S5830 QOS WRR不生效案例

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客户配置QOS WRR队列进行拥塞管理，此配置在S5820v2上测试不同优先级用户在拥塞情况下下载速率不一致，在5830上测试下载速一样。现场Ten1/0/1口为出口，实际流量为8G左右，为了测试队列，将出口限制到7G。在相应的服务器上通过日志测试客户下载的平均速率。相同的配置在5820V2上测试完全没问题，5560ei上测试也没有问题，就5830会出现问题。

报文分两种：
低延时(min-delay报文)：

```
▲ Differentiated Services Field: 0x10 (DSCP: Unknown, ECN: Not-ECT)
    0001 00.. = Differentiated Services Codepoint: Unknown (4)
    .... ..00 = Explicit Congestion Notification: Not ECN-Capable Transport (0)
```

普通报文：

```
▲ Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)
    0000 00.. = Differentiated Services Codepoint: Default (0)
    .... ..00 = Explicit Congestion Notification: Not ECN-Capable Transport (0)
  Total Length: 1480
```

配置:

```
acl advanced 3333
 rule 0 permit ip tos min-delay
acl advanced 3334
 rule 0 permit ip

traffic classifier vip operator and
 if-match acl 3333
traffic classifier normal operator and
 if-match acl 3334

traffic behavior vip
 remark local-precedence 5
traffic behavior normal
 remark local-precedence 2

qos policy vip
  classifier vip behavior vip
 classifier normal behavior normal

qos apply policy vip global inbound

interface Ten-GigabitEthernet1/0/1
port link-mode route
ip address xx.xx.xx.xx
qos wrr
qos lr out cir 7000000
```

5830是v5版本，不支持在路由口下作wrr， 反馈配置中Ten-GigabitEthernet1/0/1是路由口，wrr调度不生效，在用dis qos queue-statistics interface Ten-GigabitEthernet 1/0/1查看队列调度时也显示端口错误。
实验室测试：

```
[H3C-Ten-GigabitEthernet2/0/2]dis this
#
interface Ten-GigabitEthernet2/0/2
 port link-mode route
#
return
[H3C-Ten-GigabitEthernet2/0/2]qui
[H3C]dis qos queue-statistics  interface Ten-GigabitEthernet 2/0/2
                                        ^
 % Wrong parameter found at '^' position.
[H3C]interface Ten-GigabitEthernet2/0/2
[H3C-Ten-GigabitEthernet2/0/2]port link-mode bridge
```

```
[H3C-Ten-GigabitEthernet2/0/2]
[H3C-Ten-GigabitEthernet2/0/2]dis this
#
interface Ten-GigabitEthernet2/0/2
 port link-mode bridge
#
return
[H3C-Ten-GigabitEthernet2/0/2]qui
[H3C]dis qos queue-statistics  interface Ten-GigabitEthernet 2/0/2

 Queue 0:
 Green accept     : 0 packets, 0 bytes
 Green wred drop  : 0 packets, 0 bytes
 Yellow accept    : 0 packets, 0 bytes
 Yellow wred drop : 0 packets, 0 bytes
 Red accept       : 0 packets, 0 bytes
 Red wred drop    : 0 packets, 0 bytes
 Total tail drop  : 0 packets, 0 bytes
 Total dequeue    : 0 packets, 0 bytes

 Queue 1:
 Green accept     : 0 packets, 0 bytes
 Green wred drop  : 0 packets, 0 bytes
 Yellow accept    : 0 packets, 0 bytes
 Yellow wred drop : 0 packets, 0 bytes
 Red accept       : 0 packets, 0 bytes
 Red wred drop    : 0 packets, 0 bytes
 Total tail drop  : 0 packets, 0 bytes
 Total dequeue    : 0 packets, 0 bytes

 Queue 2:
 Green accept     : 0 packets, 0 bytes
 Green wred drop  : 0 packets, 0 bytes
 Yellow accept    : 0 packets, 0 bytes
 Yellow wred drop : 0 packets, 0 bytes
 Red accept       : 0 packets, 0 bytes
 Red wred drop    : 0 packets, 0 bytes
 Total tail drop  : 0 packets, 0 bytes
 Total dequeue    : 0 packets, 0 bytes

 Queue 3:
 Green accept     : 0 packets, 0 bytes
 Green wred drop  : 0 packets, 0 bytes
 Yellow accept    : 0 packets, 0 bytes
 Yellow wred drop : 0 packets, 0 bytes
 Red accept       : 0 packets, 0 bytes
 Red wred drop    : 0 packets, 0 bytes
 Total tail drop  : 0 packets, 0 bytes
 Total dequeue    : 0 packets, 0 bytes

 Queue 4:
 Green accept     : 0 packets, 0 bytes
 Green wred drop  : 0 packets, 0 bytes
 Yellow accept    : 0 packets, 0 bytes
 Yellow wred drop : 0 packets, 0 bytes
 Red accept       : 0 packets, 0 bytes
 Red wred drop    : 0 packets, 0 bytes
 Total tail drop  : 0 packets, 0 bytes
 Total dequeue    : 0 packets, 0 bytes

 Queue 5:
 Green accept     : 0 packets, 0 bytes
 Green wred drop  : 0 packets, 0 bytes
 Yellow accept    : 0 packets, 0 bytes
```

Yellow wred drop : 0 packets, 0 bytes
Red accept : 0 packets, 0 bytes
Red wred drop : 0 packets, 0 bytes
Total tail drop : 0 packets, 0 bytes
Total dequeue : 0 packets, 0 bytes

Queue 6:
Green accept : 0 packets, 0 bytes
Green wred drop : 0 packets, 0 bytes
Yellow accept : 0 packets, 0 bytes
Yellow wred drop : 0 packets, 0 bytes
Red accept : 0 packets, 0 bytes
Red wred drop : 0 packets, 0 bytes
Total tail drop : 0 packets, 0 bytes
Total dequeue : 0 packets, 0 bytes

Queue 7:
Green accept : 0 packets, 0 bytes
Green wred drop : 0 packets, 0 bytes
Yellow accept : 0 packets, 0 bytes
Yellow wred drop : 0 packets, 0 bytes
Red accept : 0 packets, 0 bytes
Red wred drop : 0 packets, 0 bytes
Total tail drop : 0 packets, 0 bytes
Total dequeue : 0 packets, 0 bytes

将路由口该为bridge口，使用vlan虚接口互连，然后在bridge口下配置wrr。