

QoS no exemplo de configuração das portas de acesso do catalizador 6800ia

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Introdução

Este documento descreve como configurar, verificar, e pesquisar defeitos o Qualidade de Serviço (QoS) em portas de host do Cisco catalyst 6800ia. QoS é apoiado nas portas de host 6800ia na liberação 152.1.SY do Cisco IOS ® Software e mais tarde em um sistema de switching virtual do pai do catalizador 6800 (VSS).

Pré-requisitos

Requisitos

Não existem requisitos específicos para este documento.

[Componentes Utilizados](#)

As informações neste documento são baseadas nestas versões de software e hardware:

- Liberação 152.1.SY do Cisco IOS ® Software
- Pai VSS do Cisco catalyst 6800

As informações neste documento foram criadas a partir de dispositivos em um ambiente de laboratório específico. Todos os dispositivos utilizados neste documento foram iniciados com uma configuração (padrão) inicial. Se a sua rede estiver ativa, certifique-se de que entende o impacto potencial de qualquer comando.

Informações de Apoio

O modo de configuração em um catalizador 6800ia é desabilitado e todas as configurações de QoS para as portas de host 6800ia devem ser feitas do pai. QoS para a porta de host 6800ia é configurado com um mapa de política. Quando aplicado às relações, este mapa de política empurra a configuração relevante internamente para o 6800ia e programa então as filas de hardware.

as portas de host 6800ia mandam a arquitetura 1p3q3t dentro transmitir o sentido (TX). Todos os exemplos de configuração neste documento se aplicam somente às filas TX em um 6800ia.

Quando há nenhuma configuração de QoS explícita atual no 6800ia conecta no estado padrão, o host que 6800ia a relação pode olhar similar a estas saídas de exemplo:

```
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

```

Configurar

Exemplo de configuração 1: Largura de banda da fila

Este exemplo mostra como você pode configurar larguras de banda para filas 6800ia TX:

1. Configurar **mapas de classe** a fim classificar o tráfego do interesse:

```
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 = lp3q3t]:
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. Atribua a prioridade e a largura de banda às classes configuradas:

```
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. Aplique o mapa de política à relação 6800ia na pergunta: **Note:** Quando você aplica um mapa de política de enfileiramento a uma porta em uma pilha 6800ia, propaga as mudanças a todas as portas na pilha.

```
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. Verifique que o mapa de política é aplicado:

```
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. Verifique o mapa de classe ao mapeamento de fila, a largura de banda e as alocações de buffer, e a fila ao traço do Differentiated Services Code Point (DSCP):

```
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. Verifique novamente o buffer e as alocações de largura de banda do 6800ia:**Note:** Se você não especifica o peso do buffer para alguma classe, à revelia toma 100%.+B650Fila 1: $15/[15+100+100+100] = 4$ Fila 2: $100/[15+100+100+100] \sim 31$ Os pesos são derivados igualmente para outras filas.

```
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. Verifique se o tráfego interessado está enviado à fila na fila respectiva e se há alguma gota:

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

```

Exemplo de configuração 2: Largura de banda e buffer

Este exemplo mostra como você pode configurar larguras de banda e buffers para filas 6800ia TX:

1. No mapa de política criado no exemplo 1, você pode especificar atribuições do buffer de fila enquanto este exemplo mostra: **Note:** Se você não especifica o peso do buffer para alguma classe, a revelia toma 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. Verifique o mapa de classe ao mapeamento de fila, a largura de banda e as alocações de buffer, e a fila ao mapeamento de DSCP:

```

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

```

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. Verifique novamente o buffer e as alocações de largura de banda do 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. Verifique se o tráfego interessado está enviado à fila na fila respectiva e se há alguma gota:

```
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          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

```

Verificar

No momento, não há procedimento de verificação disponível para esta configuração.

Troubleshooting

Esta seção fornece informações que podem ser usadas para o troubleshooting da sua configuração.

[A ferramenta Output Interpreter \(clientes registrados somente\)](#) apoia determinados comandos de exibição. Use a ferramenta Output Interpreter a fim ver uma análise do emissor de comando de execução.

Note: Consulte [Informações Importantes sobre Comandos de Depuração](#) antes de usar comandos **debug**.

1. Enable debuga para o qos-gerente do 6800ia CLI. Assegure-se de que os logs estejam reorientados para proteger e o logging buffer esteja ajustado a um alto número:

```
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. Configurar o mapa de política a fim provocar debuga:

```
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. A verificação entra o prolongamento da tela (FEX) a fim verificar debuga:

```
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:
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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>
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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>
```