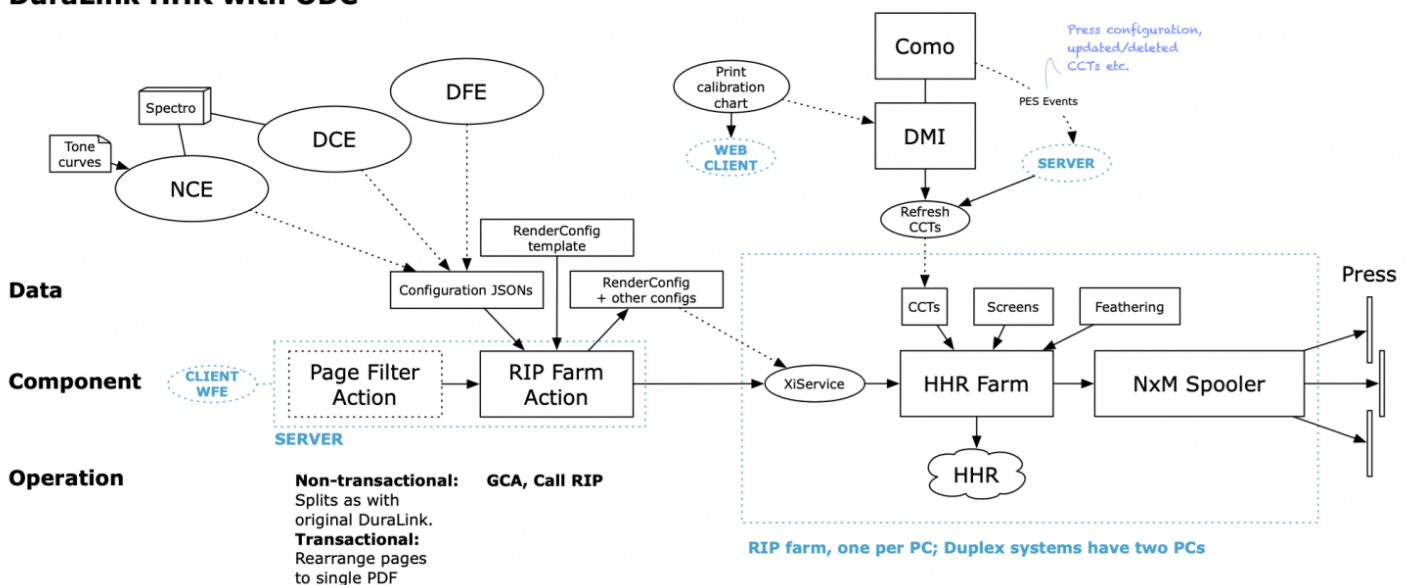
R3.1 adds support for multiple RIP PCs, adding RIP-only installer and Head Assignment Tool.

DuraLink R3

DuraLink R3 is the first 'hardware reduction' release from Xitron, simplifying configuration and reducing the number of PCs. R3.1 allows multiple RIP PCs

Overview

DuraLink HHR with ODC



Major differences from DuraLink R2

- The RIP has changed from Hybrid Software Group's Harlequin MultiRIP (HMR) to Harlequin Host Renderer (HHR), using its Scalable RIP option. Up to eight RIP cores may be run in parallel, in a 'RIP farm'.
- One RIP instance acts as a 'master', and spawns RIP subprocesses. All these including the master are identical 'clrip.exe' instances, which terminate when each job is complete.
- If the RIP farm is disabled, a single RIP will be used.
- There is no need to duplicate RIP instances, so the Multi-RIP Configuration tool is not used.
- The Page Filter Action no longer slices into one file per press strip. All slices are stored in a single PDF sequenced across the printbar, in stage order.
- A single workflow is used, with no need for separate 'File Prep' and 'Press Output' workflows.
- The workflow uses a single 'Render Action' for output to the press, rather than a number of RIP Output Actions.
- The default configuration may be adjusted using the Navigator Configurations Editor (launched using the 'NCE' shortcut in `User Resources\Xitron Shortcuts`). This edits JSON configuration files stored under `Navigator\Config\RenderConfig`.
- Some settings may be overridden using the Navigator Client, Workflow Editor.

- ODC processing now processes feathering (cross-fading between adjacent print heads); 'feathered' CCTs are no longer required.
- XiRemote is no longer required.
- There is no longer a requirement for the workflow to have a separate RIP Action step for each RIP PC.
- The Web Server Client default port is 81 rather than 80. This is reflected in the shortcuts for launching NCE and DCE.
- LogJam version 10 has the capability to gather log files from remote RIP PCs.

Important note regarding duplex presses

If the press is asymmetrical, the two stages will require separate PCs.

The number of printbars per stage is obtained from the Stage 1 ('Front') configuration only. As a result, asymmetrical presses (i.e. those which support different color channels on the two sides of the press) must be mechanically configured as follows. The number of enabled printbars on Stage 2 ('Rear') must not be greater than on Stage 1 ('Front'). This restriction is expected to be removed in a future release.

For example,

Stage 1 ('Front')	Stage 2 ('Rear')	Valid?
C,M,Y,K	K	Yes
K	C,M,Y,K	No
C,M	Y,K	Yes

New Features

- There are separate installers for the Server/Client/RIP PC and RIP-only PCs.
- Two processing modes are supported:
 - Non-transactional, supporting press-wide pages in input documents. The feathering for stitch overlaps is now calculated on the fly, rather than using special CCTs.
 - Transactional, supporting US Letter-sized pages in input documents. Slit and Merge and DualStream (renamed to MultiStream) transactional modes are available.
- Support for 925dpi vertical resolution has been added.
- There is now no need for manual configuration of the RenderConfig to match the press color channels.

Separate RenderConfig definitions for the two stages of a duplex press

RenderConfig definitions created in NCE, with names ending in `_s2` will be applied specifically to Stage 2 of duplex presses. If not present, the RenderConfig selected in the Workflow Editor will be applied. The following caveats apply:

- * The overrides specified in the RenderAction of the Workflow editor will be applied to both
- * There is not yet the capability to apply different calibrations to the two press stages.

Custom 'OEM' tags

These may be added to jobs, to enable the press console to report job page and copy information. This is controlled by the 'Add page/copy info tags' setting in the DuraLink Spooler configuration dialog.

The page and copy count information is added to the ABT stream using OEM_CUSTOM tag 199200. Depending on whether the copy count is greater than 1 and collate is on, this will take one of these forms: 1. Page X of Y / Copy n of N 2. Page X of Y / N copies 3. Page X of Y / 1 copy

Separator pages

Blank pages may be added between jobs. This is controlled by the 'Separator Pages' setting in the DuraLink Spooler configuration dialog.

If you wish the separator pages not to be blank, the top 25% of each page may be set to gray, 0xCC:

- Edit `%appdata%\Xitron\DuraLinkSpooler\DuraLinkSpooler.ini`
- Add

```
[SeparatorPages]
AddBlankPageData=1
```

Please note that when printing ODC calibration charts:

- Separator pages **must** be disabled. This is required to preserve the front/back page placement defined in the ODC PDF file for duplex printers.
- Custom 'OEM' tags **should** be disabled, or if they are enabled, the page and copy count information should be ignored by the user.

StreamOnStart

Optionally, DuraLink Spooler will start streaming output to the press as soon as data is available, rather than waiting for the output buffers to be full. This setting is off (0) by default. To enable this option: - Edit

`%appdata%\Xitron\DuraLinkSpooler\DuraLinkSpooler.ini` - Add

```
[Output]
StreamOnStart=1
```

Throttle DuraLink Spooler output to balance printhead output queues

Introduced in DuraLink version: R3.1.

Edit `%appdata%\Xitron\DuraLinkSpooler\DuraLinkSpooler.ini` .

Add

```
[Output]
ThrottlePageMargin=5
```

This setting specifies a limit to the number of pages this printhead module may buffer.

For instance a setting of 5 means no channel can get more than five pages ahead of any other. It may be worth increasing this to 10 or 20 to see if the overall transfer speed picks up.

Default value: 5

Set DuraLink Spooler output thread priority

Introduced in DuraLink version: R3.1.

Edit `%appdata%\Xitron\DuraLinkSpooler\DuraLinkSpooler.ini`.

Add

```
[Output]
ThreadPriority=0
```

Possible values: -2, -1, 0, 1, 2, where -2 is the lowest priority and 2 is the highest.

Default value: 0

RenderConfig templates are no longer cached

In DuraLink 3.0, cached versions of the RenderConfig templates would be created in the `Navigator\Config\RenderConfig` folder, bearing the name of the corresponding RenderConfig setting in NCE. DuraLink R3.1 instead creates the RenderConfigs in the RIP folder for each job, and does not cache them. Any existing named RenderConfig will be ignored. When RenderConfig files are created in the RIP folder, they will be adapted to suit the press color channels. It is no longer necessary to edit RenderConfig template files to match the available color channels on the press.

If you require the cached version still to be created and used (as in DuraLink R3.0), the following setting in XiflowServer.ini will enable it. The default value, zero, causes any cached RenderConfig files to be ignored and no new ones to be created.

```
[ TRA ]
CheckForCachedRC=1
```

Disabling ODC in RIP screening

This may be necessary in order to work around an issue processing jobs on a press in Stitching mode, where the press is configured with 0 stitch overlap.

Xitron considers the case of 0 stitch overlap to be unsupported by Memjet. With this setting in place, jobs will be processed with no ODC being applied.

In `%PROGRAMDATA%\Xitron`, create a file `ScreeningDebug.txt` with exact content `Disable_CCT` starting

in the first column.

Folder overview

Item	Location	Description
Main installation folder	C:\NavigatorDuraLink	Selected in the installer.
Shortcuts	C:\NavigatorDuraLink\User Resources\Xitron Shortcuts	Shortcuts for launching RIP Manager, Client, LDK Web Server, NCE
RIP Manager folder	C:\NavigatorDuraLink\Navigator	Contains Navigator Server and Client.
Settings files	C:\Navigator\Navigator\Config\RenderConfig	JSON settings files edited with NCE.
RenderConfig template	C:\NavigatorDuraLink\Navigator\Config\RenderConfig\Templates\DuraLink_template	PostScript template used for processing jobs
RIP folder	C:\NavigatorDuraLink\Renderers\NR_1	Contains the master RIP.
RIP Resources	C:\NavigatorDuraLink\NR_Resources	LDK utilities, security installers
Utilities	C:\NavigatorDuraLink\User Resources\Utilities	
Postflight	...\Postflight	Utility to produce a report on the system configuration and
		most recent job, opens it in web browser.
DFEBackRest	...\DFEBackRest	Utilities to back up and restore configuration files.
LogJam	...\LogJam	Utility to gather log files.
ODC	...\ODC tools	Utilities for making and using ODC calibrations.

XiSettings	...\XiSettings	Utility for editing .ini files.
DuraLink Spooler	%APPDATA%\Xitron\DuraLinkSpooler	Controls output to press.
XiShare	%PROGRAMDATA%\Xitron\XiShare	Contains Dithers , DuraLink Output , ODC folders.