

CoS Mapping

In PicOS-2.1, if user enables the Class of Service (CoS) mapping, the packet will be mapped to a physical queue (0-7). With DSCP (0-7), it maps to queue-0 and with DSCP (8-16), it maps to queue-1 and so on. Queue-7 has the highest priority. Enable the CoS Mapping as follows:

```
admin@PicOS-OVS$ovs-vsctl set-cos-map true

admin@PicOS-OVS$ovs-vsctl show-cos-map
cos mapping: enabled
```

Display the configuration by entering the following:

```
admin@PicOS-OVS$ovs-vsctl show-cos-map ge-1/1/1
cos mapping: enabled
{
    dscp  queue
    -----
    0 - 7:  q0
    8 - 15: q1
    16 - 23: q2
    24 - 31: q3
    32 - 39: q4
    40 - 47: q5
    48 - 55: q6
    56 - 63: q7
}
```

To configure a flow, use the following command:

```
admin@PicOS-OVS$ovs-ofctl add-flow br0 in_port=1,d1_src=22:11:11:11:11:11,actions=set_queue:7,output=3
```

The action of "**set-queue:7**" will take the place of the default CoS mapping.

Modify the dscp value of port:

```
admin@XorPlus$ovs-vsctl set-cos-map true
admin@XorPlus$
admin@XorPlus$ovs-vsctl set interface ge-1/1/1 dscp_map=0=q1,1=q1,2=q2
admin@XorPlus$ovs-vsctl show-cos-map ge-1/1/1
cos mapping: enabled
{
  dscp queue
  -----
  0: q1
  1: q1
  2: q2
  others: q0
}
admin@XorPlus$
```

The following command is also permitted:

```
admin@XorPlus$ovs-vsctl set interface ge-1/1/2 dscp_map:0=q1 dscp_map:1=q1 dscp_map:2=q2
admin@XorPlus$
admin@XorPlus$
admin@XorPlus$ovs-vsctl show-cos-map ge-1/1/2
cos mapping: enabled
{
dscp queue
-----
0: q1
1: q1
2: q2
others: q0
}
admin@XorPlus$
```