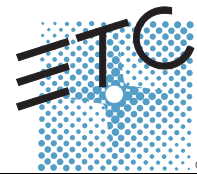


ETC® Release Note

Eos®/ Ion™ Lighting Control Family Software



Product Line:

Eos Lighting Control Family

Description:

Version 1.4.3 software

Eos Lighting Control Family Software Components

Eos/Ion Console Main Application	1.4.3.9.0.15
ECU	1.4.2.9.0.24
XPe (Eos)	1.4.2.9.0.2
XPe (Ion, RPU)	1.4.2.9.0.2
XPe (RVI)	1.4.0.9.0.3
XPe (Ion RPU)	1.4.2.9.0.2
ACN Libraries	1.0.3.8.1.92
ETCNet2	4.0.17.9.0.1
AppMux	4.0.7.9.0.0
Network Common	1.0.2.9.0.47
Network IPCFG	1.0.1.9.0.41
Carallon Library	4.4.0.9.0.8

Engineering Change Master (ECM):

500004791

Effective Date:

December 5, 2008

Purpose

The purpose of this release is to correct a number of previously found issues. This release delivers enhanced reliability and is highly recommended for all Eos and Ion installations. Version 1.4.3 also provides software support for networked Radio Focus Remote (RFR) operation. This functionality is not available until revised firmware for the RFR is released.

For any questions relating to the contents of this release or the behavior of this software, please contact ETC Technical Services at the office nearest to you. A list of ETC offices is given at the bottom of this page.

Availability

You may obtain this release of software by downloading it from the Downloads section of the ETC website, www.etcconnect.com.



Note:

There are hard key cap changes associated with the v1.4 software release. If you are upgrading from 1.3.1 to 1.4.3, you will need to obtain these keycaps. To obtain the new hard key caps, and a key cap puller, you will need to request a software upgrade kit (which includes the key caps) from the Eos/Ion download page. You can do this when you download the software. You can also request a kit by contacting ETC Technical Services at the appropriate office indicated at the bottom of this page.

Instructions for changing the key caps are included later in this document.

It is recommended that you check the ETC website for the most up-to-date software (both for your console and offline software) to accompany this release.



Corporate Headquarters ■ 3031 Pleasant View Road, P.O. Box 620979, Middleton, Wisconsin 53562-0979 USA ■ Tel +608 831 4116 ■ Fax +608 836 1736
London, UK ■ Unit 26-28, Victoria Industrial Estate, Victoria Road, London W3 6UU, UK ■ Tel +44 (0)20 8896 1000 ■ Fax +44 (0)20 8896 2000
Rome, IT ■ Via Ennio Quirino Visconti, 11, 00193 Rome, Italy ■ Tel +39 (06) 32 111 683 ■ Fax +44 (0) 20 8752 8486
Holzkirchen, DE ■ Ohmstrasse 3, 83607 Holzkirchen, Germany ■ Tel +49 (80 24) 47 00-0 ■ Fax +49 (80 24) 47 00-3 00
Hong Kong ■ Rm 1801, 18/F, Tower I Phase 1 Enterprise Square, 9 Sheung Yuet Road, Kowloon Bay, Kowloon, Hong Kong ■ Tel +852 2799 1220 ■ Fax +852 2799 9325
Service: (Americas) service@etcconnect.com ■ (UK) service@etcconnect.com ■ (DE) techserv-hoki@etcconnect.com ■ (Asia) service@etcasia.com
Web: www.etcconnect.com ■ OSF 4.1.9.1 ■ Copyright © 2008 ETC. All Rights Reserved. ■ Product information and specifications subject to change.
© 4250M1100-1.4.3 ■ Rev A ■ Released 12/2008 ■ ETC intends this document to be provided in its entirety.

ETC Release Note:

Eos/lon Software v1.4.3

Documentation

The current documentation for Eos is the Eos v1.4 Operations Manual Revision B. The current documentation for lon is the lon v1.4 Operations Manual Revision B. Please keep this release note with your user manual for descriptions of the newest features, changes and bug fixes in Eos/lon. ETC manuals can be downloaded free of charge from ETC's website at www.etcconnect.com. They are available in portable document format (.pdf), and viewable with Adobe® Acrobat® Reader™ v6.x and later.

Compatibility

ACN

The software is compatible with all Net3™ products that meet or exceed ESTA ratified standard BSR E1.17 2006 Architecture for Control Networks (ACN) and the current draft specification of BSR E1.31 Streaming ACN (sACN).



CAUTION:

Eos show files are forward compatible to v1.4.x. However, v1.4.x show files are not backward compatible to v1.3.x and previous. Once you load a v1.3.x show file and then save it under v1.4.x software, you may lose some show data if you try to revert the show file to v1.3.x software.



WARNING:

*Eos show files created in **versions prior to v1.2.0** will have some compatibility issues when upgrading to v1.2.0 or later. Show file data (palettes, cues...) pertaining to moving lights and their beam and some color information will be lost in the upgrade. This is due to the work that's been done to improve the fixture library. Conventional lights/shows are not affected.*

ETCNet2 Network Compatibility

This release is compatible for the exchange of EDMX and/or configuration information with the following ETC hardware and software:

- **Eos®/lon™ Lighting Control System** - Version 1.0.0 and later software.
- **Congo™/Congo jr** - Version 4.0.0 and later software.
- **Emphasis® Control System** - Version 1.4.0 and later software.
- **Obsession® II Control System** - Version 5.1.x software.
- **Network Configuration Editor (NCE)** - Version 4.x.x and later software.
- **Net3 Four Port Gateway (ETCNet2 mode)** - Version 4.0.0 and later software
- **Net3 Show Control Gateway** - Version 1.0.0 and later software
- **Net3 I/O Gateway** - Version 1.0.0 and later software
- **ETCNet2 DMX Node** - Version 4.0.6 and later software.
- **ETCNet2 Two Port Node** - Version 4.1.4 and later software.
- **Unison®** - Version 1.9.x software.

ETC Release Note:

Eos/Ion Software v1.4.3

Incompatibility

Eos/Ion v1.4.3 is incompatible with hardware and software running ETCNet2 software prior to those listed above.



CAUTION:

Until your ETCNet2 nodes and Net3 gateways are updated to the versions listed below by NCE v4.2 or later, you must turn off/disable the (DHCP) Address Server in the Eos Configuration Utility (ECU). In the ECU: Settings>Network>Net3 Settings. Make sure "Enable Address Server" is unchecked.

Software Versions that are compatible with DHCP servers:

ETCNet2 DMX Node (4.0.6)

ETCNet2 Two Port Node (v4.1.4)

ETCNet2 Video Node (v4.0.2)

Net3 Four Port Gateway (ETCNet2 mode v4.0.3 or later)

Eos/Ion v1.4.3 is incompatible with hardware and software running ETCNet1

Key Enhancements in v1.4.3

- Bug fixes.
- Adds support for networked RFR. (This functionality is not available until revised firmware for the RFR is released.)

Key Enhancements in v1.4.2

- Ion Remote Processor Unit (RPU) - Software supports the Ion RPU.
- Artnet and Avab UDP Support - In the Eos/Ion shell, when these two protocols are enabled; they will be an option for devices in Patch. The default protocols are still ETCNet2 and Net3.
- I/O Gateway Support - The I/O Gateway, supporting digital inputs, relay outputs, and RS-232 Serial Protocol, is now supported.
- Real Time Clock (RTC) - Real Time Clock programming is supported.
- Default 1 to 1 Channel to Submaster Mapping for Ion - The 300 submasters will then be automatically mapped to playback faders. If you are using multiple cue lists, you will need to release some or all of these submasters to enable auto playback functions. Please note that this functionality will be modified in version 1.5.
- Revisions to the "Off" function - Off + Release will return control to the master fader (similar to release), but will leave the cue list loaded on the fader, at its current cue.
- Replace Function Added to Patch - When working in Patch by Channel, by default, the assumption is made that new addresses are to be added to existing addresses (automatically creating new parts for a channel). To replace an address or a channel (or channel part), the **{Replace}** softkey is used in place of **[At]** or **[Address]**.
- Record Rem Dim - It is possible to record a cue using a selective store, and by appending the Rem Dim instruction, force any values from the previous cue that would otherwise track into zero. **[channel selection] [Record] <Cue> [n] [Rem Dim] [Enter]**.
- User Level Undo - With multiple users on a system, **[Undo]** accesses only the commands initiated by the associated user.
- Removed Restrictions on Device Connections - Ion and Ion RPU can now backup an Eos system, Eos can be a client on an Ion network.
- Update Library Feature Added - By default, if the library information has changed between builds, old show files will open with the old version of the library. **{Update Library}** will load the newest version of the library to a show file saved under an earlier software version.
- Master Fader collected for Rate control by default. Rate override is now maintained until released, by pressing the **[Rate]** key.
- **[Clear] + [Tab]** closes all open tabs (Eos only), except Live and Playback Status.

ETC Release Note:

Eos/Ion Software v1.4.3

- **[Record Target] [n] [thru] [Enter]** – selects the entire list, starting at “n”.
- Range channel selection for Lamp Controls.
- Copy to and Recall from Live.
- **[Trace] [Trace]** to add previously inactive lights to an update command.
- Channel to Channel Recall From.
- Marked to and Mark from added to Channel About.

Key Enhancements in v1.4.1

- Bug fixes.



Note:

When show files written in software versions prior to v1.4.0 are opened in v1.4.0, assert flags will be displayed with all blocked cues, channels, and/or parameters. This maintains the exact editing/playback behavior exhibited before this change to block behavior.

Any new blocks added to the show file in v1.4.0 software will not auto-generate the assert flags.

Installation Instructions

New Eos or Ion consoles will ship with the current version of software loaded and you do not need to update the software in the console to begin using it.



Note:

All processors on the Eos/Ion network must be running the same version of software. Therefore, you must also update all RVIs and RPU's when you update your console.

Software Installation

To update your console or offline software to the v1.4.3 release, you will need to download it from the ETC website, load it to a USB device, and then transfer it to your console from the USB port using the Eos Configuration Utility (a.k.a. Eos Shell).



Note:

During installation, the following error message may appear:

“Installshield could not shut down AppMux.”

If this message appears, click {OK} and allow the installation to complete. The error will then be resolved when the system completes the reboot process.

To update your console to v1.4.3:

- Step 1: Download the software from the ETC website (www.etcconnect.com - click “Downloads” at the top of the page) and transfer it to a USB memory device.
- Step 2: Insert the USB device containing the software into an available USB port on the console.
- Step 3: Open the Eos Configuration Utility (ECU - Also known as the Eos Shell) either by exiting the Eos/Ion software (**Browser>Exit Eos**) or by starting up Eos and clicking on the **{Launching in...}** button. The ECU screen will open.
- Step 4: Click on the **{Settings}** button. The settings window will open.
- Step 5: Click on the **{General}** button inside of the settings window. The general settings will appear in the window.
- Step 6: Scroll down in the window until the **{Software Update...}** button is visible. Click this button.
 - This scans the root directory of all available drives (USB drives) for valid installers.

ETC Release Note:

Eos/Ion Software v1.4.3

- Step 7: When the “Update Software” dialog pops up, click on **Eos_Console_v1.4.3.9.0.15**, then click **{Install}**.
- This launches a standard Installshield application to direct you through the install.
- Step 8: Click **{Next}** to start the installation process. A dialog box will open warning of losing show data if not saved to disk.
- Step 9: Click **{Yes}** to continue. The console will install the software.
- Step 10: Click **{Finish}** to complete the installation process. The console will automatically reboot and then enter the ECU welcome screen.

Offline Software

The offline software installers now include the drivers for ETC USB devices (such as fader wings). When you first connect a USB device to your Windows® XP or Vista® PC, the “Found New Hardware” wizard will appear and prompt you to install the drivers. Select the appropriate option based on your operating system (see below).

XP - Select the “Install the software automatically (Recommended)” option. This should appear in the second screen of the XP “Found New Hardware” wizard.

Vista - Select the “Locate and install driver software (Recommended)” option. This should be the first screen of the Vista “Found New Hardware” wizard.

After completing the wizard procedure, the USB device should be operational with your PC.

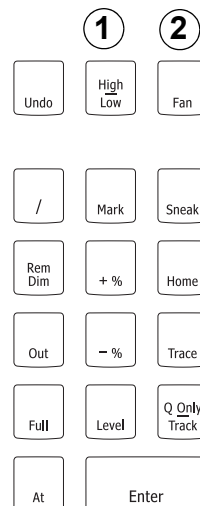
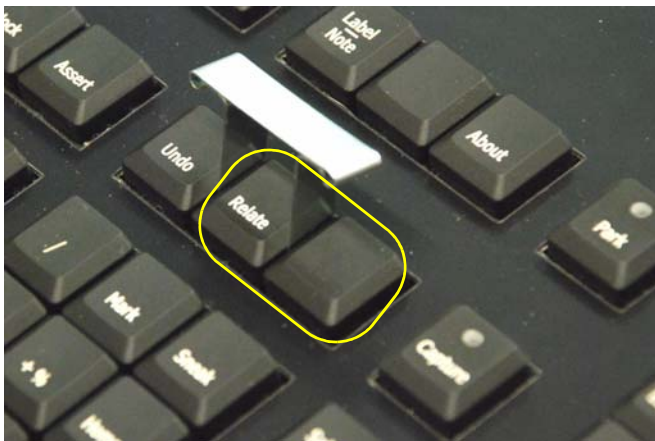
Key-Cap Update

From Eos v1.3.1 to v1.4.x, two keys have been re-mapped and require that you change the physical keys on the console keyboard to match the software.

- Step 1: Use the key puller provided to remove the two keys shown below in the order indicated below.
- Step 2: Place the keys in their new correct locations and press them down firmly.
- “High/Low” replaces “Relate and “Fan” replaces the blank key.

Below is the correct orientation to use
the key puller for these keys.
Remove "Relate" and the adjacent
blank key.

Remove the keys in the order shown by the numbers next to each location.



This is the correct final position for the keys.
 "High/Low" replaces "Relate".
 "Fan" replaces blank.

Issues Corrected in v1.4.3

- 4640 [Chan 1 Recall From Effect 1] exits Eos
 - 4631 creating new cue in blind, with About display open, exits Eos
 - 4628 Patch: [Address 1 Thru -], exits Eos
 - 4615 Grandmaster ignored after deleting chan 1 in patch
 - 4614 Crash possible when deleting a part in patch with no type assigned.
 - 4613 Eos console – Grandmaster position is not remembered on boot.
 - 4609 Sliders at a level, Backup or Client consoles are not pot matching when they connect to an RPU (master).
 - 4571 Possible crash when client connects to master
 - 4565 Copying Palettes and Presets is changing record target references
 - 4558 Parameters that were previously blocked can only mark in the previous cue
 - 4554 On Ion, deleted subs reappear after a restart
 - 4541 [Highlight RemDim] should not remdim channels owned by subs or captured channels
 - 4531 [Cue 1/ MoveTo Cue 2/] does not save moved cuelist in showfile
 - 4527 Console forced into Offline Mode after first run of Eos following a re-image
 - Workaround:** Exit and start Eos again
 - 4523 In Patch, Channel 1 Move To Chan 1 causes the console to lockup.
 - 4489 VL 3500 not switching DMX output when changing gobo modes
-

Known Issues Remaining in v1.4.3

- 4654 [Make absolute] not working across range of cues in blind
- 4642 Changes made in fixture editor not updated in Cues, Palettes, Presets
- Workaround:** Edit the fixture before patching the copy OR Modify the patch in a different way after editing the fixture
- 4603 Macro that changes user Id, puts user in odd Learn state.
- 4598 RFR requires reboot after Eos power cycle.
- 4597 Absolute effects always fading in HS space, even if all steps are CMY
- 4595 Eos/Ion offline windows not repositioned correctly when going from 2 monitors down to 1.
- 4585 Can't close virtual direct selects if opened after removing a button module
- 4584 Undefined faders should have blank bump/assert/go/stop buttons
- 4570 effects [Stop and Hold] not available w/o duration
- 4552 [Next/Last] after completed command line is reposting last command
- 4545 Shutter dependencies not selectively recording consistently
- 4540 When 'Serial Enable' is disabled in Show Settings, EOS still Subscribes with IO Gateway
- Workaround:** Set 'Serial Enable' to Enabled AND Set Group ID to an unused Group number, then restart the application.
- 4537 Changing the language and keyboard to François shows the shell in Deutsch language
- 4525 Running a macro with <Setup> in it causes Record Target keys to go into blind mode.
- Workaround:** Press the "Blind" key will exit you out of this mode. (You don't have to restart the application.)
- 4520 Palette Labels applied from Live or Palette Blind are not undoable.
- 4517 Applying a discrete time to a channel cannot be undone.
- 4516 [Recall From] and [Group Cue] ignore the part # if you specify one
- 4515 Ion, cannot record or edit [Swap] into a macro.
- 4500 When in fine mode, encoder displays do not update when they cross into new output ranges
- 4499 Ion only outputs local DMX when it is a Primary Master
- 4494 SHELL - entering an invalid IP address disables networking after reboot
- 4488 Stop/Back not changing effect attributes (rate, size, etc)
- 4483 Undoing a copy to parameter not undoing entire range
- 4482 Mac 2K Wash 16B Dimmer missing default for DMX channel 2
- Workaround:** Park the missing defaults
- 4479 NPs and Channel check functions not accessible in Macro Editor.
- 4478 Param table displays deleted channels the same as patched channels.
- 4440 [Chan 1 Make Absolute CueOnly] not working

Known Issues Remaining in v1.4.3 [Continued]

- 4425 [Chan 1 at Full Channel Check] Next undoing manual encoder changes
- 4424 Multi-console, using Undo in Patch, the Redo button is only displayed for about 1 second.
- 4422 Changes to serial settings on Eos require a restart
- 4421 PSD displays previous cue as fading when you delete the fading cue
- 4419 Addresses of patched custom fixtures aren't updated when fixtures DMX is edited.
- 4415 With multiple cuelists, [Live] while already in live is not changing to active cue list
- 4414 A zero-parameter fixture can be created
- 4402 Can still put "invisible" parameters on the command line by pressing encoders on lon
- 4396 Channel Tombstone view doesn't page from last to first channel
- 4389 After removing Params when Expanded, they are only removed from the Main Display, not the Expanded Display.
- 4384 Subwing not remembering page number after a restart
- 4375 Can edit a macro that is running when macro has "Wait for Input" command
- 4371 Encoder clutch not toggling back after a calibrate command
- 4368 In Macro Editor, some Fader Controls don't work.
- 4362 Moving single part of multipart channel in Patch removing parameters from remaining part
- 4339 lon LCD is not displaying an active cue that owns no levels correctly.
- 4328 Some parameters not able to store decimal levels
- 4323 The Live/Blind displays do not update to show the correct parameters after updating the Library.
- 4322 There is no indication when a fader is removed from rate control, until next go
- 4321 Fader wing load displaying Sub syntax error on command line after released
- 4320 lon (or Eos) RPU needs to have the Sync LED blinking if no network cable is plugged in.
- 4305 On lon, you can get the collapse CIA arrows when the display is tacked open
- 4300 <Chan> [1] [Thru] [-] Does not = "Chan 1 Thru (Max # Channel)"
- 4290 cues without tracking intensity not displaying "MK" in intensity field
- 4288 About Channel/Marks In field showing incorrect information
- 4285 Some target syntaxes not working with [Next] [Last]
- 4266 Effect [Grouping] doesn't work with non-default [Trail]
- 4263 Using [Copy To] [Live] to copy a single parameter causes all dependent parameters to get copied to Live.
- 4256 Selecting specific parameters with [+] and [-] modifies the entire respective category's level.
- 4250 Pan inverted on some VL fixtures
- 4244 When in "Effects Status" or "Live/Blind Effect Edit" the [Home] keys on the encoder display do nothing.
- 4230 If you have a copied fixture patched and change its home values for parameters, all parameters above 0 will flash
- 4214 Intensity effects allowed <0 and >100
- 4213 RVI and Offline cannot expand when in Eos Client mode
- 4209 Show control list label applied to incorrect location.
Workaround: Create the event list first, then label it. [7]/[Enter] [7]/[Label][xyz][Enter]
- 4207 Collapsed Color should display scroller's level, if it's the only parameter
- 4204 The console does not remember the patch flexi state when closing then re-opening the display.
- 4188 Missing lamp control in Mac fixtures
- 4168 Problems adding channels to running step based effect
- 4150 Switching to 100 channel view doesn't change expanded displays
- 4146 Backup can incorrectly indicate tracking
- 4128 Intensity master indication not shown on 2 x 10 or 2 x 20 LCD display
- 4122 Macros sometimes not able to load cues
- 4116 lon Client command line doesn't highlight User n | Client when not tracking
- 4113 Vista Client blocks Net2 and sACN packets.
- 4102 Submaster HTPing with Captured manual level
- 4098 Mac laptop channel display zoom not working
- 4092 Clearing out of a highlight state by pressing [High/Low] again does not take channels without background levels to their home position
- 4085 Should be able to load/remap a cue list to a submaster with no contents
- 4084 A fader mapped as a playback can load a submaster with no contents
- 4053 sACN light s reset on backup/master switch

Known Issues Remaining in v1.4.3 [Continued]

4041 RPU does not boot with a 15 inch VGA monitor connected

Workaround: Boot the RPU without the monitor connected, then connect after boot has completed.

3998 Lightwright Ascii files not importable unless you give it a file extension of .asc

3987 Unable to Display Group with many channels

3981 [1][Focus][Pr1][Pr2] should set only focus parameters

3823 Cue delay time does not apply to an effect

3814 Some displays not restored by persistent storage

3796 Macro wait displayed incorrectly above command line

3781 Cannot undo wheel events (level wheel, encoder, etc)

3730 With 3 monitors, expanding a tab to the right from M2 expands to M1

3727 Moving a single part of a part cue to a whole cue is incorrect

3712 On lon, clicking [Data + Category] turns off the filter button, but not filter mode

3688 Using Link Local address results in application starting before address assigned

3674 If Master hangs, there is no indication on backup

3624 Snapshot always restore virtual fader modules to page 1.

3623 Snapshots will not recall virtual controls to the LCD's, if direct selects are open

3592 Virtual A/B faders don't work with split fades

3581 Cannot un-park channels that are not in your partition.

3578 Channels above the number of channels in setup are being displayed.

3557 Backing out of a manual cue does not reset fader

3556 Manual up/down fades should split when both faders reach zero.

3547 Blackout button does not register in macro editor

3544 Able to connect two Backups to Eos.

3486 [Fader Controls] and encoder movements should be ignored by macros

3455 EOS always subscribes to MIDI System Exclusive In

3416 Lose LED momentarily when you switch sub types in blind

3415 Snapshot does not restore monitor configurations correctly.

3393 If no presets exist, [Preset] [Enter] does nothing in blind

3374 Whole cue info not visible on cue with many parts

3329 When an address conflict occurs within different parts of the same channel, a confirmation is not required.

3275 Selecting an address that is in a range that a fixture is already using does not assign the whole range to a channel

3105 RFR softkeys intermittently blank upon startup

3098 Grey shading on Universe number boxes do not follow selected universe

3062 Changing effect types in blind does not update automatically

3055 SGM Idea Spot 575 has Gobo Wheel 2

Workaround: Use the CTC encoder

2990 EOS always subscribes to MIDI/SMPTE Timecode with ID = 1

2937 MIDI time code events not syncing up between Master and Backup after opening from a different show

2914 EOS not responding to Stop all or Resume all MIDI instructions

2855 Fader wings cannot be stacked when using USB 2.0

Workaround: Place USB 1.1 Hub inline with wings, or connect each wing separately.

2823 Fader combination buttons not recording to macros

2769 CUE[X] COPY TO CUE[y] should copy CHAN level commands exactly

2764 The timing is incorrect when stealing/overriding channels from a Step Effect via a cue.

2758 Able to lock the Cycle Time of a Step Effect at a negative number using the encoder

2753 Going from the Patch display to the Blind display via [Cue] [Cue] causes a syntax error.

2752 Step based Effect, Blind Editor, cannot edit the selected steps multiple times.

2737 In table views of Live/Blind, flags (eg M, B) are cut off on channels 5/10/15/20/etcetera.

2636 The MSC command format 7F for All-types does not work.

2590 Applying a BLOCK to a cue where an EFFECT is tracking causes EFFECT to be replaced by LEVEL preceding EFFECT

2567 Step Based Effect's - Out of range values for ON STATE and OFF STATE are allowed

2476 In Live, magenta tracking zero level minus signs remain displayed after a [Go To Cue] [Out] command.

Known Issues Remaining in v1.4.3 [Continued]

- 2447 A Step Effect playing the HTP game with a Sub is not being displayed correctly in Live.
- 2406 Physical Slider Pot handles do not accurately track between two consoles when moving multiple pot handles.
- 2348 Cannot select a range of address that spans multiple universes using the port/offset syntax.
- 2316 Step Effect – deleted steps reappear if an arrow key is the first key pressed after deleting.
- 2066 A macros that includes the [Tab] button is a macro that causes a syntax error.
- 2057 Copying a part cue to a whole cue creates that cue with parts 3 and 10.
- 2050 Faders that do not physically track are causing levels to jump.
- 1996 [Select Active] is not grabbing active channels within a single part.
- 1758 Cue faders are incorrectly taken when running a looping show.
- 1568 In Live, <Channel> [X] [At] [Enter] is leaving a MOVE to zero level when previous cue was null
- 1564 [Flip] is not sending fixtures to the exact same position.
- 1289 Cannot specify a parameter on the command line and use the Encoder.
- 453 Independent Submaster channels incorrectly turn grey.