How to use make use of four queues limitation in AOS-CX 6400

**Labels: ArubaOS-CX Switches**

**Requirement:**

AOS-CX QOS guide does not state the hardware queues limitation in 6400.

"AOS-CX 10.09 Quality of  
Service Guide  
6200, 6300, 6400 Switch Series"

The document, explains how to make use of eight queues. There are eight queues in 6200, 6300, 8400 and 83\*\*.

In 6400, there are only 4 hardware queues. Command line will allow to type and execute eight queue-profile. But while applying the queue-profile and schedule-profile, below message could be seen.

*Unable to apply queue profile. Number of queues should not be greater than 4*

**Solution:**

Answer is to club together different local-priorities with available queues(0,1,2 and 3)

**Configuration:**

Below example shows how to club local-priority with four queues.

6400(config)# qos queue-profile q4  
6400(config-queue)# map queue 0 local-priority 0  
6400(config-queue)# map queue 0 local-priority 1  
6400(config-queue)# map queue 1 local-priority 2  
6400(config-queue)# map queue 1 local-priority 3  
6400(config-queue)# map queue 2 local-priority 4  
6400(config-queue)# map queue 2 local-priority 5  
6400(config-queue)# map queue 3 local-priority 6  
6400(config-queue)# map queue 3 local-priority 7

6400(config-queue)# show qos queue-profile

profile\_status profile\_name  
-------------- ------------  
applied        factory-default  
complete       q4                          << notice that it says complete  
incomplete     testqueue

6400(config-queue)# show qos queue-profile q4  
queue\_num local\_priorities name  
--------- ---------------- ----  
0         0,1  
1         2,3  
2         4,5  
3         6,7

Also, qos schedule-profile need to be tactically configured.

6400(config)#  show qos schedule-profile profile4  
queue\_num algorithm     weight max-bandwidth\_kbps  
--------- ------------- ------ ------------------  
0         dwrr          1  
1         dwrr          1  
2         dwrr          1  
3         strict               100000

6400(config)# show qos schedule-profile  
profile\_status profile\_name  
-------------- ------------  
applied        factory-default  
complete       profile4                   << complete  
incomplete     qosprofile  
complete       strict

**Verification:**

After applying the qos queue-profile/schedule-profile, there would not be any trouble

6400(config)#***apply qos queue-profile q4 schedule-profile profile4***

6400(config)#  show qos queue-profile  
profile\_status profile\_name  
-------------- ------------  
complete       factory-default  
**applied**      q4                  <<applied  
incomplete     testqueue

Tags: ArubaOS-CX Switches, 1910-48-jg540a\_5.20.r1118, arubaos-cx 10.08.xxxx, queue, #aos-cx, #6400