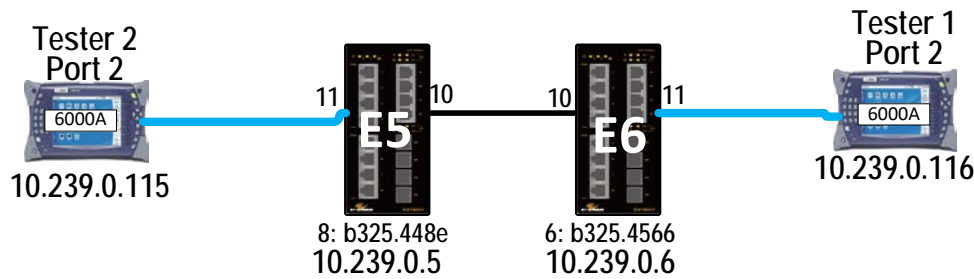


Etherwan QOS Test (April 11, 2022)

Setup: Two (2) Etherwan switches back-to-back and connecting testers to Trunk Ports.



Test traffic: 4 streams of 42.5 Mbps each = 169 Mbps (limit of the MW radio). The Etherwan ports # 11 are rate limited to 162 Mbps.

Streams:

- VLAN 300 / Pri 6 = 42.5 Mbps (Strict Priority)
- VLAN 44 / Pri 5= 42.5 Mbps (Queue 2/ Wt: 4)
- VLAN 72 / Pri 4= 42.5 Mbps (Queue 1/ Wt: 2)
- VLAN 11 / Pri 2=42.5 Mbps (Queue 0/ Wt: 1)

Below is the initial setup and result:

The screenshots show the configuration and results of the Streams Pipe test on both switches. The top row shows the initial configuration, and the bottom row shows the results.

Switch 10.239.0.115 (E5) Configuration:

Stream	Rx SVLAN ID	Rx CVLAN ID	Rx Pri	Tx SVLAN ID	Tx CVLAN ID	Tx Pri
1	300	0	6	300	6	6
2	44	2	5	44	5	5
3	72	0	4	72	4	4
4	11	0	2	11	2	2
5	---	---	---	---	---	---
6	---	---	---	---	---	---
7	---	---	---	---	---	---
8	---	---	---	---	---	---
9	---	---	---	---	---	---
10	---	---	---	---	---	---

Switch 10.239.0.115 (E5) Results:

Stream	Rx Frame Size, Cnt	Rx Load (L1, Mbps)	Tx Frame Size	Tx Load Type	Tx Load (L1, Mbps)	Tx Actives Frames
1	512	42.25	512	Const	42.25	734,611
2	512	42.25	512	Const	42.25	734,611
3	512	42.25	512	Const	42.25	734,611
4	512	42.25	512	Const	42.25	734,611
5	---	---	---	---	0.00	0
6	---	---	---	---	0.00	0
7	---	---	---	---	0.00	0
8	---	---	---	---	0.00	0
9	---	---	---	---	0.00	0
10	---	---	---	---	0.00	0
Total	---	169.00	---	---	169.00	2,938,444

Switch 10.239.0.116 (E6) Configuration:

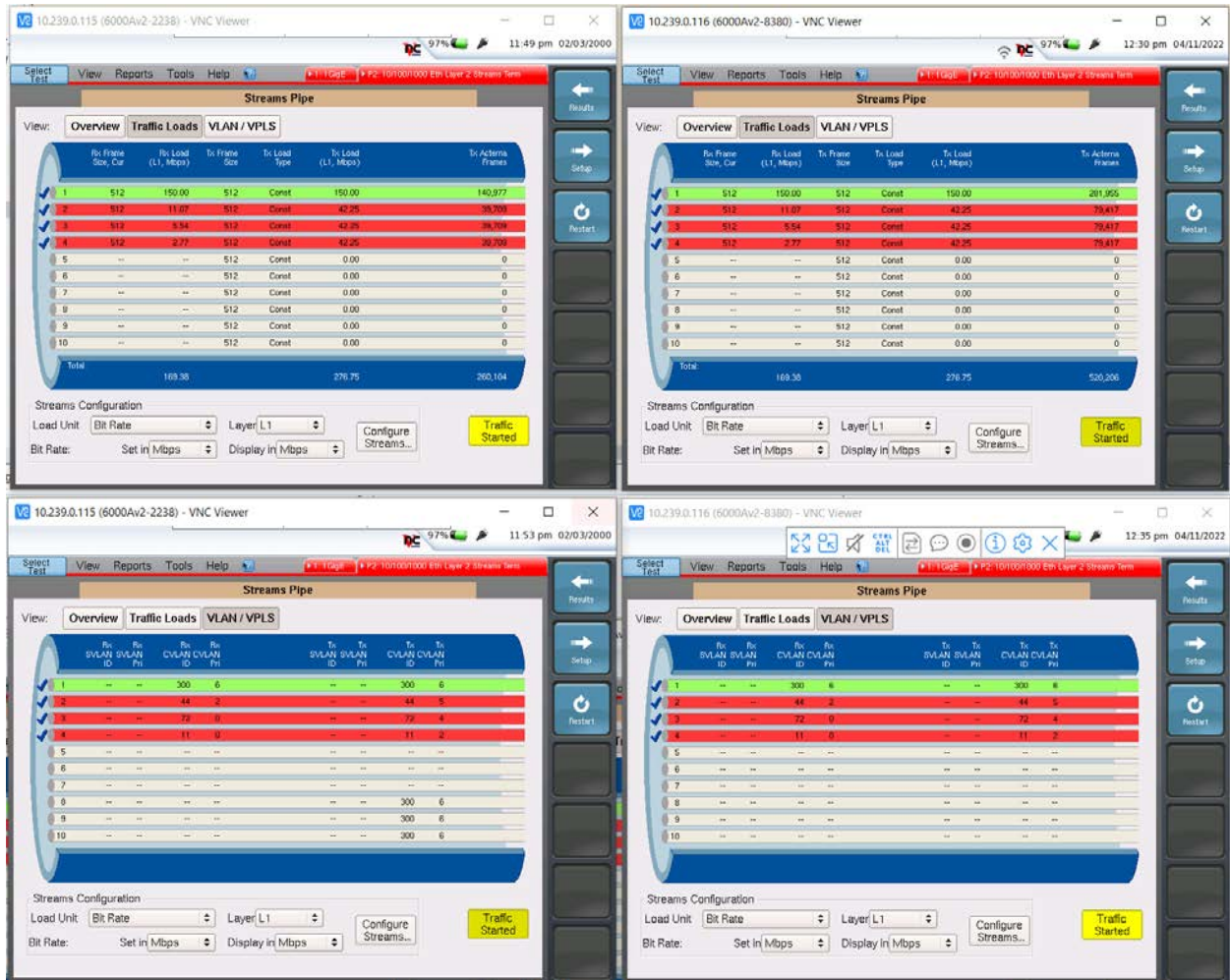
Stream	Rx SVLAN ID	Rx CVLAN ID	Rx Pri	Tx SVLAN ID	Tx CVLAN ID	Tx Pri
1	300	6	6	300	6	6
2	44	2	5	44	5	5
3	72	0	4	72	4	4
4	11	0	2	11	2	2
5	---	---	---	---	---	---
6	---	---	---	---	---	---
7	---	---	---	---	---	---
8	---	---	---	---	---	---
9	---	---	---	---	---	---
10	---	---	---	---	---	---

Switch 10.239.0.116 (E6) Results:

Stream	Rx Frame Size, Cnt	Rx Load (L1, Mbps)	Tx Frame Size	Tx Load Type	Tx Load (L1, Mbps)	Tx Actives Frames
1	512	42.25	512	Const	42.25	9,986,734
2	512	42.25	512	Const	42.25	9,986,734
3	512	42.25	512	Const	42.25	9,986,734
4	512	42.25	512	Const	42.25	9,986,734
5	---	---	---	---	0.00	0
6	---	---	---	---	0.00	0
7	---	---	---	---	0.00	0
8	---	---	---	---	0.00	0
9	---	---	---	---	0.00	0
10	---	---	---	---	0.00	0
Total	---	169.00	---	---	169.00	39,946,836

Only p-bit # 6 and #2 shows at the receiving tester. The p-bit #6 is correctly received. P-bit #2 p-bit is not correct since it is supposed to be p-bit #5.

After oversubscribing VLAN 300 to 150 Mbps, testers show VLAN 300 passing entire 300 Mbps while the other 3 VLANs divide traffic via 4:2:1 ratio.



It looks like the QoS is working even though the P-bits are not all correctly being shown at the receiving tester.