Netgear M4250 MRP timers

Systems using the Netgear M4250 series of switches for AVB can occasionally experience intermittent AVB stream faults with Tesira systems under certain circumstances. This can be seen in the Tesira logs as faults indicating "One or more AVB streams inactive" that appear and clear with regularity at consistent intervals of 1.5 to 1.6 seconds apart. Some faults may appear and clear at an interval of almost exactly 10 seconds. The default MSRP timer settings in the M4250 series of switches are somewhat lower than other AVB switch vendors. The defaults for the Join, Leave, and Leave All timers are 20, 100, 1000. The solution is to increase the default AVB MRP timer settings in the M4250 switch as outlined below.

AVB stream faults in Tesira Logs

This image captures an example of the faults that appear on the Tesira Event Logs when this issue exists.

MRP Timer Settings

MRP Timer settings should be adjusted to the following (values are in centiseconds):

- Join = 20
- Leave = 120
- LeaveAll = 2500

These settings are adjusted by accessing the Main UI interface on the Netgear M4250 switch.

You must first turn off MRP in order to make changes to the timer settings. Go to Switching->MRP->Advanced->MRP Configuration as shown below. Select Disable for MVRP Mode, MMRP Mode, and MSRP Mode and click Apply.
Go to Switching->MRP->Advanced->MRP Port Settings and change the timers for all ports that utilize AVB as shown below.

Click the **Apply** button to apply the changes.

Go back to Switching->MRP->Advanced->MRP Configuration as shown below. Select **Enable** for MVRP Mode, MMRP Mode, and MSRP Mode and click **Apply**.

Click the **Save** icon to make the changes permanent.
Further reading

- Netgear M4250 - Connecting to the M4250
- Useful CLI Commands
- Enabling AVB Using the AV User Interface
- Enabling AVB Using the Main User Interface
- Enabling AVB Using the Command Line Interface (CLI)

Netgear resources

- Installation Guide
- Hardware Installation Guide
- User Manual
- Audio Video User Manual
- Software Administration Manual
- Command Line Interface (CLI) Manual