DARE™ Feedback Eliminator Configuration Guide

ClearOne®

Supports Version 7.3.0.x

CONSOLE AI User Manual

Excerpt from pages 271-272

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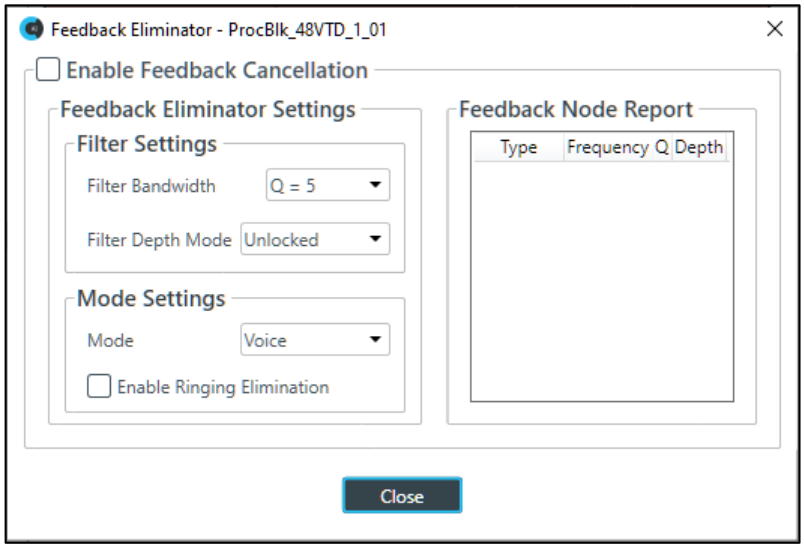
Feedback Eliminator

21. To enable or disable Feedback Eliminator, click the **Feedback** button.

The Feedback Eliminator dialog box appears:



Note: To set up Feedback Eliminator, you must be in online mode (connected to a device or stack). See *Online Mode vs. Offline Mode* for more information.

22. Change any of the Feedback Eliminator options, as described in the table below:

Enable Feedback Cancellation	Check the check box to activate the Feedback Eliminator on this processor channel.
Filter Bandwidth	Bandwidth is determined by the specified Q factor. A lower Q creates a filter that works across a wider frequency range. A higher Q utilizes a narrower range.
Filter Depth Mode	**Locked**: Filters are re-used. A replacement filter, with new settings and increased filter depth is applied in place of an existing filter. **Unlocked**: Adds a new filter at a specific frequency. No filters are replaced, so this setting will count against the total number of filters available.
Mode	Choose Voice or Music, depending on the type of audio most frequently used on this channel. **Note:** Voice Mode is the more aggressive setting.

Enable Ringing Elimination	Allows the feedback eliminator to suppress ringing. **Note:** This setting adjusts slowly to eliminate ringing.
Run Setup	Click to scan the audio channel for feedback loops and automatically create notch filters based on your choice of feedback cancellation settings. **Note:** Before you run the setup, you must select the microphones and gating groups that will be affected.
State	Shows the automatic setup status. **Off** if automatic setup has not been run. **Running** if the automatic setup is underway. **Complete** if the automatic setup has been run and is complete.
Number of Fixed Filters	Up to 16 Fixed Filters are applied. If the specified number of filters are not required, they become Dynamic Filters.
Target Gain Before Feedback	Set your desired dB rating. The unit slowly increases dB, adding notch filters at detected feedback frequencies until it either reaches the target level or reaches the number of Fixed Filters (see Number of Fixed Filters above). The system detects feedback through an open mic while levels are increased. If the target is reached without using the specified number of fixed filters, the remaining “slots” are used as Dynamic Filters to be applied as the environment changes.
Affected Microphones	Specify the microphone channels to which FBE will be applied. **Note:** You must make this selection prior to running the setup by clicking Run Setup.
Affected Gating Groups	Select the gating groups to which FBE will be applied. **Note:** You must make this selection prior to running the setup by clicking Run Setup.
Reset Feedback Eliminator	Clears all feedback cancellation settings.
Reset Dynamic Nodes	Clears all dynamic filters. Fixed filters remain in place.
Status	Shows how many fixed and dynamic filter nodes are being used.
Feedback Node Report	Creates a text report listing existing filter node details.

Note: If you are not connected to a device or stack, not all the options appear.

23. Click **Close**.