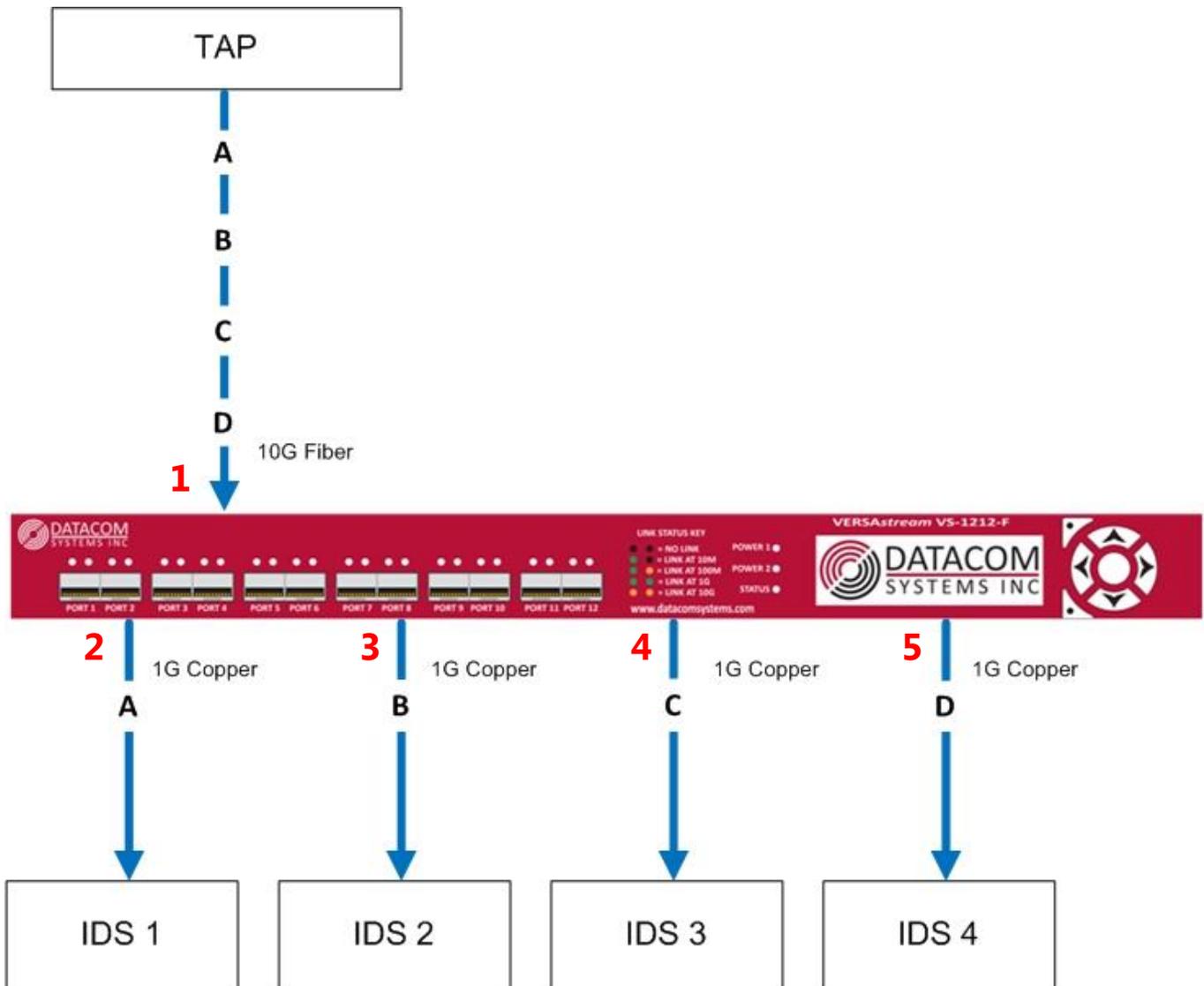


How to Set up Load Balancing on a VERSAStream

Background Case: There are a group of monitors to observe traffic from a high speed tapped link. The amount of traffic coming from the link is greater than any of the individual monitors can monitor. All of the traffic on the tapped link needs to be monitored by a set of Intrusion Detection Systems (IDS).



1. To set up the above configuration on a VERSAstream, the first step is to install the correct SFP types to connect to the devices on either end.
2. The next step is to configure the ports on the device to match the speed of the devices connected to them (For example, choosing between Auto-Negotiation copper or manually set speed).

Command	Description
<i>set port speed 1 10G</i>	Sets ports 1 to 10G Fiber speed.
<i>set port speed 2,3,4,5 CU-AUTO</i>	Sets port 2 through 5 to Auto copper speed.
<i>show port config 1-5</i>	Displays the configured speeds for ports 1-5.

3. A port group must be created consisting of the 4 ports that are connected to the Intrusion Detection Systems (IDS).

Command	Description
<i>create group output_ports</i>	Creates a port group named “output_ports”.
<i>add group member output_ports 2,3,4,5</i>	Adds ports 2, 3, 4, and 5 to the group.
<i>show group output_ports</i>	Shows the details for the group “output_ports”.

4. A load balancing configuration must be created to load balance traffic from the Tapped link to the 4 IDSs.

Command	Description
<i>create lbc LBC1</i>	Creates a LBC named “LBC1”.
<i>set lbc ingress-ports LBC1 1</i>	Sets port 1 as the ingress port for” LBC1”.
<i>set lbc egress-ports LBC1 output_ports</i>	Sets the port group “output_ports” as the egress ports in LBC “LBC1”.
<i>set lbc state LBC1 active</i>	Activates the load balance group to start passing traffic.

Result: Traffic from the Tapped link will now be load balanced to the 4 IDSs. The 1G monitoring devices are able to share the traffic coming in from the 10G link. This allows them to not become oversubscribed with traffic.