

VALIDATION RELEASE NOTE

PRODUCT DETAILS

Archive Number	Product Code	Name
V5.4.5	NA-00855 MCM V5 Software	Centra Workbench Package

RELEASE NOTE REVISION HISTORY

Issue	Description of Change	Released By	Date
1.0	First Release	D. Yeomans	14/01/20

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1. Release 5.4.5 Information

This document describes the latest release of the Centra Workbench package software. This is a bug fix release in the 5.4.x Series and is built upon the v5.4.0 base.

Applicability

This is a General release and can be used across all Sirius S800 series, Vega 100 Series and Pyxis (Running 2464 controller) Routers and IQ Modular 2460/2461 Controller systems.



UPGRADES: The features in this release are targeted at Sirius S800, Vega and Pyxis platforms.

Deliverables

The Deliverable (Size approx 3G Bytes) comprise:

- **WorkbenchInstaller.exe**
- **Documentation** folder
- **DefaultCentraScreensAndDatabases** folder
- **Resources** folder – Installers for SQL Express, shell extensions and .net (dotnet) support, used at installation time only
- **5-4-5-ReleaseNote.pdf** (This Document)

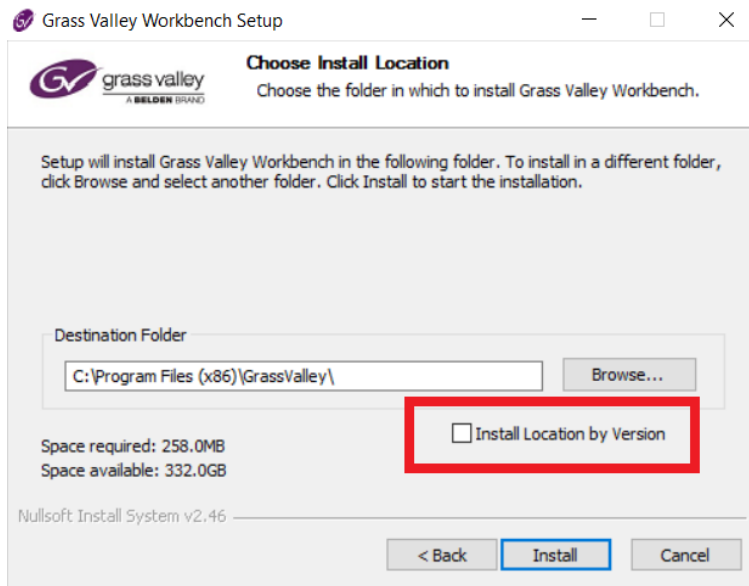
Software Installation

The supplied software is for Windows® PC operation only. Installation is achieved by running the **WorkbenchInstaller.exe** program and following the on-screen instructions.



Installation Location: The default install location of this version of software is **c:\Program Files(x86)\GrassValley** and will appear under the Windows Start menu as a GrassValley option. The default location may be changed at install time using the tick box option.

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Installed Files: The Contents of the **DefaultCentraScreensandDatabases** and **Documentation** folders are not installed to the target machine / location. These are provided for later use and should be copied manually to the target machine. Typically, only those Databases and/or screens applicable to the end use application would be installed. The contents of the **Resources** folder are only used at installation time.

Release Details

New Features

- **None**, against V5.4.4 release.

Changes

- **Controller**
 - **Web Interface Persistence Import:** This is now functional again.

Known Issues / Dependencies

- **Installation – Configuration Helper**
 - Observed using Windows® 10: This may report screen as being below minimum resolution even when it meets or exceeds this. Where the screen is known to exceed the minimum requirement, Operation is not compromised. *Workaround/Checkpoint:* Setting of Screen resolution of text, apps etc on PC to values other than 100% may cause this issue.
- **Workbench - Rules Engine**
 - Clicking the Device Explorer Refresh button can cause “An unhandled exception was thrown” error message, which will cause Workbench to stop working. *Workaround:* There is no known workaround at this time.

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- **Vega 700 (7U) – FrameSync operation**
 - In Vega 700 (7U) frames operation of FrameSync in Input Only slots is possible only with Reference 1 (A). References 2 through 4 are not reliable. *Workaround, Place FrameSync cards in I/O slots for multi-reference use.*
- **Vega Audio V-Fade**
 - If upgrading from a package older than v4.6.1: For this to work the Vega Router must be fully upgraded to this package. If only the Controller upgrade is applied (e.g. Via USB stick) then the Audio V-fade may not work, depending on previously installed Firmware.
- **Vega 700 (7U) AES Audio**
 - If upgrading from a package older than v4.6.1: For this to work the Vega Router must be fully upgraded to this package. If only the Controller upgrade is applied (e.g. Via USB stick) then the AES Audio may not work, depending on previously installed Firmware.
- **Vega Audio Operation**
 - Audio processing may only be applied to signals of the same Frame Rate (i.e. You cannot mix 50Hz, 59.94Hz & 60Hz systems)
 - Controller upgrade – When upgrading the Active Controller, AES cards may lose the reference. To work around this, either the Router Reference (Ref 1) may be disconnected and re-applied, the AES card may be re-seated to effect a reset or the Whole Router may be reset.
 - **The Audio Router in Vega systems is Blocking.** This therefore limits the maximum number of Audio Channels that may be used. The Audio Crosspoint (Located on the Vega MAD1 card) is non-redundant. Inserting a second MAD1 card will not work.
 - **References** – For audio routing and processing to occur there must be at least one video reference connected and the redundant reference control must be set to that reference input.
 - RollCall Operation. RollCall does not have sufficient capability to control the size of the Audio Matrix. Control should be realised by one of the other Control interfaces.
- **S800 12G Operation**
 - To use 12G-SDI I/O cards (FGAEY 1840, FGAEY 1841 & FGAEY 1842) with this software package, Firmware package PA12500 or above must be used. Consult Engineering for the latest version(s).
 - The introduction of 12G-SDI to S800 series Routers adds new CATSII colour combinations via a new CATSII2 Virtual module. Refer to Engineering for the latest information.
- **Databases**
 - Deprecated Databases have been removed as from release v4.6.1. Refer to Customer support / Engineering if old Databases are required.

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- **Names update via Controller Web interface**
 - Internal system names may be updated via the Active Controller Web interface. Using this method avoids the need to “fail-over” the controllers. When using this method not all name sizes are replicated between the Active and Idle Controller. Refer to section 4 Further Information, sub-section Controller Names Update via Web interface.
- **Vega Controller Failover**
 - There can be a loss/disruption of Processing outputs when the Vega Controllers failover/Reset. As a workaround when changing names on the controller users should adopt the Web interface method (see section 4) to avoid the resultant failover/reset that would be associated when using Workbench to make the change.

Firmware Compatibility

- **S800 Firmware**
 - To use features in this release then the Sirius S800 Router should be fitted with Firmware from PA1250O package.
- **Pyxis Firmware**
 - Use Firmware as per Individual Module Bills of Materials
- **Vega 100 Series**
 - All required Firmware is included within this release.

Installed Applications Information

When Installed this Centra Workbench package installs to the target folder:

Software / Application	Version	Comments / Notes
PC Applications		
Workbench.exe	5.4.5.5644	Workbench Router Configuration Application
LiveRunner.exe	5.4.5.5644	LiveRunner Router Control Application
AuroraImporter.exe	None	Legacy Aurora Database to Centra Database Conversion Tool
AutomationMCMSTool	None	Now removed from installation.
CentraLogClient.exe	5.4.5.5644	Client for capturing log messages
InstallChecker.exe	None	Configuration Helper
DatabaseExporter.exe	None	Database exporter tool to xml files
DatabaseLogClient.exe	5.4.5.5644	
DatabaseLogPump.exe	5.4.5.5644	
DCCPValueSetter.exe	None	Command line Tool (Sets DCCP Values)
RoleMapper.exe	None	
RulesService.exe	None	Rules engine application
RulesUpdater.exe	None	
ScreenRecall.exe	None	
Uninstall.exe	None	Software removal tool
PbakDeploy tools	6.0.11.5605	Engineering tools
Bootdisk.exe	6.04	
PbakDeploy.exe	6.0.11.5605	Software deployment

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Software / Application	Version	Comments / Notes
makeUSB_Vega.bat	None	Create USB recovery sticks for Vega, see USB Key Creation.pdf for details. <i>Note: Needs to be run with Administrator privileges.</i>
makeUSB_S800.bat	None	Create USB recovery sticks for S800, see USB Key Creation.pdf for details. <i>Note: Needs to be run with Administrator privileges.</i>
Router Controller Software/Firmware for installation on controllers		
2330 - Pbl2330Controller.rtb	5.4.5.8070	Legacy Controller Binary image
2450 - Pbl2450Controller.rtb	5.4.5.8070	Legacy Controller Binary image
Win32 – CentraController.exe	5.4.5.8070	32-bit Windows® Controller
246x & Vega – CentraController.rtb	5.4.5.8070	Binary image
Router Controller FPGA Code		
PA0864F.zip	PA864F	FPGA binary code for Legacy 2450 Controller
2462/3/4	PA1002Z	FPGA binary for 2462/3/4 controllers
2460/1	PA1104D	FPGA binary for 2460/1 controllers
Vega Controller	PA1214I	FPGA binary for Vega 100 series controllers
RollCall Files		
RouterRelease.zip* upgrade file(s) supports all routers and controllers	5.4e.48	*Hypervisor – CentraController.bin - it is possible to extract this from RouterRelease.zip providing you have 7zip installed
RollCall Soft Panel Templates		
Web Applet for RollCall Soft Panel		
MIB files for SNMP support		
Alarm.mib	None	
CentraController.mib	1.3	
Config2450Device.mib	None	
Control2450Device.mib	1.2	
LocalRouter.mib	1.3	
PROBEL-COMMON.mib	None	
RouterDevice.mib	None	
Vega 100 Series I/O Firmware		
Fan Control	25	
Video I/O	128	
AES Audio I/O	8	
Buffer (4RU/7RU 400/700 only)	15	
Video Crosspoint	13	
Processing Input I9PR	9	
Processing Output O9PR	12	
Framesync Input I9FS	3	
MADI/Audio Crosspoint	10	
Documentation		
Centra_Workbench_Getting_Started.pdf	Iss 1 rev2	
Centra_Workbench_User_Manual.pdf	Iss1 Rev5	This document is out of date and awaiting refresh.
Router Controllers and Panels Features List.pdf	Jan 2014	

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Software / Application	Version	Comments / Notes
EULA.pdf	Feb 15, 2019	
USB Key Creation.pdf	1	Details on how to run the makeUSB_Vega.bat USB key creation tool. May also be used as guidance for S800 USB stick.

Databases

This release contains example (default) configuration Databases which may be found in the **DefaultCentraScreensAndDatabases\Databases** folder.



From the v4.6.2 release No Default Databases are included for out of production controllers e.g. Nucleus (2450) controllers. For support with these controllers please refer to Grass Valley Customer support team.

Available Databases are:

Database	Functions / Notes	Updated
Nucleus2 Controller (all .zip)		
2460 Dual Frame S850 AHP Centra Database	External controller with support for Dual Frame S850 having AHP capabilities	
S830 AHP 4K Centra Database	Support for UHD as Quad 3G-SDI	
S830 AHP Centra Database		
S830 Centra Database		
S830 Centra ProductionTest Database	Production test only	
S840 4K Centra Database	Support for UHD as Quad 3G-SDI	
S840 4K AHP Centra Database	Support for UHD as Quad 3G-SDI and AHP	
S840 AHP Centra Database		
S840 Centra Database		
S840 Centra ProductionTest Database	Production test only	
S850 AHP Centra Database	For use with Single S850 frame	
S850 Centra Database	For use with Single S850 frame	
S850 F0 Centra Production Test Database	Production test only	
S850 F1 AHP DoorPC Centra Database	For use with Door PC in Frame 1 in S850 Dual Frame configuration	
S850 F1 Centra Database		
S850 F2 AHP DoorPC Centra Database	For use with Door PC in Frame 2 in S850 Dual Frame configuration	
S850 F2 Centra Database		
Default246xPyxis		
Vega 200 Database		
Vega 200 Processing Database	Use this for Processing support	
Vega 400 Database		
Vega 400 Processing Database	Use this for Processing support	
Vega 400 ProductionTest Database	Production use only	
Vega 700 Database		
Vega 700 Processing Database	Use this for Processing support	

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Database	Functions / Notes	Updated
Nucleus2 Controller (all .zip)		
VegaConfigs		

Sample Screens

This release contains example LiveRunner Control soft screens and may be found in the **DefaultCentraScreensAndDatabases\Screens** folder.

These are sub-divided by Router/Controller type into the following

- 2460 – IQ Modular External Controller
- Brushes - Defaults
- S800 – Sirius S800 series router screens including Door PC
- Vega – Vega 100 series router screens

Screen file (.screen)	Functions / Notes	Updated
2460 (2461) - AHP		
A-AHP-IP-AES_2460		
A-AHP-IP-MADI_2460		
A-AHP-IP-Single-AES_2460		
A-AHP-OP-AES_2460		
A-AHP-OP-MADI_2460		
Menu2460		
V-AHP-IP Audio Processing_2460		
V-AHP-IP Audio Re-Embedding Processing_2460		
V-AHP-IP-FrameSync_2460		
V-AHP-OP Audio Processing_2460		
V-AHP-OP-FrameSync_2460		
2460 (2461) - Routing		
AudioRe-EmbeddedInputRouting2460		
AudioXY2460		
VideoWithAudioTrackRouting2460		
VideoXY2460		
Brushes		
Brushes.xml		
S800 – Common\AHP		
AHP - Audio Path		
Audio AHP – Input AES		
Audio AHP - Input MADI		
Audio AHP – Output AES		
Audio AHP - Output MADI		
Audio Re-EmbeddedInputRouting		
Menu - Processing		
Video AHP – Input Audio Embedding Processing		
Video AHP – Input Audio Processing		
Video AHP – Input Frame Sync		
Video AHP – Output Audio Processing		
Video AHP – Output Frame Sync		
S800 – Common\DoorPC		

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Screen file (.screen)	Functions / Notes	Updated
Catsii Colours 2		
Catsii		
Crosspoint - Audio		
Dial Up Monitor Video only		
Dial Up Monitor		
Dial Up		
Exit		
Input Port Connections	No longer selectable from menus	
Input Signals 2		
MADI Inputs		
Nucleus Info		
Output Port Connections	Port connector type no longer available	
Output Signals 2	No longer used	
Output Signals 3	Replaces Output Signals 2	
References - Control		
S800 – Common\ Routing		
Audio XY		
Video XY		
VideoWithAudioTrackRouting		
S800 – Common\ Sample		
VideoWithAudioTrackRouting - Dial Up		
VideoWithAudioTrackRouting - Landscape		
S800 – S830\ DoorPC		
MV830 Configuration		
MV830 Rdt Crosspoint Enables		
OP MV Signals S830		
S830 Alarms2		
S830 Crosspoint - Video		
S830 DoorMenu	Input Connections greyed out	
S830 Firmware-Report		
S830 Modules-ID		
S830 Reclockers		
S830 Temperatures2		
S800 – S830\ RouterStatus		
Router Status		
S800 – S830\ Routing		
SAM 288x288 X-Y		
S800 – S840\ DoorPC		
S840 Alarms		
S840 Crosspoint - Video		
S840 DoorMenu	Input Connections greyed out	
S840 Firmware-Report		
S840 Modules-ID		
S840 Reclockers		
S840 Temperatures2		
S800 – S840\ RouterStatus		
Router Status		
S800 – S840\ Routing		
SAM 576x576 X-Y		
S800 – S850\ Frame0\ AHP		

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Screen file (.screen)	Functions / Notes	Updated
Menu - Processing		
S800 – S850\Frame0\DoorPC		
Output Signals 2		
S850 Alarms		
S850 Crosspoint - Video (Expansion)		
S850 Crosspoint - Video (Main)		
S850 DoorMenu	Input Connections greyed out	
S850 Firmware		
S850 Modules		
S850 Reclockers		
S850 Temperature (Local)		
S800 – S850\Frame0\RouterStatus		
Router Status		
S800 – S850\Frame1\AHP		
A-AHP-IP-AES_1		
A-AHP-IP-MADI_1		
A-AHP-IP-Single-AES_1		
A-AHP-OP-AES_1		
A-AHP-OP-MADI_1		
Audio AHP – Input AES_1		
Audio AHP - Input MADI_1		
Audio AHP – Output AES_1		
Audio AHP - Output MADI_1		
Menu - Processing_1		
V-AHP-IP Audio Processing_1		
V-AHP-IP Audio Re-Embedding Processing_1		
V-AHP-IP-FrameSync_1		
V-AHP-OP Audio Processing_1		
V-AHP-OP-FrameSync_1		
Video AHP – Input Audio Embedding Processing_1		
Video AHP – Input Audio Processing_1		
Video AHP – Input Frame Sync_1		
Video AHP – Output Audio Processing_1		
Video AHP – Output Frame Sync_1		
S800 – S850\Frame1\DoorPC		
S850_Frame_1_of_2 Alarms		
S850_Frame_1_of_2 Crosspoint - Video (Expansion)		
S850_Frame_1_of_2 Crosspoint - Video (Main)		
S850_Frame_1_of_2 DoorMenu	Input Connections greyed out	
S850_Frame_1_of_2 Firmware		
S850_Frame_1_of_2 Modules		
S850_Frame_1_of_2 Reclockers		
S850_Frame_1_of_2 Temperature (Local)		
S800 – S850\Frame1\RouterStatus		
Router Status_1		
S800 – S850\Frame1\Routing		
Audio XY_1		
AudioRe-EmbeddedInputRouting_1		
AudioRe-EmbeddedInputRoutingRTR_1		

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Screen file (.screen)	Functions / Notes	Updated
Video XY_1		
VideoWithAudioTrackRouting_1		
VideoWithAudioTrackRoutingRTR_1		
S800 – S850\Frame2\AHP		
A-AHP-IP-AES_2		
A-AHP-IP-MADI_2		
A-AHP-IP-Single-AES_2		
A-AHP-OP-AES_2		
A-AHP-OP-MADI_2		
Audio AHP – Input AES_2		
Audio AHP - Input MADI_2		
Audio AHP – Output AES_2		
Audio AHP - Output MADI_2		
Menu - Processing_2		
V-AHP-IP Audio Processing_2		
V-AHP-IP Audio Re-Embedding Processing_2		
V-AHP-IP-FrameSync_2		
V-AHP-OP Audio Processing_2		
V-AHP-OP-FrameSync_2		
Video AHP – Input Audio Embedding Processing_2		
Video AHP – Input Audio Processing_2		
Video AHP – Input Frame Sync_2		
Video AHP – Output Audio Processing_2		
Video AHP – Output Frame Sync_2		
S800 – S850\Frame2\DoorPC		
Catsii Colours_2		
Catsii_2		
Crosspoint - Audio_2		
Dial Up Monitor VideoOnly_2		
Dial Up Monitor_2		
Dial Up_2		
Exit_2		
Input Port Connections_2	No longer selectable from menu	
Input Signals_2		
MADI Inputs_2		
Nucleus Info_2		
Output Port Connections_2		
Output Signals_2	No longer used	
Output Signals 3_2	Replaces Output Signals_2	
References - Control_2		
S850_Frame_2_of_2 Alarms		
S850_Frame_2_of_2 Crosspoint - Video (Expansion)		
S850_Frame_2_of_2 Crosspoint - Video (Main)		
S850_Frame_2_of_2 DoorMenu	Input Connections greyed out	
S850_Frame_2_of_2 Firmware		
S850_Frame_2_of_2 Modules		
S850_Frame_2_of_2 Reclockers		
S850_Frame_2_of_2 Temperature (Local)		
S800 – S850\Frame2\RouterStatus		
Router Status_2		

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Screen file (.screen)	Functions / Notes	Updated
S800 – S850 \ Frame2 \ Routing		
Audio XY_2		
AudioRe-EmbeddedInputRoutingRTR_2		
Video XY_2		
VideoWithAudioTrackRouting_2		
VideoWithAudioTrackRoutingRTR_2		
AudioRe-EmbeddedInputRouting_2		
Vega - Common		
AudioXY		
AudioXY2		
PT Vega Input Processing		
PT Vega Output Processing		
Vega Input Processing RTR		
Vega Input Processing		
Vega Menu		
Vega Output Processing RTR		
Vega Output Processing		
Video+AudioTrackRouting		
VideoXY		
VideoXY+Monitoring		
Vega - 200		
Audio Router IO Config 2U		
Vega Status Screen 2U		
Vega - 400		
Audio Router IO Config 4U		
Vega Status Screen 4U		
Vega - 700		
Audio Router IO Config 7U		
Vega Status Screen 7U		

Updated RollCall interface (as of v5.4.x)

Reference Control

The Rollcall interface has been updated to add the reference offset controls, as seen in the following screenshot examples.

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The screenshot shows the Centra Workbench interface with the 'References' panel open for a 4900.0C:00 unit. The left sidebar displays a tree view of the system components, including S830.10, S830.46, S830.47, S830.126, S830.2A, References, Mat1: S830V, iSlot 4: 5919, oSlot 4: 5949, --private-node--, LocalRouter Inputs, LocalRouter Outputs, LocalRouter Others, S830.127, S840.121, S840.122, 2460_2461, Pyxis, Network(7000), Network(9000), and Network(4000). The 'References' panel is divided into three sections: External Reference Standards, Derived References, and Reference Offsets.

External Reference Standards

External Ref	Standard	Status
External Ref 1	None	Not Valid
External Ref 2	None	Not Valid
External Ref 3	None	Not Valid
External Ref 4	None	Not Valid

Derived References

Internal Reference	Ref Present	Format	Derived Standard	Derived From Ext. Ref.
Internal Ref 1	None	Not Valid	None	External Ref 1
Internal Ref 2	None	Not Valid	None	External Ref 2
Internal Ref 3	None	Not Valid	None	External Ref 3
Internal Ref 4	None	Not Valid	None	External Ref 4

Reference Offsets

Ref	Lines	Pixels	Milliseconds
Ref 1	0	0	0
Ref 2	0	0	0
Ref 3	0	0	0
Ref 4	0	0	0

The screenshot shows the Centra Workbench interface with the 'Vega' panel open for a 3B00.0A:00 unit. The left sidebar displays a tree view of the system components, including Vega7U.241, Vega7U.242, Vega4U.225, Vega4U.226, Vega2U.159, Vega2U.160, Vega7U.138, Vega7U-RR2-Main, Vega, Vega Monitoring, Mat1: Vega Video, Mat2: Vega Audio, --private-node--, Vega7U.139, S800, 2460_2461, Pyxis, Network(7000), Network(9000), and Network(A000). The 'Vega' panel is divided into three sections: External Reference Standards, Derived References, and Reference Offsets.

External Reference Standards

External Ref	Standard	Status
External Ref 1	None	Not Valid
External Ref 2	None	Not Valid
External Ref 3	None	Not Valid
External Ref 4	None	Not Valid

Audio Reference Control

Ref	Main	Back Up	Selected
Ref 1	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Ref 2	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Ref 3	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Ref 4	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Fail Action

☒ No Action
☐ Use Back Up

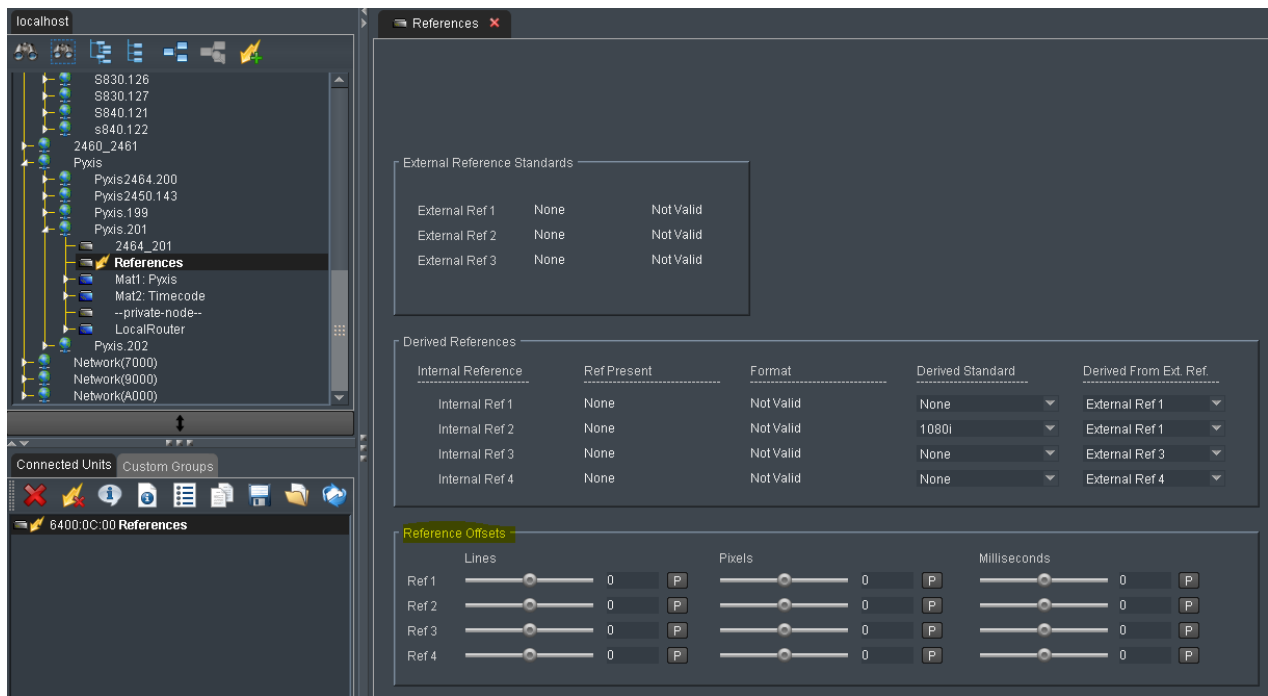
Derived References

Internal Reference	Ref Present	Format	Derived Standard	Derived From Ext. Ref.
Internal Ref 1	None	Not Valid	Bypass	External Ref 1
Internal Ref 2	None	Not Valid	Bypass	External Ref 2
Internal Ref 3	None	Not Valid	Bypass	External Ref 3
Internal Ref 4	None	Not Valid	Bypass	External Ref 4

Reference Offsets

Ref	Lines	Pixels	Milliseconds
Ref 1	0	0	0
Ref 2	0	0	0
Ref 3	0	0	0
Ref 4	0	0	0

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Temperatureconfig.xml File

This file (used to set Warning and Alarm Temperature thresholds) has not updated in this release. However, this current file will be installed as default with a Controller Rollcall upgrade.



WARNING: When updating the controller, the latest default within the software release package will be installed as default.

*If the controller has previously had the default values changed (for the installation), then the current file will need to be extracted from the Controller **before** the upgrade and the same or modified file will need to be reloaded to the Controller after the upgrade. See section 4 for instructions to do this.*

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2. Validation Information

The following outlines the Validation Test Set up, tools and coverage.



This is a Bug Fix release and has not been subjected to a full regression test validation.

PC applications & Tools

Product compatibility with Windows® Operating systems

	Win XP	Win 7 X86	Win 7 X64	Win 8 X86	Win 8.1 x86	Win10 X86	Win10 X64	
Centra Installation			✓				✓	
Workbench			✓				✓	
LiveRunner		5	✓	1	1	✓	6,7	
RulesService			2				2	
Centra Log Client			2				2	
OnLine Log Client			2				2	
Database Log Client			2				2	
Database Log Pump			2				2	
Aurora Database Importer			2				2	
Configuration Helper			2				2	
Database Exporter			3				3	
Pbak Deploy Tools			2				2	
Vega USB Key Creator			✓				✓	
S800 USB Key Creator			✓				✓	
DCCPValueSetter Tool								
RoleMapper								
RulesUpdater							2	
ScreenRecall								
Win32 (Controller)			✓				7	
Uninstaller			✓				✓	

Notes:

Unless Indicated (✓ = Tested) or Numeric Note, otherwise compatibility is untested

1 – Previously covered on Door PC running these Operating systems, but not formally released for use on these OS

2 – Checked for open/version reporting operation only

3 – Checked for Open & Export function - files not checked for accuracy

5 – Testing includes Door PC

6 – Previously tested on V5.2.0 Door PC Screen operation on S830 Router.

7 – Limited testing, connected to Workbench, LiveRunner and database

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Controllers

The following table indicates coverage of Controller Validation by Product

Controller	Product										IP Router
	S850	S840	S830	Vega 200	Vega 400	Vega 700	Pyxis	PC	IQ Frame	Icon Frame	
2462	x	x	x								
2463	1	1	1								
2464	1	1	1				1				
Vega Controller				1	1	1					
2460									1		
2461									1		
Win32								1			

Notes:

General – Greyed out options are not possible.

x - Not Tested

1 – Limited Validation test, Load and run up,

2 – Limited Validation test, active/idle negotiation only

3 – Limited test, Load and Run up on real hardware in simulated Router/Controller environment

Controller – RollCall

The following table indicates the coverage of RollCall operation by Product

RollCall Function	Product										IP Router
	S850	S840	S830	Vega 200	Vega 400	Vega 700	Pyxis	PC	IQ Frame	Icon Frame	
Upgrade	✓	✓	✓	✓	✓	✓	✓		✓		
Version Check	✓	✓	✓	✓	✓	✓	✓	✓	✓		
Menus	1	1	1								

Notes:

1 – Tested for other features on previous V5.2.0 release version.

VALIDATION RELEASE NOTE

Coverage Exceptions

S800 12G-SDI

Operation of 12G-SDI within S800 Routers has been subjected to limited operational testing, in previous versions of this package. Those solutions are operationally deployed to Customers.

S800 IP Card Support

This package supports S800 IP rear/Card combinations (cards FGAEY 5960 & FGAEY 5970). No Validation has been applied to these and currently these are not deployed to customers.

2450/2330/2462 Controllers

2450/2330/2462 Controllers are no longer in Manufacture. Testing for these has been limited to Run up only.

Databases

Databases for out of Production Routers and Controllers; e.g. Cygnus, 2450 etc have not been included in this release

VALIDATION RELEASE NOTE

3. Previous v5.4.x releases

V5.4.0

New Features

- **General Remote Control Protocol (SW-P-08) over IP OUT**
 - The controller can now use General Remote Protocol (SW-P-08) OUT over IP to connect to and control other devices (routers or other controllers). The implementation is similar to the serial version except that the IP version uses the 'Dual Controller Status Request, command 0x08' to instigate the connection, unlike the serial version which uses the 'Crosspoint Interrogate, command 0x01'. This means that the downstream remote device will need to support the 'Dual Controller Status Request' and respond correctly with a 'Dual Controller Status Response, command 0x09' for the two devices to connect to each other. Dual and single controller connections are supported.
- **Reference Control on Rollcall Templates**
 - The ability to change the reference controls, milliseconds, lines and pixels, from the Rollcall interface has been added. This is available on Sirius 800, Vega 100 and Pyxis routers.

Changes

- **Controller**
 - **RollCall Logging:** Controller now only sends sources and destinations relevant in the current configuration for each level to the Rollcall Log server.
 - **RollCall Log Field - REPLICATION_PARTNER_COMMS_STATE:** This field now reports the correct value.
 - **General Remote Control Protocol (SW-P-08) – Crosspoint Tieline Tally Response (command 113):** Memory leak fixed preventing a possible controller reset at some time. This could occur when using the SW-P-08 IN interface associated with the Router Device when an external client is using 'SW-P-08 Crosspoint Tieline Interrogate commands (command 112)'. Depending on the frequency the command was used, the controllers memory would gradually get used up and eventually causes the controller to stop responding correctly and finally reset.
 - **Protect Status on General Switcher Protocol (SW-P-02) IN Ports:** On SW-P-02 IN ports configured to use protects, the protect status no longer oscillates when multiple external levels are mapped onto a single level within the controller.
 - **Controller slow down/lock up when remote router is disconnected:** Bug fix to stop controller slow down/lock up when a remote router is disconnected. This could have occurred if the configuration contained a 'track routing' style port mapping associated with that router.
 - **Vega 100 AES I/O Module Firmware:** Firmware updated to version 8. This fixes a stability issue with the fans when the router has a full complement of AES modules fitted.
 - **Vega 100 Video I/O Module Firmware:** Firmware updated to version 127. This release contains support for HDMI SFPs.

VALIDATION RELEASE NOTE

Known Issues / Dependencies

- **Installation – Configuration Helper**
 - Observed using Windows® 10: This may report screen as being below minimum resolution even when it meets or exceeds this. Where the screen is known to exceed the minimum requirement, Operation is not compromised. *Workaround/Checkpoint: Setting of Screen resolution of text, apps etc on PC to values other than 100% may cause this issue.*
- **Workbench - Rules Engine**
 - Clicking the Device Explorer Refresh button can cause "An unhandled exception was thrown" error message, which will cause Workbench to stop working. *Workaround: There is no known workaround at this time.*
- **Controller Web Interface**
 - When using RollCall via Controller Web interface the JAVA security certificate is out of date. *Workaround: add Controller IP address to JAVA exception list.*
- **Vega 700 (7U) – FrameSync operation**
 - In Vega 700 (7U) frames operation of FrameSync in Input Only slots is possible only with Reference 1 (A). References 2 through 4 are not reliable. *Workaround, Place FrameSync cards in I/O slots for multi-reference use.*
- **Vega Audio V-Fade**
 - If upgrading from a package older than v4.6.1: For this to work the Vega Router must be fully upgraded to this package. If only the Controller upgrade is applied (e.g. Via USB stick) then the Audio V-fade may not work, depending on previously installed Firmware.
- **Vega 700 (7U) AES Audio**
 - If upgrading from a package older than v4.6.1: For this to work the Vega Router must be fully upgraded to this package. If only the Controller upgrade is applied (e.g. Via USB stick) then the AES Audio may not work, depending on previously installed Firmware.
- **Vega Audio Operation**
 - Audio processing may only be applied to signals of the same Frame Rate (i.e. You cannot mix 50Hz, 59.94Hz & 60Hz systems)
 - Controller upgrade – When upgrading the Active Controller, AES cards may lose the reference. To work around this, either the Router Reference (Ref 1) may be disconnected and re-applied, the AES card may be re-seated to effect a reset or the Whole Router may be reset.
 - **The Audio Router in Vega systems is Blocking.** This therefore limits the maximum number of Audio Channels that may be used. The Audio Crosspoint (Located on the Vega MADI card) is non-redundant. Inserting a second MADI card will not work.

VALIDATION RELEASE NOTE

- **References –** For audio routing and processing to occur there must be at least one video reference connected and the redundant reference control must be set to that reference input.
- RollCall Operation. RollCall does not have sufficient capability to control the size of the Audio Matrix. Control should be realised by one of the other Control interfaces.
- **S800 12G Operation**
 - To use 12G-SDI I/O cards (FGAEY 1840, FGAEY 1841 & FGAEY 1842) with this software package, Firmware package PA12500 or above must be used. Consult Engineering for the latest version(s).
 - The introduction of 12G-SDI to S800 series Routers adds new CATSII colour combinations via a new CATSII2 Virtual module. Refer to Engineering for the latest information.
- **Databases**
 - Deprecated Databases have been removed as from release v4.6.1. Refer to Customer support / Engineering if old Databases are required.
- **DPbakDeploy Tool**
 - This is a legacy tool still Branded with Pro-bel (a former company). The File:About link shows a splash screen on which the <http://www.pro-bel.com> web link is no longer owned by Grass Valley (formerly SAM), and links to a company that has no affiliation with Grass Valley. Grass Valley cannot provide any warranty to the suitability or content of this website and recommends that users do not visit it.

V5.4.1

New Features

- **None**, against V5.4.0.

Changes

- **Controller**
 - **Protect Status:** Fixes to prevent protect status in the LocalRouter Device from getting out of step with the protect status in the Router Device.
 - **'InterfaceState' Indication:** Change to stop upstream controller's interface state from getting stuck in the 'Connected' state when a downstream controller pair does a changeover. This could occur on dual router connections using DCCP Out or LocalRouter protocols.
 - **Web Browser:** File downloads made more reliable.
 - **Vega 100 Output Processing Module Firmware:** Firmware updated to version 12. This release fixes a stability issue on video output 6.
 - **Vega 100 MADI I/O Module Firmware:** Firmware updated to version 10. This release fixes a problem where channel 64 of each MADI input did not work correctly.

VALIDATION RELEASE NOTE

Known Issues / Dependencies

- **Installation – Configuration Helper**
 - Observed using Windows® 10: This may report screen as being below minimum resolution even when it meets or exceeds this. Where the screen is known to exceed the minimum requirement, Operation is not compromised. *Workaround/Checkpoint: Setting of Screen resolution of text, apps etc. on PC to values other than 100% may cause this issue.*
- **Workbench - Rules Engine**
 - Clicking the Device Explorer Refresh button can cause "An unhandled exception was thrown" error message, which will cause Workbench to stop working. *Workaround: There is no known workaround at this time.*
- **Controller Web Interface**
 - When using RollCall via Controller Web interface the JAVA security certificate is out of date. *Workaround: add Controller IP address to JAVA exception list.*
- **Vega 700 (7U) – FrameSync operation**
 - In Vega 700 (7U) frames operation of FrameSync in Input Only slots is possible only with Reference 1 (A). References 2 through 4 are not reliable. *Workaround, Place FrameSync cards in I/O slots for multi-reference use.*
- **Vega Audio V-Fade**
 - If upgrading from a package older than v4.6.1: For this to work the Vega Router must be fully upgraded to this package. If only the Controller upgrade is applied (e.g. Via USB stick) then the Audio V-fade may not work, depending on previously installed Firmware.
- **Vega 700 (7U) AES Audio**
 - If upgrading from a package older than v4.6.1: For this to work the Vega Router must be fully upgraded to this package. If only the Controller upgrade is applied (e.g. Via USB stick) then the AES Audio may not work, depending on previously installed Firmware.
- **Vega Audio Operation**
 - Audio processing may only be applied to signals of the same Frame Rate (i.e. You cannot mix 50Hz, 59.94Hz & 60Hz systems)
 - Controller upgrade – When upgrading the Active Controller, AES cards may lose the reference. To work around this, either the Router Reference (Ref 1) may be disconnected and re-applied, the AES card may be re-seated to effect a reset or the Whole Router may be reset.
 - **The Audio Router in Vega systems is Blocking.** This therefore limits the maximum number of Audio Channels that may be used. The Audio Crosspoint (Located on the Vega MADI card) is non-redundant. Inserting a second MADI card will not work.

VALIDATION RELEASE NOTE

- **References** – For audio routing and processing to occur there must be at least one video reference connected and the redundant reference control must be set to that reference input.
- RollCall Operation. RollCall does not have sufficient capability to control the size of the Audio Matrix. Control should be realised by one of the other Control interfaces.
- **S800 12G Operation**
 - To use 12G-SDI I/O cards (FGAEY 1840, FGAEY 1841 & FGAEY 1842) with this software package, Firmware package PA12500 or above must be used. Consult Engineering for the latest version(s).
 - The introduction of 12G-SDI to S800 series Routers adds new CATSII colour combinations via a new CATSII2 Virtual module. Refer to Engineering for the latest information.
- **Databases**
 - Deprecated Databases have been removed as from release v4.6.1. Refer to Customer support / Engineering if old Databases are required.
- **DPbakDeploy Tool**
 - This is a legacy tool still Branded with Pro-bel (a former company). The File:About link shows a splash screen on which the <http://www.pro-bel.com> web link is no longer owned by Grass Valley (formerly SAM), and links to a company that has no affiliation with Grass Valley. Grass Valley cannot provide any warranty to the suitability or content of this website and recommends that users do not visit it.

V5.4.2

New Features

- **None**, against V5.4.1.

Changes

- **Workbench Installer**
 - **EULA** updated to latest.
 - **PBakDeploy** utility updated to **V6.0.11.5605**.
 - **SQLDBTool** and **AutomationMCMSyncTool** applications have been removed from the installer.
- **Centra Workbench GUI Applications**
 - All applications within the package that have a GUI have been updated to have a consistent 'About' box to which a Patent Notice has been added as well as the EULA updated.
- **Controller**
 - **Web Interface:** This now has a Patent Notice and an EULA notice. Access to Rollcall has been removed from this interface.

VALIDATION RELEASE NOTE

Known Issues / Dependencies

- **Installation – Configuration Helper**
 - Observed using Windows® 10: This may report screen as being below minimum resolution even when it meets or exceeds this. Where the screen is known to exceed the minimum requirement, Operation is not compromised. *Workaround/Checkpoint: Setting of Screen resolution of text, apps etc on PC to values other than 100% may cause this issue.*
- **Workbench - Rules Engine**
 - Clicking the Device Explorer Refresh button can cause "An unhandled exception was thrown" error message, which will cause Workbench to stop working. *Workaround: There is no known workaround at this time.*
- **Vega 700 (7U) – FrameSync operation**
 - In Vega 700 (7U) frames operation of FrameSync in Input Only slots is possible only with Reference 1 (A). References 2 through 4 are not reliable. *Workaround, Place FrameSync cards in I/O slots for multi-reference use.*
- **Vega Audio V-Fade**
 - If upgrading from a package older than v4.6.1: For this to work the Vega Router must be fully upgraded to this package. If only the Controller upgrade is applied (e.g. Via USB stick) then the Audio V-fade may not work, depending on previously installed Firmware.
- **Vega 700 (7U) AES Audio**
 - If upgrading from a package older than v4.6.1: For this to work the Vega Router must be fully upgraded to this package. If only the Controller upgrade is applied (e.g. Via USB stick) then the AES Audio may not work, depending on previously installed Firmware.
- **Vega Audio Operation**
 - Audio processing may only be applied to signals of the same Frame Rate (i.e. You cannot mix 50Hz, 59.94Hz & 60Hz systems)
 - Controller upgrade – When upgrading the Active Controller, AES cards may lose the reference. To work around this, either the Router Reference (Ref 1) may be disconnected and re-applied, the AES card may be re-seated to effect a reset or the Whole Router may be reset.
 - **The Audio Router in Vega systems is Blocking.** This therefore limits the maximum number of Audio Channels that may be used. The Audio Crosspoint (Located on the Vega MADi card) is non-redundant. Inserting a second MADi card will not work.

VALIDATION RELEASE NOTE

- **References** – For audio routing and processing to occur there must be at least one video reference connected and the redundant reference control must be set to that reference input.
- RollCall Operation. RollCall does not have sufficient capability to control the size of the Audio Matrix. Control should be realised by one of the other Control interfaces.
- **S800 12G Operation**
 - To use 12G-SDI I/O cards (FGAEY 1840, FGAEY 1841 & FGAEY 1842) with this software package, Firmware package PA12500 or above must be used. Consult Engineering for the latest version(s).
 - The introduction of 12G-SDI to S800 series Routers adds new CATSII colour combinations via a new CATSII2 Virtual module. Refer to Engineering for the latest information.
- **Databases**
 - Deprecated Databases have been removed as from release v4.6.1. Refer to Customer support / Engineering if old Databases are required.

V5.4.3

New Features

- **None**, against V5.4.2.

Changes

- **LiveRunner Default Screens**
 - **Vega 100 series routers Input/Output Processing Screens** now correctly select the entered input/output on all sections of the screen.
- **Controller**
 - **Time:** Fixed excessive time stamp drift. Now less than 2 seconds a day.
 - **SW-P-02 OUT Interfaces:** Connection is no longer dropped if an unsupported command is received. IP interfaces now disconnect if remote device disconnects ungracefully.
 - **Redundant Crosspoint:** 'First failed dest' status now updates correctly. Correct crosspoints on 4K configured destination now moved to redundant crosspoint (only affects Sirius S840/S850).
 - **New generation router modules:** Support for FGAEY 55917, FGAEY 55926, FGAEY 55928, FGAEY 55938 and FGAEY 55949 modules added. They have the same functionality as the modules they replace.
 - **RollCall Interface:** Names on XY Panel buttons in RollCall control panel now populate correctly. Improved updates to other clients when one client makes a route change using the single level nodes.

VALIDATION RELEASE NOTE

Known Issues / Dependencies

- **Installation – Configuration Helper**
 - Observed using Windows® 10: This may report screen as being below minimum resolution even when it meets or exceeds this. Where the screen is known to exceed the minimum requirement, Operation is not compromised. *Workaround/Checkpoint: Setting of Screen resolution of text, apps etc on PC to values other than 100% may cause this issue.*
- **Workbench - Rules Engine**
 - Clicking the Device Explorer Refresh button can cause "An unhandled exception was thrown" error message, which will cause Workbench to stop working. *Workaround: There is no known workaround at this time.*
- **Vega 700 (7U) – FrameSync operation**
 - In Vega 700 (7U) frames operation of FrameSync in Input Only slots is possible only with Reference 1 (A). References 2 through 4 are not reliable. *Workaround, Place FrameSync cards in I/O slots for multi-reference use.*
- **Vega Audio V-Fade**
 - If upgrading from a package older than v4.6.1: For this to work the Vega Router must be fully upgraded to this package. If only the Controller upgrade is applied (e.g. Via USB stick) then the Audio V-fade may not work, depending on previously installed Firmware.
- **Vega 700 (7U) AES Audio**
 - If upgrading from a package older than v4.6.1: For this to work the Vega Router must be fully upgraded to this package. If only the Controller upgrade is applied (e.g. Via USB stick) then the AES Audio may not work, depending on previously installed Firmware.
- **Vega Audio Operation**
 - Audio processing may only be applied to signals of the same Frame Rate (i.e. You cannot mix 50Hz, 59.94Hz & 60Hz systems)
 - Controller upgrade – When upgrading the Active Controller, AES cards may lose the reference. To work around this, either the Router Reference (Ref 1) may be disconnected and re-applied, the AES card may be re-seated to effect a reset or the Whole Router may be reset.
 - **The Audio Router in Vega systems is Blocking.** This therefore limits the maximum number of Audio Channels that may be used. The Audio Crosspoint (Located on the Vega MAD1 card) is non-redundant. Inserting a second MAD1 card will not work.
 - **References –** For audio routing and processing to occur there must be at least one video reference connected and the redundant reference control must be set to that reference input.
 - RollCall Operation. RollCall does not have sufficient capability to control the size of the Audio Matrix. Control should be realised by one of the other Control interfaces.

VALIDATION RELEASE NOTE

○ S800 12G Operation

- To use 12G-SDI I/O cards (FGAEY 1840, FGAEY 1841 & FGAEY 1842) with this software package, Firmware package PA1250O or above must be used. Consult Engineering for the latest version(s).
- The introduction of 12G-SDI to S800 series Routers adds new CATSII colour combinations via a new CATSII2 Virtual module. Refer to Engineering for the latest information.

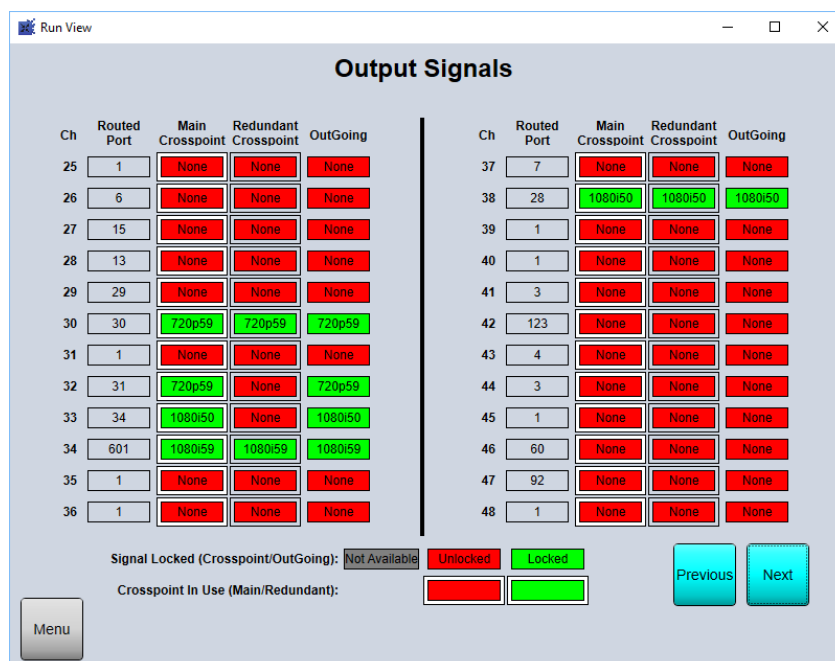
○ Databases

- Deprecated Databases have been removed as from release v4.6.1. Refer to Customer support / Engineering if old Databases are required.

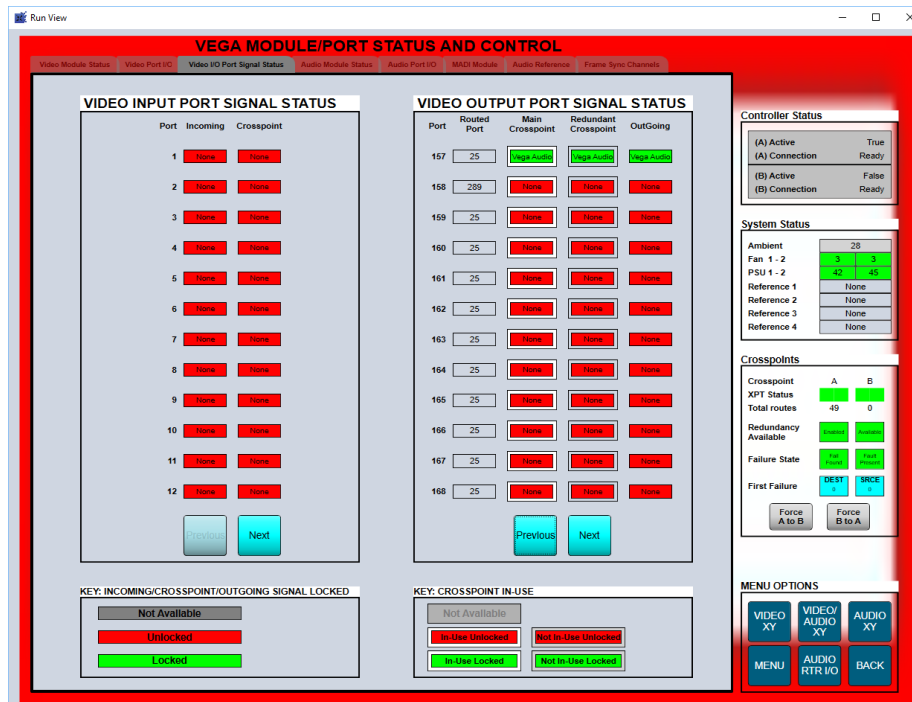
V5.4.4

New Features

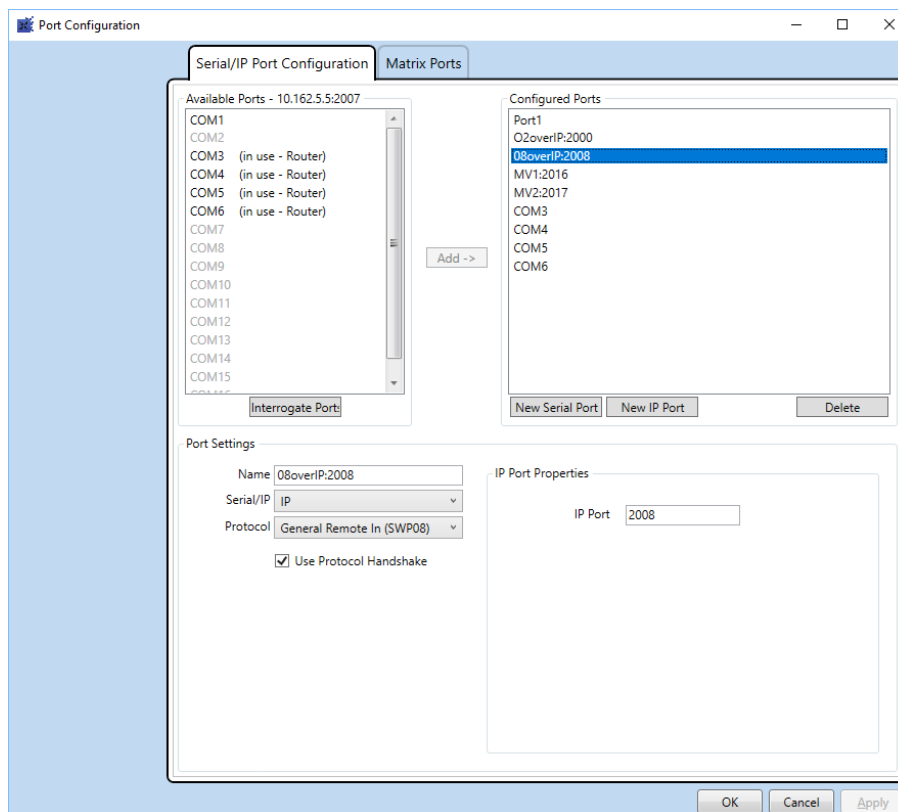
- Main and Redundant crosspoint signal standards on each output port exposed to the user. The default databases with LiveRunner Door PC and Vega 100 status screens have been updated to show these properties. The default S800 Door PC screen is shown below.



VALIDATION RELEASE NOTE



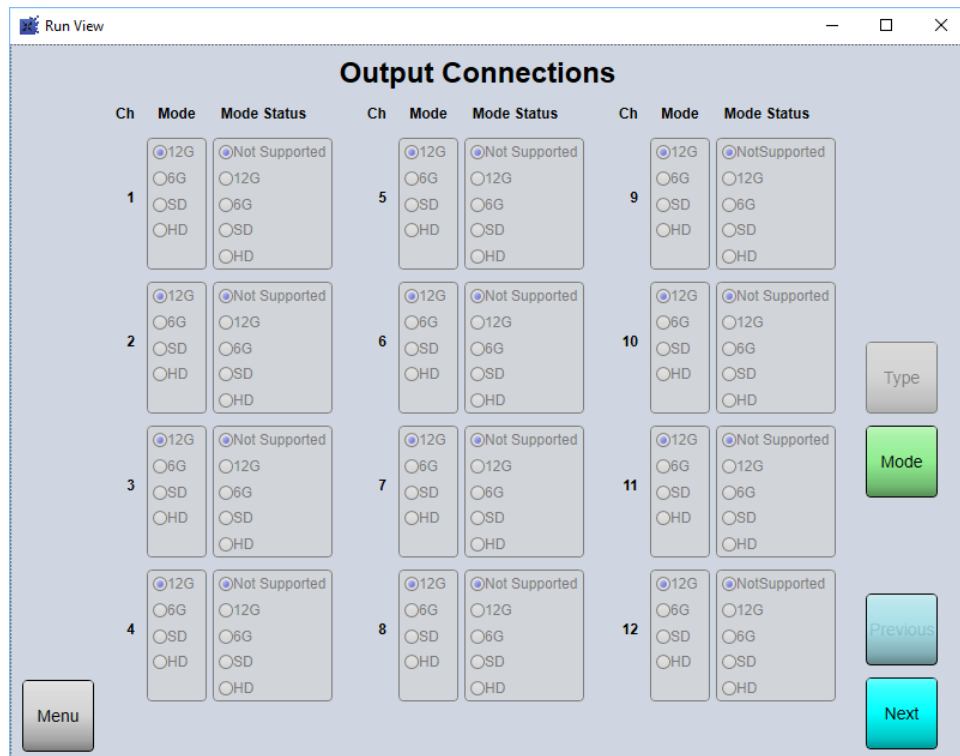
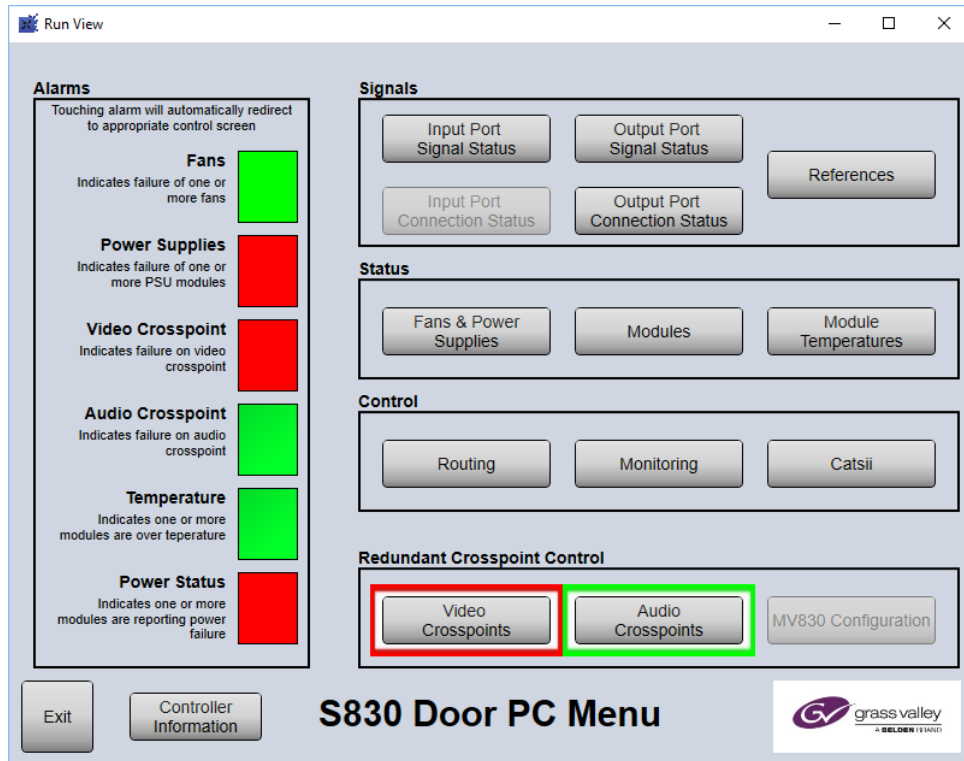
- General Remote Protocol (SW-P-08) IN ports (246x controllers only) now have the option to disable the need to use the low level protocol handshaking (ACKs/NAKs/retries). This can allow faster throughput of commands. A new configuration option (Use Protocol Handshake) has been added.



VALIDATION RELEASE NOTE

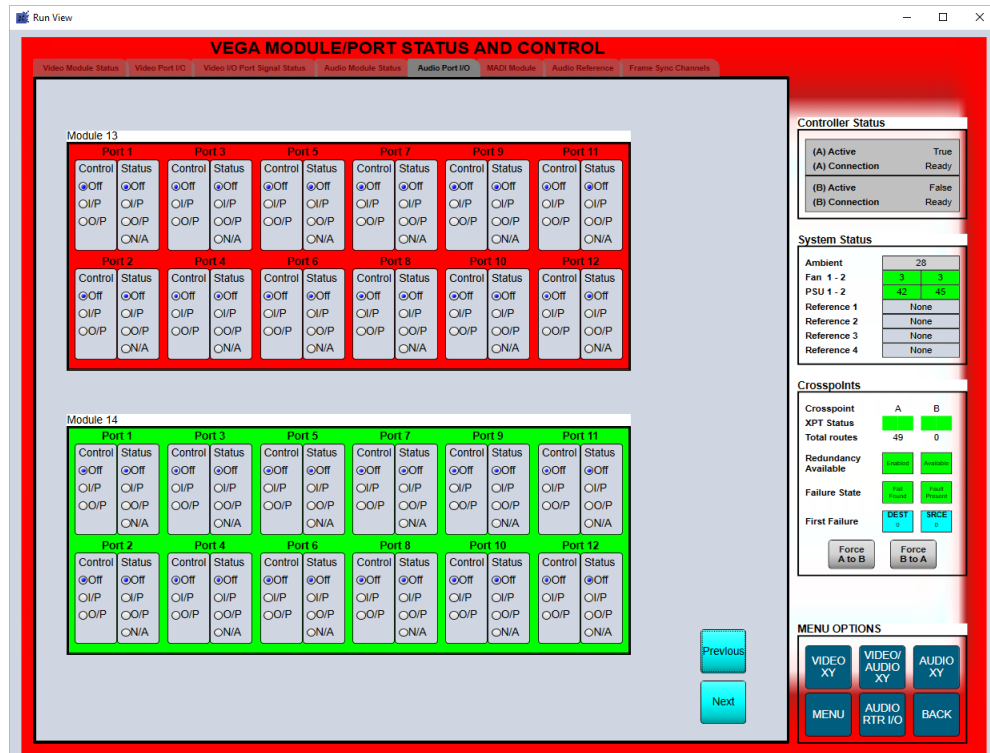
Changes

- **LiveRunner Default Screens**
 - **Default Sirius S800 Door PC screens** that allow access to configuring the connector types on input and output ports are no longer available (options are greyed out).



VALIDATION RELEASE NOTE

- **Vega 100 series routers configuration/status screens** have been updated to allow setting up the audio module I/O.



- **Controller**
 - **Vega 200/400:** Global Fan fail now reports correctly.
 - **S800 Global Fan Alarm:** This now reports correctly when only one fan controller module is fitted.
 - **RollCall:** If RollCall logging is enabled and a router module is removed the RollCall asynchronous message interface no longer locks up.
 - **General Remote Protocol (SW-P-08) IN Ports:** If a Protect Tally dump command is received and during the responses the response changes from a normal to an extended protect tally dump response, the extended protect tally dump responses now have the correct level number and destination count.
 - **Bulk Crosspoint switching:** The throughput of bulk crosspoint switching has been improved.
 - **Vega 100 Upgrade package:** A new video IO module binary is now included. This fixes a slow rate selection problem when the input standard changes on a route.

Known Issues / Dependencies

- **Installation – Configuration Helper**
 - Observed using Windows® 10: This may report screen as being below minimum resolution even when it meets or exceeds this. Where the screen is known to exceed the minimum requirement, Operation is not compromised. *Workaround/Checkpoint:* Setting of Screen resolution of text, apps etc on PC to values other than 100% may cause this issue.

VALIDATION RELEASE NOTE

- **Workbench - Rules Engine**
 - Clicking the Device Explorer Refresh button can cause “An unhandled exception was thrown” error message, which will cause Workbench to stop working.
Workaround: There is no known workaround at this time.
- **Vega 700 (7U) – FrameSync operation**
 - In Vega 700 (7U) frames operation of FrameSync in Input Only slots is possible only with Reference 1 (A). References 2 through 4 are not reliable. *Workaround, Place FrameSync cards in I/O slots for multi-reference use.*
- **Vega Audio V-Fade**
 - If upgrading from a package older than v4.6.1: For this to work the Vega Router must be fully upgraded to this package. If only the Controller upgrade is applied (e.g. Via USB stick) then the Audio V-fade may not work, depending on previously installed Firmware.
- **Vega 700 (7U) AES Audio**
 - If upgrading from a package older than v4.6.1: For this to work the Vega Router must be fully upgraded to this package. If only the Controller upgrade is applied (e.g. Via USB stick) then the AES Audio may not work, depending on previously installed Firmware.
- **Vega Audio Operation**
 - Audio processing may only be applied to signals of the same Frame Rate (i.e. You cannot mix 50Hz, 59.94Hz & 60Hz systems)
 - Controller upgrade – When upgrading the Active Controller, AES cards may lose the reference. To work around this, either the Router Reference (Ref 1) may be disconnected and re-applied, the AES card may be re-seated to effect a reset or the Whole Router may be reset.
 - **The Audio Router in Vega systems is Blocking.** This therefore limits the maximum number of Audio Channels that may be used. The Audio Crosspoint (Located on the Vega MADl card) is non-redundant. Inserting a second MADl card will not work.
 - **References –** For audio routing and processing to occur there must be at least one video reference connected and the redundant reference control must be set to that reference input.
 - RollCall Operation. RollCall does not have sufficient capability to control the size of the Audio Matrix. Control should be realised by one of the other Control interfaces.
- **S800 12G Operation**
 - To use 12G-SDI I/O cards (FGAEY 1840, FGAEY 1841 & FGAEY 1842) with this software package, Firmware package PA12500 or above must be used. Consult Engineering for the latest version(s).

VALIDATION RELEASE NOTE

- The introduction of 12G-SDI to S800 series Routers adds new CATSII colour combinations via a new CATSII2 Virtual module. Refer to Engineering for the latest information.
- **Databases**
 - Deprecated Databases have been removed as from release v4.6.1. Refer to Customer support / Engineering if old Databases are required.
- **Names update via Controller Web interface**
 - Internal system names may be updated via the Active Controller Web interface. Using this method avoids the need to “fail-over” the controllers. When using this method not all name sizes are replicated between the Active and Idle Controller. Refer to section 4 Further Information, sub-section Controller Names Update via Web interface.
- **Vega Controller Failover**
 - There can be a loss/disruption of Processing outputs when the Vega Controllers failover/Reset. As a workaround when changing names on the controller users should adopt the Web interface method (see section 4) to avoid the resultant failover/reset that would be associated when using Workbench to make the change.

VALIDATION RELEASE NOTE

4. Further Information

Vega Audio Routing Capabilities

The Vega Audio Router crosspoint capability is limited and provides a blocking architecture. The Vega Audio Crosspoint is co-located on the Vega MADl card, and supports non-redundant operation only.

Each Audio Capable card may produce one or more streams of Audio, as per the following table. All streams carry 48 Mono channels.

Card	Streams From Card	Streams To Card	Notes
Video I/O	None	None	
AES Audio I/O	One	One	
Video Input Processing I9PR	Three	Three	1
Video Output Processing	Three	Three	1
MADI/Crosspoint	Twelve	Twelve	2

Notes

[1] Video Channels 1-3 are in Audio stream 1, 4-6 in Audio Stream 2 and 7-9 are in Stream 3. It is not necessary to use all streams to/From these cards.

[2] MADl Audio is independent of the 12-stream limitation. Thus, it is possible to Route from a MADl input to Output without using the Stream limitation.

The Audio Crosspoint functions may accept a maximum of 12 streams from Input cards and may generate a maximum of 12 Streams to feed to Output cards and Input on I9PR processing cards.

NOTE: For audio routing and processing to occur there must be at least one video reference connected and the redundant reference control must be set to that reference input.

For Full details please consult with Grass Valley Customer Support / Router Engineering.

VALIDATION RELEASE NOTE

Temperature Warnings/Alarms System

From Version v5.3.x a new system of Temperature Warning / Alarm threshold setting has been introduced. This system is based upon a 'Temperatureconfig.xml' file which is loaded to the controller. This new system negates the necessity to manually edit the Temperature thresholds in Workbench.

The 'Temperatureconfig.xml' file covers the following modules

		Temperature Thresholds °C	
Router Type	Module Type	Warning	Alarm
Vega 200, 400, 700	I9FS	65	70
	I9PR	65	70
	O9PR	65	70
	6MADI	65	70
	IO6FA	65	70
	IO12E	65	70
	IO24A	65	70
	4BUF	65	70
	REFCM	65	70
	CTLFA	65	70
	CATSA	65	70
	X144A	102	107
	X288A	102	107
Pyxis	09200	50	60
	09201	50	60
	09202	50	60
	09203	50	60
	09204	50	60
	09205	50	60
	09206	50	60
	09207	50	60
	09208	50	60
	09305	50	60
	09400	50	60
	09600	50	60
	09601	50	60
	09602	50	60
S800	02452	50	60
	02453	50	60
	02454	50	60
	02455	50	60
	02456	50	60
	02457	50	60
	02458	50	60
	04915	65	75
	04925	65	75
	04929	65	75
	05901	65	75
	05902	50	60

VALIDATION RELEASE NOTE

Router Type	Module Type	Temperature Thresholds °C	
		Warning	Alarm
	05903	50	60
	05905	50	60
	05913	50	60
	05914	50	60
	05915	65	75
	05916	50	60
	05917 / 55917	50	60
	05919 / 55919	65	75
	05923	50	60
	05924	50	60
	05925	65	75
	05926 / 55926	50	60
	05928 / 55928	50	60
	05937	50	60
	05938 / 55938	50	60
	05930	50	60
	05931	50	60
	05932	50	60
	05934	75	85
	05939	50	60
	05949 / 55949	65	75
	05960	80	85
	05970	80	85
	2452	50	60
	2453	50	60
	2454	50	60
	2455	50	60
	2456	50	60
	2457	50	60
	2458	50	60
	MV-A	75	85
	MV-B	75	85
	CATS1	50	60
	CATS2	50	60
	REFS	50	60



It is possible to extract via ftp this 'Temperatureconfig.xml' file from the controller, to edit it and to replace it. However, it is not recommended to do this. Future versions of the software may update this file.

Temperatureconfig.xml file download/upload

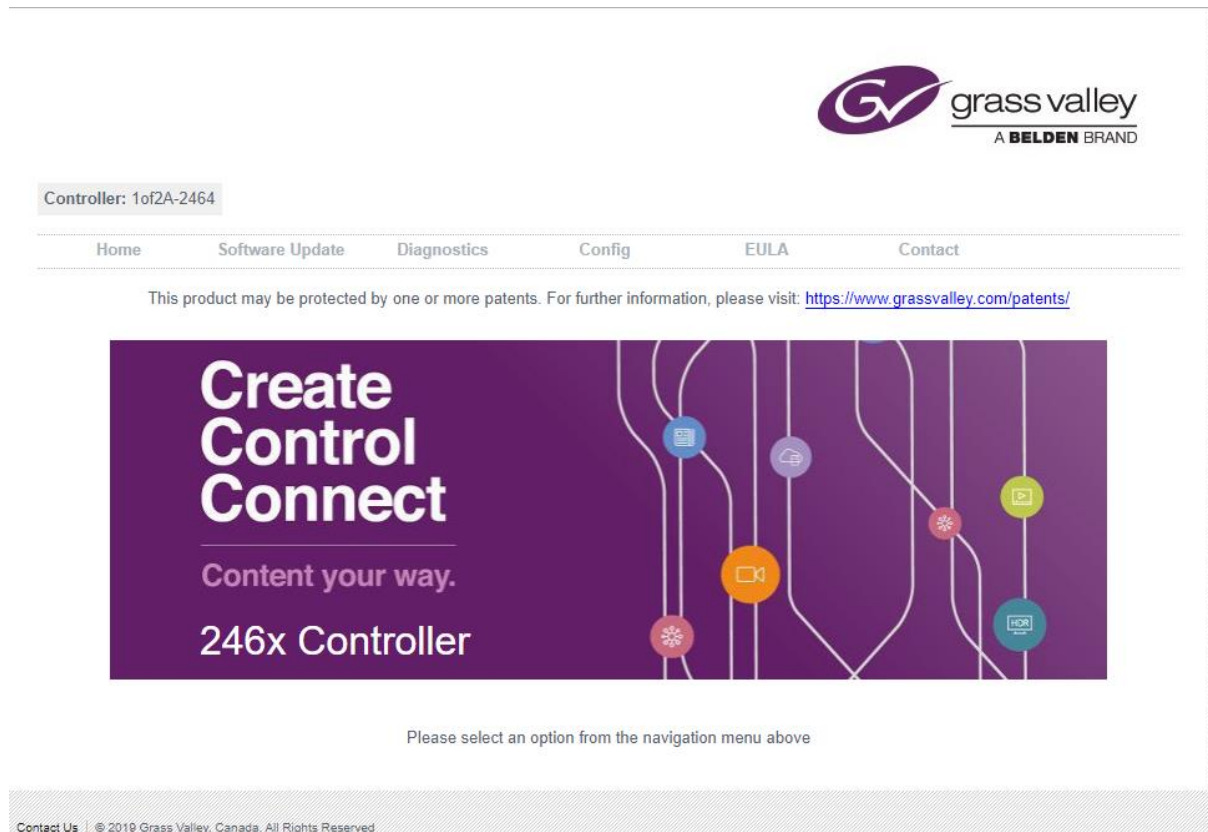
The Temperatureconfig.xml file may be downloaded/uploaded to the controller by ftp or via USB stick (bootable with actions.txt control).

VALIDATION RELEASE NOTE

Controller Names Update via Web interface

Internal system names may be updated using the controller web interface. Updates should be applied to the active controller and will be replicated to the Idle controller (except for 4-char and 16-char names, see below).

To access this facility connect to the Controllers Web pages at the controller IP address using a Web browser. Access to Names update is made via the Home Page → Config option.



Controller Home Page

Config page

The Config page offers a number of options for download of current names and import. To use this method to change the names the following process should be used

- Select the sizes of the names to be exported. It is recommended to only export those name sizes of interest.
- Modify the names using a CSV file editor e.g. Microsoft Excel (paying attention to the notes below)
- Import the modified names file.

This process is explained in further detail below

VALIDATION RELEASE NOTE

Controller: 1of2A-2464

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Config Options

Export the controller's source and destination names to a CSV file which can be edited offline before being imported back again

- ☒ 4 character names
- ☒ 8 character names
- ☒ 12 character names
- ☒ 16 character names
- ☒ 32 character names

All Matrices and Levels ▼

Export

Import controller's source and destination names from a CSV file (initially created from the above Export function) to overwrite the existing names in the controller

Choose File No file chosen

Test

Upload the names file and check which names have been changed

Import

Upload and commit the new names to persistent memory

Persistence options:

Info

Show summary information of persistence data files.

Export

Export all persistence files as a single zip file.

List

List all persistence data in a single text file which is downloaded in a zip file.

Reset

Reset all parameters stored in the persistence data to their defaults, only on an active controller. Changes will have immediate effect on live parameters and be replicated to an idle controller in a pair. MUN updates will be performed for any AHP modules currently installed.

Delete

Delete all persistence data and reboot the controller. Note that if this controller is paired with another, persistence data will be replicated from that controller to this one after the reboot.

VALIDATION RELEASE NOTE

Choose File

No file chosen

Import All

Upload either a zip file or an individual persistence file or a "List" file (extracted from the above List function) to add to or replace the existing persistence data in an active controller. Any data in existing parameters is replaced with the new data. Existing parameters are not reset if they are not found in the import file(s). Changes will have immediate effect on live parameters and be replicated to an idle controller in a pair. Setting a parameter to its default for the current configuration will remove it from persistence.

Import New

Upload either a zip file or an individual persistence file or a "List" file (extracted from the above List function) to add to the existing persistence data in an active controller. Any data in existing parameters is left unchanged. Only new parameters are imported. Changes will have immediate effect on live parameters and be replicated to an idle controller in a pair. Setting a parameter to its default for the current configuration will remove it from persistence.

Replace

Upload either a zip file or an individual persistence file or a "List" file (extracted from the above List function) to replace existing persistence data in an active controller.

- If a zip file is uploaded, containing either a "List" file or persistence files, all other persistence data of any type is reset afterwards. The zip file can only contain a single "List" file, or persistence files (no more than one of each type), but not a mixture.
- If a "List" file is uploaded directly, all other persistence data of any type is reset afterwards (just as above).
- If a persistence file is uploaded directly, all other persistence data only for that data type is reset afterwards.

Changes will have immediate effect on live parameters and be replicated to an idle controller in a pair. Setting a parameter to its default for the current configuration will remove it from persistence.

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Exporting Source & Destination Names

Export the controller's source and destination names to a CSV file which can be edited offline before being imported back again

☒ 4 character names
☒ 8 character names
☒ 12 character names
☒ 16 character names
☒ 32 character names

All Matrices and Levels

Export

A user may export the Source and Destination names from the Controller using the following selection options. Users should pick from the names list e.g. 4, 8, 12 character etc., and also for which Matrix they require. Once done clicking on the "Export" button will download the names in ".csv" file format.

Modifying names using Microsoft Excel

Direct loading of a .csv file into Microsoft Excel will remove leading zeros from names, for example a 4-character name that is "0001" will be changed to just "1". When re-imported this will be seen as a change, and thus the number of detected changes may be larger than the expected number.

To avoid this situation use Microsoft Excel using the following process

- Export the current settings
- Open Microsoft Excel with a blank spreadsheet
- Use the "From Text" import option (found on the Data Ribbon in Excel 2013)
- Select the current setting .csv file
- Under the Text Import Wizard dialog box make sure the "Delimited" radio button is selected and proceed to next step
- Under delimiters make sure the only check box selected is "comma" and select Next

VALIDATION RELEASE NOTE

- At the next page select Finish
- At the Import Data dialog make sure the located cell is A1 and click OK to import the data
- Edit the Data as appropriate
- When complete make a file save using the Save As option, giving the file with a file extension /type of .csv.
- The file can now be re-imported without loss of fidelity.

Importing Source & Destination Names

Import controller's source and destination names from a CSV file (initially created from the above Export function) to overwrite the existing names in the controller

Choose File	No file chosen
Test	Upload the names file and check which names have been changed
Import	Upload and commit the new names to persistent memory

A user may import a set of names to a controller. Before uploading the user needs to choose a file of type .csv format. Once chosen the filename will appear next to the "Choose File" button. There are then two options "Test" and "Import".

The "Test" option allows to check if there are name changes in the file to be uploaded.

The "Import" option is immediate. If the number of changes is less than 100 these will be displayed below the Choose File box, however if the number is greater than 100 the just "OK – xxx names changes" will be displayed where xxx is the number of changes detected.

Import controller's source and destination names from a CSV file (initially created from the above Export function) to overwrite the existing names in the controller

Choose File	Book1.csv
Test	Upload the names file and check which names have been changed
Import	Upload and commit the new names to persistent memory

M1L1 Source8 number 1 changed from V1 to Video1
OK - 1 name change(s)

4-Char and 16-Char import and replication

By default (in this and previous versions of software) 4-Character and 16-Character names are not replicated from the Active to Idle controller. To work-around this limitation the following process should be used.

- Import the names file to the Active Controller (as above)
- Access the Idle controller Web config page

VALIDATION RELEASE NOTE

- Import **the same** names file as imported to the Active Controller to the Idle Controller (as above)

Note: Since these 4-Character and 16-character names are not replicated or persisted, if a Controller config "Push" operation from Workbench or any sort of reset operation is performed then any settings made via this Web interface method will be lost.