# Pete's Riedel Tips

The show was a multiple remote site event. The main site was sending the program to each site over a common one way fiber. Each site was also able to send their video back to be combined in the total program over a dedicated fiber from each site.

We were tasked to setup a comm channel for coordination of all sites. Each site did not have a 4-wire connection, just the common mix from the main site and their dedicated return back. The idea is that all sites heard the output from a PL channel and then had their talk separately injected into the common PL channel. Every site was to be able to hear each other.

Each of the remote sites would be using an RTS system which was not a matrix system, just simple 2-wire. There were 8 sites and I did not want to use that many hybrids on the same PL channel since they would be very squirrelly and the channel would have ringing due to the often poor nulling or incomplete nulling of the hybrids.

We used **No-Hybrid 4-wire interfaces** as detailed in a separate paper on this website.

The fiber systems tended to occasionally make terrible noise when repatching was done at the remote sites. I wanted to be able to quickly disconnect a port from the party line if the noise happened. I devised this method to easily connect and disconnect each site while monitoring each feed just on my panel.
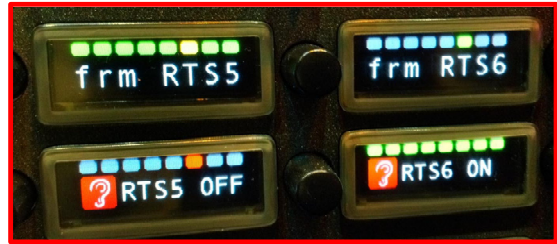
**The challenge is finding a way to use the route audio function to connect/disconnect to a party line. The trick is to use a Riedel Artist AIO port as a conversion port. Connect the output to the input, send the input to the party line and then use route audio from the desired 4-w port to the conversion port output.**

This port has its audio output connected to its input. It is also connected to the party line in Talk only mode. Now any audio routed to the Output will go to the PL group.
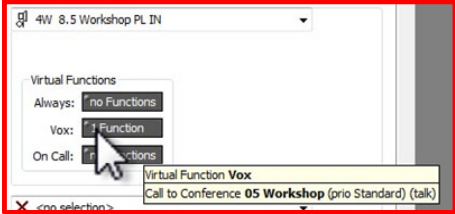


ON/OFF button programming – cross point volume adjust is disabled. The **Route audio** function connects the RTS input port to the "Conversion" port and also a **Remote Key** function sets the key to display the words **RTS8 ON** when engaged and **RTS8 OFF** otherwise. A special marker will display all Green when the button is ON.



Local listen to feed when port is disconnected from PL for operator to monitor incoming line.
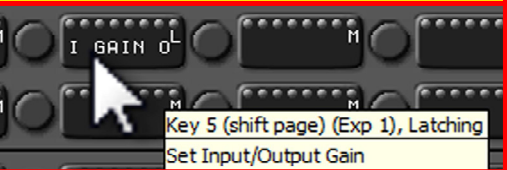**Port is also set for I/O Gain on Panel**



On the Local LISTEN button the port is set to flash the words **8 AUDiO** by placing the remote key command in the vox function. The marker is user defined 2 which is flashing red. Priority of the marker is adjusted to make it > the standard marker. This assists in determining from which channel someone is talking.
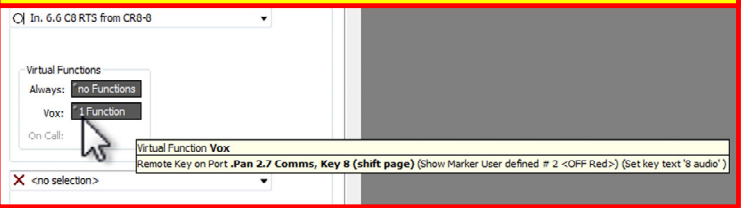


The workshop PL always sends to all the rooms on a common fiber feed #8
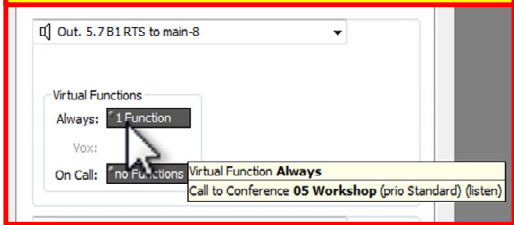


Place a gain control function on the panel to adjust RTS input gains.