Have you experienced link flapping issues with SFP+-based Myri-10G adapters and direct attach (DAC) cables?

Model:

Myri-10G adapters

Software:

N/A

Operating System:

N/A

Information:

Link flapping refers to repeated link up/ link down occurrences.

Are you using Myricom-certified “passive” DAC (a.k.a., Twinax) copper cables? Or DAC cables from a different supplier?

We only support “passive” direct attach cables, and our supplier for direct attach cables is Gore and Associates. Refer to the 10G-SFPDA-Xm section of this page: [http://www.cspi.com/ethernet-adapters/hardware/accessories/](http://www.cspi.com/ethernet-adapters/hardware/accessories/)

If you are using “passive” or “active” DAC cables from a different supplier, please continue reading the information below.

Yes. A few customers have experienced hardware incompatibility issues with some brands/lengths of direct attach cables. If you experience link up/down connectivity issues or bad crcs errors with direct attach (DAC) cables, please try a shorter length direct attach cable or replace the direct attach cable with an SFP+ transceiver module and fiber cable.

If the transceiver +fiber cable workaround is not possible, there are only two other possible workarounds that you could try to avoid this hardware issue. However, neither of these workarounds is guaranteed to alleviate the hardware incompatibility issue with the direct attach cable.

1. Does your 10GbE switch have a setting to reduce the TX preemphasis? If yes, experiment with reducing this setting to see if this alleviates the link stability issue with the direct attach cable. Some switches use a lot of TX preemphasis, and trying a different length direct attach cable may also help. Limited to a maximum of 7m cable length.

2. On the adapter, try modifying the equalization settings with the `mdio_rw` command. The `mdio_rw` command is available in the Myri-10G Network Adapter Toolkit.
   For short direct attach cables, try:
# mdio_rw 1.0xc015 1

And for longer direct attach cables, try:
# mdio_rw 1.0xc015 0
0x18 is the default value for equalization.

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