QoS en el ejemplo de configuración de los puertos de acceso del Catalyst 6800ia

Contenido

Introducción

Este documento describe cómo configurar, verificar, y resolver problemas el Calidad de Servicio (QoS) en los puertos de host del Cisco Catalyst 6800ia. QoS se soporta en los puertos de host 6800ia en la versión 152.1.SY del Cisco IOS ® Software y después un sistema de transferencia virtual del padre del Catalyst 6800 (VSS).

Prerequisites

Requisitos

No hay requisitos específicos para este documento.

Componentes Utilizados

La información que contiene este documento se basa en las siguientes versiones de software y hardware.

- Versión 152.1.SY del Cisco IOS ® Software
- Padre VSS del Cisco Catalyst 6800

La información que contiene este documento se creó a partir de los dispositivos en un ambiente de laboratorio específico. Todos los dispositivos que se utilizan en este documento se pusieron en funcionamiento con una configuración verificada (predeterminada). Si la red está funcionando,

asegúrese de haber comprendido el impacto que puede tener cualquier comando.

Antecedentes

Inhabilitan al modo de configuración en un Catalyst 6800ia y todas las configuraciones de QoS para los puertos de host 6800ia se deben hacer del padre. QoS para el puerto de host 6800ia se configura con un directiva-mapa. Cuando está aplicado a las interfaces, este directiva-mapa avanza la configuración pertinente internamente al 6800ia y después programa las colas de hardware.

los puertos de host 6800ia hacen que la arquitectura 1p3q3t adentro transmita la dirección (TX). Todos los ejemplos de configuración en este documento se aplican solamente a las colas de administración del tráfico TX en un 6800ia.

Cuando hay ninguna configuración de QoS explícita presente en el 6800ia interconecta en el estado predeterminado, el host 6800ia que la interfaz puede parecer similar a esta salida de ejemplo:

```
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

Ejemplo de configuración 1: Ancho de banda de la cola

Este ejemplo muestra cómo usted puede configurar los anchos de banda para las colas de administración del tráfico 6800ia TX:

1. Configuración **class-maps** para clasificar el tráfico del interés:

```
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. Asigne la prioridad y el ancho de banda a las clases 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 el directiva-**mapa a la** interfaz 6800ia en la pregunta:**Note**: Cuando usted aplica un directiva-**mapa de LAN-espera a** un puerto en un stack 6800ia, propaga los cambios a todos los puertos en el stack.

```
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 el directiva-**mapa** sea 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. Marque el clase-mapa al mapeo de cola, ancho de banda y las Asignaciones de memoria intermedia, y cola a asociar del 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 = 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. Compruebe el buffer y las asignaciones de ancho de banda con minuciosidad del 6800ia:**Note**: Si usted no especifica la ponderación del buffer para cierta clase, por abandono toma el 100%.Cola 1: 15/[15+100+100+100] = 4Cola 2: 100/[15+100+100+100] ~ 31Las ponderaciones también se derivan para otras colas de administración del tráfico.

```
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 si el tráfico interesado se envía a la cola en la cola respectiva y si hay algunos descensos:

```
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
```

Ejemplo de configuración 2: Ancho de banda y buffer

Este ejemplo muestra cómo usted puede configurar los anchos de banda y los buffers para las colas de administración del tráfico 6800ia TX:

1. En el directiva-mapa creado en el ejemplo 1, usted puede especificar las asignaciones del búfer de cola mientras que este ejemplo muestra:**Note**: Si usted no especifica la ponderación del buffer para cierta clase, por abandono toma el 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. Marque el clase-mapa al mapeo de cola, ancho de banda y las Asignaciones de memoria intermedia, y cola al Mapeo 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 = 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. Compruebe el buffer y las asignaciones de ancho de banda con minuciosidad del 6800ia:

```
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. Verifique si el tráfico interesado se envía a la cola en la cola respectiva y si hay algunos descensos:

```
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
```

Verificación

Actualmente, no hay un procedimiento de verificación disponible para esta configuración.

Troubleshooting

En esta sección encontrará información que puede utilizar para solucionar problemas de configuración.

La herramienta del Output Interpreter (clientes registrados solamente) apoya los ciertos

comandos show. Utilice la herramienta del Output Interpreter para ver una análisis de la salida del comando show.

> **Note**: Consulte Información Importante sobre Comandos de Debug antes de usar un **comando debug**.

1. Habilite el **debug** para el qos-administrador del 6800ia CLI. Asegúrese que los registros estén reorientados para mitigar y memoria intermedia de registro está fijada a un número alto:

```
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. Configure el directiva-**mapa** para accionar los debugs:

```
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. El control abre una sesión el suplemento de la tela (FEX) para marcar los debugs:

```
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>
```