

Catalyst 6800ia接入端口上的QoS配置示例

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简介

本文档介绍如何在Cisco Catalyst 6800ia主机端口上配置、验证服务质量(QoS)并对其进行故障排除。Catalyst 6800父虚拟交换系统(VSS)上Cisco IOS[®]软件版本152.1.SY及更高版本的6800ia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
- Cisco Catalyst 6800父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

Catalyst 6800ia的配置模式已禁用，所有6800ia主机端口的QoS配置必须从父端完成。6800ia主机

端口的QoS配置了策略映射。应用到接口时，此策略映射将相关配置内部推送到6800ia，然后对硬件队列进行编程。

6800ia主机端口在传输(TX)方向具有1p3q3t架构。本文档中的所有配置示例仅适用于6800ia上的TX队列。

当6800ia接口上没有默认状态的显式QoS配置时，6800ia主机接口的输出可能与以下示例输出类似：

```
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

此示例显示如何为6800ia TX队列配置带宽：

1. 配置类映射以对所关注的流量进行分类：

```
class-map type lan-queuing match-any ltest
  match dscp 32
class-map type lan-queuing match-any ltest1
  match dscp 24
class-map type lan-queuing match-any ltest2
  match dscp default
```

2. 为已配置的分类分配优先级和带宽：

```
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. 将策略映射应用到有问题的6800ia接口：注意：当您将lan排队策略映射应用到6800ia堆叠上的一个端口时，它会将更改传播到堆叠中的所有端口。

```
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. 验证是否应用了策略映射：

```
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. 检查类映射到队列映射、带宽和缓冲区分配，以及队列到差分服务代码点(DSCP)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. 从6800ia对缓冲区和带宽分配进行双检查：注意：如果不指定某个类的缓冲区权重，则默认为100%。队列 1:15 / [15+100+100+100] = 4队列 2:100 / [15+100+100+100] ~ 31对于其他队列，也会得出权重。

```
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. 验证相关流量是否在各自的队列中入队，以及是否存在丢弃：

```
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
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

此示例显示如何为6800ia TX队列配置带宽和缓冲区：

1. 在示例1中创建的策略映射中，可以指定队列缓冲区分配，如本示例所示：**注意**：如果不指定某个类的缓冲区权重，则默认为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. 检查类映射到队列映射、带宽和缓冲区分配以及队列到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 = 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] 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. 从6800ia对缓冲区和带宽分配进行双检查：

```
6880-VSS#remote command fex 101 sh 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

```

```
6880-VSS#remote command fex 101 sh mls qos int gi1/0/1 buffers
```

```

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

```

4. 验证相关流量是否在各自的队列中入队，以及是否存在丢弃：

```
6880-VSS#remote command fex 101 sh 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          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          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          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。](#) 使用输出解释器工具来查看 show 命令输出的分析。

注意：使用 debug 命令之前，请参阅有关 Debug 命令的重要信息。

1. 从6800ia CLI为qos-manager启用debug。确保日志重定向到缓冲区，并且日志记录缓冲区设置为高数：

```
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policy-map以触发调试：

```
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. 检查交换矩阵扩展器(FEX)上的日志以检查调试：

```
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>
```