# TECHNICAL NOTES

TN132 No Audio Timeout Settings

For any receiver ports you have on your voter, there is, by default, a 10-second no audio timeout feature enabled. This feature is enabled as a failsafe in case of a receiver failure so that a transmitter will not stay keyed indefinitely. For example, if a receiver goes active and triggers the vote either on COR input or loss of status tone, that port can potentially vote and route voted audio to a console/dispatch port and also out a transmitter port(s) while providing keying on the transmitter port(s). But what happens if a receiver line fails? For example, a receiver line using status tone might fail causing the status tone to drop and triggering that port to vote. If that port votes, it will immediately key up the transmitter. In the case of a line failure, this key up will occur even though no audio is being received. The no audio timeout feature stops the keying after ten seconds of no audio detected on the voted port and also disables that port from voting again. The disabled port can only vote again following a return to the squelch condition and then the un-squelch condition again. For example, if a port using status tone fails, the status tone will drop triggering that port to vote. After ten seconds that port will timeout and become disabled. That port cannot vote again until it detects status tone again and then status tone drops to trigger a vote.

If other ports are also in the voting process at the time a voted port fails, the failed port can potentially stay voted during the silent period of ten seconds before it would switch over to another voted port. Some customers find the ten seconds to be too long and change the default from ten seconds to a shorter period. This can be done in the SNR menu for each of your receiver ports in your vote group. The screen shot on the next page shows this menu for a receiver port. You can see the default timeout period of ten seconds expressed in milliseconds in the center right area of the menu. Using the arrows, you can change this setting to a shorter period in 50 ms increments.

Caution! Do not change the setting for too short of a period, or else you risk the transmitter dropping during a normal pause in speech. Raven recommends setting this timer slightly longer than what you might expect a typical pause in speech to be during a vote. Under no circumstances, does Raven recommend you set it below 500 ms as this can cause the transmitter keying to drop sooner than the voter will switch to another receiver port.
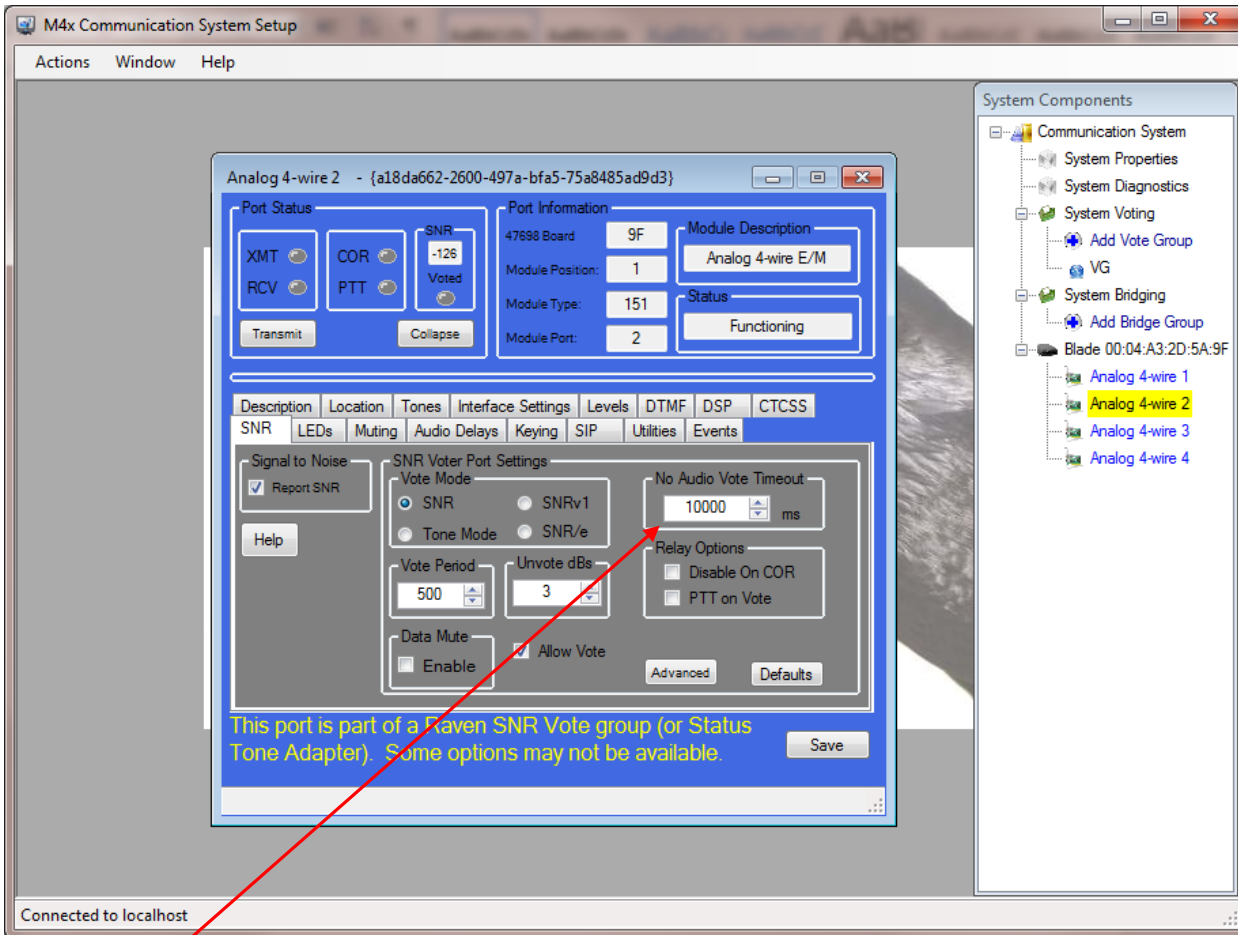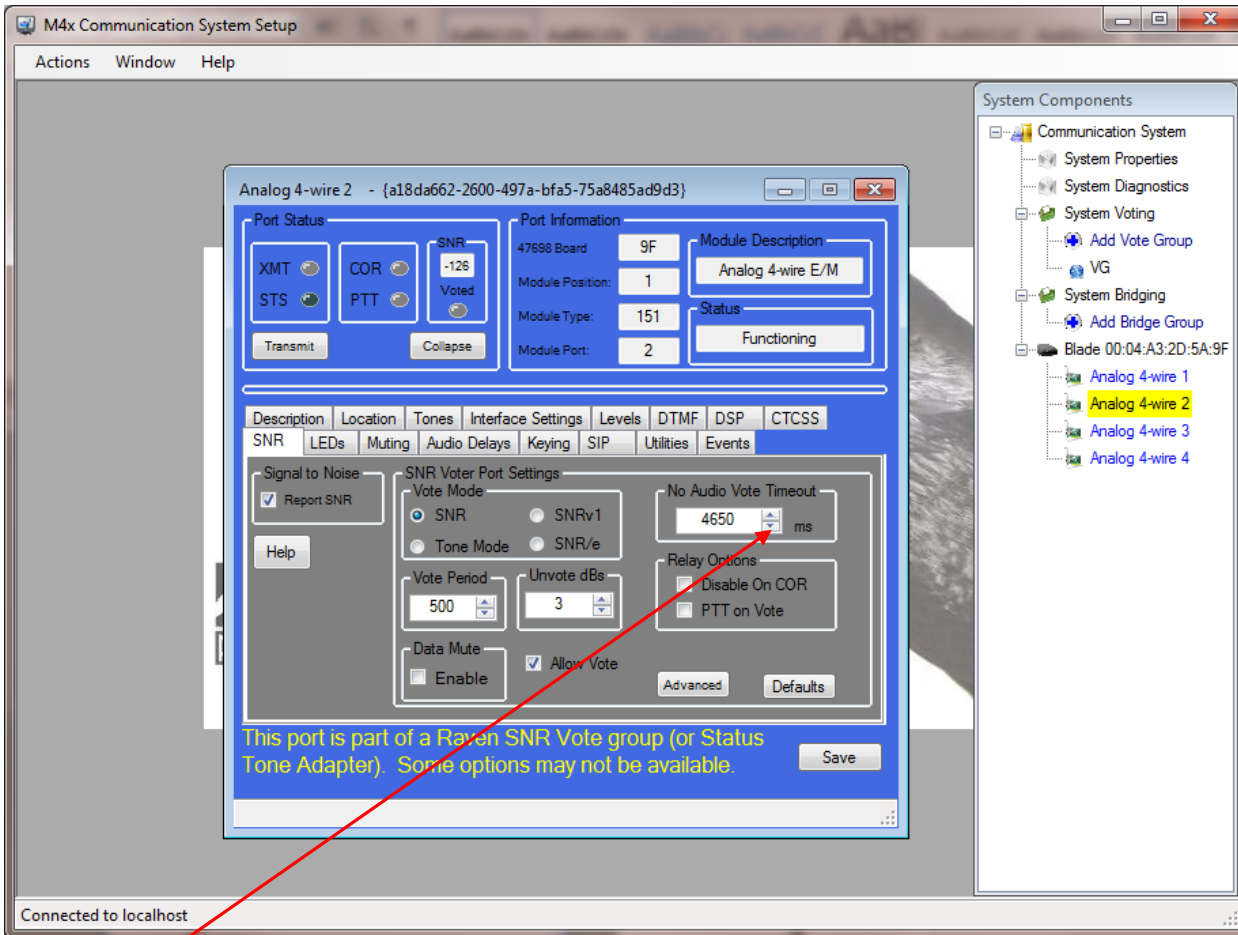
Default timer set to ten seconds.

Using these arrows, change the timeout period in 50 ms steps. Here it is shown changed to 4650 ms.