

June 2014

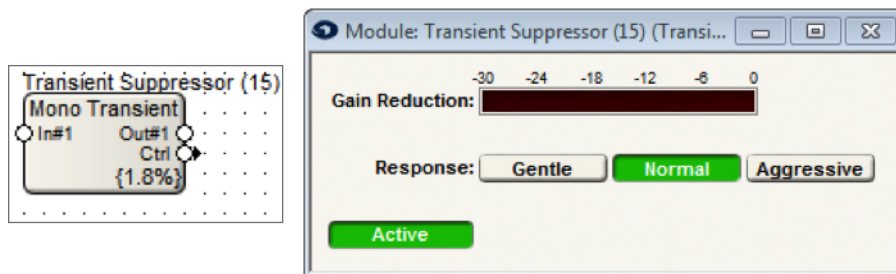
## Transient Suppressor DSP Module

A new feature that has been added to SymNet Composer 2.0 is the Transient Suppressor. A Transient Suppressor reduces the level of non-program audio, transients from a microphone input. Transients would be defined as quick, short bursts of unwanted noise. Imagine a conference room in which the attendees are eating lunch with silverware that clinks and clanks as the attendees eat. Without the transient suppressor the far end would be overwhelmed with all the transient clinks and clanks of the attendees eating. However, with a transient suppressor in line, only human speech would be sent to the far end and solitary clinks and clanks would be gated out.

**Gain Reduction Meter:** Indicates the amount of gain reduction applied when transient audio, clinks and clanks, are gated from the program audio or speech.

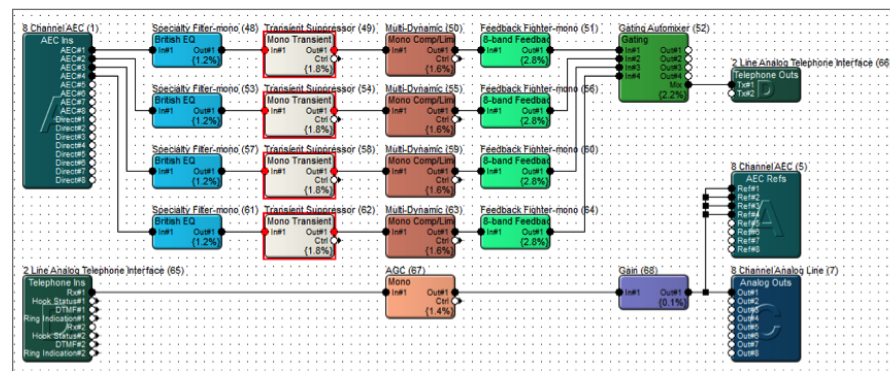
**Response:** There are three response presets that determine how much suppression is applied to transients in the program audio at the module's input. Gentle, Normal, and Aggressive. Gentle would be less suppression of transients but would also have less effect on the attack time of program audio and speech. Aggressive will suppress the transient signals in a more extreme way, but may also cause the first syllable of the first word spoken after a pause to be missed or gated.

**Active:** Activates the transient suppressor onto the audio signal input according to the response selected.



### Example:

In this example, the Transient Suppressor is used in a 4 channel AEC audio conferencing system.



The modules can be located in the Dynamics menu of the toolbox. They can be selected as Mono, Dual Mono, or Stereo Transient Suppressors. Notice that in this example the Transient Suppressor module is placed in the input processing stage of the signal path with other filtering and processing modules such as EQ, compression, and feedback elimination.

**Tip:** The Transient Suppressor "Response" buttons can be assigned controller numbers or saved into presets. The Transient Suppressor response could then be adjusted from SymVue, ARC remotes, the SymNet Event Scheduler, or a 3rd party remote control. This would allow the end user to adjust the response of the Transient Suppressor between Gentle, Normal, and Aggressive depending on the noise level of the room.

