

Axia Mix Engine Upgrade Package 2.4.8w3 Installation Notes

11 March 2008, Cleveland Ohio, USA

Important Note

Prior to performing any software update, you should always navigate to the Engine's System page and save your current configuration file.

Note that the information that the Engine needs for a restore from default is as follows:

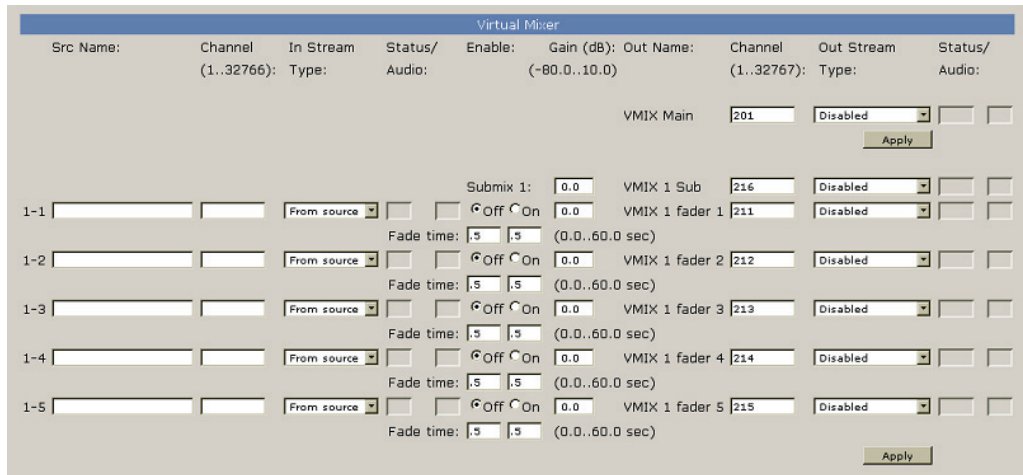
- IP Address
- Host Name (optional)
- Channel Number assignments *
- Stream types selected and enabled *
- Type of console the Engine is connected to (SmartSurface or Element)

Also note that this information can be saved simply by capturing screenshots of the engine's web pages. Doing so provides a good crosscheck after loading a configuration file, to verify that the Engine configuration has been applied correctly.

* For this upgrade it is highly recommended that you do this for the Program and Monitor Outputs and VMix web pages. Save them either as a screenshot or as a webpage to your PC's hard drive.

Important Pre-Installation Instructions for VMix Users

Introduced in Engine v2.4.8w3 is a new approach to controlling VMix. When an Engine running earlier software is upgraded to v2.4.8 or higher, the Engine will boot into a new default VMIX mode. **This process will remove any previously specified sources.** So if you were using VMix prior to the upgrade, there are some steps to take to recover your earlier settings.



Src Name:	Channel (1..32766):	In Stream Type:	Status/Audio:	Enable:	Gain (dB): (-80.0..10.0)	Out Name:	Channel (1..32767):	Out Stream Type:	Status/Audio:
						VMIX Main	201		Disabled
						Submix 1:	0.0		
1-1		From source		Off	0.0	VMIX 1 Sub	216		Disabled
				On	0.0	VMIX 1 fader 1	211		Disabled
					Fade time: .5 .5 (0.0..60.0 sec)				
1-2		From source		Off	0.0	VMIX 1 fader 2	212		Disabled
				On	0.0	VMIX 1 fader 3	213		Disabled
					Fade time: .5 .5 (0.0..60.0 sec)				
1-3		From source		Off	0.0	VMIX 1 fader 4	214		Disabled
				On	0.0	VMIX 1 fader 5	215		Disabled
					Fade time: .5 .5 (0.0..60.0 sec)				
1-4		From source		Off	0.0				
				On	0.0				
					Fade time: .5 .5 (0.0..60.0 sec)				
1-5		From source		Off	0.0				
				On	0.0				
					Fade time: .5 .5 (0.0..60.0 sec)				



After the Engine reboots from the upgrade, VMix settings will be similar to what is seen above. To preserve your previous settings, you'll need to determine which of the following two approaches best suits you:

Option 1. You already have VMix settings in use with Element control and prefer to continue controlling VMix with Element.

Option 2. You already had VMix settings in use with Element control and want to migrate to local control using the Engine.

Option 1

1. View the "Engine ID" page of the Engine.
2. Enable "Controlling V-Mixer from Element".
3. Choose "Apply".
4. Reboot Element (not the Engine). This initiates transfer of VMIX settings from Element to the Engine. To do this, press and hold the **Fader Options** key on Element's Monitor Module and choosing "Reboot."

Option 2

1. Follow the steps outlined in Option 1 above.
2. From the Engine's "Engine ID" page, select the "Save V-Mixer settings to config" option.
3. Disable the "Controlling V-Mixer from Element" option.

Update Instructions

- 1) Download software updater package **engine_2-4-8w3.tar** from www.AxiaAudio.com/downloads/ to a PC connected to the Axia network.
- 2) Using a PC connected to the Livewire network, locate the update package and upload the TAR file into Engine Bank 1. When the software has been received by the Engine, check the "Version ID" line next to the Bank 1 bullet - you should see **[2.4.8w3]** there.
- 3) Select Bank 1, containing the new Version 2.4.8w3 software, and select "Apply selected bank".
- 4) After reboot, the engine should be operating from Bank 1 with the new software version installed.

If you have trouble at any point during the upgrade process, please contact Axia Support via email at support@AxiaAudio.com , or by telephone at +1 (216) 241-7225.



Engine version 2.4.8w3 release notes

Fixes and New Features:

Software version compatibility:

Element application	2.0.0r12
SmartSurface application	not recommended
Nodes	2.3.3b2
IP audio driver Windows	2.4.8.12

Added: V-Mixer and V-Mode full local control via engine web page, destination routing control via LWRP, mixing control and mode selection via LWCP.

Added: Source sharing logic is now fully supported; source advertisement logic now allows creating backfeeds for engine outputs.

Added: Audio level meters now provide true peak value with hold function for the refresh period, and standard 300ms average RMS.

Fixed: Omnia headphone processing. New presets, tweaked parameters and eliminated processing bugs

Added: Extended EQ frequency ranges.

Added: Automatic upmixing to surround.

Fixed: LWRP server bugs.

Fixed: Slow show profile loading.

Fixed: A number of other minor and cosmetic enhancements and bug fixes.

Version 2.4.7e2

Software version compatibility

Element application	1.1.13.13a
SmartSurface application	2.50.59
Nodes	2.3.3b
IP audio driver Windows	2.4.7.3

Added: Automatic updating of MAC address mapping for known IP

Added: Mon1 headphones - new "Hot HP" Omnia dynamics preset

Added: Syslog event reporting of stopped/resumed streams, unwanted streams, stream conflicts

Fixed: Mon1 headphones - Omnia - AGC drive and mixer - Mid and High bands appeared cross-connected

Version 2.4.7c5

Added: Mic and Headphones control accessory module - phase2: source name display on engine, presentation on web page and front panel.

Added: Logging unwanted multicast to detect flooding

Fixed: The stream number limit for 100 Mbps links is now correct

Fixed: Trace log defects in diagnostics logging routines

Fixed: Fixed: Source loading speed

Fixed: Individual headphones - volume control now works

Fixed: Individual headphones - external source selection now works



Version 2.4.6f1

Added: Mic and Headphones control accessory module - phase2: Implemented volume control. Must use Element ver 1.1.13x or higher (still in testing)

Added: Mon1 HP Omnia processing - meters - interface for enabling/disabling and setting the remote IP address

- Known bug here: Wrong IP address range check causes meters to not work if the remote IP is set >= 128.x.x.x
- Improvement: Advertising discipline - insert a delay before sending advert messages on source changes

Version 2.4.6d8

Added: Dynamics processing in headphones - Phase 1:

- Enabled processing in the CR HP path
- Full list of Omnia A/X presets is offered. factory-defined, currently selectable from Engine web page only

Added: Engine - SPLITTING the RECORD bus

Added: Health monitoring functions - support for motherboard

Added: Web - system status - show fan speed measurement

Improvement: Diagnostics interface improvements

Fixed: Front Panel - VMIX - Output page does not automatically follow value changes

Fixed: Source name for RECORD should be "Program 4 Record", not "Program 3 Record"

Fixed: VMIX outputs: Pathfinder sees them listed even if they are OFF

Fixed: V-Mixer - source name is shown only if the input was idle before

Fixed: Front panel - PGM and Monitor I/O, VMIX I/O screens - audio level indicators do not work

Fixed: Config backup, executed immediately after entering new output channel numbers, returns them to old values

Fixed: Fader channel - AUX SEND pre/post-fader - inconsistent startup defaults

Version 2.4.5b1

Fixed: Engine returns wrong backfeed presence status - "disconnected" for existing backfeeds

Version 2.4.5b

Added/Changed: Program 4 split to two streams, Stream Program 4 now follows Post ON/OFF, Post Fader. Stream called Program 4 Record replaces previous Program 4 functionality of Pre ON/OFF, Post Fader operation.

Improvement/Changes: PHONE and RECORD mixing buses in Element mode

- Phone Bus- Follows Program 4 selection and is Pre ON/OFF, Pre Fader. Internal to Engine only.
- Feed to source option PHONE changed from Program 1 feed to follow Phone buss now.
- Feed to source option AUTO now follows rules for channel ON/OFF to feed Pgm 1/Phone Bus to backfeed of Phone and Codec sources

Changed: V-Mixer - default output channel numbers: main 201, Submix 1 faders 211-215, Submix 1 Out 1 216, Submix 2 faders 221-225, Submix 2 out 226,

Changed: Startup defaults for console type and output channels must be for Element console

Improvement: Phone and codec - feed to source - 3dB level compensation for mono sum

Added: Health monitoring functions for Motherboard

Changed: The "OFF" command (shut down and halt) is redundant as it results in restarting the engine



Version 2.4.5a1

Added: V-Mixer added to Engine. Requires Element version 1.1.11x and higher.

Version 2.4.4g6

Fixed: glitching with Element's voice processing, Fixed code and made Compressor Attack faster

Version 2.4.4g5

Fixed: Fader channel - PGM4 pre/post-ON - startup default must be post-ON

Fixed: Backward feed source select - Aux1..Aux4 do not work (Element can use these only starting from release 1.1.10)

Fixed: Headphone backfeed levels from the engine to any Mic Position are at reduced levels

Version 2.4.4g4

Fixed: Mic processing - gain reduction meters not working if signal is present only in one of stereo channels

Version 2.4.4g2

Added: Engine diagnostics interface improvements - new events in the trace log file

Added: New source type COMPUTER

Fixed: Wrong number of sources (NUMS) in adv messages after switching between different console types

Fixed: On enabled outputs, the LW channel numbers cannot be changed

Fixed: At startup, engine does not detect- unplugged network cable and Half Duplex error

Fixed: Improper watchdog handling at application shutdown causes failures to install further software updates

Version 2.4.4x

Added: Surround PAN control on Aux returns

Added: Monitor source select - P1..P4, Aux1..Aux4, Ext1, Ext2

Added: Feed to source options added P3, P4, A1..A4

Added: Code to support new meter source select options - MET2/4.SRSW to RECORD

Added: Front panel passcode. Accessible from System Web Page

Added: Code to support new Mic and Headphones control accessory modules, Phase 1 Improvement: Improved Engine diagnostics options

Fixed: Fader channel's stereo PAN (SmartSurface mode)- wrong state when loaded by show profile