

Rio V7.2.6

Release Notes

Version History

Document Name: **Rio Suite Release Notes V7.2.6**

Version	Description	Date	Author
1	Rio Release Notes	5 th July 2019	IR

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Any problems with the installation or operation of this software should be reported to the Grass Valley Support Department support@grassvalley.com where a representative will assist with the issue.

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Software Release Details

Release Description	Rio Release
Release Type	Release to support Rio on sQ Servers
Customer	
This version	V 7.2.6
Release Date	5 th July 2019
Other Notes	

Release Scope & Supported Products

System Component	
✓	Rio
✗	Rio 4K
✗	Embedded SQ Play
✗	Embedded SQ Record

Associated or optional software

Name	Description	Version
Rio	Rio editor	V7.2.6
Media Transformer	GV Media Transformer for Proxy creation, Render Engine and ABR streaming	V7.3.3
Go!	Go! Web editor.	V2.3.8
	Go! Plugin for Adobe Premiere Pro.	V2.0.2
ISA Manager	ISA Manager for SQ Clip management	V5.3.5.0 (or later)
sQ Server	sQ 200/400/800	V5.11.28 (or later)
	sQ 1200/1800	V1.7.34 (or later)
FileFlow	FileFlow Engine	V6.7.8 (or later)
	FileFlow Queue	V3.1 (or later)
Neo Workstations Server	Quantel software for Neo/Nano Workstation PC (Win7)	V4.4.0

Rio

Rio is a software multi-layer timeline editing and finishing system that will run on qualified PC hardware.

Rio offers a wide range of configuration choices

- Available as software only and can be configured to run as a fully featured effects production system all the way through to a desktop proxy editing only system
- Uses CUDA for effects processing
- Support for Nvidia GTX Geforce range of cards up to a single Nvidia P100 GPUs (max dual GPU support)
- Works standalone or in a shared environment using standard IT Storage via the GV MPS Core
- Serial VTR* and Video workflows supported (* Optional card required)

System Drivers – Please note that there are updates to drivers for this version over V6.7 / V7.1

If upgrading from earlier versions, Please see page 6 for more information.

Base, Desk and Dict folders are compatible with Rio V4.4.0 and V3.1 rev 1.

This database schema is NOT compatible with V3.0 rev 1 or earlier.

Note: Base and Media folders are not compatible with SQ Seats v6.7.n or earlier (i.e. Qube, SQ Cut etc.)

Installation

Rio will run on Windows 7 64bit and Windows 10 Pro 64bit.

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
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

Driver Requirements (minimum)

Name	Description
nVidia Tesla driver (K , M & P series)	385.08 -tesla-desktop-win8-win7-64bit-international-whql
	385.08 -tesla-desktop-win10-64bit-international-whql
nVidia GeForce GTX driver	419.67 -desktop-win8-win7-64bit-international-whql
	419.67 -desktop-win10-64bit-international-whql
nVidia Quadro driver (2000, 4000 & 6000)	377.83 -quadro-grid-desktop-notebook-win8-win7-64bit-international-whql
	377.83 -quadro-grid-desktop-notebook-win10-64bit-international-whql
AJA Kona 3G driver	ntv2driver-13.0.0.msi, Firmware v124
AJA Kona 4 driver	ntv2driver-13.0.0.msi, Firmware v44
AJA Corvid 88 driver	ntv2driver-13.0.0.msi, Firmware v40
eVidIO2 card driver	v17
PCI QLink driver	3.3.0.0
Wacom Intuos 5 driver	WacomTablet_6.3.9w3.exe
Serial Card (VTR) driver	CDM 2.06.00 WHQL Certified.zip

The '**Red**' items above show the versions that have changed since Qube 6.7 / Rio V7.1

IMPORTANT: On boot of the 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 **PC Specifications for Customer-Supplied Hardware** document for the latest hardware recommendations.

License

A V7 license will be required for this release.

License options 171 **and** 177 are required for sQ Server connection

Important Information

QuickTime Vulnerability Issues

In previous releases to allow the import/soft mount of QuickTime files using QuickTime codecs, QuickTime Essentials had to be installed. This is no longer necessary, eliminating the previous vulnerabilities.

NOTE: We still support QuickTime as a fall back for files that FFMPEG can't decode. In these circumstances QuickTime Essentials will need to be installed and then the files will be locally imported.

For further information please contact support@grassvalley.com

Neo and Neo Nano workstation software

No Update to Neo Workstation software is required when upgrading from V4.3.0 to V7.1.2

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 downgrade. Also be aware:

- 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.
- 3) This new database schema is not backwards compatible with V3.0 rev 1 or V2.1 rev 4

Archive Compatibility

Existing archives from previous software versions will come in and use 'source colour processing' as the default. To maintain existing compatibility clips should be viewed on output and rendered at 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 subtly different result.

Associated documentation

GV Rio sQ Product Specification.pdf

Changes this Release

New Features and Enhancements

- Support for ActiveX Rio
- Support for Rio 'View' configuration (see 'Rio configuration')
- Support for Rio 'Cut' configuration (see 'Rio configuration')
- Support for RTSoft graphic templates
- Support for unrendered Respeed
- Support for 'Automatic retime' of miss-matching frame rate when editing into timeline
- Support for 'Simple DVE' on video track 1 from the edit window
- Python has been updated to 2.7.16
- Chromium Embedded has been updated to v73
- Added Support for loading COTS Media Assets from Momentum
- Added Patents comment to F1 'About' UI
- Added F1 scroll bar when using smaller UI Screens (Laptops)

Issues Resolved

- SQEDIT-340 ActiveX Rio UI appears to 'pop' when running up
- SQEDIT-447 NIC order no longer no longer assumed
- SQEDIT-342 CTL+SHFT audio Editing not working as expected
- SQEDIT-375 'Blank Video Indicator' does not work when 'use new timeline' is set off
- SQEDIT-379 When dragging MOV clips from webtools bin, it occasionally fails and a blank clip is created
- SQEDIT-141 Text, Arabic characters work right to left but special characters like '!' are wrongly added on the right
- SQEDIT-422 Fetch audio waveforms now listens to F1 'Localise: Tail Frames'
Note: Set F1 'Localise: Tail Frames' to 40 to localise extra 40 frames of audio, aids voice editing and audio transitions
- SQEDIT-19 OFX Plugin crash when changing segment
Note : Some OFX Plugins do not load saved settings correctly
- SQEDIT-4 Crash when playing a stereo mix down .mov
Note : Warning seen in logs when incompatible mix down / channel mapping is used
- Clip bin - Clear History now removes reference to any source rush frame rate leaving just the edit frame rate.
Note : This problem still exists with F1 setting 'Publish with Clear History' and desktop Commit

Known Issues and limitations

- sQ Play and sQ Record are NOT options for Rio
- 720p and 1080p 50/59.94 interleave server formats are NOT supported
- Effects Render does not support 'Float 16' or 'Float 32' rendering (F1 MLT 'Preferred Processing' default is 'Source')
- Opening a Published AAF that contains soft mounted media is not fully supported
- Creation of Custom Transitions is NOT supported
- Templates option is NOT supported
- One Shot Process option is NOT supported

Rio configuration for Enterprise SQ connectivity

Rio will require license 171 (QNet2) and 177 (Rio SQ)

Ensure the following Settings Panel items are set

- [Browser Settings] URL path (optional (requires license 145))
- [License] Local or Remote
- [Network] ISA connection
- [Network: Clipnet] Packet size for HBR / LBR
- [Options] ENABLE: Use Render Size for Clip Pic
- [Options] ENABLE: Replace Pan & Scan with DVE
- [Options] DISABLE: Use new timeline
- [Server Bin] DISABLE: Use REST search
- [Server: Editing] Show HBR video (optional based on editor use(LBR vs HBR))

Rio 'View' and 'Cut' configurations

Rio product can be configured to be similar to SQ View and SQ Cut products. This configuration is a simple Settings Panel option:

- [Options] ENABLE: 'Disable Timeline' (View Mode)

or

- [Options] ENABLE: 'Disable Video Effects' (Cut Mode)

ActiveX Rio configuration

Rio product can be configured to be run within an 'ActiveX' container.

This configuration is a simple Settings Panel option and then launch via an appropriate shortcut

- [Startup] ENABLE: 'Hide application window (use as ActiveX control)'

Video Thunk Size and its impact

Rio uses a Thunk Size of 304K. This is 'hard coded' in the registry.

Qube and other SQ Seats can be configured to other preset values or even a custom value.

When installing other products on the same hardware as Rio ie. sQ Play/Rec; these will use other Thunk sizes ie. 564K. Therefore you MUST use different Base, Desk, Dict and Cache folders for your Video and Audio folders.

These are configured in the Settings Panel for each product.

Web Tools – Drag and Drop

Rio supports standard 'seat' drag and drop functionality.

This includes drag and drop of generic file types from a Momentum bin for Soft Mount editing.

- Fileflow Export
Dragging from Server bin into FileFlow Manager page will work (if configured to do so.)
<http://{fileflowManager-IP}:8080/fileflowqueue/queueviewPanel.html?refresh=5>
- Momentum Bin
Momentum (Vibe) connectivity is not supported in Rio 7.2.
However it is possible using the 'Momentum Bin' to allow fetching to the desktop of Momentum assets (specifically HQ (File) Media Assets)

To configure COTS Momentum Bin

Assumes an already working Momentum environment

1. Copy COTSMetadataList.js and COTSWebToolsV1.aspx
C:\Data\{Product/Vers}\DLL_Data\Quantel\QPython\Scripts\Momentum\config
2. Paste in Momentum Website (both apps servers)
...\wwwroot\Momentum\COTSMetadataList.js
...\wwwroot\Momentum\html5\COTSWebToolsV1.aspx
Restart Momentum IIS
3. Modify WebTools XML to point to 'Momentum\html5\COTSWebToolsV1.aspx'