

# 在Catalyst 6800ia接入端口配置示例的QoS

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## 简介

本文描述如何配置，验证和排除故障在思科Catalyst 6800ia主机端口的服务质量(QoS)。6800ia Cisco IOS软件版本152.1.SY和稍后Catalyst 6800 parent虚拟交换系统的(VSS)主机端口支持QoS。

## 先决条件

### 要求

本文档没有任何特定的要求。

### 使用的组件

本文档中的信息基于以下软件和硬件版本：

- Cisco IOS软件版本152.1.SY
- 思科Catalyst 6800 parent VSS

本文档中的信息都是基于特定实验室环境中的设备编写的。本文档中使用的所有设备最初均采用原始（默认）配置。如果您使用的是真实网络，请确保您已经了解所有命令的潜在影响。

## 背景信息

在Catalyst 6800ia的配置模式禁用，并且必须从parent执行6800ia主机端口的所有QoS配置。6800ia主机端口的QoS配置与策略映射。当应用对接口，此策略映射推送相关配置内部地对

6800ia然后编程硬件队列。

6800ia主机端口有1p3q3t体系结构在transmit (TX)方向。在本文的所有配置示例仅适用对在6800ia的TX队列。

当没有时明确QoS配置在6800ia在默认状态建立接口，接口能看起来类似于此示例输出的6800ia主机：

```
6880-VSS#show run int gi101/1/0/1
```

```
interface GigabitEthernet101/1/0/1
  switchport
  switchport trunk allowed vlan 500
  switchport mode access
  switchport access vlan 500
  load-interval 30
end
```

```
6880-VSS#show queueing interface gi101/1/0/1
```

```
Interface GigabitEthernet101/1/0/1 queueing strategy:  Weighted Round-Robin
```

```
Port QoS is disabled globally
Queueing on Gi101/1/0/1: Tx Enabled Rx Disabled
```

```
Trust boundary disabled
```

```
Trust state: trust DSCP
Trust state in queueing: trust DSCP
Default COS is 0
```

```
Queueing Mode In Tx direction: mode-dscp
Transmit queues [type = 1p3q3t]:
Queue Id      Scheduling  Num of thresholds
-----
1             Priority    3
2             WRR        3
3             WRR        3
4             WRR        3
```

```
WRR bandwidth ratios:  100[queue 2] 100[queue 3] 100[queue 4]  0[queue 5]
queue-limit ratios:    15[Pri Queue] 25[queue 2] 40[queue 3] 20[queue 4]
```

```
queue thresh dscp-map
```

```
-----
1  1  32 33 40 41 42 43 44 45 46 47
1  2
1  3
2  1  16 17 18 19 20 21 22 23 26 27 28 29 30 31 34 35 36 37 38 39
2  2  24
2  3  48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63
3  1  25
3  2
3  3  0 1 2 3 4 5 6 7
4  1  8 9 11 13 15
4  2  10 12 14
4  3
```

## 配置

## 配置示例1：队列带宽

此示例显示您如何能配置6800ia TX队列的带宽：

### 1. 配置类映射为了分类流量利益：

```
6880-VSS#show run int gi101/1/0/1
```

```
interface GigabitEthernet101/1/0/1
  switchport
  switchport trunk allowed vlan 500
  switchport mode access
  switchport access vlan 500
  load-interval 30
end
```

```
6880-VSS#show queueing interface gi101/1/0/1
```

```
Interface GigabitEthernet101/1/0/1 queueing strategy: Weighted Round-Robin
```

```
Port QoS is disabled globally
Queueing on Gi101/1/0/1: Tx Enabled Rx Disabled
```

```
Trust boundary disabled
```

```
Trust state: trust DSCP
Trust state in queueing: trust DSCP
Default COS is 0
```

```
Queueing Mode In Tx direction: mode-dscp
Transmit queues [type = 1p3q3t]:
Queue Id      Scheduling  Num of thresholds
-----
1             Priority    3
2             WRR        3
3             WRR        3
4             WRR        3
```

```
WRR bandwidth ratios: 100[queue 2] 100[queue 3] 100[queue 4] 0[queue 5]
queue-limit ratios:   15[Pri Queue] 25[queue 2] 40[queue 3] 20[queue 4]
```

```
queue thresh dscp-map
```

```
-----
1 1 32 33 40 41 42 43 44 45 46 47
1 2
1 3
2 1 16 17 18 19 20 21 22 23 26 27 28 29 30 31 34 35 36 37 38 39
2 2 24
2 3 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63
3 1 25
3 2
3 3 0 1 2 3 4 5 6 7
4 1 8 9 11 13 15
4 2 10 12 14
4 3
```

### 2. 分配优先级和带宽到配置的等级：

```
policy-map type lan-queuing ltest
  class type lan-queuing ltest
    priority
  class type lan-queuing ltest1
    bandwidth remaining percent 30
  class type lan-queuing ltest2
    bandwidth remaining percent 20
  class class-default
```

### 3. 应用策略映射对有问题的6800ia的接口 : Note:当您适用于LAN队列策略映射6800ia堆叠的一个端口 , 传播对所有端口的变化在堆叠上。

```
6880-VSS#conf t
6880-VSS(config)#int gi101/1/0/1
6880-VSS(config-if)#service-policy type lan-queuing output ltest
Propagating [attach] lan queueing policy "ltest" to Gi101/1/0/1 Gi101/1/0/2 Gi101/1/0/3
Gi101/1/0/4 Gi101/1/0/5 Gi101/1/0/6 Gi101/1/0/7 Gi101/1/0/8 Gi101/1/0/9 Gi101/1/0/10
Gi101/1/0/12 Gi101/1/0/13 Gi101/1/0/14 Gi101/1/0/15 Gi101/1/0/16 Gi101/1/0/17
Gi101/1/0/18 Gi101/1/0/19 Gi101/1/0/20 Gi101/1/0/21 Gi101/1/0/22 Gi101/1/0/23
Gi101/1/0/24 Gi101/1/0/25 Gi101/1/0/26 Gi101/1/0/27 Gi101/1/0/28 Gi101/1/0/29
Gi101/1/0/30 Gi101/1/0/31 Gi101/1/0/32 Gi101/1/0/33 Gi101/1/0/34 Gi101/1/0/35
Gi101/1/0/36 Gi101/1/0/37 Gi101/1/0/38 Gi101/1/0/39 Gi101/1/0/40 Gi101/1/0/41
Gi101/1/0/42 Gi101/1/0/43 Gi101/1/0/44 Gi101/1/0/45 Gi101/1/0/46 Gi101/1/0/47 Gi101/1/0/48

Propagating [attach] lan queueing policy "ltest" to Gi101/2/0/1 Gi101/2/0/2
Gi101/2/0/3 Gi101/2/0/4 Gi101/2/0/5 Gi101/2/0/6 Gi101/2/0/7 Gi101/2/0/8
Gi101/2/0/9 Gi101/2/0/10 Gi101/2/0/11 Gi101/2/0/12 Gi101/2/0/13 Gi101/2/0/14
Gi101/2/0/15 Gi101/2/0/16 Gi101/2/0/17 Gi101/2/0/18 Gi101/2/0/19 Gi101/2/0/20
Gi101/2/0/21 Gi101/2/0/22 Gi101/2/0/23 Gi101/2/0/24 Gi101/2/0/25 Gi101/2/0/26
Gi101/2/0/27 Gi101/2/0/28 Gi101/2/0/29 Gi101/2/0/30 Gi101/2/0/31 Gi101/2/0/32
Gi101/2/0/33 Gi101/2/0/34 Gi101/2/0/35 Gi101/2/0/36 Gi101/2/0/37 Gi101/2/0/38
Gi101/2/0/39 Gi101/2/0/40 Gi101/2/0/41 Gi101/2/0/42 Gi101/2/0/43 Gi101/2/0/44
Gi101/2/0/45 Gi101/2/0/46 Gi101/2/0/47 Gi101/2/0/48

Propagating [attach] lan queueing policy "ltest" to Gi101/3/0/1 Gi101/3/0/2
Gi101/3/0/3 Gi101/3/0/4 Gi101/3/0/5 Gi101/3/0/6 Gi101/3/0/7 Gi101/3/0/8
Gi101/3/0/9 Gi101/3/0/10 Gi101/3/0/11 Gi101/3/0/12 Gi101/3/0/13 Gi101/3/0/14
Gi101/3/0/15 Gi101/3/0/16 Gi101/3/0/17 Gi101/3/0/18 Gi101/3/0/19 Gi101/3/0/20
Gi101/3/0/21 Gi101/3/0/22 Gi101/3/0/23 Gi101/3/0/24 Gi101/3/0/25 Gi101/3/0/26
Gi101/3/0/27 Gi101/3/0/28 Gi101/3/0/29 Gi101/3/0/30 Gi101/3/0/31 Gi101/3/0/32
Gi101/3/0/33 Gi101/3/0/34 Gi101/3/0/35 Gi101/3/0/36 Gi101/3/0/37 Gi101/3/0/38
Gi101/3/0/39 Gi101/3/0/40 Gi101/3/0/41 Gi101/3/0/42 Gi101/3/0/43 Gi101/3/0/44
Gi101/3/0/45 Gi101/3/0/46 Gi101/3/0/47 Gi101/3/0/48

Propagating [attach] lan queueing policy "ltest" to Gi101/4/0/1 Gi101/4/0/2
Gi101/4/0/3 Gi101/4/0/4 Gi101/4/0/5 Gi101/4/0/6 Gi101/4/0/7 Gi101/4/0/8
Gi101/4/0/9 Gi101/4/0/10 Gi101/4/0/11 Gi101/4/0/12 Gi101/4/0/13 Gi101/4/0/14
Gi101/4/0/15 Gi101/4/0/16 Gi101/4/0/17 Gi101/4/0/18 Gi101/4/0/19 Gi101/4/0/20
Gi101/4/0/21 Gi101/4/0/22 Gi101/4/0/23 Gi101/4/0/24 Gi101/4/0/25 Gi101/4/0/26
Gi101/4/0/27 Gi101/4/0/28 Gi101/4/0/29 Gi101/4/0/30 Gi101/4/0/31 Gi101/4/0/32
Gi101/4/0/33 Gi101/4/0/34 Gi101/4/0/35 Gi101/4/0/36 Gi101/4/0/37 Gi101/4/0/38
Gi101/4/0/39 Gi101/4/0/40 Gi101/4/0/41 Gi101/4/0/42 Gi101/4/0/43 Gi101/4/0/44
Gi101/4/0/45 Gi101/4/0/46 Gi101/4/0/47 Gi101/4/0/48
6880-VSS(config-if)#
6880-VSS(config-if)#end
```

### 4. 验证策略映射应用 :

```
6880-VSS#show run int gi101/1/0/1

interface GigabitEthernet101/1/0/1
  switchport
  switchport trunk allowed vlan 500
  switchport mode access
  switchport access vlan 500
  load-interval 30
  service-policy type lan-queuing output ltest
end
```

### 5. 检查类映射对队列映射、带宽和缓冲分配和队列对差分服务代码点映射 :

```
6880-VSS#show queueing int gi101/1/0/1
Interface GigabitEthernet101/1/0/1 queueing strategy: Weighted Round-Robin

Port QoS is disabled globally
Queueing on Gi101/1/0/1: Tx Enabled Rx Disabled
```

Trust boundary disabled

Trust state: trust DSCP

Trust state in queueing: trust DSCP

Default COS is 0

Class-map to Queue in Tx direction

Class-map Queue Id

```
-----  
ltest 1  
ltest1 4  
ltest2 3  
class-default 2
```

Queueing Mode In Tx direction: mode-dscp

Transmit queues [type = lp3q3t]:

Queue Id Scheduling Num of thresholds

```
-----  
1 Priority 3  
2 WRR 3  
3 WRR 3  
4 WRR 3
```

WRR bandwidth ratios: 50[queue 2] 20[queue 3] 30[queue 4]

queue-limit ratios: 15[Pri Queue] 100[queue 2] 100[queue 3] 100[queue 4]

queue thresh dscp-map

```
-----  
1 1 32  
1 2  
1 3  
2 1 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22  
23 25 26 27 28 29 30 31 33 34 35 36 37 38 39 40 41 42 43  
44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63  
2 2  
2 3  
3 1 0  
3 2  
3 3  
4 1 24  
4 2  
4 3
```

6. 将缓冲区和带宽分配仔细检查从6800ia : **Note:**如果不指定部分组的缓冲区重要性，默认情况下采取100%。Queue1 :  $15/[15+100+100+100] = 4$  队列2 :  $100/[15+100+100+100] | 31$  重要性为其他队列也派生。

6880-VSS#remote command fex 101 show mls qos int gi1/0/1 buffer

GigabitEthernet1/0/1

The port is mapped to qset : 1

**The allocations between the queues are : 4 31 31 34**

6880-VSS#remote command fex 101 show mls qos int gi1/0/1 queueing

GigabitEthernet1/0/1

Egress Priority Queue : enabled

Shaped queue weights (absolute) : 0 0 0 0

**Shared queue weights : 0 127 51 76**

The port bandwidth limit : 100 (Operational Bandwidth:100.0)

The port is mapped to qset : 1

7. 请验证，如果感兴趣流量在各自队列排队，并且，如果有任何丢包：

6880-VSS#remote command fex 101 show mls qos int gi1/0/1 statistic

GigabitEthernet1/0/1 (All statistics are in packets)

dscp: incoming

```

-----
0 - 4 :          0          0          0          0          0
5 - 9 :          0          0          0          0          0
10 - 14 :        0          0          0          0          0
15 - 19 :        0          0          0          0          0
20 - 24 :        0          0          0          0          0
25 - 29 :        0          0          0          0          0
30 - 34 :        0          0          0          0          0
35 - 39 :        0          0          0          0          0
40 - 44 :        0          0          0          0          0
45 - 49 :        0          0          0          13         0
50 - 54 :        0          0          0          0          0
55 - 59 :        0          0          0          0          0
60 - 64 :        0          0          0          0          0

```

dscp: outgoing

```

-----
0 - 4 :          0          0          0          0          0
5 - 9 :          0          0          0          0          0
10 - 14 :        0          0          0          0          0
15 - 19 :        0          0          0          0          0
20 - 24 :        0          0          0          0          9118500
25 - 29 :        0          0          0          0          0
30 - 34 :        0          0          516236         0          0
35 - 39 :        0          0          0          0          0
40 - 44 :        0          0          0          0          0
45 - 49 :        0          0          0          20         0
50 - 54 :        0          0          0          0          0
55 - 59 :        0          0          0          0          0
60 - 64 :        0          0          0          0          0

```

cos: incoming

```

-----
0 - 4 :          106          0          0          0          0
5 - 7 :           0          0          0          0          0

```

cos: outgoing

```

-----
0 - 4 :           41          0          0          9118505         516236
5 - 7 :           0          0          0          0          0

```

output queues enqueued:

queue: threshold1 threshold2 threshold3

```

-----
queue 0:      516255          35          5
queue 1:         12          0          0
queue 2:          0          0          0
queue 3:      9118520          0          0

```

output queues dropped:

queue: threshold1 threshold2 threshold3

```

-----
queue 0:         0          0          0
queue 1:          0          0          0
queue 2:          0          0          0
queue 3:      49823          0          0

```

Policer: Inprofile: 0 OutofProfile: 0

## 配置示例2：带宽和缓冲区

此示例显示您如何能配置带宽和缓冲区6800ia TX队列的：

1. 在示例创建的策略映射，当此示例显示，1，您能指定队列缓冲区分配：**Note:**如果不指定部分组的缓冲区重要性，默认情况下采取100%。

```
policy-map type lan-queuing ltest
  class type lan-queuing ltest
    priority
    queue-buffers ratio 15
  class type lan-queuing ltest1
    bandwidth remaining percent 30
    queue-buffers ratio 30
  class type lan-queuing ltest2
    bandwidth remaining percent 20
    queue-buffers ratio 40
  class class-default
    queue-buffer ratio 15
```

2. 检查类映射对队列映射、带宽和缓冲分配和队列对DSCP映射：

```
6880-VSS#sh queueing int gi101/1/0/1
```

```
Interface GigabitEthernet101/1/0/1 queueing strategy: Weighted Round-Robin
```

```
Port QoS is disabled globally
```

```
Queueing on Gi101/1/0/1: Tx Enabled Rx Disabled
```

```
Trust boundary disabled
```

```
Trust state: trust DSCP
```

```
Trust state in queueing: trust DSCP
```

```
Default COS is 0
```

```
Class-map to Queue in Tx direction
```

```
Class-map          Queue Id
```

```
-----
ltest                1
ltest1              4
ltest2              3
class-default      2
```

```
Queueing Mode In Tx direction: mode-dscp
```

```
Transmit queues [type = 1p3q3t]:
```

```
Queue Id    Scheduling  Num of thresholds
```

```
-----
  1          Priority    3
  2          WRR        3
  3          WRR        3
  4          WRR        3
```

```
WRR bandwidth ratios: 50[queue 2] 20[queue 3] 30[queue 4]
```

```
queue-limit ratios: 15[Pri Queue] 15[queue 2] 40[queue 3] 30[queue 4]
```

```
queue thresh dscp-map
```

```
-----
1    1    32
1     2
1     3
2     1     1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21
22 23 25 26 27 28 29 30 31 33 34 35 36 37 38 39 40 41
42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63
2     2
2     3
3    1    0
```

```

3      2
3      3
4      1      24
4      2
4      3

```

3. 将缓冲区和带宽分配仔细检查从6800ia :

```
6880-VSS#remote command fex 101 sh mls qos int gil/0/1 queueing
```

```

GigabitEthernet1/0/1
Egress Priority Queue : enabled
Shaped queue weights (absolute) : 0 0 0 0
Shared queue weights : 0 127 51 76
The port bandwidth limit : 100 (Operational Bandwidth:100.0)
The port is mapped to qset : 1

```

```
6880-VSS#remote command fex 101 sh mls qos int gil/0/1 buffers
```

```

GigabitEthernet1/0/1
The port is mapped to qset : 1
The allocations between the queues are : 15 15 40 30

```

4. 请验证，如果感兴趣流量在各自队列排队，并且，如果有任何丢包：

```
6880-VSS#remote command fex 101 sh mls qos int gil/0/1 statistic
```

```
GigabitEthernet1/0/1 (All statistics are in packets)
```

```
dscp: incoming
```

```
-----
```

0 - 4 :	0	0	0	0	0
5 - 9 :	0	0	0	0	0
10 - 14 :	0	0	0	0	0
15 - 19 :	0	0	0	0	0
20 - 24 :	0	0	0	0	0
25 - 29 :	0	0	0	0	0
30 - 34 :	0	0	0	0	0
35 - 39 :	0	0	0	0	0
40 - 44 :	0	0	0	0	0
45 - 49 :	0	0	0	491	0
50 - 54 :	0	0	0	0	0
55 - 59 :	0	0	0	0	0
60 - 64 :	0	0	0	0	0

```
dscp: outgoing
```

```
-----
```

0 - 4 :	0	0	0	0	0
5 - 9 :	0	0	0	0	0
10 - 14 :	0	0	0	0	0
15 - 19 :	0	0	0	0	0
20 - 24 :	0	0	0	0	57864687
25 - 29 :	0	0	0	0	0
30 - 34 :	0	0	29364400	0	0
35 - 39 :	0	0	0	0	0
40 - 44 :	0	0	0	0	0
45 - 49 :	0	0	0	775	0
50 - 54 :	0	0	0	0	0
55 - 59 :	0	0	0	0	0
60 - 64 :	0	0	0	0	0

```
cos: incoming
```

```
-----
```

0 - 4 :	5323	0	0	0	0
5 - 7 :	0	0	0	0	0



```

cos: outgoing
-----

0 - 4 :          1718          0          0          57864691          29364400
5 - 7 :           0           0           0
output queues enqueued:
queue:   threshold1  threshold2  threshold3
-----
queue 0:   29365402          1883          5
queue 1:           793    98           0
queue 2:           0           0           0
queue 3:   530554174          0           0

output queues dropped:
queue:   threshold1  threshold2  threshold3
-----
queue 0:    0           10           0
queue 1:           1          24093          0
queue 2:           0           0           0
queue 3:   2309351          0           0

Policer: Inprofile:          0 OutofProfile:          0

```

## 验证

当前没有可用于此配置的验证过程。

## 故障排除

本部分提供的信息可用于对配置进行故障排除。

[命令输出解释程序工具](#) ( [仅限注册用户](#) ) 支持某些 **show** 命令。请使用Output Interpreter Tool为了查看show命令输出分析。

**Note:**使用 **debug** 命令之前，请参阅[有关 Debug 命令的重要信息](#)。

1. QoS管理器的Enable (event)调试从6800ia CLI。保证日志重定向缓冲，并且操作日志缓冲区设置为大量：

```

6880-VSS#attach fex 101
Attach FEX:101 ip:192.168.1.101
Trying 192.168.1.101 ... Open
????????FEX-101>en
Password: cisco
FEX-101#
FEX-101#debug platform qos-manager all
QM verbose debugging is on
QM cops debugging is on
QM events debugging is on
QM Statistics debugging is on
FEX-101#exit
[Connection to 192.168.1.101 closed by foreign host]

```

## 2. 配置策略映射为了触发调试：

```
6880-VSS#conf t
6880-VSS(config)#int gi101/1/0/1
6880-VSS(config-if)# service-policy type lan-queuing output ltest
Propagating [attach] lan queueing policy "ltest" to Gi101/1/0/1
Gi101/1/0/2 Gi101/1/0/3 Gi101/1/0/4 Gi101/1/0/5 Gi101/1/0/6 Gi101/1/0/7 Gi101/1/0/8
Gi101/1/0/9 Gi101/1/0/10 Gi101/1/0/12 Gi101/1/0/13 Gi101/1/0/14 Gi101/1/0/15 Gi101/1/0/16
<snip>
6880-VSS(config-if)#end
```

## 3. 检查注册结构扩展器(FEX)为了检查调试：

```
6880-VSS#remote command fex 101 show log
<snip>
May 20 06:43:18.208: HQM: hulc_fex_qos_priority_handler: hulc_fex_qos_priority_handler:
****Setting Priority Queue (FEX-101)

May 20 06:43:18.208: HQM: hulc_fex_qos_priority_handler: hulc_fex_qos_priority_handler:
subopcode=2 startport=0 endport=0 size=4 (FEX-101)
May 20 06:43:18.208: HQM: hulc_f
_fex_qos_priority_handler:QueueNum=1 PriorityQueue=1 queuetype=2 thresholdsnum=3 (FEX-101)
May 20 06:43:18.212: HQM: hulc_fex_qos_priority_handler: hulc_fex_qos_priority_handler:
idb=GigabitEthernet1/0/1 (FEX-101)
May 20 06:43:18.212: HQM: hulc_fex_qos_priority_handler: hulc_fex_qos_priority_handler:
idb=GigabitEthernet1/0/2 (FEX-101)
May 20 06:43:18.212: HQM: hulc_fex_qos_priority_handler: hulc_fex_qos_priority_handler:
idb=GigabitEthernet1/0/3 (FEX-101)
<snip>

hulc_fex_qos_srr_weight_setting:****Setting weight for queues**** (FEX-101)
May 20 06:43:18.232: HQM: hulc_fex_qos_srr_weight_setting: hulc_fex_qos_srr_weight_setting:
subopcode=2 startport=0 endport=0 size=4 (FEX-101)
May 20 06:43:18.232: HQM: hulc_fex_qos_srr_weight_setting: hulc_fex_qos_srr_weight_setting:
QueueNum=1 RRType=0 WeightRelative=0 WeightAbsolute=0 (FEX-101)
 20 06:43:18.232: HQM: hulc_fex_qos_srr_weight_setting: hulc_fex_qos_srr_weight_setting:
ratio is 0 for queue 1 (FEX-101)
May 20 06:43:18.232: HQM: hulc_fex_qos_srr_weight_setting: hulc_fex_qos_srr_weight_setting:
QueueNum=2 RRType=0 WeightRelative=33 WeightAbsolute=0 (FEX-101)
<snip>

20 06:43:19.110: HQM: hulc_fex_qos_buffer_conf: **Setting buffer for output queues** (FEX-101)
May 20 06:43:19.110: HQM: hulc_fex_qos_buffer_conf: hulc_fex_qos_buffer_conf:
subopcode=2 startport=0 endport=0 size=4 (FEX-101)
May 20 06:43:19.110: HQM: hulc_fex_qos_buffer_conf: hulc_fex_qos_buffer_conf:
queuenum=1 size=15 (FEX-101)
May 20 06:43:19.110: HQM: hulc_fex_qos_buffer_conf:
hulc_fex_qos_buffer_conf: queuenum=2 size=25 (FEX-101)
May 20 06:43:19.110: HQM: hulc_fex_qos_buffer_conf:
hulc_fex_qos_buffer_conf: queuenum=3 size=40 (FEX-101)
May 20 06:43:19.110: HQM: hulc_fex_qos_buffer_conf:
hulc_fex_qos_buffer_conf: queuenum=4 size=20 (FEX-101)
May 20 06:43:19.110: HQM: hqm
 20 06:43:19.113: HQM: s88g_qd_get_queue_threshold: s88g_qd_get_queue_threshold:
max_limit = 3200, set to 350. (FEX-101)
May 20 06:43:19.113: HQM: s88g_qd_get_queue_threshold: s88g_qd_get_queue_threshold:
max_limit = 3200, set to 350. (FEX-101)
<snip>

hulc_fex_qos_qthresh_map:****Setting dscp to output queue map**** (FEX-101)
May 20 06:43:19.169: HQM: hulc_fex_qos_qthresh_map: hulc_fex_qos_qthresh_map:
subopcode=2 startport=0 endport=0 size=1 (FEX-101)
May 20 06:43:19.169: HQM: hulc_fex_qos_qthresh_map: hulc_fex_qos_qthresh_map: DscpBma
 20 06:43:19.169: HQM: hulc_fex_qos_qthresh_map: hulc_fex_qos_qthresh_map
```

```
dscp=32 iterator=0 (FEX-101)
May 20 06:43:19.169: HQM: hulc_fex_qos_qthresh_map: hulc_fex_qos_qthresh_map
dscp=33 iterator=1 (FEX-101)
May 20 06:43:19.169: HQM: hulc_fex_qos_qthresh_map: hulc_fex_qos_qthresh_map
dscp=40 iterator=2 (FEX-101)
<snip>
```