Catalyst 6800ia接入端口上的QoS配置示例

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简介

本文档介绍如何配置、验证Cisco Catalyst 6800ia主机端口的服务质量(QoS)并对其进行故障排除。Cisco IOS®软件版本152.1.SY中的6800ia主机端口和Catalyst 6800父虚拟交换系统(VSS)的更高版本支持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：

- 思科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，并且6800ia主机端口的所有QoS配置都必须从父交换机完成。6800ia主机端口的QoS配置了策略映射。当应用于接口时，此策略映射在内部将相关配置推送到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。

当处于默认状态的6800ia接口上不存在显式QoS配置时，6800ia主机接口可能类似于以下示例输出：

<#root>

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class-maps以对感兴趣的流量进行分类：

```
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. 为已配置的类分配优先级和带宽：
   <#root>

```
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policy-map应用到有问题的6800ia接口：

> 注意：当您将lan-queueing policy-map应用于6800ia堆叠上的一个端口时，它会将这些更改传播到堆叠中的所有端口。

<#root>

```
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policy-map是否已应用：
   <#root>

```
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. 检查到队列映射的类映射、带宽和缓冲区分配，以及到差分服务代码点(DSCP)的队列映射：<#root>

```
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 = 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] 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. 仔细检查6800ia的缓冲区和带宽分配：

注意：如果没有为特定类指定缓冲区权重，则默认情况下需要100%。

队列 1:15 / [15+100+100+100] = 4

队列 2:100 / [15+100+100+100] ~ 31

其他队列的权重也会派生。

<#root>

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队列中入队，以及是否存在丢弃：
<#root>

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
  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
  cos: incoming
-------------------------------

  0 -  4 :         106            0            0            0            0
  5 -  7 :           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，您可以指定队列缓冲区分配，如以下示例所示：

> 注意：如果没有为特定类指定缓冲区权重，则默认情况下需要100%。

<#root>

```
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. 检查到队列映射、带宽和缓冲区分配以及队列到DSCP的映射的类映射：
<#root>

```
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. 仔细检查6800ia的缓冲区和带宽分配：

<#root>

```
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队列中入队，以及是否存在丢弃：

<#root>

```
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
```

```
  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
  cos: incoming
-------------------------------

  0 -  4 :        5323            0            0            0            0
  5 -  7 :           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。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。确保日志被重定向到缓冲区，并且日志记录缓冲区设置为高位数：
   <#root>

```
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：
   <#root>

```
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：

<#root>

```
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>
```

<#root>

```
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>
```

<#root>

```
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>
```

<#root>

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>
```

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