Using AERO.10/100/2000/soft to create a 'cleared' feed.

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Background

Many broadcast feeds also go to the Internet. Sometimes the feeds are live and sometimes they are delayed. Either way there are often broadcast rights associated with the content. While it is typical for broadcasters to own the rights, or secure the rights, for program content, the commercials and other interstitial elements may also have broadcast rights associated with them. An announcers voice track or a music bed may not be cleared for use on the Internet without additional fees being paid. An engineer at one of our client's facilities came up with a unique use for the Local Replace feature on AERO loudness controllers.

The AERO DRC Local (DRC Program 3 in AERO.10) associated with Input 9/10, has a Local operating mode. A source routed to Input 9/10 can replace the programing on DRC Program 1 or DRC Program 2 or both. The Replace mode can be controlled manually, using GPI, or automatically. When placed in the auto mode, called Vox, audio on Input 9/10 will automatically trigger replacement. When Input 9/10 is silent, Program 1 (and/or Program 2) will return the normal program source.

Solution

There are two parts to the solution.

First, the AERO.10 loudness controllers were placed in-line with the SDI feed(s) to the codecs feeding the Internet. An unused, embedded audio pair was routed to AERO.10 input 9/10. DRC Local was placed in Local and Vox with the Duck Level set to Mute Program.

The second part requires cleared, or sanitized, audio to be placed in the SDI stream on the designated pair, wherever there is content that cannot be sent to the Internet. Whenever the sanitized audio appears it automatically replaces the program audio. When the sanitized audio stops the normal audio program returns.

Configuration

Using NfRemote, navigate to Instance 1 > Input > Source and select the embedded pair with the sanitized audio. In Figure 1, below, SDI 11/12 is selected as the source for Input 9/10.
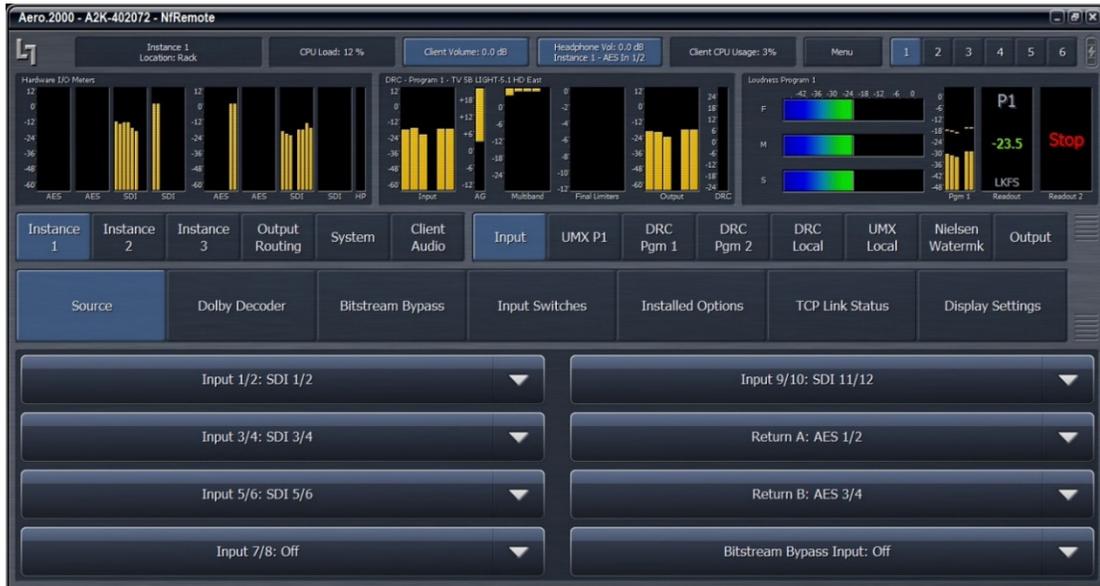
Figure 1 Source Selection

Next configure Local Mode. See Figure 2, below.

1. Navigate to Instance 1 > Output > Local.
2. Set 9/10 Input Mode: Local using the 9/10 Input drop-down.
3. Set Local Audio Override to Vox for 9/10 input audio to trigger the override.
4. Set the Destination to Program 1 or Program 1 and Program 2, as shown below.
5. Set Source to Stereo.
6. Setting Vox Holdoff to the minimum value of 0.1 seconds so that 9/10 input audio replaces program content in 0.1 seconds.
7. Setting Crossfade Speed: Quick makes the switch back to program audio fast but not fast enough to jump back during a pause in the sanitized audio. Slower speeds can be selected if pauses in the sanitized audio cause unintended returns to program audio.
8. Setting Duck: Mute Program removes all program audio during replacement by sanitized audio.
9. In the example configuration upmixing of the sanitized audio is enabled. This may be disabled is upmixing is not desired.

Figure 2 Local Override configuration

Save the Configuration

Navigate to System > System > Backup

Click Backup (Download) Configuration and save the current configuration to your computer.

Figure 3 Backup Configuration