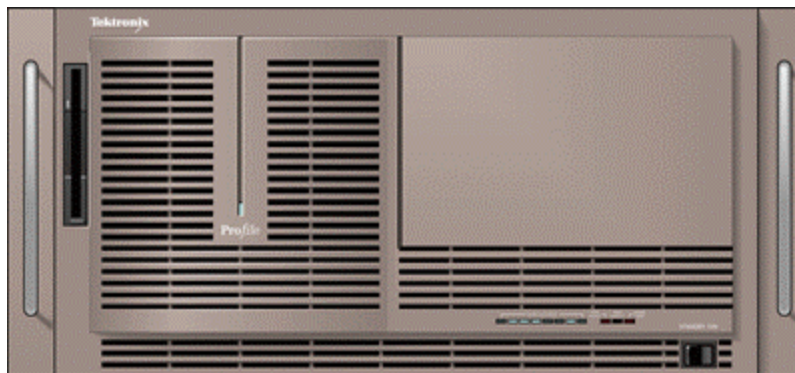


TECH NOTE

Fastrack VS Verion 2.0 and later

PROFILE PDR INTERNAL AUDIO MIXER



The Fastrack VS hybrid editing system interfaces to the Grass Valley Group Profile PDR Video Server's "Internal Audio Mixer" via Ethernet.

Setting Fastrack's Profile.MIX file

Open the Profile.MIX file in the MIXERs folder of FTRUNTIME (in the Fastrack application folder) with the NotePad application.

Set the following:

MixDown=1

SendOnEven=0

AudioOut=0 [this is the starting point for the first channel to monitor]

AudioChannelCount=4 [or 2 for just two channels]

After editing this file, **Save As** (looking at All Files) to ensure the file is saved with the Profile.MIX extension (will not work if saved as Profile.MIX.txt).

Internal Profile Mixer Setup

MONITORING

The Profile can be monitored directly from the channels defined in the **Profile.MIX** file (Fastrack's Mixers folder). There are audio channel start and audio channel count assignments. Typically, the Profile is set up as a four channel device and always starts counting at zero, hence for the first Profile channel to be the 'monitoring' device, set the **AudioOut=0** and the **AudioChannelCount=4**. For Stereo (just two channels), set the **AudioChannelCount=2**. Physically connect cables to the first through fourth (for four channel) or first and second outputs (for stereo) and feed to amp/speakers or powered speakers for monitoring purposes.

Ensure that the Profile Audio Inputs/Outputs are set according to the type of audio being used (analog, AES, SDI, etc.) in the Configuration Manager using the ASPB icon (fourth icon).

INTERNAL PROFILE CHANNEL CROSSPOINT ASSIGNMENTS

Since PDR audio is handled in groups of four, the audio settings for any specific configuration of a Profile channel (or Fastrack resource) must consider the four channel groupings: 0-4, 5-8, 9-12, 13-16. It is not possible to hear only channels 3-4 or 7-8 if stereo is desired. Instead, one must use 0-1, 4-5, 8-9, and/or 12-13 for two channel sources (note: Profile PDR audio resources are zero-based, starting with 0 through 15).

Four channels per device:

Assign the following audio cross-points in the Source Assignment page [**SHIFT**]+[**ASGN**] in Fastrack VS for the Profile Internal Audio Mixer setup:

Track 1, PDR1	A1=0, A2=1, A3=2, A4=3
Track 2, PDR2	A1=4, A2=5, A3=6, A4=7
Track 3, PDR3	A1=8, A2=9, A3=10, A4=11
Track 4, PDR4	A1=12, A2=13, A3=14, A4=15

Two channels per device:

Assign the following audio cross-points in the Source Assignment page [**SHIFT**]+[**ASGN**] in Fastrack VS for the Profile Internal Audio Mixer:

Track 1, PDR1	A1=0, A2=1
Track 2, PDR2	A1=4, A2=5 (due to PDR using 4 tracks per channel)
Track 3, PDR3	A1=8, A2=9
Track 4, PDR4	A1=12, A2=13

EXTERNAL SOURCES CROSSPOINT ASSIGNMENTS

External audio sources (VTRs, ATRs, CD players, etc.) can also be utilized by the PDR internal audio mixer. The sources are attached to the physical audio inputs of the PDR (either on the PAC216 or BNC breakout panels) and the PDR channel number specified on the Fastrack audio crosspoint assignment page [**SHIFT**]+[**ASGN**] has 32 added to it to indicate an external source.

Two channel external device examples:

Assign the following audio cross-points in the Source Assignment page [**SHIFT**]+[**ASGN**] in Fastrack VS for the Profile Internal Audio Mixer:

Track 5, VTR11	A1=32, A2=33 (physical inputs 1-2)
Track 6, ATR12	A1=36, A2=37 (physical inputs 5-6)
Track 7, CDplay	A1=40, A2=41 (physical inputs 9-10)
Track 8, Tone	A1=44, A2=45 (physical inputs 13-14)

Four channel external device examples:

Assign the following audio cross-points in the Source Assignment page [**SHIFT**]+[**ASGN**] in Fastrack VS for the Profile Internal Audio Mixer setup:

Track 5, VTR11	A1=32, A2=33, A3=34, A4=35 (physical inputs 1-4)
Track 6, ATR12	A1=36, A2=37, A3=38, A4=39 (physical inputs 5-8)
Track 7, CDplay	A1=40, A2=41, A3=42, A4=43 (physical inputs 9-12)
Track 8, Tone	A1=44, A2=45, A3=46, A4=47 (physical inputs 13-16)

MIXER SETTINGS

Under **Audio Mixer** in the Source Assignment page [**SHIFT**]+[**ASGN**], ensure the "Enabled" box is checked. Any changes to the Source Assignment settings should always conclude with an off/on cycle of the "Enabled" box to force Fastrack to re-connect to the Audio Mixer with the new settings.

Set **TYPE**: to **Profile.MIX** from the drop-down menu.

Set **CONNECTION**: to **NONE**, since the Profile is controlled directly via Ethernet (and not a serial port).

Pressing [**Shift**]+[**Reset**] will 'awaken' all peripherals and notify of connections to devices.

"**AudioMixer Profile on Channels 1 to 4**" indicated in the status area, shows proper connection to the "Internal Audio Mixer" has been made and that the first four channels are being monitored for the audio mixer's output ("...Channels 1 to 2" indicate only two channels [stereo] are being monitored). This monitoring is using the same resources used for T1 of the Fastrack. Be advised that simultaneous events left on the timeline indicating T1 audio tracks (even if 'covered over' by subsequent events and not expected to be heard) and cross-fades on other tracks (ie., T2 mixing with T3) will result in three sources being mixed: T2 and T3 plus the unwanted T1. Remove the T1 audio tracks during the T2 to T3 transition to prevent this anomaly.