Switch Queue and Buffer Assignment

« QoS Congestion Management Switch Traffic Marking & Policing (/workbook/view/ccie-collaboration/task/qos-congestion-management-switch-traffic-marking-policing-MzA4Ng%3D%3D) | undefined »

Last updated: November 13, 2017

Tasks

- On SW1, assign the following configuration to switch: Of the available memory for all queues per interface, allocate:
  - 55% to Q1
  - 10% to Q2
  - 30% to Q3
  - 5% to Q4
- Of the available buffers for all WTD thresholds per queue, allocate:
  - 20% to T1
  - 80% to T2
  - 100% as reserved for all thresholds
  - 250% as the maximum that all thresholds can ever access
- Also assign Priority Queuing to all phone-attached interfaces
  - Map COS 0 and 1 to Q4T3.
  - Map COS 2 to Q2T2.
  - Map COS 3 to Q3T2.
  - Map COS 4 and 5 to Q1T1.
  - Map COS 6 and 7 to Q2T3.
  - Limit the bandwidth of traffic leaving Queue 2 to 40Mbps. Do this on phone ports.

Configuration: **Click to *collapse***

SW1

```
mls qos queue-set output 1 buffers 55 10 20 15
mls qos queue-set output 1 threshold 1 20 80 100 250
mls qos queue-set output 1 threshold 2 20 80 100 250
mls qos queue-set output 1 threshold 3 20 80 100 250
mls qos queue-set output 1 threshold 4 20 80 100 250
mls qos srr-queue output cos-map queue 1 threshold 1 4 5
mls qos srr-queue output cos-map queue 2 threshold 2 2
mls qos srr-queue output cos-map queue 3 threshold 2 3
mls qos srr-queue output cos-map queue 2 threshold 3 6 7
mls qos srr-queue output cos-map queue 4 threshold 3 0 1
interface range gi0/13-14
 priority-queue out
 srr-queue bandwidth shape 0 25 0 0
```

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