

# Quantel Rio

# Rio Assist

## V 4.4.16

## Release Notes

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## Version History

Document Name: **Quantel Rio Release Notes V4.4.16**

Version	Description	Date	Author
16	Quantel Rio Release Notes	20 <sup>th</sup> December 2018	I Stoner
15	Quantel Rio Release Notes	7 <sup>th</sup> September	S Wells
14	Quantel Rio Release Notes	30 <sup>th</sup> August 2018	S Wells
13	Quantel Rio Release Notes	11 <sup>th</sup> June 2018	A Stanborough
11	Quantel Rio Release Notes	28 <sup>th</sup> November 2017	A Stanborough
10	Quantel Rio Release Notes	16 <sup>th</sup> November	S Wells
9	Quantel Rio Release Notes	23 <sup>rd</sup> October 2017	A Stanborough
8	Quantel Rio Release Notes	27 <sup>th</sup> September 2017	S Wells
7	Quantel Rio Release Notes	28 <sup>th</sup> July 2017	S Wells
6	Quantel Rio Release Notes	6 <sup>th</sup> July 2017	S Wells
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1	Quantel Rio Release Notes	12 <sup>th</sup> April 2017	I Robinson

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This document does not form part of the product's technical or functional specification and does not form part of any contractual agreement.

If you have any questions please contact SAM Support

Any problems with install or operation of this software should be reported to the SAM Support Department where a representative will assist with the issue.

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## Software Release Details

<b>Release Description</b>	V4.4.16 is a bug fix release for Quantel Rio 8K, 4K & 2K , Rio Assist and Quantel Rio Connect only. Some of the following features do not apply to all products
<b>Release Type</b>	General release that includes color management improvements, new Tracker functionality and audio and timeline improvements.
<b>Customer</b>	n/a
<b>This version</b>	V 4.4.16
<b>Release Date</b>	20 <sup>th</sup> December 2018
<b>Other Notes</b>	<b>System Drivers –</b> <b>System Drivers – Please note that the Sentinel Driver v7.5.9 is required to use Windows 10</b> <a href="https://sentinel.gemalto.com/sentinel-drivers/">https://sentinel.gemalto.com/sentinel-drivers/</a> Note the Version required, USB only no need to install parallel: <b>Base, Desk and Dict folders are compatible with V4.3.0 and V3.1 rev 1.</b> This database schema is NOT compatible with V3.0 rev 1 or earlier.

## Release Scope & Supported Products

System Component	
✓	Quantel Rio 2K
✓	Quantel Rio 4K
✓	Quantel Rio 8K
✓	Rio Assist
✓	Rio Gateway
✓	Neo Workstation Server

## Product Overview

The Quantel Rio range offers a choice of software or turnkey high quality editing, colour and finishing systems running on standard PC hardware. The Quantel Rio range provides SD, HD, 2K, 4K, 6K, 8k stereo3D and high-frame rate support.

The comprehensive integrated toolset includes conform, colour, editing, effects, text, paint and multi-format versioning enabling Quantel Rios to complete a wide range of post production tasks. Quantel Rio efficiently handles today's digital capture formats such as RED, XAVC, Sony F65, SStP, ARRI, Canon, Apple ProRes and easily integrates into data-centric post pipelines.

### A Quantel Rio 4K offers a wide range of configuration choices

- Available as software only or as a turnkey solution with various options
- Storage architecture – local workspace, SAN, NAS or a combination
- Support for up to 1 or 2 Tesla Kepler K80 GPUs
- Grading control surface - Neo, Neo Nano or no panel at all
- File and Video workflow

### Key Features

- Runs on commercial off the shelf (COTS) hardware
- Supports HDR and native colour space media (providing wider colour gamuts) with 32-bit floating-point or 16-bit half-float processing
- Uses Nvidia Maximus multi-GPU technology for maximum interactive performance
- Includes Edit, MLTFX, Effects (including Paint), Utilities and Scribe modules
- Real-time interactive operation on images up to 6K 16 bit and beyond
- Full stereo toolset includes geoFix for auto geometry fixing, autobalance for colour matching of eyes, X/Y vergence and floating window controls

## Installation

Windows 7 or Windows 10 64bit is required to run this software. An engineer may be required to do this upgrade.

**You will need to run the installation program, setup.exe, and the software as administrator.**

### Required software

Name	Description
DirectX 11	x64 application requires DirectX 11 to be installed... the Quantel installer will install if the system is found to be running an earlier version of DirectX
Internet Explorer 8	Internet Explorer 8 or later (even if not network connected) needs to be installed or else the software will not run up
<b>QuickTime 7 Essentials</b>	<b>QuickTime 7 Essentials needs to be installed for .MOV file support</b>
Windows Media 11	Windows Media 11 or later needs to be installed
DotNet 3.5	Windows .Net Framework 3.5 or Later
Adobe Acrobat Reader	Adobe Acrobat Reader V6.0 or Later

### Associated or optional software

Name	Description	Version
Neo Workstations Server	Quantel software for Neo/Nano Workstation PC (Win7)	V4.4.0
QTube Transformer	'deliver to' connectivity for sQ server systems	V5.4 rev 8
edlaaf.exe	CMX 3600 list convertor to AAF	V54.0
aaf2edl.exe	AAF list convertor to CMX 3600 format	V2.14
nclaaf.exe	Negative Cut List convertor to AAF	V10.0
stlaaf.exe	Subtitle List Convertor to AAF	V3.0
XMLDir.exe	QXMLNet clip bin query utility	X5.4.0
XMLTool.exe	QXMLNet clip combining utility	X5.4.0
XMLPut.exe	QXMLNet clip import utility	X5.4.0
XMLGet.exe	QXMLNet clip export utility	X5.4.0
XMLArchIn.exe	QXMLNet archive in utility	X5.4.0
XMLArchOut.exe	QXMLNet archive out utility	X5.4.0

## Driver Requirements (minimum)

Name	Description
Sentinel Driver	V7.5.9
nVidia Tesla driver (K series)	354.92-tesla-desktop-win8-win7-64bit-international-whql 354.92-tesla-desktop-win10-64bit-international-whql
nVidia Quadro driver (Quadro and M series)	368.86-quadro-grid-desktop-notebook-win8-win7-64bit-international-whql 368.86-quadro-grid-desktop-notebook-win10-64bit-international-whql
<b>AJA Corvid Ultra driver</b>	ntv4driver-2.5.0.253.msi , Firmware v65
<b>AJA Kona 3G driver</b>	ntv2driver-12.3.7.85.msi, Firmware v124
<b>AJA Kona 4 driver</b>	ntv2driver-12.3.7.85.msi, Firmware v44
<b>AJA Corvid 88 driver (4K Rio)</b>	ntv2driver-12.3.7.85.msi, Firmware v32
<b>AJA Corvid 88 driver (8K Rio)</b>	ntv2driver-12.1.4.146.msi, Firmware v25
<b>eVidIO2 card driver</b>	v17
<b>PCi QLink driver</b>	3.3.0.0
<b>Wacom Intuos 5 driver</b>	WacomTablet_6.3.9w3.exe
<b>Serial Card (VTR) driver</b>	CDM 2.06.00 WHQL Certified.zip
<b>RED Rocket-One driver</b>	RED driver 2.1.23.0, Firmware 1.1.18.0
<b>Red Rocket-X driver</b>	RED driver 2.1.31.0, Firmware 1.4.1.16

**IMPORTANT:** On boot of the Quantel Rio software the user will be prompted to update the AJA output device driver and firmware (if it has not already been done).

Driver and matched Firmware for each software build can be found in...

C:\Data\ {Product}\DLL\_Data\Quantel\AVIO3PCardDriver

Install instructions for Driver and Firmware can be found in the above folder (readme.txt)...

## Minimum PC Specification

Please see the **Pablo Rio SW Installation Guide 2140-57-010** document for the latest hardware recommendations.

Please see the **Pablo PA Installation & User Guide 2140-57-016** document for the latest hardware recommendations.

## License

A V4 license will be required for this release.



## Important Information

### Quicktime Vulnerability Issues

The current SAM editing/finishing products that may be affected are Quantel Rio, Qube, sQ Edit, sQ Cut (with I/O), QTube Edit and Marco.

Also The broadcast products sQ EditX, sQ CutX (with I/O), Live Touch Client, sQ Play and sQ Record.

All of these have an I/O menu that support the import/soft mount of Quicktime files using the Quicktime codecs.

To enable this support the end user needs to have accepted the end user license agreement and installed the Quicktime player.

SAM are currently researching an alternative to having the Quicktime installed and will have an alternative solution for IBC.

In the interim for current systems it is recommended that Quicktime is re-installed with only the Quicktime Essentials selected.

This will minimise the Quicktime player vulnerability, but will not eliminate it.

For new installations where the ability to import Quicktime files is still required then only the Quicktime Essentials should be selected from the installer.

For further information please contact [support@s-a-m.com](mailto:support@s-a-m.com)

### Support for Maxwell “M” CUDA cards

V4.3.0 adds support for Maxwell “M” CUDA cards.

### Neo and Neo Nano workstation software

The installable package includes Neo Workstation software for completeness.

No Update to Neo Workstation software is required when upgrading from V2.1 rev 4 to V4.4.0

## Base Compatibility

**Base, Desk and Dict folders are compatible with V3.1 rev 1.**

V3.1 rev 1 was a major release and requires a database schema change. After installation the first run up will migrate the base, desk and dict folders automatically creating a back-up of the original ones.

**NOTE :** RAW colour space causes some clips to be tagged as 'raw', this becomes 'unknown' if the database is used in V4.0.0 or V3.1 rev 1. For this reason V4.3.0 will copy the V4.0.0 database and then update it to use 'raw' colour space leaving a copy of the V4.0.0 database if the user wishes to down grade.

*Note.*

- 1) *ONLY NEW material will be updated to use 'raw' colour space (if applicable)*
- 2) *Any new / modified material will not be in the copied database.*

**NOTE :** This new database schema is not back compatible with V3.0 rev 1 or V2.1 rev 4

**NOTE :** v4.4.0 colour settings are not back compatible with V 4.3 or earlier versions

## Archive Compatibility

Existing archives from V 2.1 or earlier software versions will come in as "raw video" or "raw log" and use 'source colour processing' as the default. To maintain existing compatibility clips should be viewed on output and rendered at "raw video" or Rec709 and 2.2 gamma.

## Render Compatibility

Due to improvements in the colour cube processing, 2.1 archives and migrated base settings will render with a subtlety different result.

## Associated documentation

Quantel Rio V4.4.0 – New Features.pdf

## Changes this Release

### Issues Resolved in V4.4.16

- GENQ-24118 - Use F1 setting DMin to set black level for areas revealed by DVE for log formats
- GENQ-21404 - DNxHR mxf imported has corruption
- GENQ-23075 - Picture not changing when Input Cascade changed.
- GENQ-23870 - GenerationQ software unable to read Dongle locking code  
Update to Safenet Sentinel Version 9.4.
- GENQ-22777 - added new option to allow user to set which axis to apply tracking to.
- GENQ-22774 - Fix Paint cutouts functionality when changing cutout via numeric id being the wrong way round when 'only' is off/on
- GENQ-22436 - Ensure we search for the right preset name

## Previous releases

### Issues Resolved in V4.4.15

- GENQ-23120 - Re-speed, crash happens by render HD clip with Alchemist

### New Features and Enhancements in V4.4.14

Rebranding for Grass Valley, a Belden Brand

### Issues Resolved in V4.4.14

- GENQ-22751 conform of AVID media not getting all audio tracks

### New Features and Enhancements in V4.4.13

Rebranding for Grass Valley, a Belden Brand

### Issues Resolved in V4.4.13

- [GENQ-23827](#) MXF files with alpha failing to import which required a better fix
- [GENQ-22413](#) failure to localise some softmounted clips
- [GENQ-22796](#) interlaced clip flagged as progressive when exporting as prores
- [GENQ-23463](#) Edit, crash happens by drag V1 box with audio output boxes open
- [GENQ-23360](#) Image shifts 1 line to the left when import 1998x1080 DPX

### New Features and Enhancements in V4.4.10

### Issues Resolved in V4.4.10

- GENQ-22327 Fix DPX import 2880x1620 RGB
- GENQ-21346 Rio software does not automatically eject tape during a multi-tape conform

### New Features and Enhancements in V4.4.9

### Issues Resolved in V4.4.9

- GENQ-23069 DPX import crash
- GENQ-22824 Cine-expand memory issue
- GENQ-22929 Utility Average get dark as step value gain
- GENQ-22794 LUT buffer read error
- GENQ-23270 DPX import has corruption in random frames

## New Features and Enhancements in V4.4.8

### Issues Resolved in V4.4.8

- GENQ-23069:I/O Import, crash happens by load 1998x1080 size dpx
- GENQ-23202:Crash exporting video-only clips as ProRes - problem can cause the mov export to try and make audio on a video-only clip
- GENQ-23153:Scrolling message in log ' setPlaneFormat '
- GENQ-22769:GenQ Fails to Boot on Windows10. Some upgraded Windows 7 machines are missing OpenCL and OpenGL32 dlls.

## New Features and Enhancements in V4.4.7

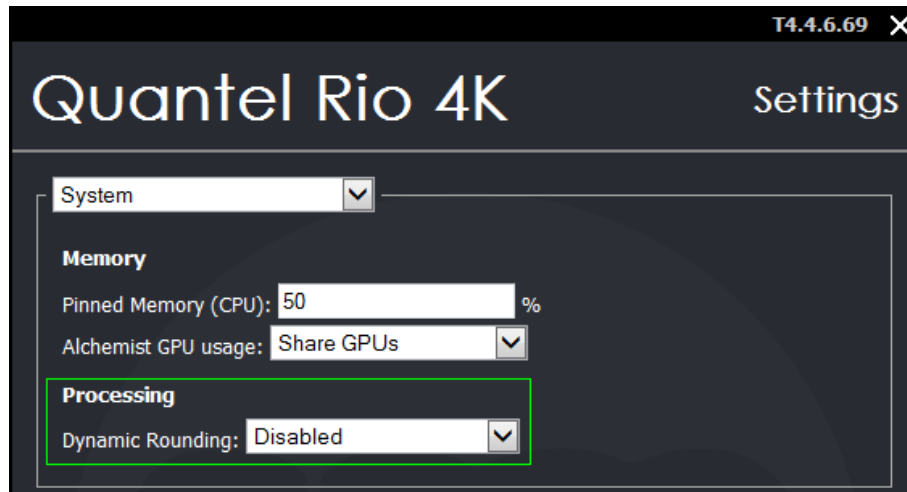
### Issues Resolved in V4.4.7

- GENQ-22734: plugins service start issue after software restart
- GENQ-22802: Arri original material Exported with incorrect TC.
- GENQ-23083: TCC detection removed.
- GENQ-22739: DPX RGB export drop in quality
- GENQ-22826: DCP out with colour space selection on output as per export (such DCI XYZ colour space.)
- GENQ-22891: Audio only re-speed maths wrong changing process
- GENQ-22838: Audio only stretch doesn't render
- GENQ-22898: Re-speed, audio re-speed process more than 200% never stops
- GENQ-22899: Re-speed, extra boxes of audio re-speed settings are not appeared

## New Features and Enhancements in V4.4.6

### Issues Resolved in V4.4.6

- GENQ-22826 DCP out XYZ option on export
- GENQ-22739 DPX RGB export Quality with Dynamic rounding. Option to turn off Dynamic rounding in settings page for 8 / 10 bit processing.



## New Features and Enhancements in V4.4.5

### Issues Resolved in V4.4.5

- GENQ-212773 RIO 8K Random Line noise  
Add new registry setting "SuppressOutOfDateWarnings" by DWORD in AVIO3PCardDriver\2.5.0.x\Custom Settings.  
Set to "1".

## New Features and Enhancements in V4.4.4

### Issues Resolved in V4.4.4

- GENQ-21243 Add Clarity to Audio Timeline
- GENQ-21572 Intermittent Crash rendering on Windows 10
- GENQ-21517 Rendering crash on Windows 10
- GENQ-22788 CUDA working with GTX Pascal cards

## New Features and Enhancements in V4.4.3

### Issues Resolved in V4.4.3

- GENQ-22061 Colour palette function in scribe
- GENQ-21945 Imported WMV has wrong colours
- GENQ-22561 Rio 8K Rendering freeze ( RIO 8k will now support up to 14 8K render layers)
- GENQ-22732 Crash swapping close captions to empty Edit time line.

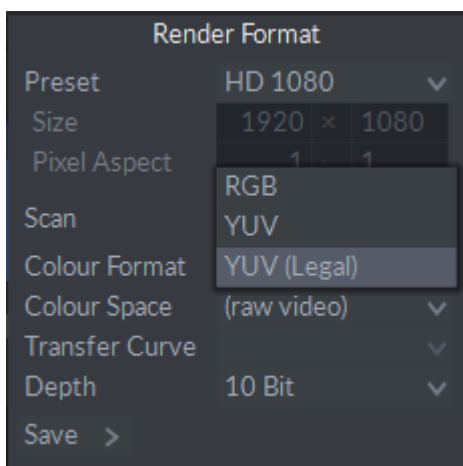
## New Features and Enhancements in V4.4.2

### Issues Resolved in V4.4.2

- GENQ-22619 YUV legal , preview update when in source mod
- GENQ-22682 Editing a floating clip to timeline resets scrollbar offsets
- GENQ-22608 RIO 8K, Avoid double quad split, wait for msg to finish
- GENQ-22703 RIO 8k , Incorrect Audio heard at Beginning of play

## New Features and Enhancements in V4.4.1

- YUV legal on the render format



### Issues Resolved in V4.4.1

- GENQ-22537 Cloud Tracker GPU crash with RGB 8bit clip "(raw video)" + Source Colour processing
- GENQ-22646 MLT Tracker: delete homograph key frames deletes all key frames when only in or out is marked.
- GENQ-22619 new - MLT, add YUV (Legal) to the Render Format
- GENQ-21647 Support for third-party LUT formats
- GENQ-22577 V4.4 Conform picks only audio source Ch1 against all 8 audio channels - PremierePro
- GENQ-19911 Rio 8k, I/O Record, cursor response is too heavy for select audio channels.
- GENQ-22608 Rio 8K playout issue\_ frames not accurate
- GENQ-22582. Edit, highlighted audio track box is not reset when a new clip is loaded on timeline.
- GENQ-22610 Colour, added a registry setting to disable the automatic migration from "YUV legal" to "Soft Clip"
- GENQ-21465 Supporting rendering of multiple clips and variation in clip length in
- GENQ-20152 32 Mono audio tracks. I/O Record, audio assign goes wrong with preset 32-2 when re-entry to record menu.

- GENQ-22610 YUV legal is not properly migrating to Soft Clip
- GENQ-22621. Edit, crash happens by press Track Visibility with 3 frames timeline
- GENQ-22618. Edit, crash happens by close Audio Track Visibility with 1 frame timeline.
- GENQ-22573 LUTs, re-implement support for SpeedGrade .look files
- GENQ-22613/ GENQ-22601 Edit, MLT FX, enable box of Track Visibility doesn't work properly. 32 mono audio tracks: LED state is not on when restarting with hidden tracks.
- GENQ-22607 LUTs .cube/.cms/.itx have a red-blue swap
- GENQ-22604/GENQ-22597 Edit, enable box of Audio Track visibility is turned on by clear timeline after tick audio track off.
- GENQ-22601. 32 mono audio tracks: LED state is not on when restarting with hidden tracks. Synch the LED state,
- GENQ-22594/GENQ-22595 Edit, Desktop, loop crash happens by hide track on desktop clip and press add video on timeline after modify Audio Track Visibility.
- GENQ-22591 MLT FX Tracker, 3-D setting goes back to Affine after restart.
- GENQ-22585. Edit, highlighted track is still active after hide.
- GENQ-22587 MLT FX Tracker, red messages appear in a log by Mocha tracking.
- GENQ-22582 Edit, highlighted audio track box is not reset when a new clip is loaded on timeline.
- GENQ-22566 Cloud tracker: cloud and optical flow always defaults to affine.
- GENQ-22562 MLT FX Tracker, many red messages appear in a log by tracking. Make the logging conditional on log category
- GENQ-22537 Cloud Tracker GPU crash with RGB 8bit clip "(raw video)" + Source Colour processing.

## New Features and Enhancements in V4.4.0

- Colour space on Export
- Cloud Tracker
- Extended LUT support
- Tangent panel support
- Colour - YUV legal box changes
- Extended 32 channel audio support
- 120p timeline editing support
- Canon v1.5 SDK
- Float clips exported to integer formats

## Issues Resolved in V4.3.1 to V4.4.0

- GENQ-20981 MLT FX Colour, cube is not created
- GENQ-21339 MLT FX Colour, curve point has time lag to start moving
- GENQ-21241 3d stereo, muted enable box is brighter
- GENQ-21409 MLT FX Plug-ins, Sapphire rendering speed becomes slower than V 4.0.0
- GENQ-20198 I/O Import, soft mounted F55 clip colour becomes wrong by change colour space
- GENQ-20196 I/O Import, Loaded F55/F65 file colour is wrong
- GENQ-20792 Mute track using the Neo panel is not working
- Paint, Only supports over-range values for integer based clips
- GENQ-21701 Chroma level not change when Black/White is changed on YUV clip.
- GENQ-22176 C700 canon Raw not importing



- GENQ-21881 Tracker \_ Offset when tracking different canvas size set
- GENQ-22315 Colour, lift control is too sensitive when render format is set to Hybrid Log-Gamma
- GENQ-21209 I/O conform, converting failed to aaf when 1st event's duration is 0
- GENQ-22311 Cineon Log curve does not match Nuke
- GENQ-21397 Payout to Tape stop from 59.94i/59.94p to 29.97i
- GENQ-22136 Cadence of 2-3 pulldown is wrong with Corvid88 installed machine.
- GENQ-22516 I/O Export, exported input key is white as prores 4444
- GENQ- 22280 Khuna SWS files import for UHD resolution
- GENQ- 22180 Closed caption export errors in CEA708 stream
- GENQ- 22291 SCC/MCC caption files ignore changed frame rate
- GENQ-20229 MXF soft mount ignores colour space set in import menu
- GENQ-21368 Softmount Quicktime files missing a number of Audio channels
- GENQ-15006 Improvement: MLT FX, straight shape point becomes curve after adjusting points.
- GenQ-22066 Mute & Solo keyboard shortcuts don't work in MLT
- GenQ-22065 Wire frame does not zoom with picture.
- GENQ-22141 Edit, transition image issue
- GENQ-21700 Twixtor and Neat video plugin issues
- GENQ-21843 RED 6.2.2 SDK Update
- GENQ-21916 IO, Import customer supplied MXF, vertical lines seen on clip
- GENQ-21821 Closed Captions Errors on export
- GENQ-22067 Neo Nano Crash on loading shape pre-sets
- GENQ-21539 59.94fps Video lost sync on payout of long clip
- GENQ-21208 Force Cadence of audio to use the same 5 frame cadence from start of the clip
- GENQ-21843 Red Weapon Helium import
- GENQ-21853 LUT applied with Evidio card on YUV output corrected.
- GENQ-20865 Neo, solo/mute button doesn't work correctly to V2 or upper tracks
- GENQ-21604 MLT colour muted cascade layers switched on incorrectly when software upgraded
- GENQ-21751 Matinee crash
- GENQ-21568 QCIFS disables the SMB on Windows 10 system
- GENQ-21857 Un-rendered segments pre V3.1 rev 11 p11 have different colour look once upgraded to V4.3. Colour settings now as previous version if once set.
- GENQ-21850 Printer lights not functioning in Raw Log
- GENQ-21872 RIO 8K mult out ignores SDI colour space
- GENQ-21848 CTRL M shortcut toggle between MLT and Edit
- GENQ-21577 CDL is not applied in the correct colour space when in float processing modes
- GENQ-21463 MLT Colour, interlaced clips are corrupt when rendered with float processing
- GENQ-21082 Stereo 3D Anaglyph mode display incorrectly with VG enabled.
- GENQ-18674 Conform R3D - filter by R3D rather than all doesn't link to files correctly.
- GENQ-21704 Blend modes functioning with Floating-point clips
- GENQ-21739 EXR export respecting trim sizes.
- GENQ-21759 ProRes export. Re-order tracks so that timecode track is last.
- GENQ-19827 ProRes export, support for splitting audio into multiple mono tracks
- GENQ-21624 MLT FX Graphics, tracked curve by Mocha doesn't move with Linear method
- GENQ-21632 MLT FX Tracker, no target point on image by quick tracking with line
- GENQ-21625 MLT FX Colour, Repeated tracking causes offset to ellipse

- GENQ-21624 I/O, Import, loading DNxHD file cause crash
- GENQ-21071 Clips bin, folder tree display becomes strange with browse mode
- GENQ-21610 Closed captions fails to export because "more frames needed"
- GENQ-21125 Phantom Flex 4k import ( New SDK )
- GENQ-21503 Colour shift when using flowmotion effects
- GENQ-21595 / GENQ-21598 MLT Tracker data of shape has offset when using storyboard settings
- GENQ-21623 MLT tracker possible crash
- GENQ- 21529 New UI – Text missing from conform menu
- GENQ-21289 EvidIO card look different on output with some media.
- GENQ-21527 Crash on Rio Connect on sharing Raw files
- GENQ 20981 MLT pre-process make cube not functioning
- GENQ-21546 Ability to delete homography key frames in MLT tracker
- GENQ-21550 MLT FX Graphics, gradient rectangle with linear becomes black
- GENQ-21263 EvidIO crop issue with non REC709 clips
- GENQ-21561 MLT FX Tracker , crash with Delete KF all
- GENQ-21562 MLT FX Tracker , tracking data becomes empty loading a clip with track data
- GENQ-21485 DCP speed increase on import
- GENQ-21580 Tracker , old data seen after deletion
- GENQ-21579 MLT FX , Pre-process added not incrementing process number
- GENQ-21590 MLT FX, copied shape is created underneath by shift + drag
- GENQ-21589 2nd shape quick tracking not starting correctly.
- GENQ-21543 Cannot restore old Archives.
- GENQ-21804 I/O Import, soft mounted DNxHD becomes 3d stereo clip.
- GENQ-19041 Conforming wrong with audio track when change audio tracks like mix down at offline edit.
- GENQ-21673 Keyframe graph and solo button and pick button are disappeared in Effect menu.
- GENQ-22386 MLT Colour, registry setting "Limit Cube Size" to reduce size of Make Cube to x33 or x17
- GENQ-22388 DCP Out, Annotation set - Not set due to space in text
- GENQ-19876 System, image becomes low contrast by 0-1023 with sdi multi out
- GENQ-22381 System, SDI Multi output range becomes wrong when you change colour space

## Known Issues and limitations

- GENQ-22093 I/O Conform, crash happens by re-conform after edit
- GENQ-21796 I/O Import, imported wmv clip becomes green and magenta
- GENQ-21341 MLT FX Colour, colour is changed slightly between YUV and RGB with Rec.2020
- GENQ-22423 System, installer, disk space doesn't match to Rio software
- GENQ-22405 I/O Import, Imported 119.88fp clip doesn't have set source TC
- GENQ-22020 MLT FX, realtime indicator tells lie
- GENQ-22355 MLT FX Colour, colour result has magenta cast with YUV raw + graphics on blank V2
- GENQ-22362 MLT FX, wrong colour is shown when you change transfer curve in render format

- GENQ-22348 Edit, Desktop, cannot change input channel with 32ch audio
- GENQ-22314 MLT FX, Edit, converted colour result has different chroma level between MLT FX and SDI output
- GENQ-22302 MLT FX, result colour is changed after rendering with source colour processing + DVE
- GENQ-20164 I/O Conform, conform failed by source tc start 00:00:00:00 audio with grey
- GENQ-22488 I/O Export, exported mov file colour is wrong with Avid and Graphic codec
- GENQ-22503 Tangent Panel, highlight display of saved preset is turned off after restart
- GENQ-22499 I/O Conform, error "no clip found to conform" appears when need to record next reel
- GENQ-22461 System, SDI single output doesn't update range and colour by change SDI Multi Out
- GENQ-22097 I/O Conform, convert error by EDL to AAF with certain EDL on Windows10 Rio
- GENQ-22498 MLT FX, Color on SDI changes between Play and Still.
- GENQ022517 I/O Export, input key is not burned to image by export tif, tga and prores4444 with float clip
- Effects Colour, Only supports Integer Rec.709 colour space clips
- GENQ-22548 I/O Conform, some transitions are ignored by convert from BVE EDL to AAF
- GENQ-22537 Cloud Tracker GPU crash with RGB 8bit clip "(raw video)" + Source Colour processing
- GENQ-22545 Neo Panel, function buttons mapping is broken, if you install tangent panel drive
- GENQ-22544 MLT FX Colour, outside of shape becomes green and magenta by pre-process with YUV clip + source colour processing
- Expected Operation:
  - GENQ-22396 MLT FX Colour, soft clip setting doesn't link to "Default YUV Legal Colour State" in F1
- Rio Gateway does not support EXR workflows through the CIFS interface  
**Workaround** : Use QXMLNET to transfer EXR files through the Rio Gateway
- GENQ-21050 MLT FX Colour, image is not updated by change input cascade
- GENQ-21217 MLT FX, crash happens by render SHV clip by float processing
- GENQ-21212 MLT FX, SHV clip becomes green with float processing
- GENQ-21339 MLT FX Colour, curve point has time lag to start moving
- GENQ-21378 MLT FX, process menu jumps by scrub timeline
- GENQ-21402 MLT FX Colour, Pre-process doesn't work to Cineon Log clip with Cineon Log render format + source processing
- GENQ-21408 Video Stretch with Key does not remember it's history
- GENQ-21412 Video Stretch with Key does not show Key result correctly
- GENQ-21381 Respeed, it takes long time to start rendering with long clip
- GENQ-21369 MLT FX Colour, YUV legal doesn't work with YUV 10bit clip composite
- GENQ-21527 Rio Connect, crash by open RioConnect bin with shared raw video clip
- GENQ-21485 DCP In, importing speed becomes much slower than V 4.0.0
- GENQ-21528 DCP Out, generate package process doesn't start with clip has audio and IMF/IMP ON
- GENQ-21523 I/O Import, Crash happens by load mxf generated by DCP OUT
- GENQ-21496 DCP In, IMP ON package colour becomes wrong
- GENQ-23069: I/O Import, crash happens by load 1998x1080 size dpx
- GENQ-23066: I/O Import, imported 8k (8176x5564) image becomes noise
- Expected Operation:
  - GENQ-21436 MLT FX Tracker, V 4.0.0 Mocha tracker data is changed  
**You have to re-create on 4.3**

# Quantel Rio

## Release Notes

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- OFX, overlay doesn't match to effect with desk OFF
- Respeed, Time render result becomes profile one after set profile graph
- Respeed, Keyframe points are not created by Profile Lin In/Out
- HSL fettle curves are affecting image before a colour change has not been applied
- I/O Conform, Scan setting of Respeed mode in Effects is ignored
- Unable to soft mount Imports or Archives that contain closed caption data
- Closed caption data removed when performing a partial import
- Edit, Data tracks are decoded and viewed at segment resolution
- MLT FX, Data tracks are decoded and viewed at top most layer resolution
- QPlugins, Float clips are rendered in Integer processing and then converted back to float
- DCP In, Colour space not fully supported
- Utility, Only supports Integer Rec.709 colour space clips for this release

## New Features and Enhancements in V4.3.0

- RAW Color workflows – RAW Video/RAW Log
- New transfer curves added. Now available in all menus.
- New Tracker functionality
  - Quick track button
  - Shape homography improvements
  - Keyframe Graph improvements
- Closed Captions Export – Translate 608 into a 708 stream
- Curve is now the default Shape in all menus
- IMF Packaging support via the updated Fraunhofer API
- ProRes Export – added 5.1 channel mapping metadata
- Conform – MXF alpha channel support
- EXR Export – Integer clips will convert to float
- EXR Import – defaults to the size of the display window attribute
- Kernel Automation API (Beta)
- Windows 10 Pro Support

## New Features and Enhancements in V4.0.0

- New re-designed user interface
- New respeed option using Alchemist technology
- Improved Flow Motion respeeds
- All respeeds now with full history
- Conform – a choice of respeeds or none at all
- Conform - Avid profiled respeeds supported
- Avid re-link to exported MXF files (round tripping)
- EXR Export – additional compression options
- 12-bit RGB video output
- Ability to change a rush/segment attribute directly on the timeline
- Conform - F1 option to disable SDI
- Avid DNxHR support
- F1 HBR option for MXF files
- Additional transfer curves

## Other Information

### Windows 10 support

Quantel Rio and Rio Assist now supports Windows 10 pro edition

**Please note that the Sentinel Driver v7.5.9 is required to use Windows 10**

<https://sentinel.gemalto.com/sentinel-drivers/>

Note the Version required, USB only no need to install parallel:

All Software only and existing RIO systems if upgraded to Windows 10, need to ensure all Windows 10 driver requirements are fully compatible before doing so.

SAM have not fully tested all configurations and commonly used 3<sup>rd</sup> party cards at this point on Windows 10 pro edition.

This document assumes the Platform is Windows 7. Some drivers for Windows 10 maybe different however SAM will endeavour to document specific cases as and when they arise.

For further information please contact [support@s-a-m.com](mailto:support@s-a-m.com)