What’s New in VENUE | Software 8.2

for Avid® VENUE | S6L Systems

05/26

Contents

Introduction

Welcome to VENUE version 8.2 software for VENUE | S6L systems from Avid®.

About the VENUE 8.2 Release

- VENUE 8.2 is a feature release introducing support for Open Sound Control (OSC), tempo-based dynamics and more.
- VENUE 8.2 also includes fixes for various issues. For more information, see VENUE Software Release Notes.

To learn about the new features in this release, see "New Features and Enhancements" on page 8.

For details about E6LX engines and earlier engine updates, see the *VENUE S6L System Guide*.

Updating VENUE Software, Plugins, and Firmware

VENUE version 8.2 software is available as both a System Restore and an Updater.

- If updating from VENUE 8.0 or later, you may use the Updater.
- If updating from VENUE 7.2.4 or earlier, you must perform a System Restore.

If you are updating from VENUE 7.2.4 or earlier, do each of the following in order:

1. Check internal cabling (for instructions, see E6LX and E6L Internal Cabling in the *VENUE S6L System Guide*.
2. Install VENUE 8.2 System Restore (both the control surface and engine require System Restore).

   Be sure to back up your Show files, Presets, and other data before installing new VENUE software. After performing a System Restore on the control surface, make sure to re-install your plugins.

   For complete software installation instructions see the most recent edition of the *VENUE S6L Installation Guide*.
3. After installing VENUE 8.2, you must update the E6L BIOS and BMC (see "E6L BIOS and BMC Upgrade for VENUE 8.x and Downgrade for Earlier Versions" on page 24).

Important Installation Note

For systems with WSG-HD Waves SoundGrid Option Card, see "Important Installation Notes for VENUE 8.2" on page 22.

System Requirements and Compatibility

Avid can assure compatibility and provide support only for hardware and software it has tested and approved. For complete system requirements and a list of qualified computers, operating systems, hard drives, cables, displays, other third-party devices, and versions of Pro Tools® software, visit: www.avid.com/S6Lsupport.

Pro Tools and S6L

For complete Pro Tools compatibility, system requirements, and required optimizations for VENUE, visit: What are the System Requirements for Pro Tools with S6L?

Important!

Whenever you are recording or playing back to/from Pro Tools, do all of the following on the Pro Tools computer:

- Go to **System Preferences > Network** and disable **Wi-Fi/Airport** and **Bluetooth** (make sure **Wi-Fi** is completely Off).
- Go to **System Preferences > Sharing** and make sure **Internet Sharing** is off / disabled.

MADI-192 MADI Option Cards

If your system includes one or more MADI-192 MADI Option cards, see "Updating MADI Card Firmware" on page 23.

WSG-HD

If your system includes WSG-HD card, you must follow the instructions in E6LX and E6L Internal Cabling in the *VENUE S6L System Guide* to install and configure internal cables as described for VENUE 8.x compatibility.

As of VENUE software version 7.1, Waves v14 or later is required. If your system includes an Avid WSG-HD Waves SoundGrid Option card, update the S6L system to VENUE 8.x first, then follow the SoundGrid software update instructions provided by Waves to install v14 or higher qualifed version. See also "Important Installation Notes for VENUE 8.2" on page 22.

MLN-192 Milan Option Cards

If your system includes an MLN-192 card, you must follow the instructions in E6LX and E6L Internal Cabling in the *VENUE S6L System Guide* to install and configure internal cables as described for VENUE 8.x compatibility. This re-cabling is required to simplify firmware updates to the MLN-192, and to support new functionality provided in VENUE 8.0 and higher (including new support for up to 2x MLN-192 cards).

Dante HD Option Cards

If your system includes a Dante HD Option Card, VENUE 8.1 or later is required. Dante HD cards are automatically detected by VENUE and require a restart after the initial firmware update.

Supported engines and slot availability:

- E6LX-256 / 176 / 128: Slot 5 (single-card), and slots 4 and 5 / slots 5 and 6 (dual-card)
- E6L-192 / 144: Slot 8
- E6L-112: EXPANSION slot 1, or AVB NETWORK slot 3 (requires the included double-wide faceplate)

The Dante HD card does not require internal jumper cabling.

For detailed slot rules and installation guidelines, see the *Dante HD Option Card Installation Guide*.

VENUE Standalone Software

Be sure to manually uninstall any older versions of VENUE Standalone Software before installing a newer version of VENUE Standalone software (when available).

Important Compatibility Information

- S6L consoles manufactured after April 2023 include new touchscreens and require VENUE software version 7.1.2 or later. These control surfaces must not be downgraded to earlier versions of VENUE software.
- The new CTM and MTS touchscreens are not compatible with older consoles. Do not transfer or attempt to install newer touchscreens in S6L consoles manufactured prior to April 2023.
- VENUE 7.1.2 and later is compatible with all S6L consoles.

  VENUE 8.0 or later is required to use E6LX.

- If using I/O Sharing, all systems must be running the same version of VENUE software.

Contact VENUE Support if you need help identifying the revision of your touchscreen.

Conventions Used in This Guide

All of our guides use the following conventions to indicate touch screen gestures and key commands:

Convention	Action
Touch	Touch an element on-screen briefly and immediately release your finger. Used to activate a function or toggle a parameter value.
Swipe	Touch an area on-screen and drag left/right/up/down. Used to scroll elements, where available.
Touch, Hold, and Drag/Slide	On the external VENUE software screen, touch and hold a parameter, then slide your finger to adjust parameters on-screen, or to drag elements.
Touch-and-Hold	On the external VENUE software screen, touching and holding an element on-screen, then releasing lets you access pop-up menu options, where available.
Double-Tap	Quickly tap an on-screen element such as a name field to edit its name
Options › System	On the external VENUE software screen, touch Options, then touch the System tab to display the System page.
Shift-touch/Ctrl-touch/Alt-touch	On the external VENUE software screen, press and hold Shift (or other keyboard modifier) on the keyboard, then touch an on-screen parameter.

The names of selectable on-screen elements that contain text are displayed in a different font.

The names of physical switches on the S6L control surface are in displayed **`in bold text`**.

The following symbols are used to highlight important information:

User Tips are helpful hints for getting the most from your system.

Important Notices include information that could affect your data or the performance of your system.

Shortcuts show you useful keyboard or mouse shortcuts.

Cross References point to related sections in this guide and other VENUE guides.

When Using a Mouse with S6L

For the best experience, Avid recommends you use qualified external monitors with touchscreen capabilities for accessing the external VENUE software screen. When discussing on-screen selections, “touch” is used. If you are using a mouse to control the external VENUE software screen, “touch” is synonymous with “click,” “touch-and-hold” is synonymous with “right-click,” “double-tap” is synonymous with “double-click” and “touch, hold and slide” is synonymous with “click-and-drag.”

Resources

The Avid website (www.avid.com) is your best online source for information to help you get the most out of your Avid system. The following are just a few of the services and features available.

Account Activation and Product Registration

Activate your product to access downloads in your Avid account (or create an account if you don’t have one). Register your purchase online, download software, updates, documentation, and other resources.

https://www.avid.com/account

Support and Downloads

Contact Avid Customer Success (technical support); download software updates and the latest online manuals; browse the Compatibility documents for system requirements; search the online Knowledge Base or join the worldwide Avid user community on the User Conference.

https://www.avid.com/support

For S6L system-specific support, visit:

www.avid.com/S6Lsupport

Get started learning the ins and outs of S6L using the many Avid Live Sound videos on YouTube.

Training and Education

Study on your own using courses available online, find out how you can learn in a classroom setting at an Avid-certified training center, or view a webinar. For example, check out the live sound webinars hosted by Robert Scovill:

https://www.avid.com/learning

Products and Developers

Learn about Avid products; download demo software or learn about our Development Partners and their plugins, applications, and hardware.

https://www.avid.com/products

New Features and Enhancements

The following new feature(s) are included in VENUE 8.2:

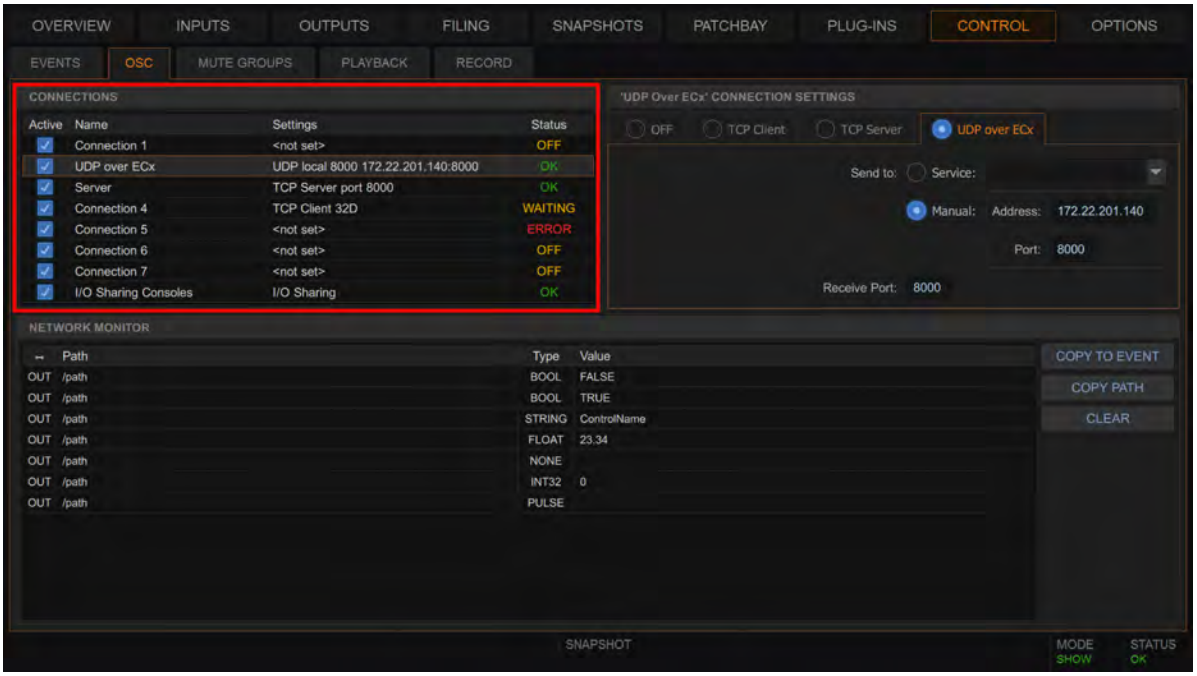
- OSC as Event Actions and Triggers
- Dante HD Static IP Option
- AVB Switch Support Updates
- Input Sends on Fader (ISOF) Mode
- Assignable Encoder Support for Plugins
- Tempo-Based Dynamics Options

OSC as Event Actions and Triggers

Open Sound Control (OSC) is a protocol for networking multimedia devices for musical performance and show control. A new OSC tab has been added to the Control Page, between the Event and Mute Groups tabs.

Connections

The Connections section presents a fixed list of 8 connections. One connection is always selected in the list, and the configuration area on the right updates to show the settings for the selected connection. The last connection in the list is a predefined I/O Sharing Consoles connection.



Connections section

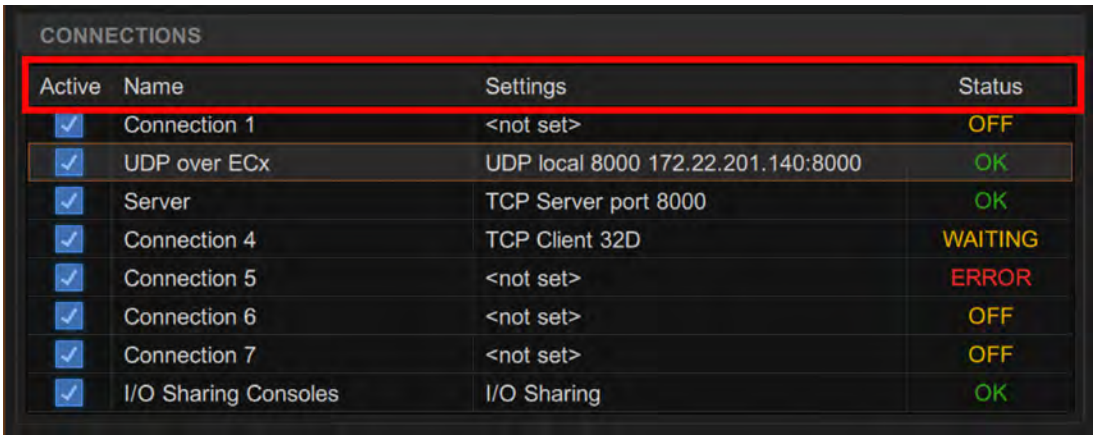
Connection Columns

The list contains four columns:

- Active — Checkbox that controls whether VENUE sends or responds to OSC messages on the connection.

  ⚠ **Unchecking the box keeps the connection configured, but prevents VENUE from sending messages or reacting to received messages.**

- Name — User-editable connection name (up to 64 characters).
- Settings — Summary of connection settings (for example, TCP Server port 8000, UDP local 8000).
- Status — Current connection status.

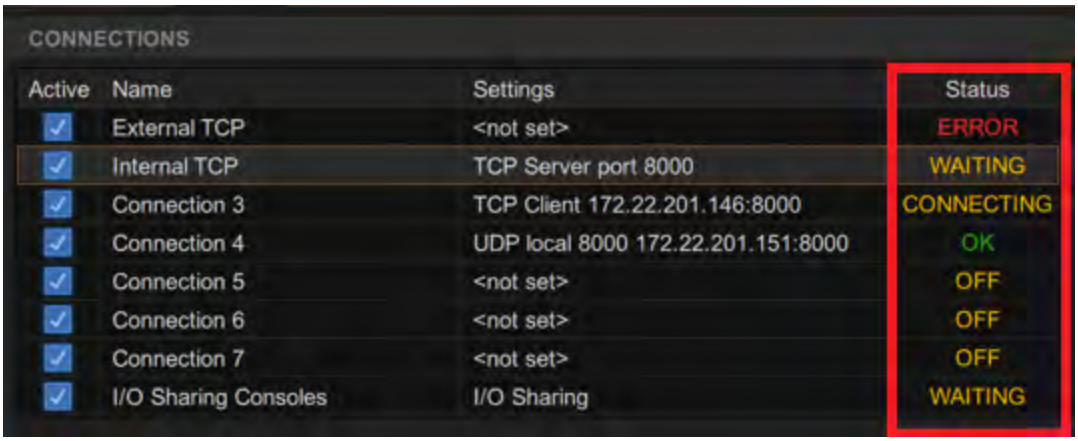


Connection columns

Connection Status

Each connection's status is indicated by a colored text indicator, displaying whether the connection is successful or has an issue:

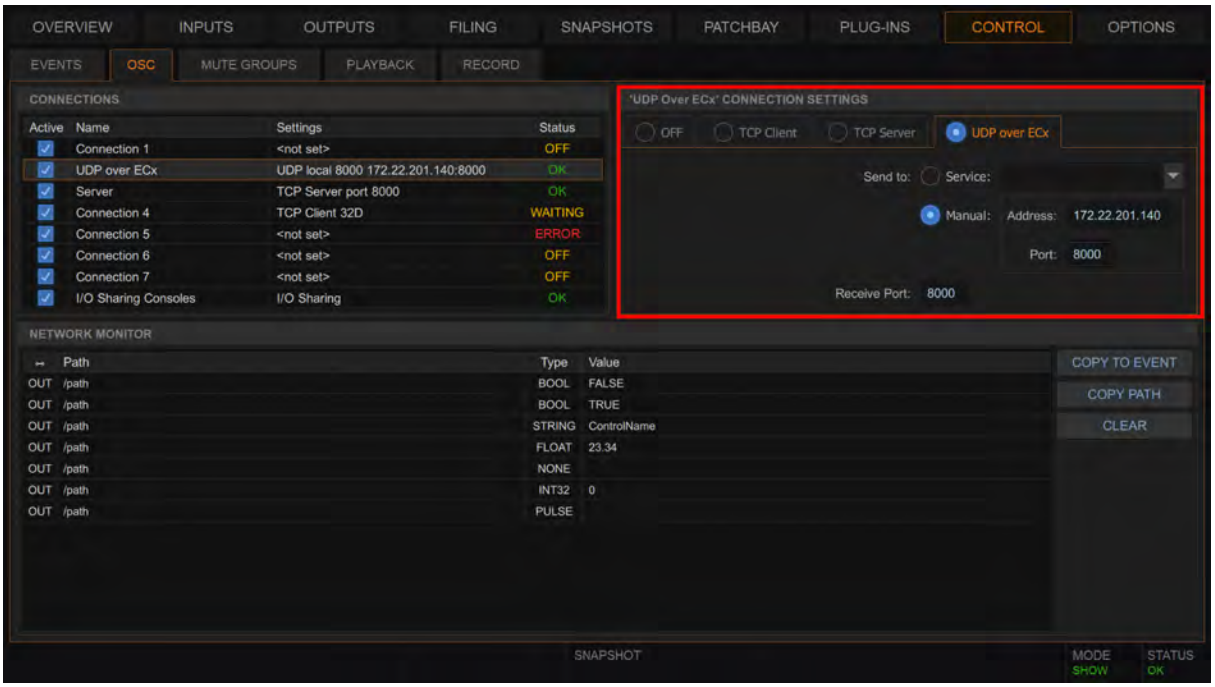
- OK (green) — Connection established.
- WAITING (amber) — Settings are valid and waiting for client connections.
- CONNECTING (amber) — Settings are valid, but the connection is not yet established.
- OFF (amber) — Connection is fully disabled.
- ERROR (red) — Invalid connection configuration or settings.



Connection status showing color indicators

Connection Settings

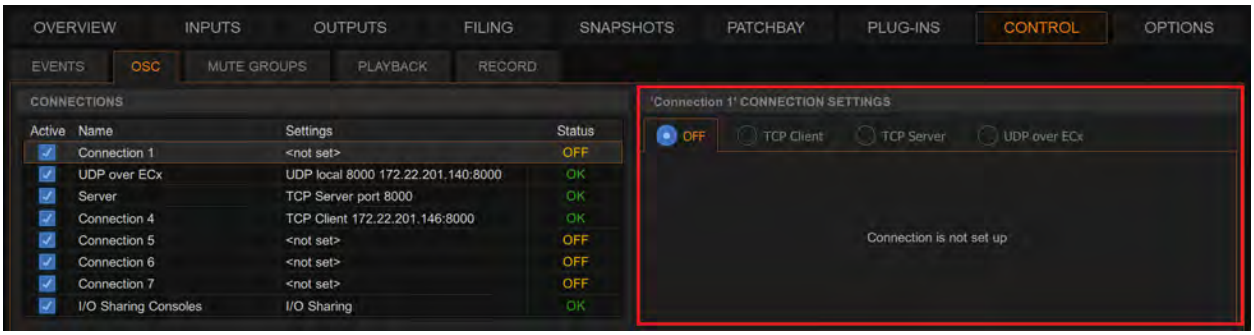
The Connection Settings area updates to show the settings for the currently selected connection. Each connection can be configured using one of the following connection types: OFF, TCP Client, TCP Server, or UDP over ECx. The I/O Sharing Consoles connection is predefined.



Connection Settings section

OFF

Disables the connection. When set to OFF, the connection settings panel displays "Connection is not set up" and no OSC activity occurs on this connection. The connection slot remains available for future configuration by selecting a connection type.



Connection Settings panel showing a connection set to OFF

TCP Client Setup

The TCP Client connection type allows the console to connect to an external OSC server.

- Network – Choose between AVB (from Control Surface Port C or D, or an Engine MLN-192 card in AVB-HD mode) or ECx.
- OSC Version: Choose between v1.1 or v1.0 / Auto.
- Send To - Choose between Service (Bonjour) or Manual (IP/Port).

TCP Client connection

TCP Server Setup

The TCP Server connection type allows external OSC clients to connect to the console.

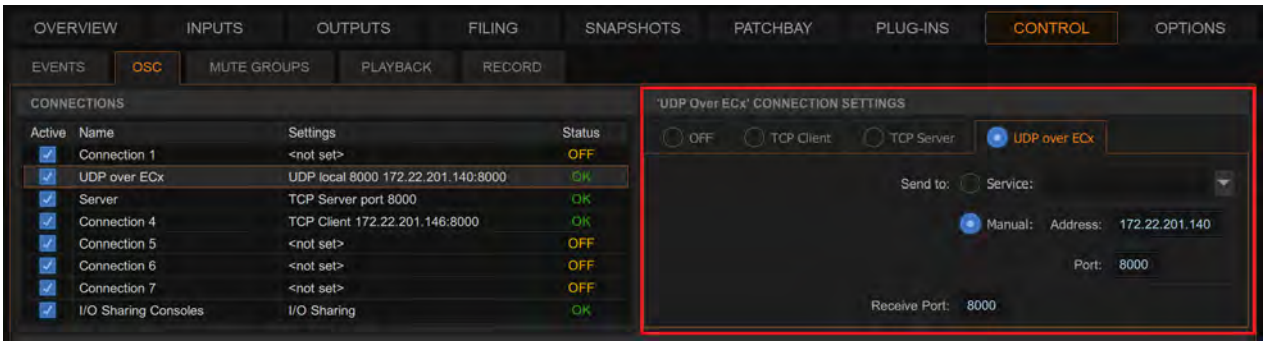
- Network - Choose between AVB (from Control Surface Port C or D, or an Engine MLN-192 card in AVB-HD mode) or ECx.
- OSC Version: Choose between v1.1 or v1.0.
- Local Port - Set a local server port for the connection.

TCP Server connection

UDP over ECx Setup

UDP over ECx enables unicast or broadcast OSC over the ECx network.

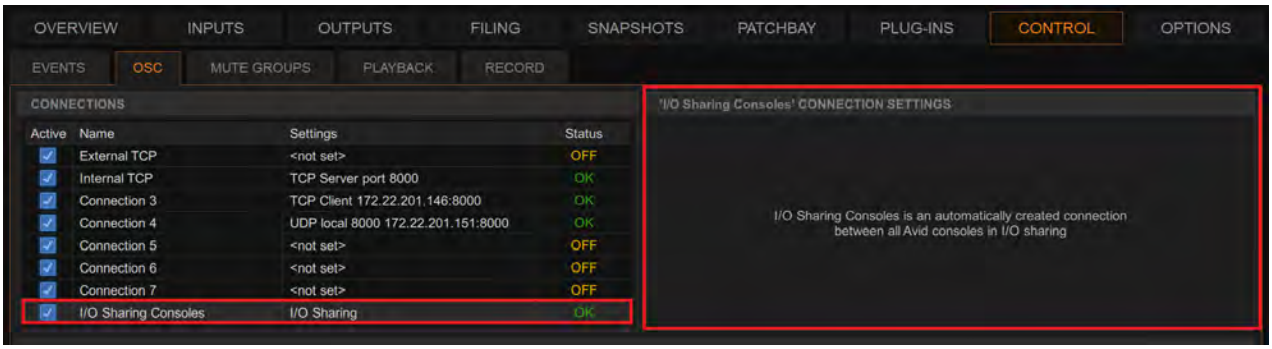
- Send To - Manual IPv4 address and remote port. Broadcast addresses are allowed.
- Receive Port - Local port for receiving UDP messages.



UDP over ECx connection

I/O Sharing Consoles Connection

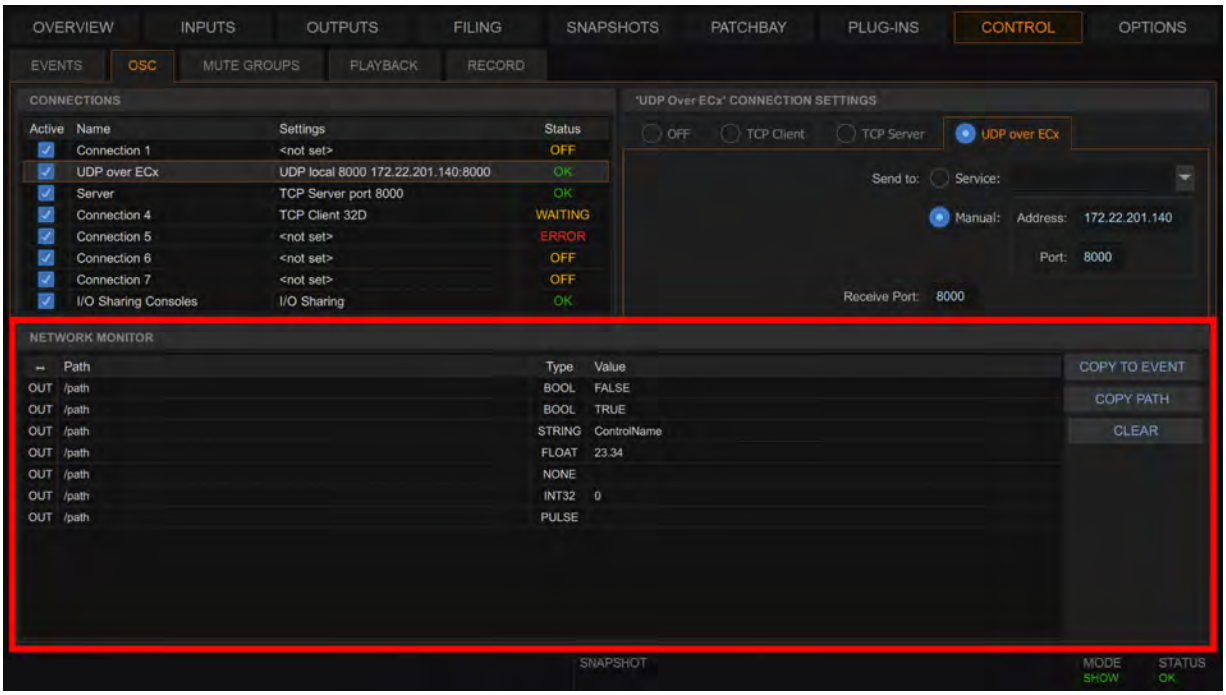
The I/O Sharing Consoles connection is a predefined, non-editable connection that is automatically created between all Avid consoles in I/O sharing. Only the Active column can be changed. The Status column shows the number of other consoles connected.



I/O Sharing Consoles connection selected in the Connections list

Network Monitor

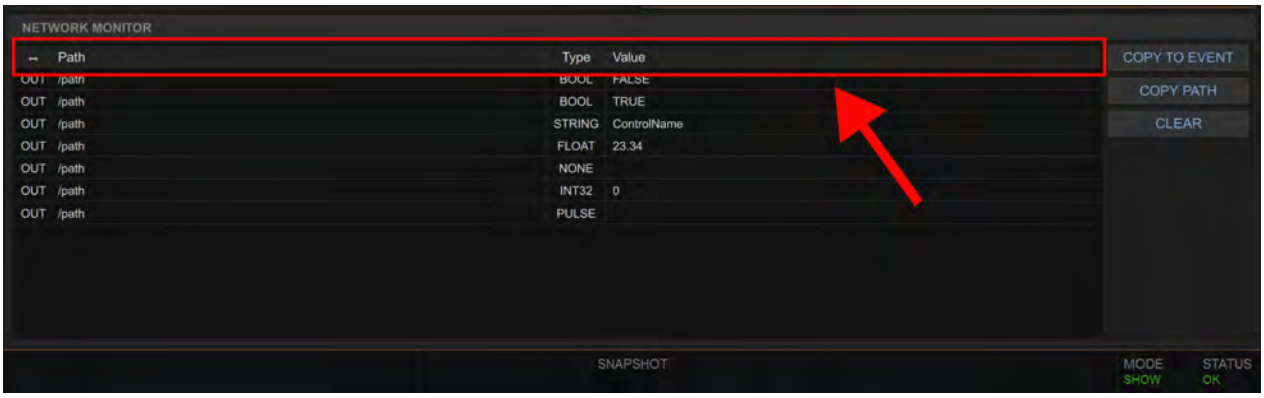
This section displays the 10 most recent OSC messages (incoming or outgoing) for the selected connection. The list is cleared whenever the connection settings change, and messages received while the connection was disabled appear grayed out.



Network Monitor section

Message Columns:

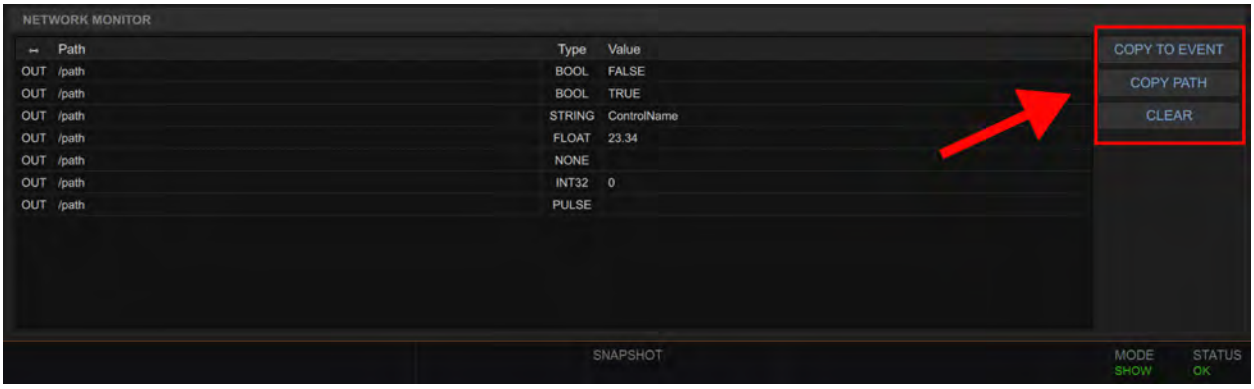
- ↔ Direction - IN or OUT.
- Path - The OSC path of the message.
- Type - Type of OSC message (such as Integer, Float, String, True, False, Null, or Impulse).
- Value - The value associated with the OSC message.



Message Columns in the Network Monitor section

Message Actions:

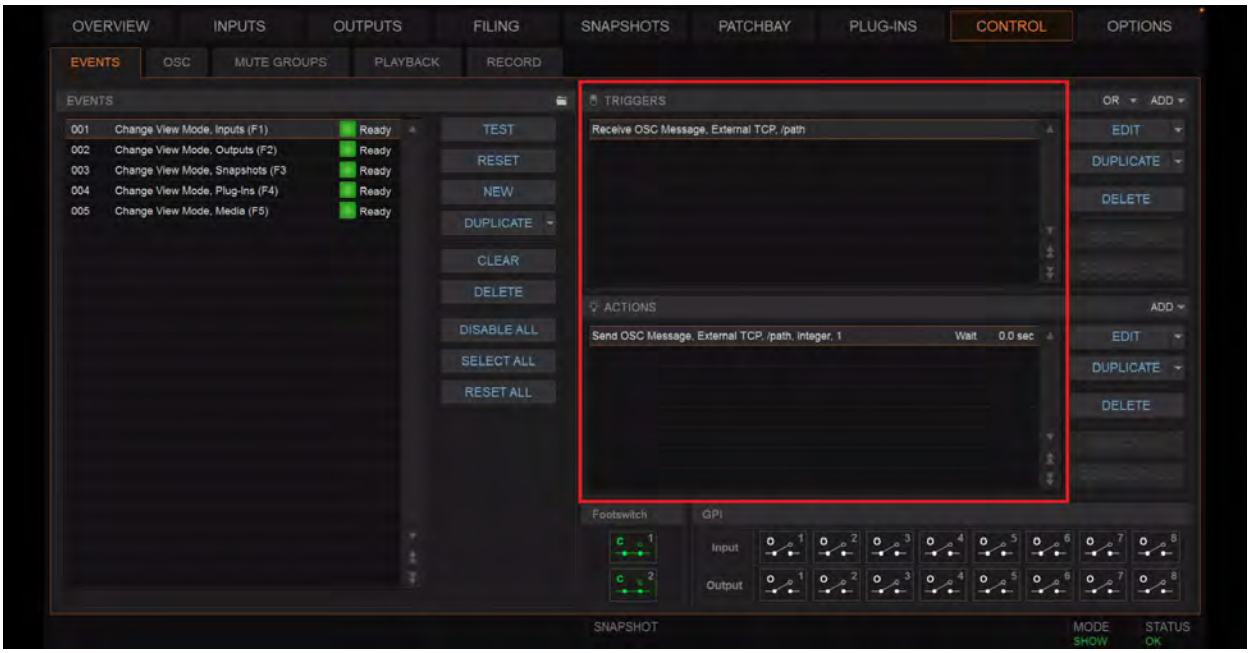
- Copy to Event - Copies the selected message path as an OSC message received event.
- Copy Path - Copies the OSC path for use in other events.
- Clear - Clears the message list when no longer needed.



Message action buttons in the Network Monitor section

OSC Events

New OSC triggers and OSC actions have been added to the Events page.



Events page showing OSC trigger and action options

Triggers

OSC Message Received -Trigger when a specific OSC message is received.

OSC Integer - Trigger based on an integer value, with conditions (greater than, less than, equal).

OSC Boolean - Trigger based on a True/False value.

Actions

The Send OSC message action allows sending a specific OSC message to a defined connection. The message can have different types:

- Parameter 1: Connection text field (index + username).
- Parameter 2: OSC path.
- Parameter 3: Type (None, Pulse, Integer, Float, String, True, or False).
- Parameter 4: Value (only for Integer, Float, or String types).

Limitations

- The maximum supported OSC path length is 256 characters. Messages with longer paths are discarded on receive.
- The same limit applies to string values in the Send OSC message action.
- Messages containing multiple values are split and processed as separate single-value messages.

Dante HD Static IP Option

You can now enable the Static IP option when navigating to **`Dante HD > Options > Network Configuration`** window in Dante Controller. Once enabled, Static IP becomes available and works as expected.

AVB Switch Support Updates

VENUE 8.2 supports redundant star configurations using supported AVB switches.

Luminex Switches

Luminex 30i switches now support one additional AVB group on a single switch, with a limit of 64 streams on that group.

Supported models:

- Luminex 30i
- Luminex 18t

Luminex Gen1 switches, including Luminex 26i and Luminex 10, are not supported for 2 AVB Group configurations.

Netgear Switches

VENUE 8.2 introduces support for Netgear M4250 Pro AV switches as an alternative to Luminex. Netgear switches use the same star connection topology and require the Avid S6L profile (added in firmware version 13.0.5.20). Only one VLAN is supported, and each switch must be designated as A or B in the Netgear Web Interface, with switch A serving as the grandmaster clock and switch B as the backup.

Supported models:

- M4250-26G4F-PoE+ (GSM4230P)
- M4250-8G2XF-PoE+ (GSM4210PX)

For detailed configuration instructions and guidelines, refer to the *AVB Network Switch Configuration Guide.*

Input Sends on Fader (ISOF) Mode

ISOF allows you to select an Input channel via the Master Touch Screen (MTS) or an Event, causing all Auxes on the control surface to flip the faders to show the send level of the targeted input for each Aux. While in ISOF mode, Attentioning a different input sets it as the new ISOF input for all Auxes. VENUE 8.2 also introduces **`Mute`** button membership assignment for ISOF and SOF modes, allowing you to assign or unassign Aux channels/sends directly from the control surface.

MTS

The **`Sends on Fader (SOF)`** button is located to the right of Solo on the Universe page.

- The button is Gray when inactive and Orange when active.
- When in ISOF, you can use the **`Cancel`** button to exit ISOF.

To use Input Sends on Fader (ISOF):

1. Navigate to **`MTS > Universe > Inputs`**.
2. Enable **`Sends on Fader`**.
3. Attention an input from the MTS.

Assigning Aux Channels/Sends using Mute in ISOF/SOF

In ISOF and SOF modes, press the **`Mute`** buttons on the Control Surface to assign or unassign channels from the selected Aux or Input.

- When **`Mute`** is lit (pink), the channel is not assigned to the selected Aux or Input.
- When **`Mute`** is not lit, the channel is assigned to the selected Aux or Input.

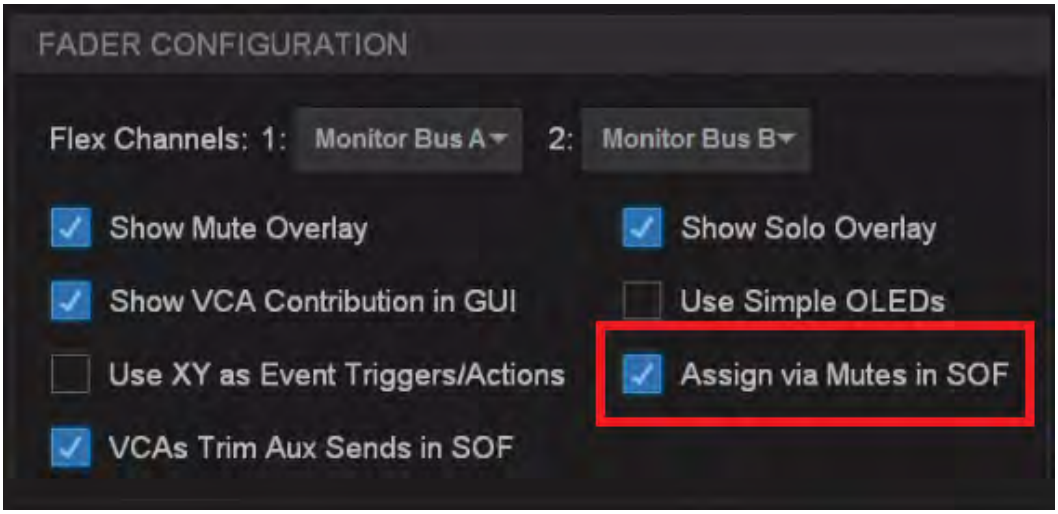
In ISOF mode:

- The Aux Mute buttons show whether the currently attentioned Input channel is assigned to each Aux.

In SOF mode:

- The channel or group Mute buttons show whether that strip is assigned to the currently attentioned Aux.

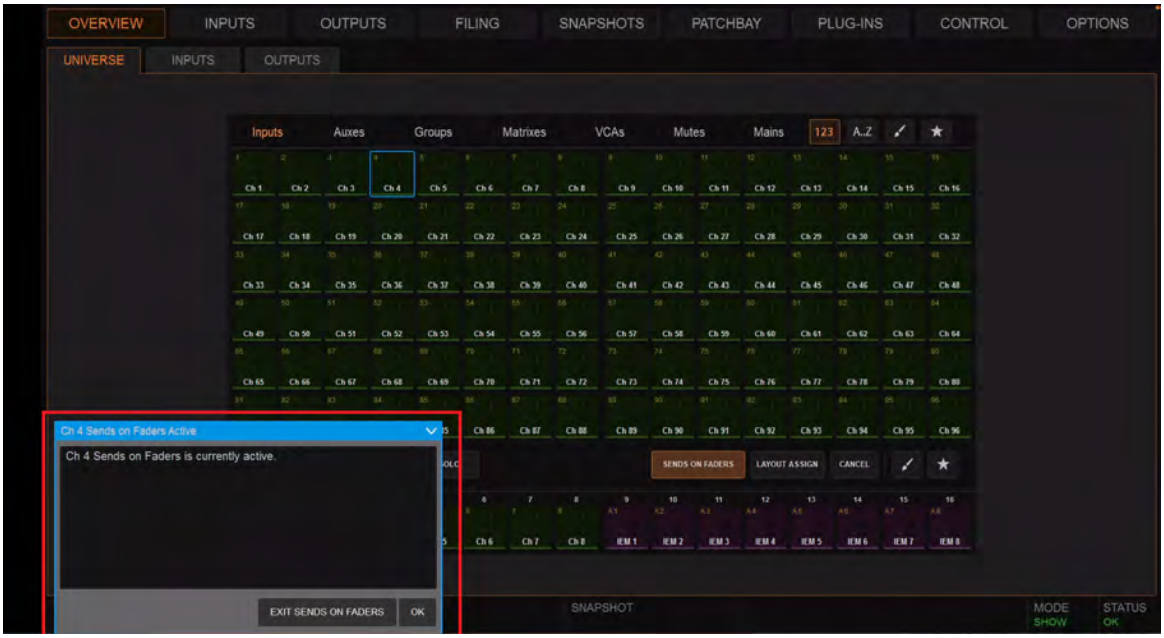
This feature can be enabled or disabled using the **`Assign via Mutes in SOF`** setting in **`Options > Interaction > Fader Configuration.`**



Fader Configuration panel showing the Assign via Mutes in SOF setting.

Alert

When you enter ISOF, a blue alert banner appears indicating that ISOF mode is active. You can either select **`Exit Input Sends on Fader`** to exit ISOF mode, or **`OK`** to dismiss the alert and remain in ISOF mode.



ISOF blue alert banner on the MTS

Events

ISOF is available in the Actions List.

- Input channels are added to the **Control Surface > Modes > Enter Sends on Fader list**.

Channel Fader Module (CFM) OLED

When in ISOF, the CFM OLEDs display a yellow banner with black text labeled “SOF INPUT”, similar to when the system is in Sends on Faders mode.

*To solo Auxes while remaining in ISOF, disable Sends on Faders Follow AFL in **Options > Busses**.*

Assignable Encoder Support for Plugins

The Assignable Encoder allows you to quickly access and control plugin parameters directly from the control surface using the Assignable Encoder knob on the Master Live Module (MLM). When you touch an encoder or parameter for a plugin on the external screen, the encoder is highlighted, and the MLM Assignable Encoder displays control for the selected parameter.

To control plugin parameters using the Assignable Encoder:

1. Touch an encoder or parameter on a plugin panel on the External Screen.
    a. The encoder is highlighted in yellow. Yellow highlight takes priority over the red highlight used for controls mapped to a control surface.
    b. The MLM Assignable Encoder knob updates to display control for the selected parameter.
2. Rotate the Assignable Encoder to adjust the value of the selected parameter.
3. Touch a different parameter or plugin parameter on the external screen to reassign the Assignable Encoder to the new parameter.
4. Touch the currently selected control again to deselect it and unassign it from the Assignable Encoder.

The Assignable Encoder is automatically unassigned when the plugin becomes unavailable. Selecting another Waves plugin in the SoundGrid Rack unselects the Assignable Encoder for the previous Waves plugin in the same SoundGrid Rack.

If a control is being adjusted when you select a new control, the system continues to control the initial parameter until touch is released before switching assignment.

If Oscillator or Talkback are engaged while a control is assigned to the Assignable Encoder, the Oscillator or Talkback control is displayed on the Assignable Encoder. When disengaged, control returns to the previously assigned parameter.

Latching

The Assignable Encoder supports a latching mode that allows a control to remain persistently assigned to the Assignable Encoder knob, regardless of subsequent touch actions. Any control — not only plugin controls — can be latched or unlatched.

To latch or unlatch a control:

- Press and hold the **Encoder Assign** button, then press the Assignable Encoder. A latched control displays a frame around it on the respective OLED. If the control becomes unavailable, it is automatically unlatched.

Plugins

When a plugin control is assigned to the Assignable Encoder, the plugin is displayed with a yellow frame in the Plugins page. If the same plugin is also targeted on the control surface, it is displayed with both red (outer) and yellow (inner) frames.

OLED Display Behavior

When a plugin parameter is assigned to the Assignable Encoder, the OLED display on the console shows the following two lines of labeling, listed from top-down, similar to the CKM plugins display:

- Control Name
- Control Value

Tempo-Based Dynamics Options

You can now tie Dynamics time-based values to the system Tap Tempo. This ensures all dynamics settings automatically sync to the song's tempo, making it easier to tighten dynamics settings without manual adjustments.

Set Tempo-Based Parameters

You can set the following dynamic parameters to use Tap Tempo for their time-based values:

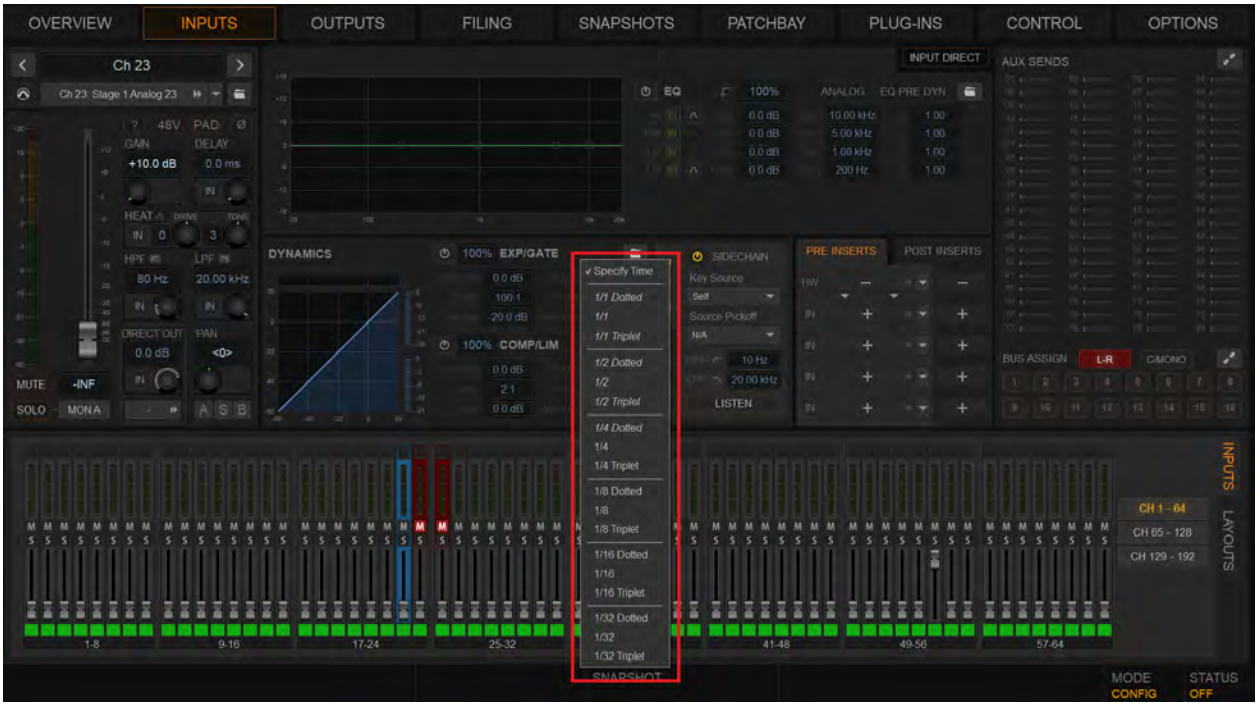
- Exp/Gate Attack
- Exp/Gate Hold
- Exp/Gate Release
- Comp/Lim Attack
- Comp/Lim Release

If no note value is selected, the system defaults to the set time value.

Note Options

You can choose from 1/1 through 1/32 notes, with Dotted and Triplet variations of each. These are the available options:

Specify Time	1/1 Dotted	1/2 Dotted	1/4 Dotted	1/8 Dotted	1/16 Dotted	1/32 Dotted
	1/1	1/2	1/4	1/8	1/16	1/32
	1/1 Triplet	1/2 Triplet	1/4 Triplet	1/8 Triplet	1/16 Triplet	1/32 Triplet



Note selection dropdown list

External Screen

Dynamics controls on the external screen now include a Note Selection button.

Selecting this button opens the note value list, allowing you to choose the desired rhythmic timing.

When a note value is selected:

- The input field displays the selected note value (for example, 1/4, 1/8 D, or 1/16 T).
- The time entry field becomes locked, preventing manual input.
- Selecting **`Specify Time`** returns control to manual time values.

⚠ **If a selected note value cannot be represented within the parameter's time range, the note value appears in *italics* to indicate that it is outside the supported range and the time value is set to the parameter's minimum or maximum range.**

Channel Knob Module (CKM) Integration

The following button controls will work in Time or Note values:

- **SEL:** Cycles through None, Dotted, Triplet (Defaults to None).
- **IN:** Toggles between Time and Note value (Defaults to Time).
- **Knob Push:** Toggles between Time and Note value (Defaults to Time).
- **Knob Turn:**
  - IN TIME: Operates as in 8.1.
  - IN NOTE: Cycles through the available notes (None not included, only note values).

Tempo-based timing is available on the following CKM controls:

- Exp/Gate Attack (Channel 3, Row 2)
- Exp/Gate Hold (Channel 4, Row 2)
- Exp/Gate Release (Channel 5, Row 2)
- Comp/Lim Attack (Channel 3, Row 4)
- Comp/Lim Release (Channel 5, Row 4)

OLED Abbreviations

On the OLED display, note values use "D" for Dotted and "T" for Triplet to match the External Screen abbreviations when space is limited.

Using the Assignable Encoder with Tempo-Based Dynamics

The Assignable Encoder on the MLM (Master Live Module) is fully supported for tempo-based dynamics control, mirroring the same workflow as the CKM controls.

To adjust tempo-based dynamics using the Assignable Encoder:

1. Go to the **`Inputs page`**, select the dynamics parameter you want to adjust (such as Exp/Gate Attack). The selected parameter is enabled (on) and highlighted in yellow.
2. Press **IN** to toggle between Time and Note modes.
3. When in Note mode, rotate the encoder to select the desired note value.
4. Press **SEL** to cycle through None, Dotted, and Triplet variations.

External Screen (GUI) and Master Touch Screen (MTS) Tooltip

When a Dynamics parameter is set to a note value, the external screen tooltip and the MTS momentarily display the selected note value. For example, when Comp/Lim Release is set to 1/8 Dotted, the tooltip displays: Comp/Lim Release 1/8 Dotted.

Dynamics panel and center screen tooltip showing note-based values

Snapshot

Tempo-based Dynamics settings are included in Snapshot recall and can be set to recall safe.

Events

Dynamics parameters from the Input/Outputs pages are now available in the Continuous Control submenu for Event Programming, applying to both Triggers and Actions for the following parameters:

- Exp/Gate Attack
- Exp/Gate Hold
- Exp/Gate Release
- Comp/Lim Attack
- Comp/Lim Release

Showfile/Presets

Tempo-based note value selections are saved as part of Dynamics settings in Show files and in Dynamics Presets. When you load a preset or Show file that contains note-based dynamics, the note value selections are restored along with all other Dynamics parameters.

VENUE Software Release Notes

For a list of all fixed and known issues in the current version of VENUE software, see VENUE S6L Release Notes.

For complete System Restore and software installation instructions see the *VENUE S6L Installation Guide*.

Mute or power down any speakers or headphones before installing VENUE software. After VENUE software is installed and all firmware updates are complete, power cycle each device in your system, including any computers you are using for recording or playing back AVB audio with your S6L system.

Backup all console data before installing new VENUE software.

Make sure to re-install any 3rd party plugins after installing new VENUE software. For best performance, make sure you are running the latest plugin versions on your system.

Important Installation Notes for VENUE 8.2

External Screen Required for Software Installation

Before performing a System Restore or Software Update be sure to connect your external screen to the S6L control surface. The system can get stuck in an infinite restart loop after performing a System Restore or Software Update if there is no external screen connected. If your system is unresponsive, connect the external screen and run the Touch Wizard, or perform the System Restore (or Software Update, if available) again.

8 GB RAM Requirement

VENUE 8.2 and later requires a minimum of 8GB of RAM to be installed on the S6L Control Surface motherboard. All Control Surfaces manufactured in 2019 or later include 8GB of RAM by default.

If your Control Surface was manufactured in 2018 or earlier and still has 4GB of RAM (many users have already upgraded to 8GB for Waves SoundGrid support), refer to the S6L RAM Expansion Guide.

Important! E6L (2nd generation) Engine Re-cabling for Improved Performance and Expansion

If you are upgrading from VENUE 7.2.4 or earlier, then before installing VENUE software version 8.2, you must reconfigure the internal card-to-card jumper cables on all existing E6L-192, E6L-144, and E6L-112 (2nd and 1st generation) engines. This affects factory-installed jumper cable connections between AVB-192 cards as well as any previously installed WSG-HD Waves SoundGrid and/or MLN-192 Milan Option cards. This process takes only a few minutes. For instructions, see E6LX and E6L Internal Cabling in the *VENUE S6L System Guide*.

If you are upgrading from VENUE 7.2.4 or earlier, you must update the BIOS and BMC after installing VENUE 8.2 on E6L-192/144/112 systems. After the engine restarts, an alert dialog will appear stating `BIOS/BMC Update Required`. For more information, see E6L BIOS and BMC Upgrade for VENUE 8.x and Downgrade for Earlier Versions.

Waves

For systems with WSG-HD Waves SoundGrid Option Card, be aware of the following:

- Waves V15 requires VENUE 8.0 or higher.
- Waves V14 (or later) is required with VENUE 7.1 and higher.

"Restore Image Not Valid" or FreeDOS Boot Screen

If, during the System Restore procedure, an error message appears stating that the USB image is invalid or a FreeDOS boot screen appears, see Known Issues in VENUE 8.2.

Cable rework for S6L-48D systems

Avid® has identified a performance issue affecting the 4th and 5th CTMs in the S6L-48D. These CTMs may display pegged meters when handling high channel counts. To resolve this issue, all S6L-48D users must install longer Ethernet cables to connect these CTMs to the internal 16-port switch.

Avid Customer Care will proactively contact S6L-48D users to provide the required cables and rework instructions. Customers may also contact Avid Customer Care directly to request the cables in advance.

"Not possible to restore to this version of VENUE software" Error During Control Surface Restore Process

This issue has been reported when using certain aftermarket USB drives. Using the original Avid-provided USB drive should resolve the problem.

Alternatively, you can use one of the following workarounds: you can either connect a USB hub to an external S6L USB port and attach the aftermarket drive to the hub, or remove the S6L rear panel and connect the aftermarket drive directly to a USB side port on the internal motherboard.

Updating MADI Card Firmware

If at anytime on startup you encounter the message that the firmware needs to be updated, use this procedure to update the firmware on the MADI card(s).

To use "Remote" mode to update MADI-192 MADI Option Card firmware:

1. Make sure you have a USB keyboard and mouse connected to your S6L control surface.
2. Update your system to VENUE 8.0 or later.
3. When prompted about MADI firmware version mismatch, press and hold **`Control + Shift`** and type SUPPORT to enter Support mode.
4. Press **`Control+Shift+E`**.
5. Navigate to the E6L desktop and locate the Update MADI Firmware icon. Double-click to launch it and follow the on-screen instructions.
6. After MADI firmware is complete, power cycle the E6LX/E6L engine as prompted.
7. Close the Remote Desktop session to the E6LX/E6L engine.
8. Restart your system.

To manually update MADI-192 MADI Option Card firmware:

1. Shut down your system, and power off all components.
2. Connect a VGA monitor and USB keyboard and mouse to your E6L engine.

   Beginning with VENUE 7.2 you can use a qualified VGA–to–HDMI adapter (such as Cable Matters VGA-to-HDMI Adapter) to connect an HDMI monitor directly to the E6L Engine.

3. Power on your E6LX/E6L engine, and repeatedly press F5 on the keyboard while the engine starts up.
4. Close the window that appears on screen to show the Desktop.
5. Double-click the **`Update MADI Firmware`** icon on the Desktop.
6. Follow the on-screen instructions to update the firmware on your MADI-192 MADI Option Cards.
7. After MADI firmware is complete, shut down the E6L engine when prompted.
8. After shutting the E6L engine down, do the following:
    a. Disconnect power from the E6LX/E6L and wait at least 30 seconds.
    b. Make sure to disconnect the VGA monitor, mouse, and keyboard.
9. Power your system back on.

Updating Dante HD Option Card Firmware

If your S6L is running VENUE 8.2 or later, any applicable firmware updates will be automatically pushed to the Dante HD card.

E6L BIOS and BMC Upgrade for VENUE 8.x and Downgrade for Earlier Versions

Upgrade

Any E6L-192, E6L-144, or E6L-112 system that has been updated to VENUE 8.0 or later from VENUE software version 7.2.4 or earlier must update the E6L Engine BIOS and BMC to BIOS60 and BMC90 ***after*** installing VENUE 8.x (the BIOS updater updates both BIOS and BMC).

DO NOT update the BIOS/BMC if either of the following are true:

- If your system includes an E6LX (3rd generation) engine.

  ⚠ **Do NOT install BIOS60 or BMC90 on any E6LX Engine, doing so could damage the unit.**

- If you are performing a System Restore or Software Update on a system that is already running VENUE software version 8.0 or later, and VENUE does not prompt you to update the BIOS/BMC ***after*** installing VENUE 8.0 or later.

Downgrade

If a system running VENUE 8.2 or later needs to be downgraded to VENUE 7.2.4 or earlier, the downgrade option must be run to downgrade the BIOS/BMC ***before*** downgrading the VENUE software using the earlier version System Restore.

⚠ **VENUE 8.x must boot successfully at least once after downgrading the BIOS. This is an essential step before downgrading the VENUE software version.**

Updating the BIOS/BMC involves the following steps:

- Collecting the "Required Components" below
- "Creating the BIOS/BMC Update Key" below
- "Updating the BIOS and BMC on E6L" on the next page

Required Components

Before you begin, make sure you have all the following required components:

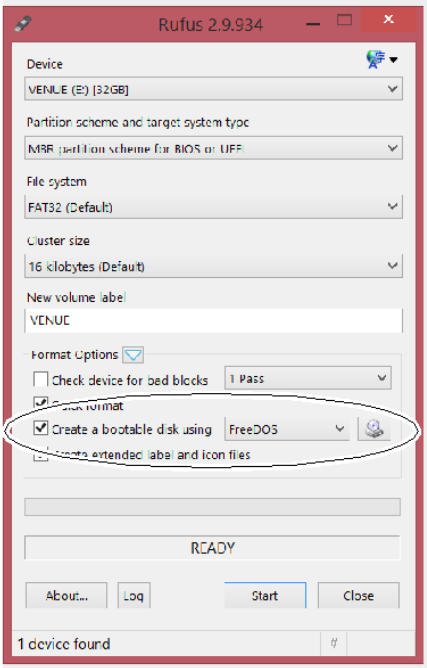
- USB key (the installer will replace all contents on the USB key, if any)
- VGA display and VGA cable
- USB keyboard (connect to USB ports on the front panel of the E6L Engine)
- Windows computer for creating a bootable USB key
- E6L_BIOS_Update (included in the System Restore or VENUE_Update_8.x.x.zip downloaded from your Avid Account)

After collecting all the required components, proceed to "Creating the BIOS/BMC Update Key" below.

Creating the BIOS/BMC Update Key

To create the BIOS/BMC Update Key:

1. Make sure you have the **`E6L_BIOS_Update`** (included in the Restore and Update.zip files).
2. Insert a USB key drive into an available USB port on your Windows computer. (Reminder: All contents of this drive will be erased as part of the BIOS/BMC key preparation.) To avoid confusion, make sure no other USB drives are plugged in.
3. Navigate to the “Additional Files” folder within the downloaded System Restore folder.
4. Launch Rufus 2.9.
5. In Rufus, do the following:
    a. Choose the USB drive from the **`Device`** pop-up menu.
    b. Under **`Partition scheme and target system type, choose MBR partition scheme for BIOS or UEFI`**.
    c. Make sure **`Create a bootable disk using`** is checked and **`FreeDOS`** option is chosen on the right.
    d. Click **`Start`**, then click **`OK`**.



Rufus window

6. Rufus begins to format the USB drive and progress is indicated on-screen.

   If the Autoplay window appears during formatting, close it.

7. Wait until formatting is completed (indicated by **Done** at the bottom of the Rufus window).
8. Close Rufus.
9. Copy all files from the **Files** folder under **E6L BIOS Update** directly into the root of the USB drive. Overwrite any files if prompted (such as **AUTOEXEC.BAT** and/or **CONFIG.SYS**).
10. Eject (safely remove) USB drive and disconnect it from Windows PC. USB drive is ready.

Updating the BIOS and BMC on E6L

To update the BIOS/BMC on the E6L:

1. Make sure VENUE 8.0 or later is already installed on the system.
2. Make sure your E6L is connected to a reliable power source to ensure an uninterrupted update (do not power on the E6L yet).
3. Connect a VGA display to the E6L Engine **VGA** Port.
4. Connect a keyboard to the front panel E6L Engine **USB** ports.
5. Insert the bootable BIOS USB drive into an available USB port on the back panel of the E6L.
6. Power on the E6L Engine and hold F10 during bootup until you see the BIOS message on the VGA display (release F10 when the BIOS message appears).
7. Using the up and down arrow keys, select option 1: **Updating from VENUE 7.x or earlier to 8.0+, for all E6L engines.**
8. Press Enter.
9. Wait at least 60 seconds, as prompted.
10. You will be asked to confirm that you are running the update on a supported device. Type “Y” if running on an E6L-192, E6L-144, or E6L-112.
11. When prompted, type “Y” again to confirm that the engine is connected to a reliable power source.

12. Wait for the update process to complete (approximately five minutes).

    ⚠ **Do not press any keys unless prompted to do so on-screen.**

13. When prompted, disconnect the USB drive and power down the engine.
14. Wait at least 30 seconds, then power the engine back on. The engine will be restarted several times and come back online fully after approximately 6 minutes.

Downgrading BIOS and BMC from VENUE 8.x to VENUE 7.2.4 or Earlier

To downgrade an E6L from VENUE 8.0 or later to VENUE 7.2.4 or earlier:

1. Make sure VENUE 8.0 or later is installed on the engine.
2. Make sure your E6L is connected to a reliable power source to ensure an uninterrupted update process (do not power on the E6L yet).
3. If you have not already done so, follow the instructions in "Creating the BIOS/BMC Update Key" on page 25.
4. Connect a VGA display to the E6L Engine **VGA** Port.
5. Connect a keyboard to the front panel E6L Engine **USB** ports.
6. Insert the bootable BIOS USB drive into an available USB port on the back panel of the E6L.
7. Power on the E6L Engine and hold F10 during bootup until you see the BIOS message on the VGA display (release F10 when the BIOS message appears).
8. Choose the appropriate option:
   - Press 2 to downgrade an E6L-192 or E6L-144 (only) from VENUE 8.0 or later to VENUE 7.2.4 or earlier.
   - Press 3 to downgrade an E6L-112 (only) from VENUE 8.0 or later to VENUE 7.2.4 or earlier.
9. Wait at least 60 seconds, as prompted.
10. When prompted, type Y to confirm you are running the update on a supported system.
11. When prompted, type Y to confirm VENUE 8.0 or later is installed.
12. When prompted, type Y to confirm that the engine is connected to a reliable power source.
13. Wait for the downgrade process to complete.
14. When prompted, disconnect the USB drive and power down the engine.
15. Wait at least 30 seconds, then power the engine back on. The engine should come back online after approximately 6 minutes.
16. Perform a successful boot to VENUE 8.x. Ignore any BIOS/BMC version warnings.
17. Perform a complete System Restore for the desired downgrade target version (such as 7.2.4 or lower).

If VENUE software was mistakenly downgraded to 7.2.4 or earlier before downgrading BIOS and BMC, the following errors may occur:

- **"Incorrect System Software"** error when booting with F5 and VGA. The System Software Does Not Match the Current Hardware Configuration.
- **"Unrecognized VENUE System"** error when attempting to boot from a restore key.

Workaround if You Downgraded in the Wrong Order

If the system encounters the "Unrecognized VENUE System" error due to incorrect downgrade order:

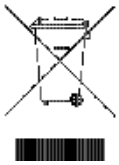
1. Boot the system into VENUE 8.x. If VENUE 8.x does not boot, use a VENUE 8.x USB restore key to restore the system.
2. After a successful VENUE 8.x boot, power down the system.
3. Proceed with a System Restore to VENUE 7.2.4.

⚠ **VENUE 8.x must boot successfully at least once after downgrading. This is an essential step before downgrading a software.**

If the issue persists, please contact VENUE support.

Environmental Compliance

Disposal of Waste Equipment by Users in the European Union



This symbol on the product or its packaging indicates that this product must not be disposed of with other waste. Instead, it is your responsibility to dispose of your waste equipment by handing it over to a designated collection point for the recycling of waste electrical and electronic equipment. The separate collection and recycling of your waste equipment at the time of disposal will help conserve natural resources and ensure that it is recycled in a manner that protects human health and the environment. For more information about where you can drop off your waste equipment for recycling, please contact your local city recycling office or the dealer from whom you purchased the product.

Proposition 65 Warning

WARNING! This product can expose you to chemicals including Pb and Pb compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to https://www.p65warnings.ca.gov/.

Perchlorate Notice

This product may contain a lithium coin battery. The State of California requires the following disclosure statement: “Perchlorate Material – special handling may apply, See https://dtsc.ca.gov/perchlorate/.”

Recycling Notice

EMC (Electromagnetic Compliance)

Avid declares that this product complies with the following standards regulating emissions and immunity:

- FCC Part 15 Class B
- ICES-003 Class B
- BS/EN, EN 55032 Class B
- AS/NZS CISPR 32 Class B
- CISPR32 Class B
- BS/EN, EN 61000-3-2
- BS/EN, EN 61000-3-3
- BS/EN, EN 55035

FCC Compliance for United States

Communication Statement

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try and correct the interference by one or more of the following measures:

- Reorient or locate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Any modifications to the unit, unless expressly approved by Avid, could void the user's authority to operate the equipment.

Cables

Connections to Avid hardware must be made with shielded cables with metallic RFI/EMI connector hoods in order to maintain compliance with FCC Rules and Regulations.

Any modifications to the unit, unless expressly approved by Avid, could void the user's authority to operate the equipment.

Australian Compliance

Canada ICES-003 Compliance

This Class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

Cet appareil numérique de la classe B respecte toutes les exigences du Règlement sur le material brouilleur du Canada.

Korea Class B EMC Compliance

이 기기는 가정용(B급) 전자파적합기기로서 주 로 가정에서 사용하는 것을 목적으로 하며, 모 든 지역에서 사용할 수 있습니다.

United Kingdom Compliance

(EMC, Safety, and RoHS)

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Gerrards Cross
England SL9 8EL

CE Compliance

(EMC, Safety and RoHS)

Avid is authorized to apply the CE (Conformite Europenne) mark on this compliant equipment thereby declaring conformity to EMC Directive 2014/30/EU, Low Voltage Directive 2014/35/EU and RoHS Directive 2011/65/EC Amended (EU) 2015/863.