*P*e*t*e's *R*i*edel Tips – Mixing stereo headsets for 3 Announcers*

In a recent show, I was asked to create the mixes for the stereo headsets for 3 announcers. After several discussions as to who should hear what, I gave up and created this mixer to do anything. I was using the Studio Technologies Model 212 announcer's consoles. They are compatible with Riedel coax AES ports and provide stereo headsets and separate mic and comm talk paths back to the Riedel Artist over a single Coax cable. The consoles can do this:

- Microphone preamp with selectable gain and 48 V phantom power
- Two digital audio input channels
- Two pushbutton switches offer programmable "click-free" audio path control
- Digital audio main and talkback output channels
- Digital interfaces directly compatible with unbalanced AES digital audio signals
- Bidirectional digital interface for direct integration with Riedel® intercom systems
- Stereo headphone monitoring of selectable sources
- Two rotary headphone output level controls
- Microcontroller-directed audio routing
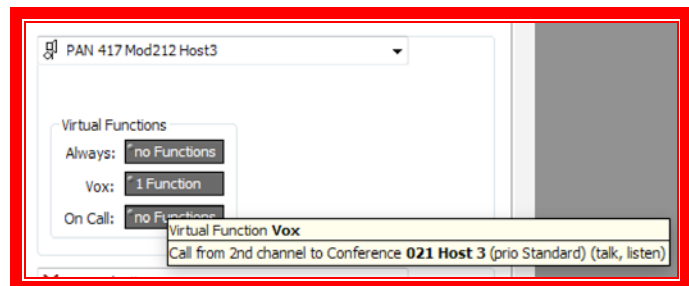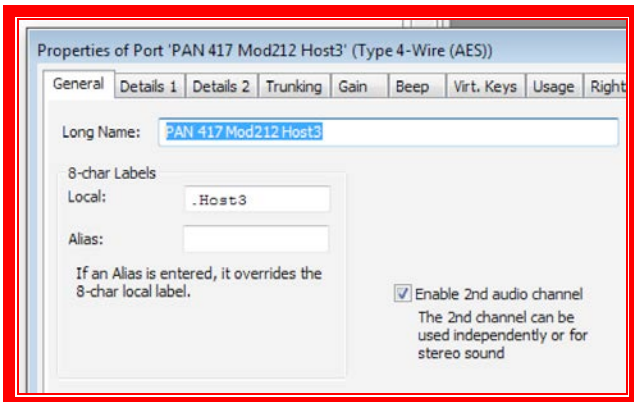- All configuration switches accessible via the bottom of the enclosure

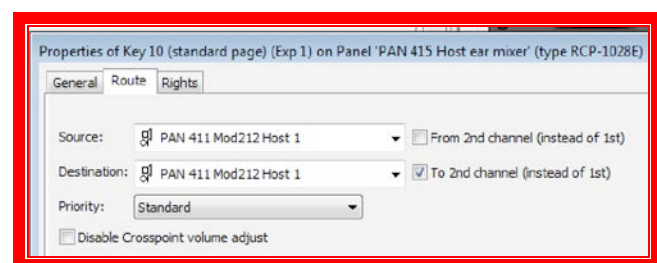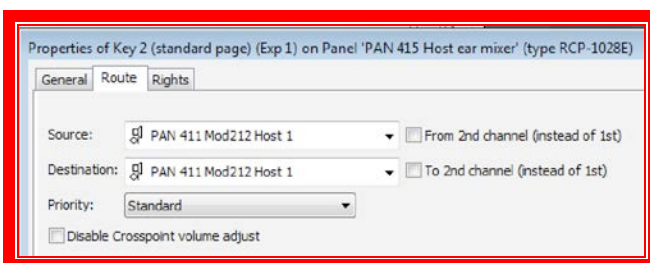Model 212 Announcer's Console Front and Back Views

The 3 ports were setup as AES ports in 2-channel mode.

1	COAX-108 G2	▼	1.1	4-Wire (AES)	▼		PAN 411 Mod212 Host 1	▼
			1.2	(the port above…				
			1.3	4-Wire (AES)	▼		PAN 413 Mod212 Host 2	▼
			1.4	(the port above…				
			1.5	RCP-1028E	▼	2 expansion panel(s) ▼	PAN 415 Host ear mixer	▼
			1.6	<unused>	▼			
			1.7	4-Wire (AES)	▼		PAN 417 Mod212 Host3	▼
			1.8	(the port above…				

Each of the ports 1.1, 1.3, and 1.7 had the second channel enabled and only the comm conference was connected to each.

Properties of Port 'PAN 417 Mod212 Host3' (Type 4-Wire (AES))

General | Details 1 | Details 2 | Trunking | Gain | Beep | Virt. Keys | Usage | Right

Long Name: PAN 417 Mod212 Host3

8-char Labels
Local: .Host3
Alias:
If an Alias is entered, it overrides the 8-char local label.
☑ Enable 2nd audio channel
The 2nd channel can be used independently or for stereo sound

PAN 417 Mod212 Host3 ▼

Virtual Functions
Always: no Functions
Vox: 1 Function
On Call: no Functions

Virtual Function Vox
Call from 2nd channel to Conference 021 Host 3 (prio Standard) (talk, listen)

A Riedel panel was used to make the mixer. Each row was one ear (Left or Right). Columns were setup for Pre fader from each Model 212 (all within the Artist), and columns with Post fader from the FOH mixer. Each button was a route audio command like this-on the left is the Host 1 pre feeding the host 1 left ear and the right has the same for the right ear (note 2nd channel check)

Properties of Key 2 (standard page) (Exp 1) on Panel 'PAN 415 Host ear mixer' (type RCP-1028E)

General | Route | Rights

Source: PAN 411 Mod212 Host 1 ▼ ☐ From 2nd channel (instead of 1st)
Destination: PAN 411 Mod212 Host 1 ▼ ☐ To 2nd channel (instead of 1st)
Priority: Standard ▼
☐ Disable Crosspoint volume adjust

Properties of Key 10 (standard page) (Exp 1) on Panel 'PAN 415 Host ear mixer' (type RCP-1028E)

General | Route | Rights

Source: PAN 411 Mod212 Host 1 ▼ ☐ From 2nd channel (instead of 1st)
Destination: PAN 411 Mod212 Host 1 ▼ ☑ To 2nd channel (instead of 1st)
Priority: Standard ▼
☐ Disable Crosspoint volume adjust

On the left side buttons were Call functions to talk directly to that ear for setup.

On the right there is a LSN button to hear the PA feed and below it a button to the Host's comm line.

The bottom row left are channel gain controls for the feed to the PA mixer. To prevent preamp overloads the Model 212 box was set at 20 dB gain on the announcer's mics and the rest of the gain was added in the Riedel analog output feed.

At the Node nearest to the Audio stage box the post fade inputs and mic outputs were connected.

		5.6	4-Wire split (A...	▼		IN 256 IN Host 3 Post fade	▼	OUT 256 Out Host 3 Mic
		5.7	4-Wire split (A...	▼		IN 257 IN Host 1 Post fade	▼	OUT 257 Out Host 1 Mic
		5.8	4-Wire split (A...	▼		IN 258 IN Host 2 Post fade	▼	OUT 258 Out Host 2 Mic