ts

AerohiveNetworks Inc.

QA TestCase Template

Revision History

|  |  |  |  |
| --- | --- | --- | --- |
| Version | Date | Author | Description |
| 0.1 | 09/17/2012 | wenjunlu | Initial version |
| 0.2 |  |  |  |
| 0.3 |  |  |  |
| 0.4 |  |  |  |
| 0.5 |  |  |  |
| 0.6 |  |  |  |
|  |  |  |  |

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Glossary and Abbreviations

# Introduction

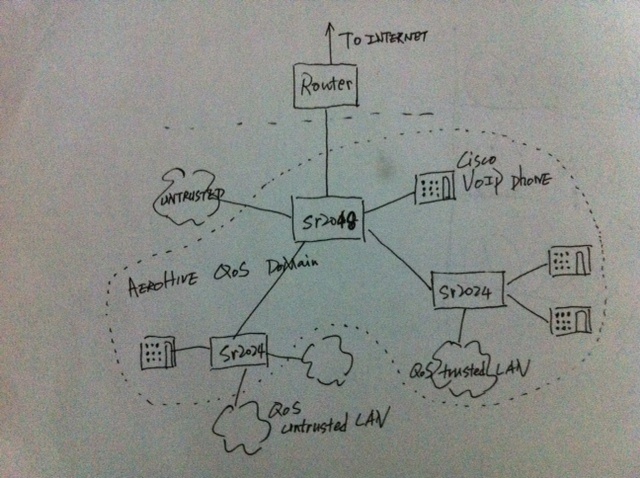


Figure 1: AeroHive QOS Domain

As showed in figure 1, when we use sr20xx to build a network, we build a QOS Domain. We suppose to use DIFFSERV model to handle the QOS requirements of our customers. Traffic entering our network is classified at the boundaries of the network, and assigned to different behavior aggregates identified by a DS codepoint. Within the domain, the traffic is forwarded according to this DS codepoint. All the devices in the domain operate with a common strategy and PHB. At the boundary of the domain, every node classifies and perhaps shapes the ingress traffic to ensure the transited packets are appropriately mapped to a special PHB.

All the sr20xx nodes showed above belong to AeroHive QOS Domain of course. In this network, some devices from other venders like the router should belong to another domain. Some devices link Cisco VoIP phone we should support automatically should be involved in our QOS domain. Some networks connected to our sr20xx maybe have the same understanding of the QOS information, so they should be in our domain too. Of course, there are still some network should not be included into our domain. Inclusion of non-compliant network into our domain may results in unpredictable behavior. The dotted line in the figure draws the scope of the domain.

So, when we are focusing on a sr20xx node, the ports will be divided to different type by the connection.

1) connected to a sr20xx;

2) connected to a QOS trusted network;

3) connected to a Cisco VoIP phone;

4) connected to a QOS un-trusted network;

5) connected to a outer router.

Summary, a port should be connected to a trusted network, or an un-trusted network, or a Cisco VoIP phone.

QOS trusted network means at this kind of network, the traffic will be en-queued to the same priority level queue by the same strategy according to the same QOS information of the packet. Same schedule method, BW control strategy, and marking mechanism will be adopted.

In the Bobcat, Almost all the QOS mechanism is supported, such as Complex flow classification, marker based on dual token bucket, shaper per queue and port, congestion avoiding mechanism and scheduler of SP plus SWDRR. At the phase 1, we must support the QOS of Cisco VoIP phone. So, basically we can map the DSCP/TOS/COS into priority queues to assure the quality of the VoIP traffic. We need to use the marking, queues, scheduler mechanism to implement the requirement. The BW management using policer engine of bobcat is not required at this stage.In Cisco's equipment, it identifies the traffic of VoIP by DSCP code. Code 46(101110) means VoIP data traffic. 24(011000) and 26(011010) means VoIP signal traffic.

# TestObjectives

<solution, simulate the customers’ deployment>

<in function level, list the key marketing and engineering requirements>

<list the objectives when this feature works under stress, e.g. CWP login/logout again and again, mesh failover again and again>

<list the objectives when this feature works for long time, even under the maximum stress, e.g. GTK rekey for maximum clients and run about 72 hours>

<list the objectives for performance of this feature, e.g. roaming delay, VPN tunnel performance>

<list the objectives for capacityof this feature, e.g. maximum users number, maximum VOIP pairs>

<list the objectives for compatibility of this feature, e.g. different vendors’ browser for cwp>

Note: All of this info should come from requirement/spec, if has not this info in requirement/spec, pls ask dev and get the expected info/number. If no expected number, we try to give out the QA’s expected number.

# Test Acceptance Criterion from Development

* Approved – MRD

The link to MRD

* Approved – Functional Specifications

The link to function spec

* Approved – Unit Test Plans

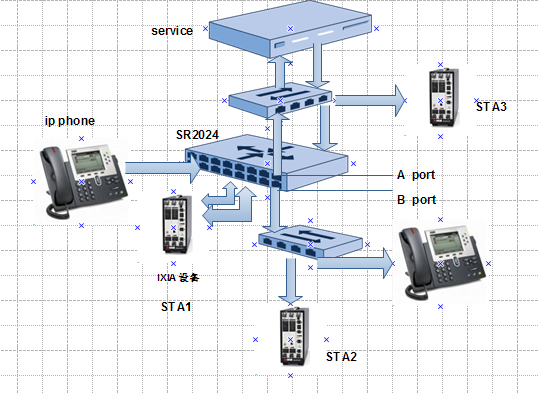
The link to unit test report of dev

# Product Pass Criterion

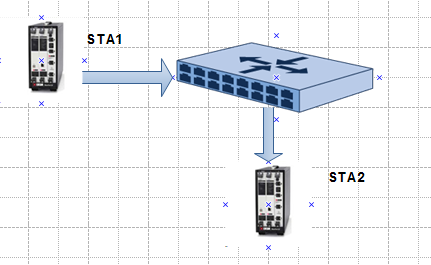
Meet all objects in marketing requirement or function spec which may include key function objectives, capacity objectives,performanceobjectives and so on.

# Test Bed/Topo Design

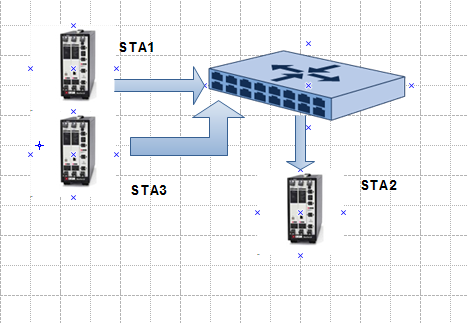
TOPO1 :



TOPO2:



TOPO3:

****

# TestCase

## Solution

#### Case ID QOSFORVOIP\_Function\_solution\_1

|  |  |  |  |
| --- | --- | --- | --- |
| Case ID | QOSFORVOIP\_Function\_solution\_1 | | |
| Priority | accept | Automation Flag | No |
| Topology to use |  | | |
| Description | IPPHONE1 connect to IP PHONE2when congested | | |
| Platform Dependence | SR2024,SR2024P,SR2048,SR2048P | | |
| Pre-condition | IP PHONE1 connect to IP PHONE2 by switch,and has network traffic ,STA1 has Background traffic | | |
| Test procedure | 1. the switch configured:   “qos enable”  “interface <name> qos-classifier aa”  “qos classifier-profile aa diffserv”  “qos marker-map diffserv <ah-class><dscp>  interface <name> qos-marker aa  qos marker-profile aa diffserv  qos marker-map diffserv 3 24 “  qos marker-map diffserv 5 46 “  before ip phone1 connect toip phone2,STA1 generate 500M of dscp=32 , 500M of dscp=24 , 500M of dscp=16 , 500M of dscp=8 to STA3, then ip phone1 connect to ip phone2 ,result1  2. after ip phone 1 connect to ip phone 2 and have data traffic ,STA1 generates ip stream 500M of dscp=32 , 500M of dscp=24 , 500M of dscp=16 , 500M of dscp=8 to STA2,result2 | | |
| Expect result | 1. ip phone1 and ip phone2 can connect 2. IPHONE1 and IPHONE2 still worked well | | |
| Test result |  | | |

#### Case ID QOSFORVOIP\_Function\_solution\_2

|  |  |  |  |
| --- | --- | --- | --- |
| Case ID | QOSFORVOIP\_Function\_solution\_2 | | |
| Priority | high | Automation Flag | yes |
| Topology to use | TOPO3 | | |
| Description | Classification base on trust DSCP with user-defined mapping tableand marker dscp with user-defined mapping table | | |
| Platform Dependence | SR2024,SR2024P,SR2048,SR2048P | | |
| Pre-condition |  | | |
| Test procedure | 1. Configure Classification on port which connect to STA1 and use default classification mapping table, configure the flow-out port marker   “qos enable”  “interface <name> qos-classifier aa”  “qos classifier-profile aa diffserv  interface <name> qos-marker aa  qos marker-profile aa diffserv  qos marker-map diffserv <ah-class><dscp>”  DSCP : 0-10 22-30 11-21 31-44 45-63  ah-class: 7 6 5  ah\_class: 7 6 5 4 3 2 1 0  dscp: 7 6 5 4 3 2 1 0   1. STA1and STA3 each generates 1Gtagged-ip-stream (dscp=0-63) to STA2,   tagged-ip-stream:  dscp= 8~15 dot1p=1 125M  dscp= 16~23 dot1p=2 125M  dscp= 0~7 dot1p=0 125M  dscp= 24~31 dot1p=3 125M  dscp= 32~39 dot1p=4 125M  dscp= 40~47 dot1p=5 125M  dscp= 48~55 dot1p=6 125M  dscp= 56~63 dot1p=7 125M result1.   1. Configure qos classifier-profile aa diffserv   DSCP : 0-13 14-27 28-41 42-55 56-63  ah-class:4 3 2 1 0  STA1and STA3 each generates 1Gtagged-ip-stream (dscp=0-63) to STA2,  tagged-ip-stream:  dscp= 8~15 dot1p=1 125M  dscp= 16~23 dot1p=2 125M  dscp= 0~7 dot1p=0 125M  dscp= 24~31 dot1p=3 125M  dscp= 32~39 dot1p=4 125M  dscp= 40~47 dot1p=5 125M  dscp= 48~55 dot1p=6 125M  dscp= 56~63 dot1p=7 125Mresult2.   1. Configure qos classifier-profile aa diffserv   DSCP : 0-13 14-27 28-41 42-55 56-63  ah-class:0 1234  STA1and STA3 each generates 1Gtagged-ip-stream (dscp=0-63) to STA2,  tagged-ip-stream:  dscp=56-63 dot1p=1 50M  dscp= 42~55 dot1p=2 200M  dscp= 28-41 dot1p=0 300M  dscp= 0~13 dot1p=3 450M ,result3   1. Configure qos classifier-profile aa diffserv   DSCP : 0-13 14-27 28-41 42-55 56-63  ah-class: 6 4 2 1 0  STA1and STA3 each generates 1Gtagged-ip-stream (dscp=0-63) to STA2,  tagged-ip-stream:  dscp=56-63 dot1p=1 50M  dscp= 42~55 dot1p=2 230M  dscp= 28-41 dot1p=0 350M  dscp= 14-27 dot1p=4 300M  dscp= 0~13dot1p=3 70M ,result4   1. STA1and STA3 generates Mix traffic to STA2 and configure   **dscp: 63-56 55-48 47-40 39-32 31-24 23-16 15-8 7-0**  **ah-class: 0 1 2 3 4 5 6 7**  1、tagged-ip-stream:  dscp= 8~15 dot1p=0 62.5M  dscp= 16~23 dot1p=1 62.5M  dscp= 0~7 dot1p=2 62.5M  dscp= 24~31 dot1p=3 62.5M  dscp= 32~39 dot1p=4 62.5M  dscp= 40~47 dot1p=5 62.5M  dscp= 48~55 dot1p=6 62.5M  dscp= 56~63 dot1p=7 62.5M  2、untagged-ip-stream:  dscp= 8~15 62.5M  dscp= 16~23 62.5M  dscp= 0~7 62.5M  dscp= 24~31 62.5M  dscp= 32~39 62.5M  dscp= 40~47 62.5M  dscp= 48~55 62.5M  dscp= 56~63 62.5M  3、tagged-non-ip stream:  dot1p=0 62.5M  dot1p=1 62.5M  dot1p=2 62.5M  dot1p=3 62.5M  dot1p=4 62.5M  dot1p=5 62.5M  dot1p=6 62.5M  dot1p=7 62.5M  4、untagged-non-ip stream with 100M ,result5 | | |
| Expect result | 1. stream of dscp=7 will receive 666M dscp =6 will receive 334M dscp=5 will not receive 2. stream of dscp 4 receive 395M DSCP3 receive 297M DSCP2 receive 199M DSCP1 receive 98M DSCP0 receive 19.6M 3. stream of dscp 4 receive 100M DSCP3 receive 519M DSCP2 receive 346M DSCP1 receive 0M DSCP0 receive 34.6M 4. stream of dscp 6 receive 140M DSCP4 receive 478M DSCP2 receive 239M DSCP1 receive 119M DSCP0 receive 24M 5. stream of dscp=7 is 125M dscp=6 is 125M dscp=5 is 125M ,dscp=4 is 245M dscp=3 is 183.9M dscp=2 is 122.6M dscp=1 is 61.3M ,the flow of dscp=0 、tagged-non-ip stream and untagged-non-ip stream is 12.2M | | |
| Test result |  | | |

#### Case ID QOSFORVOIP\_Function\_solution\_3

|  |  |  |  |
| --- | --- | --- | --- |
| Case ID | QOSFORVOIP\_Function\_solution\_3 | | |
| Priority | high | Automation Flag | yes |
| Topology to use | TOPO3 | | |
| Description | Classification base on trust DOT1P with user-defined mapping tableand marker dscp with user-defined mapping table | | |
| Platform Dependence | SR2024,SR2024P,SR2048,SR2048P | | |
| Pre-condition |  | | |
| Test procedure | 1. Configure Classification on port which connect to STA1 and use user-defined classification mapping table, configure the flow-out port marker   “qos enable”  “interface <name> qos-classifier aa”  “qos classifier-profile aa diffserv  interface <name> qos-marker aa  qos marker-profile aa dot1p  dot1p: 7 、2、65 、4 、3 1、 0  ah\_class:5 6 7  qos marker-map diffserv <ah-class><dot1p”  ah\_class: 7 6 5 4 3 2 1 0  dot1p: 6 5 4 3 2 1 0 7   1. STA1and STA3 each generates 1Gtagged-ip-stream (dscp=0-63) to STA2,   tagged-ip-stream:  dscp= 8~15 dot1p=1 125M  dscp= 16~23 dot1p=2 125M  dscp= 0~7 dot1p=0 125M  dscp= 24~31 dot1p=3 125M  dscp= 32~39 dot1p=4 125M  dscp= 40~47 dot1p=5 125M  dscp= 48~55 dot1p=6 125M  dscp= 56~63 dot1p=7 125M result1.   1. Configure qos classifier-profile aa diffserv   dot1p: 7 5 、46、 0、1 2 3  ah\_class:4 3 2 1 0  STA1and STA3 each generates 1Gtagged-ip-stream (dscp=0-63) to STA2,  tagged-ip-stream:  dscp= 8~15 dot1p=1 125M  dscp= 16~23 dot1p=2 125M  dscp= 0~7 dot1p=0 125M  dscp= 24~31 dot1p=3 125M  dscp= 32~39 dot1p=4 125M  dscp= 40~47 dot1p=5 125M  dscp= 48~55 dot1p=6 125M  dscp= 56~63 dot1p=7 125Mresult2.   1. Configure qos classifier-profile aa diffserv   dot1p: 7 5 、46、 0、1 2 3  ah\_class:4 3 2 1 0  STA1and STA3 each generates 1Gtagged-ip-stream (dscp=0-63) to STA2,  tagged-ip-stream:  dscp=1 dot1p=7 50M  dscp= 1dot1p=5100M  dscp= 1dot1p=4 100M  dscp= 1dot1p=0 100m  dscp= 1dot1p=6 100m  dscp= 1 dot1p=1100M  dscp= 1 dot1p=3 450M ,result3   1. Configure qos classifier-profile aa diffserv   DOT1P: 7 6、54、3、21 0  ah-class: 6 4 2 1 0  STA1and STA3 each generates 1Gtagged-ip-stream (dscp=0-63) to STA2,  tagged-ip-stream:  dscp=1 dot1p=760M  dscp= 1 dot1p=6 100M  dscp= 1 dot1p=5 120M  dscp= 1 dot1p=4150M  dscp= 1 dot1p=3 170M  dscp= 1 dot1p=2 20M  dscp= 1 dot1p=1 260M  dscp= 1 dot1p=0 120M,result4   1. STA1and STA3 generates Mix traffic to STA2 and configure   dot1p: 7 6 5 4 3 2 1 0  ah\_class: 0 1 2 3 3 5 6 7  1、tagged-ip-stream:  dscp= 8~15 dot1p=0 62.5M  dscp= 16~23 dot1p=1 62.5M  dscp= 0~7 dot1p=2 62.5M  dscp= 24~31 dot1p=3 62.5M  dscp= 32~39 dot1p=4 62.5M  dscp= 40~47 dot1p=5 62.5M  dscp= 48~55 dot1p=6 62.5M  dscp= 56~63 dot1p=7 62.5M  2、untagged-ip-stream:  dscp= 8~15 62.5M  dscp= 16~23 62.5M  dscp= 0~7 62.5M  dscp= 24~31 62.5M  dscp= 32~39 62.5M  dscp= 40~47 62.5M  dscp= 48~55 62.5M  dscp= 56~63 62.5M  3、tagged-non-ip stream:  dot1p=0 62.5M  dot1p=1 62.5M  dot1p=2 62.5M  dot1p=3 62.5M  dot1p=4 62.5M  dot1p=5 62.5M  dot1p=6 62.5M  dot1p=7 62.5M  4、untagged-non-ip stream with 100M ,result5 | | |
| Expect result | 1. stream of dot1p 6 will receive 500M dot1p =5 will receive 500M 2. stream of dot1p7 receive 24M dot1p0 will receive 121M Dot1p1 receive 242M Dot1p receive 363M Dot1p 3 will receive 250M 3. stream of dot1p3 receive 100M dot1p 2receive 519M dot1p receive 346M Dot1p1 receive 0M Dot1p0 receive 35M 4. stream of dot1p 6 receive 120M dot1p 4 receive 440M Dot1p2 receive 275M Dotp1p1 receive 137.5M Dot1p 0 receive 27.5M 5. stream of dot1p 6 receive 125M dot1p 5 receive 125M dot1p 4 receive 125M   Dot1p=3 is 245M dot1p=2 is 183.9M dot1p=1 is 122.6M dot1p=0 is 61.3M ,the flow of dot1p=7 、 untagged- ip stream and untagged-non-ip stream is 12.2M | | |
| Test result |  | | |

#### Case ID QOSFORVOIP\_Function\_solution\_4

|  |  |  |  |
| --- | --- | --- | --- |
| Case ID | QOSFORVOIP\_Function\_solution\_4 | | |
| Priority | high | Automation Flag | yes |
| Topology to use | Topo3 | | |
| Description | Classification base on trust DSCP with default mapping tableand marker with dscp | | |
| Platform Dependence | SR2024,SR2024P,SR2048,SR2048P | | |
| Pre-condition |  | | |
| Test procedure | 1. Configure Classification on port which connect to STA1 and use default classification mapping table, configure the flow-out port marker   “qos enable”  “interface <name> qos-classifier aa”  “qos classifier-profile aa diffserv  interface <name> qos-marker aa  qos marker-profile aa diffserv  dscp: 63-56 55-48 47-40 39-32 31-24 23-16 15-8 7-0  ah-class: 7 6 5 4 3 1 0 2  qos marker-map diffserv <ah-class><dscp>”  ah\_class: 7 6 5 4 3 2 1 0  dscp: 7 6 5 4 3 2 1 0  STA1 and STA3 each generates tagged-ip-stream to STA2  dscp= 8~15 dot1p=0 50M  dscp= 16~23 dot1p=1 50M  dscp= 0~7 dot1p=2 50M  dscp= 24~31 dot1p=3 50M  dscp= 32~39 dot1p=4 50M  dscp= 40~47 dot1p=5 50M  dscp= 48~55 dot1p=6 50M  dscp= 56~63 dot1p=7 50M,result1   1. STA1 and STA3 each generates tagged-ip-stream to STA2   dscp= 8~15 dot1p=0 50M  dscp= 16~23 dot1p=1 50M  dscp= 0~7 dot1p=2 50M  dscp= 24~31 dot1p=3 200M  dscp= 32~39 dot1p=4 200M  dscp= 40~47 dot1p=5 50M  dscp= 48~55 dot1p=6 50M  dscp= 56~63 dot1p=7 50M,result2   1. STA1 and STA3 each generates tagged-ip-stream to STA2   dscp= 8~15 dot1p=02M  dscp= 16~23 dot1p=1 50M  dscp= 0~7 dot1p=2 512M  dscp= 24~31 dot1p=3 256M  dscp= 32~39 dot1p=4 128M  dscp= 40~47 dot1p=5 64M  dscp= 48~55 dot1p=6 32M  dscp= 56~63 dot1p=716M ,result3   1. Change marker mapping table   ah\_class: 7 6 5 4 3 2 1 0  dscp: 7 7 6 6 6 2 2 2，result4   1. Change marker mapping table   ah\_class: 7 6 5 4 3 2 1 0  dscp: 7 7 6 6 6 2 5 2，result5 | | |
| Expect result | 1. tagged-ip-stream:   dscp= 0dot1p=0 100M  dscp= 1 dot1p=1 100M  dscp= 2dot1p=2 100M  dscp= 3 dot1p=3 100M  dscp= 4 dot1p=4 100M  dscp= 5 dot1p=5 100M  dscp= 6 dot1p=6 100M  dscp= 7 dot1p=7 100M   1. tagged-ip-stream:   dscp= 0dot1p=0 16M  dscp= 1 dot1p=1 73M  dscp= 2dot1p=2 100M  dscp= 3 dot1p=3 219M  dscp= 4 dot1p=4 292M  dscp= 5 dot1p=5 100M  dscp= 6 dot1p=6 100M  dscp= 7 dot1p=7 100M   1. tagged-ip-stream:   dscp= 0 dot1p=0 4M  dscp= 1 dot1p=1 86M  dscp= 2 dot1p=2 172M  dscp= 3 dot1p=3 258M  dscp= 4 dot1p=4 256M  dscp= 5 dot1p=5 128M  dscp= 6 dot1p=6 64M  dscp= 7 dot1p=7 32M   1. tagged-ip-stream:   dscp= 2 dot1p=0 4M  dscp= 2 dot1p=1 86M  dscp= 2 dot1p=2 172M  dscp= 6 dot1p=3 258M  dscp= 6 dot1p=4 256M  dscp= 6 dot1p=5 128M  dscp=7 dot1p=6 64M  dscp= 7 dot1p=7 32M   1. tagged-ip-stream:   dscp= 2 dot1p=0 4M  dscp= 5 dot1p=1 86M  dscp= 2 dot1p=2 172M  dscp= 6 dot1p=3 258M  dscp= 6 dot1p=4 256M  dscp= 6 dot1p=5 128M  dscp=7 dot1p=6 64M  dscp= 7 dot1p=7 32M | | |
| Test result |  | | |

#### Case ID QOSFORVOIP\_Function\_solution\_5

|  |  |  |  |
| --- | --- | --- | --- |
| Case ID | QOSFORVOIP\_Function\_solution\_5 | | |
| Priority | high | Automation Flag | yes |
| Topology to use | Topo3 | | |
| Description | Classification base on trust DOT1P with default mapping tableand marker dot1p with user-defined mapping table | | |
| Platform Dependence | SR2024,SR2024P,SR2048,SR2048P | | |
| Pre-condition |  | | |
| Test procedure | 1. Configure Classification on port which connect to STA1 and use default classification mapping table, configure the flow-out port marker   “qos enable”  “interface <name> qos-classifier aa”  “qos classifier-profile aa diffserv  interface <name> qos-marker aa  dot1p: 7 6 5 4 3 2 1 0  ah\_class: 7 6 5 4 3 1 0 2  qos marker-profile aa diffserv  qos marker-map diffserv <ah-class><priority>”  ah\_class: 7 6 5 4 3 2 1 0  dot1p: 0 1 2 3 4 5 6 7   1. STA1 and STA3 each generates tagged-ip-stream to STA2   dscp=2dot1p=02M  dscp= 0 dot1p=1 50M  dscp=1dot1p=2 512M  dscp= 3 dot1p=3 256M  dscp= 4 dot1p=4 128M  dscp=5dot1p=5 64M  dscp= 6 dot1p=6 32M  dscp= 7 dot1p=716M ,result1   1. Change mark mapping table   ah\_class: 7 6 5 4 3 2 1 0  dot1p: 1 1 1556 6 6, result2   1. Change mark mapping table   ah\_class: 7 6 5 4 3 2 1 0  dot1p: 1 1 155636, result3 | | |
| Expect result | 1. STA2 receive   dscp=2dot1p=7 4M  dscp= 0 dot1p=686M  dscp=1dot1p=5172M  dscp= 3 dot1p=4 258M  dscp= 4 dot1p=3256M  dscp=5dot1p=2 128M  dscp= 6 dot1p=164M  dscp= 7 dot1p=0 32M   1. STA2 receive   dscp=2dot1p=6 4M  dscp= 0 dot1p=686M  dscp=1dot1p=6172M  dscp= 3 dot1p=5 258M  dscp= 4 dot1p=5256M  dscp=5dot1p=1 128M  dscp= 6 dot1p=164M  dscp= 7 dot1p=1 32M   1. STA2 receive   dscp=2dot1p=6 4M  dscp= 0 dot1p=686M  dscp=1dot1p=3172M  dscp= 3 dot1p=5 258M  dscp= 4 dot1p=5256M  dscp=5dot1p=1 128M  dscp= 6 dot1p=164M   1. dscp= 7 dot1p=1 32M | | |
| Test result |  | | |

### Function Test Case <maybe has many sub-sections, up to you>

### 6.2.1. Classification

### 6.2.1.1 Classificationbased on dot1p

#### Case ID QOSFORVOIP\_Function\_dot1p\_1

|  |  |  |  |
| --- | --- | --- | --- |
| Case ID | QOSFORVOIP\_Function\_dot1p\_1 | | |
| Priority | high | Automation Flag | yes |
| Topology to use | Topo3 | | |
| Description | Test Classification base on Dot1pthrough one by one | | |
| Platform Dependence | SR2024,SR2024P,SR2048,SR2048P | | |
| Pre-condition |  | | |
| Test procedure | 1. Configure Classification on port which connect to STA1, configure the flow-out port marker   “qos enable”  “interface <name> qos-classifier aa”  “qos classifier-profile aa8021p  qos classifier-map 8021p 0 (0-7) (first use dot1p=0 ,test class0-7.then use dot1p=1 test class 0-7 ……)  interface <name> qos-marker aa  qos marker-profile aa 8021p  qos classifier-map 8021p <priority><ah-class>  ah-class: 7 6 5 4 3 2 1 0  priority: 7 6 5 4 3 0 2 1”  STA1generatestagged-stream 8021p(0-7) (generate 0/1/2/3…7 one by one) to STA2 ,capture packets,result1.   1. STA1 generatestagged-stream(tag=0)8021p(0-7) to STA2 ,capture packets,result2 | | |
| Expect result | 1. stream of dot1p=0-7 accordingly 2. stream of dot1p=0-7 accordingly | | |
| Test result |  | | |
| Comment: |  | | |

#### Case ID QOSFORVOIP\_Function\_dot1p\_2

|  |  |  |  |
| --- | --- | --- | --- |
| Case ID | QOSFORVOIP\_Function\_dot1p\_2 | | |
| Priority | high | Automation Flag | yes |
| Topology to use | Topo3 | | |
| Description | Test untagged-streamwhen Classification base on trust Dot1p | | |
| Platform Dependence | SR2024,SR2024P,SR2048,SR2048P | | |
| Pre-condition |  | | |
| Test procedure | 1. Configure Classification on port which connect to STA1, configure the flow-out port marker   “qos enable”  “interface <name> qos-classifier aa”  “qos classifier-profile aa8021p  interface <name> qos-marker aa  qos marker-profile aa 8021p  qos classifier-map 8021p <priority><ah-class>  ah-class: 7 6 5 4 3 2 1 0  priority: 7 6 5 4 3 0 2 1” ,capture packets,result1   1. Configure “qos marker-profile aa diff   ” STA1 generates untagged-ip-stream dscpto STA2 ,result2 | | |
| Expect result | 1. stream of dscp is the same as send and dot1p=1   2.stream of dscp=8 and dot1p=0 | | |
| Test result |  | | |
| Comment: |  | | |

#### Case ID QOSFORVOIP\_Function\_dot1p\_3

|  |  |  |  |
| --- | --- | --- | --- |
| Case ID | QOSFORVOIP\_Function\_dot1p\_3 | | |
| Priority | high | Automation Flag | yes |
| Topology to use | Topo3 | | |
| Description | Test default mapping table when Classification base on dot1p | | |
| Platform Dependence | SR2024,SR2024P,SR2048,SR2048P | | |
| Pre-condition |  | | |
| Test procedure | 1. Configure Classification on port which connect to STA1, configure the flow-out port marker   “qos enable”  “interface <name> qos-classifier aa”  “qos classifier-profile aa8021p  qos classifier-map 8021p <priority><ah-class>  priority: 7 6 5 4 3 2 1 0  ah-class: 7 6 5 4 3 102  interface <name> qos-marker aa  qos marker-profile aa 8021p   1. STA1and STA3 each generates 1Gtagged-ip-stream (dscp=0-63) to STA2,   tagged-ip-stream:  dscp=1 dot1p=7 60M  dscp= 1 dot1p=6 100M  dscp= 1 dot1p=5 120M  dscp= 1 dot1p=4 150M  dscp= 1 dot1p=3 170M  dscp= 1 dot1p=2 20M  dscp= 1 dot1p=1 260M  dscp= 1 dot1p=0 120M,result1 | | |
| Expect result | 1. stream of dot1p 7 receive 120M dot1p 6 receive 200M Dot1p 5 receive 240M Dotp1p 4 receive 172.5M Dot1p 3 receive 129.4M Dot1p 2 receive 86.2M Dot1p 1 receive 43.1M Dot1p 0 receive 8.8M | | |
| Test result |  | | |
| Comment: |  | | |

### 6.2.1.2 Classification based on dscp

#### Case ID QOSFORVOIP\_Function\_dscp\_1

|  |  |  |  |
| --- | --- | --- | --- |
| Case ID | QOSFORVOIP\_Function\_dscp\_1 | | |
| Priority | high | Automation Flag | yes |
| Topology to use | Topo3 | | |
| Description | Test classification base on dscpthrough one by one | | |
| Platform Dependence | SR2024,SR2024P,SR2048,SR2048P | | |
| Pre-condition |  | | |
| Test procedure | 1. Configure Classification on port which connect to STA1, configure the flow-out port marker   “qos enable”  “interface <name> qos-classifier aa”  “qos classifier-profile aadiffserv  qos classifier-map diffserv (0-63) (0-7) (first use dscp=0 ,test class0-7.then use dscp=1 test class 0-7 ……)  interface <name> qos-marker aa  qos marker-profile aa diffserv  ”  STA1 generates DSCP(0-63)(generate 0/1/2/3…63 one by one) traffic to STA2 , capture packets,result1. | | |
| Expect result | 1. stream of dscp=56 48 46 36 28 20 12 0 accordingly | | |
| Test result |  | | |
| Comment: |  | | |

#### Case ID QOSFORVOIP\_Function\_dscp\_2

|  |  |  |  |
| --- | --- | --- | --- |
| Case ID | QOSFORVOIP\_Function\_dscp\_2 | | |
| Priority | high | Automation Flag | yes |
| Topology to use | Topo3 | | |
| Description | Test non-ip stream when classification base on dscp | | |
| Platform Dependence | SR2024,SR2024P,SR2048,SR2048P | | |
| Pre-condition |  | | |
| Test procedure | 1. Configure Classification on port which connect to STA1, the flow-out port marker with default table   “qos enable”  “interface <name> qos-classifier aa”  qos classifier-map diffserv <dscp><ah-class>  dscp: 63-56 55-48 47-40 39-32 31-24 23-16 15-8 7-0  ah-class: 7 6 5 4 3 2 1 0  interface <name> qos-marker aa  qos marker-profile aa dot1p”  STA1 generates tagged-non-ip traffic to STA2 ,capture packets,result1. | | |
| Expect result | 1. stream of dot1p=0 . | | |
| Test result |  | | |
| Comment: |  | | |

#### Case ID QOSFORVOIP\_Function\_dscp\_3

|  |  |  |  |
| --- | --- | --- | --- |
| Case ID | QOSFORVOIP\_Function\_dscp\_3 | | |
| Priority | high | Automation Flag | yes |
| Topology to use | Topo3 | | |
| Description | Test default mapping table when classification is based on dscp | | |
| Platform Dependence | SR2024,SR2024P,SR2048,SR2048P | | |
| Pre-condition |  | | |
| Test procedure | 1. Configure Classification on port which connect to STA1, the flow-out port marker with default table   “qos enable”  “interface <name> qos-classifier aa”  qos classifier-map diffserv <dscp><ah-class>  dscp: 63-56 55-48 47-40 39-32 31-24 23-16 15-8 7-0  ah-class: 7 6 5 4 3 2 1 0  interface <name> qos-marker aa  STA1 generates tagged-non-ip traffic to STA2 ,  dscp= 63-56 dot1p=7 60M  dscp= 55-48 dot1p=6 100M  dscp= 47-40 dot1p=5 120M  dscp= 39-32 dot1p=4 150M  dscp= 31-24dot1p=3 170M  dscp= 23-16dot1p=2 20M  dscp= 15-8dot1p=1 260M  dscp= 7-0dot1p=0 120M,capture packets,result1. | | |
| Expect result | 1. stream of dscp=56 receive 120M dscp=48 receive 200M Dscp=46 receive 240M Dscp=36 receive 172.5M Dscp=28 receive 129.4M Dscp=20 receive 86.2M Dscp=12 receive 43.1M dscp=0 receive 8.8M | | |
| Test result |  | | |
| Comment: |  | | |

### 6.2.1.3 Classification based on interface

#### Case ID QOSFORVOIP\_Function\_interface\_1

|  |  |  |  |
| --- | --- | --- | --- |
| Case ID | QOSFORVOIP\_Function\_interface\_1 | | |
| Priority | high | Automation Flag | yes |
| Topology to use | Topo3 | | |
| Description | Test classification base on interface one by one | | |
| Platform Dependence | SR2024,SR2024P,SR2048,SR2048P | | |
| Pre-condition |  | | |
| Test procedure | 1. Configure Classification on port which connect to STA1, configure the flow-out port marker   “qos enable”  “qos classifier-map interface <name>0-7  interface <name> qos-marker aa  qos marker-profile aa diffserv  ”  STA1 generates DSCP(0-63) traffic to STA2 , capture packets,result1.   1. STA1 generates Dot1p(0-7) traffic to STA2 , capture packets   interface <name> qos-marker <marker-profile-name>  qos marker-profile aa 8021p,result2.   1. STA1 generates non-ip Dot1p(0-7) traffic to STA2 , capture packets   interface <name> qos-marker <marker-profile-name>  qos marker-profile aa 8021p,result3. | | |
| Expect result | 1. stream of dscp=56 48 46 36 28 20 12 0 accordingly 2. stream of dot1p=0-7 accordingly 3. stream of dot1p=0-7 accordingly | | |
| Test result |  | | |
| Comment: |  | | |

### 6.2.1.4Classification based oncombination

#### Case ID QOSFORVOIP\_Function\_combination\_1

|  |  |  |  |
| --- | --- | --- | --- |
| Case ID | QOSFORVOIP\_Function\_combination\_1 | | |
| Priority | high | Automation Flag | yes |
| Topology to use | Topo3 | | |
| Description | Test Classification base on dot1p and interface.With default mark table | | |
| Platform Dependence | SR2024,SR2024P,SR2048,SR2048P | | |
| Pre-condition |  | | |
| Test procedure |  | | |
| Expect result | 1. Configure Classification on port which connect to STA1, configure the flow-out port marker   “qos enable”  “interface <name> qos-classifier aa”  “qos classifier-profile aa8021p  qos classifier-map 8021p (0-7) (0-7)(first use dot1p=0 ,test class0-7.then use dot1p=1 test class 0-7 ……)  interface <name> qos-marker aa  qos marker-map diffserv <ah-class><dscp>  ah\_class: 7 6 5 4 3 2 1 0  dscp: 56 48 46 36 28 20 12 0  qos marker-profile aa 8021p”  STA1generatestagged-stream 8021p(0-7) to STA2 ,capture packets,result1.   1. STA1 generatestagged-stream(tag=0)8021p(0-7) to STA2 ,capture packets,result2 3. STA1generatesuntagged-ip-streamdscp(0-63) to STA2 ,   Configure “qos classifier-map interface <name>0-7”“qos marker-profile aa diffserv”capture packets,result3 | | |
| Test result | 1. stream of dot1p=0-7 accordingly 2. stream of dot1p=0-7 accordingly 3. stream of dscp=56 48 46 36 28 20 12 0 | | |
| Comment: | For packet with vlan\_id=0, our device will send out with untagged. So step 2 is invalid. | | |

#### Case ID QOSFORVOIP\_Function\_combination\_2

|  |  |  |  |
| --- | --- | --- | --- |
| Case ID | QOSFORVOIP\_Function\_combination\_2 | | |
| Priority | high | Automation Flag | yes |
| Topology to use | Topo3 | | |
| Description | Test Classification base on dscp and interface.With default mark table | | |
| Platform Dependence | SR2024,SR2024P,SR2048,SR2048P | | |
| Pre-condition |  | | |
| Test procedure |  | | |
| Expect result | 1. Configure Classification on port which connect to STA1, configure the flow-out port marker   “qos enable”  “interface <name> qos-classifier aa”  “qos classifier-profile aadiffserv  qos classifier-map diffserv (0-63) (0-7) (first use dscp=0 ,test class0-7.then use dscp=1 test class 0-7 ……)  interface <name> qos-marker aa  qos marker-profile aa diffserv  qos marker-map diffserv <ah-class><dscp>  ah\_class: 7 6 5 4 3 2 1 0  dscp: 56 48 46 36 28 20 12 0”  STA1 generates untagged-ip streamDSCP(0-63)to STA2 , capture packets,result1.   1. STA1 generates tagged-ip stream(tag=0)DSCP(0-63)to STA2 , capture packets,result2. 2. STA1 generates tagged-non-ip streamdot1p(0-7)to STA2 ,then configure “qos classifier-map interface <name>0~7 ”“qos marker-profile <name> 8021p”   capture packets,result3. | | |
| Test result | 1. stream of dscp= 56 48 46 36 28 20 12 0 accordingly 2. stream of dscp= 56 48 46 36 28 20 12 0 accordingly 3. stream of dot1p=0-7 accordingly as configure “qos classifier-map interface <name>0~7 ” | | |
| Comment: |  | | |

### 6.2.1.5Classificationbinding

#### Case ID QOSFORVOIP\_Function\_binding\_1

|  |  |  |  |
| --- | --- | --- | --- |
| Case ID | QOSFORVOIP\_Function\_binding\_1 | | |
| Priority | high | Automation Flag | yes |
| Topology to use | Topo3 | | |
| Description | Test classification, binding ports with differentclassification | | |
| Platform Dependence | SR2024,SR2024P,SR2048,SR2048P | | |
| Pre-condition |  | | |
| Test procedure | 1. binding first port with dot1p forclassificationprofile 2. binding second port with dscp forclassificationprofile 3. binding third port with interface forclassificationprofile 4. binding fourth port with dot1p&interface for classificationprofile 5. binding fifth port with dscp&interface for classificationprofile   …………  “qos enable”  “interface <name> qos-classifier aa”  “qos classifier-profile aadiffserv  interface <name> qos-marker aa  qos marker-profile aa diffserv”   1. STA1 and STA3 generates stream to STA2,result1 | | |
| Expect result | 1. The port of the classification is right | | |
| Test result |  | | |
| Comment: | CLI测试时附上。 | | |

#### Case ID QOSFORVOIP\_Function\_binding\_2

|  |  |  |  |
| --- | --- | --- | --- |
| Case ID | QOSFORVOIP\_Function\_binding\_2 | | |
| Priority | Middle | Automation Flag | yes |
| Topology to use | Topo3 | | |
| Description | Test classification, binding 24 ports with classification profile | | |
| Platform Dependence | SR2024,SR2024P | | |
| Pre-condition |  | | |
| Test procedure | 1. binding 24 ports with classification profile.show running-config,result1 2. use one of the 24 ports for configure Classification on port which connect to STA1, configure the flow-out port marker   “qos enable”  “interface <name> qos-classifier aa”  “qos classifier-profile aadiffserv  qos classifier-map diffserv (0-63) (0-7) (first use dscp=0 ,test class0-7.then use dscp=1 test class 0-7 ……)  interface <name> qos-marker aa  qos marker-profile aa diffserv  ”   1. STA1 generates DSCP(0-63) traffic to STA2 , capture packets,result2. 2. Use the first port,middle port and the last port,repeat step 2 and 3 ,result is 1 and 2 accordingly. | | |
| Expect result | 1. All ports were binding classification profile 2. stream of dscp=56 48 46 36 28 20 12 0 accordingly | | |
| Test result |  | | |
| Comment: |  | | |

#### Case ID QOSFORVOIP\_Function\_binding\_3

|  |  |  |  |
| --- | --- | --- | --- |
| Case ID | QOSFORVOIP\_Function\_binding\_3 | | |
| Priority | Middle | Automation Flag | yes |
| Topology to use | Topo3 | | |
| Description | Test classification, binding 48 ports with classification profile | | |
| Platform Dependence | SR2048,SR2048P | | |
| Pre-condition |  | | |
| Test procedure | 1. binding 48 ports with classification profile.show running-config,result1 2. use one of the 48 ports for configure Classification on port which connect to STA1, configure the flow-out port marker   “qos enable”  “interface <name> qos-classifier aa”  “qos classifier-profile aadiffserv  qos classifier-map diffserv (0-63) (0-7) (first use dscp=0 ,test class0-7.then use dscp=1 test class 0-7 ……)  interface <name> qos-marker aa  qos marker-profile aa diffserv  ”   1. STA1 generates DSCP(0-63) traffic to STA2 , capture packets,result2. 2. Use the first port,middle port and the last port,repeat step 2 and 3 ,result is 1 and 2 accordingly. | | |
| Expect result | 1. All ports were binding classification profile 2. stream of dscp=56 48 46 36 28 20 12 0 accordingly | | |
| Test result |  | | |
| Comment: |  | | |

### 6.2.1.6 Classification on port-channel

#### Case ID QOSFORVOIP\_Function\_port-channel\_1

|  |  |  |  |
| --- | --- | --- | --- |
| Case ID | QOSFORVOIP\_Function\_port-channel\_1 | | |
| Priority | middle | Automation Flag | yes |
| Topology to use | Topo3 | | |
| Description | Test Classification base on trust Dot1p,mark with default table on port-channel. | | |
| Platform Dependence | SR2024,SR2024P,SR2048,SR2048P | | |
| Pre-condition |  | | |
| Test procedure | 1. Configure Classification on port-channel which connect to STA1, configure the flow-out port marker   “qos enable”  “interface <name> qos-classifier aa”  “qos classifier-profile aa8021p  qos classifier-map 8021p (0-7) (0-7) (first use dot1p=0 ,test class0-7.then use dot1p=1 test class 0-7 ……)  interface <name> qos-marker aa  qos marker-profile aa 8021p  qos classifier-map 8021p <priority><ah-class>  ah-class: 7 6 5 4 3 2 1 0  priority: 7 6 5 4 3 0 2 1”  STA1generatestagged-stream 8021p(0-7) (generate 0/1/2/3…7 one by one) to STA2 ,capture packets,result1.   1. STA1 generatestagged-stream(tag=0)8021p(0-7) to STA2 ,capture packets,result2 2. STA1generatesuntagged-ip-stream dscp(0-63) to STA2 , configure”qos classifier-map 8021p <priority><diffse>”result3 | | |
| Expect result | 1. stream of dot1p=0-7 accordingly 2. stream of dot1p=3 accordingly 3. stream has no tag and dscp=0 | | |
| Test result |  | | |
| Comment: |  | | |

#### Case ID QOSFORVOIP\_Function\_port-channel\_2

|  |  |  |  |
| --- | --- | --- | --- |
| Case ID | QOSFORVOIP\_Function\_port-channel\_2 | | |
| Priority | middle | Automation Flag | yes |
| Topology to use | Topo3 | | |
| Description | Test classification base on dscp with default mark table on port-channel | | |
| Platform Dependence | SR2024,SR2024P,SR2048,SR2048P | | |
| Pre-condition |  | | |
| Test procedure | 1. Configure Classification on port-channelwhich connect to STA1, configure the flow-out port marker   “qos enable”  “interface <name> qos-classifier aa”  “qos classifier-profile aadiffserv  qos classifier-map diffserv (0-63) (0-7) (first use dscp=0 ,test class0-7.then use dscp=1 test class 0-7 ……)  interface <name> qos-marker aa  qos marker-profile aa diffserv  ”  STA1 generates DSCP(0-63)(generate 0/1/2/3…63 one by one) traffic to STA2 , capture packets,result1.   1. STA1generatestagged-nonip-stream dscp(0-63) to STA2 , configure”qos classifiermap 8021p <priority><diffse>”result2 | | |
| Expect result | 1. stream of dscp=56 48 46 36 28 20 12 0 accordingly 2. stream of dot1p=1 | | |
| Test result |  | | |
| Comment: |  | | |

#### Case ID QOSFORVOIP\_Function\_port-channel\_3

|  |  |  |  |
| --- | --- | --- | --- |
| Case ID | QOSFORVOIP\_Function\_port-channel\_3 | | |
| Priority | middle | Automation Flag | yes |
| Topology to use | Topo3 | | |
| Description | Test classification base on interface on port-channel | | |
| Platform Dependence | SR2024,SR2024P,SR2048,SR2048P | | |
| Pre-condition |  | | |
| Test procedure | 1. Configure Classification on port-channelwhich connect to STA1, configure the flow-out port marker   “qos enable”  “qos classifier-map interface <name>0-7  interface <name> qos-marker aa  qos marker-profile aa diffserv  ”  STA1 generates DSCP(0-63) traffic to STA2 , capture packets,result1.   1. STA1 generates Dot1p(0-7) traffic to STA2 , capture packets   interface <name> qos-marker <marker-profile-name>  qos marker-profile aa 8021p,result2. | | |
| Expect result | 1. stream of dscp=56 48 46 36 28 20 12 0 accordingly 2. stream of dot1p=0-7 accordingly | | |
| Test result |  | | |
| Comment: |  | | |

### 6.2.1.7 Classification on default

#### Case ID QOSFORVOIP\_Function\_default\_1

|  |  |  |  |
| --- | --- | --- | --- |
| Case ID | QOSFORVOIP\_Function\_default\_1 | | |
| Priority | high | Automation Flag | yes |
| Topology to use | Topo3 | | |
| Description | Test classification base on default | | |
| Platform Dependence | SR2024,SR2024P,SR2048,SR2048P | | |
| Pre-condition |  | | |
| Test procedure | 1. Configure Classification on port which connect to STA1, configure the flow-out port marker   “qos enable”  interface <name> qos-marker aa  qos marker-profile aa diffserv  ”  STA1 generates DSCP(0-63) traffic to STA2 , capture packets,result1.   1. STA1 generates Dot1p(0-7) traffic to STA2 , capture packets   interface <name> qos-marker <marker-profile-name>  qos marker-profile aa 8021p,result2.   1. STA1 generates non-ip Dot1p(0-7) traffic to STA2 , capture packets   interface <name> qos-marker <marker-profile-name>  qos marker-profile aa 8021p,result3. | | |
| Expect result | 1. stream of dscp=8 accordingly 2. stream of dot1p=1 accordingly 3. stream of dot1p=1 accordingly | | |
| Test result |  | | |
| Comment: |  | | |

### 6.2.2. marker

#### 6.2.2.1. markerbased on dot1p

#### Case ID QOSFORVOIP\_Function\_dot1p\_marker\_1

|  |  |  |  |
| --- | --- | --- | --- |
| Case ID | QOSFORVOIP\_Function\_dot1p\_marker\_1 | | |
| Priority | high | Automation Flag | yes |
| Topology to use | Topo3 | | |
| Description | Test marking, aerohive calss 0-7 mapping to 8021p(0-7) . | | |
| Platform Dependence | SR2024,SR2024P,SR2048,SR2048P | | |
| Pre-condition |  | | |
| Test procedure | 1. Configure Classification on port which connect to STA1, configure the flow-out port marker   “qos enable”  ““qos classifier-map 8021p <priority><ah-class>”  interface <name> qos-marker aa  qos classifier-map 8021p <priority><ah-class>  ah-class: 7 6 5 4 3 2 1 0  priority: 7 6 5 4 3 0 2 1  qos marker-profile aa 8021p  qos marker-map 8021p(0-7) (0-7)” (first use class=0 ,test dot1p0-7.then use class=1 test dot1p 0-7 ……)  STA1generatestagged-stream 8021p(0-7) (generate 0/1/2/3…7 one by one) to STA2 ,capture packets,result1.  STA1 generatestagged-stream(tag=0)8021p(0-7) (generate 0/1/2/3…7 one by one) to STA2 ,capture packets,result2. | | |
| Expect result | 1. stream of dot1p=0-7 accordingly as configure “qos marker-map 8021p(0-7)(0-7)” 2. stream of dot1p=0-7 accordingly as configure “qos marker-map 8021p(0-7)(0-7)” | | |
| Test result |  | | |
| Comment: |  | | |

#### Case ID QOSFORVOIP\_Function\_dot1p\_marker\_2

|  |  |  |  |
| --- | --- | --- | --- |
| Case ID | QOSFORVOIP\_Function\_dot1p\_marker\_2 | | |
| Priority | high | Automation Flag | yes |
| Topology to use | Topo3 | | |
| Description | Test marking dot1p with no-vlan-tagged-stream. | | |
| Platform Dependence | SR2024,SR2024P,SR2048,SR2048P | | |
| Pre-condition |  | | |
| Test procedure | 1. Configure Classification on port which connect to STA1, configure the flow-out port marker   “qos enable”  ““qos classifier-map 8021p <priority><ah-class>”  interface <name> qos-marker aa  qos classifier-map 8021p <priority><ah-class>  ah-class: 7 6 5 4 3 2 1 0  priority: 7 6 5 4 3 0 2 1  qos marker-profile aa 8021p  STA1generatesuntagged-stream 8021pto STA2 ,capture packets,result1. | | |
| Expect result | 1. stream has no tag | | |
| Test result |  | | |
| Comment: |  | | |

#### Case ID QOSFORVOIP\_Function\_dot1p\_marker\_3

|  |  |  |  |
| --- | --- | --- | --- |
| Case ID | QOSFORVOIP\_Function\_dot1p\_marker\_3 | | |
| Priority | middle | Automation Flag | yes |
| Topology to use | Topo3 | | |
| Description | Test default mapping table with marking dot1p | | |
| Platform Dependence | SR2024,SR2024P,SR2048,SR2048P | | |
| Pre-condition |  | | |
| Test procedure | 1. Configure Classification on port which connect to STA1, configure the flow-out port marker   “qos enable”  “qos classifier-map 8021p <priority><ah-class>  ah-class: 7 6 5 4 3 2 1 0  priority: 7 6 5 4 3 0 2 1  STA1and STA3 each generates 1Gtagged-ip-stream (dscp=0-63) to STA2,  tagged-ip-stream:  dscp=1 dot1p=7 60M  dscp= 1 dot1p=6 100M  dscp= 1 dot1p=5 120M  dscp= 1 dot1p=4 150M  dscp= 1 dot1p=3 170M  dscp= 1 dot1p=2 20M  dscp= 1 dot1p=1 260M  dscp= 1 dot1p=0 120Mcapture packets,result1 | | |
| Expect result | 1. stream of dot1p 7 receive 120M dot1p 6 receive 200M Dot1p 5 receive 240M Dotp1p 4 receive 172.5M Dot1p 3 receive 129.4M Dot1p 2 receive 86.2M Dot1p 1 receive 43.1M Dot1p 0 receive 8.8M | | |
| Test result |  | | |
| Comment: |  | | |
|  |  | | |

#### Case ID QOSFORVOIP\_function\_dot1p\_marker\_4

|  |  |  |  |
| --- | --- | --- | --- |
| Case ID | QOSFORVOIP\_function\_dot1p\_marker\_4 | | |
| Priority | middle | Automation Flag | yes |
| Topology to use | ---SW1-------SW2-----IXIA1  - -  ------------------------ | | |
| Description | marker BPDU protocolpriority | | |
| Platform Dependence | SR2024,SR2024P,SR2048,SR2048P | | |
| Pre-condition |  | | |
| Test procedure | 1. Configure Classification on port which connect to SW1/SW2 and use default classification mapping table, configure the flow-out port marker   “qos enable”  “interface <name> qos-classifier aa”  “qos classifier-profile aa8021p  interface <name> qos-marker aa  qos marker-profile aapriority  dot1p: 1 2 0 3 4 5 6 7  ah-class: 0 1 2 3 4 5 6 6  qos classifier-map 8021p <priority><ah-class>  ah-class: 7 6 5 4 3 2 1 0  **priority: 7 4 5 4 3 0 2 1**   1. IXIA1 mirroring the BPDU protocol message ,captual the packet,result1 2. qos classifier-map 8021p <priority><ah-class>   ah-class: 7 6 5 4 3 2 1 0  **priority: 7 2 5 4 3 0 2 1**   1. congfig “no interface <name> qos-marker aa” ,result3 | | |
| Expect result | 1. BPDU protocol message dot1p is 4 2. BPDU protocol message dot1p is 2 3. BPDU protocol message dot1p is 7 | | |
| Test result |  | | |

#### 6.2.2.2. marker based on dscp

#### Case ID QOSFORVOIP\_Function\_dscp\_marker\_1

|  |  |  |  |
| --- | --- | --- | --- |
| Case ID | QOSFORVOIP\_Function\_dscp\_marker\_1 | | |
| Priority | high | Automation Flag | yes |
| Topology to use | Topo3 | | |
| Description | Test marking dscp | | |
| Platform Dependence | SR2024,SR2024P,SR2048,SR2048P | | |
| Pre-condition |  | | |
| Test procedure | 1. Configure Classification on port which connect to STA1, configure the flow-out port marker   “qos enable”  “qos classifier-map diffserv <dscp><ah-class>  dscp: 63-56 55-48 47-40 39-32 31-24 23-16 15-8 7-0  ah-class: 7 6 5 4 3 2 1 0  interface <name> qos-marker aa  qos marker-profile aa diffserv  qos marker-map diffserv0-7 (0-63)” (first use class=0 ,test dscp0-63.then use class=1 test dscp0-63 ……)  STA1generates stream dscp(0-63) (generate 0/1/2/3…63 one by one) to STA2 ,capture packets,result1. | | |
| Expect result | 1. stream of dscp=0-63 accordingly as configure “qos marker-map diffserv0-7 (0-63)” | | |
| Test result |  | | |
| Comment: |  | | |

#### Case ID QOSFORVOIP\_Function\_dscp\_marker\_2

|  |  |  |  |
| --- | --- | --- | --- |
| Case ID | QOSFORVOIP\_Function\_dscp\_marker\_2 | | |
| Priority | high | Automation Flag | yes |
| Topology to use | Topo3 | | |
| Description | Test marking dscp and stream is non-ip | | |
| Platform Dependence | SR2024,SR2024P,SR2048,SR2048P | | |
| Pre-condition |  | | |
| Test procedure | 1. Configure Classification on port which connect to STA1, configure the flow-out port marker   “qos enable”  “qos classifier-map diffserv <dscp><ah-class>  dscp: 63-56 55-48 47-40 39-32 31-24 23-16 15-8 7-0  ah-class: 7 6 5 4 3 2 1 0  interface <name> qos-marker aa  qos marker-profile aa diffserv  STA1generatestagged-non-ipstream toSTA2 ,capture packets,result1. | | |
| Expect result | 1. stream has no dscp and dot1p will not change | | |
| Test result |  | | |
| Comment: |  | | |

#### Case ID QOSFORVOIP\_Function\_dscp\_marker\_3

|  |  |  |  |
| --- | --- | --- | --- |
| Case ID | QOSFORVOIP\_Function\_dscp\_marker\_3 | | |
| Priority | middle | Automation Flag | yes |
| Topology to use | Topo3 | | |
| Description | Test default table with marking dscp | | |
| Platform Dependence | SR2024,SR2024P,SR2048,SR2048P | | |
| Pre-condition |  | | |
| Test procedure | 1. Configure Classification on port which connect to STA1, configure the flow-out port marker   “qos enable”  qos classifier-map diffserv <dscp><ah-class>  dscp: 63-56 55-48 47-40 39-32 31-24 23-16 15-8 7-0  ah-class: 7 6 5 4 3 2 1 0  STA1 generates stream dscp(0-63) to STA2  dscp= 63-56 dot1p=7 60M  dscp= 55-48 dot1p=6 100M  dscp= 47-40 dot1p=5 120M  dscp= 39-32 dot1p=4 150M  dscp= 31-24dot1p=3 170M  dscp= 23-16dot1p=2 20M  dscp= 15-8dot1p=1 260M  dscp= 7-0dot1p=0 120Mcapture packets,result1. | | |
| Expect result | 1. stream of dscp=56 receive 120M dscp=48 receive 200M Dscp=46 receive 240M Dscp=36 receive 172.5M Dscp=28 receive 129.4M Dscp=20 receive 86.2M Dscp= 12 receive 43.1M dscp=0 receive 8.8M | | |
| Test result |  | | |
| Comment: |  | | |

#### Case ID QOSFORVOIP\_Function\_dscp\_marker\_4

|  |  |  |  |
| --- | --- | --- | --- |
| Case ID | QOSFORVOIP\_Function\_dscp\_marker\_4 | | |
| Priority | high | Automation Flag | yes |
| Topology to use | IXIA1----------------SW1 | | |
| Description | Test marker dot1p for ping | | |
| Platform Dependence | SR2024,SR2024P,SR2048,SR2048P | | |
| Pre-condition |  | | |
| Test procedure | 1. Configure Classification on port which connect to STA1, configure the flow-out port marker   “qos enable”  “qos marker-profile <name><diffserv>  ah\_class: 7 6 5 4 3 2 1 0  dscp: 56 48 46 36 28 20 12 0   1. SW1 ping IXIA1,result1 2. Configure marker   qos marker-profile <name><diffserv>  ah\_class: 7 6 5 4 3 2 1 0  dscp: 56 48 46 36 28 20 12 15 , result2   1. Congfigue “no qos marker-profile <name><diffserv>” result3 | | |
| Expect result | 1. stream of dscp=0 2. stream of dscp=15 3. stream of dscp=0 | | |
| Test result |  | | |
| Comment: |  | | |

#### 6.2.2.3. marker binding

#### Case ID QOSFORVOIP\_Function\_binding\_marker\_1

|  |  |  |  |
| --- | --- | --- | --- |
| Case ID | QOSFORVOIP\_Function\_binding\_marker\_1 | | |
| Priority | high | Automation Flag | yes |
| Topology to use | Topo3 | | |
| Description | Test marking, binding 24 ports with marking profile | | |
| Platform Dependence | SR2024,SR2024P | | |
| Pre-condition |  | | |
| Test procedure | 1. binding 24ports with marking profile.show running-config,result1 2. Configure Classification on port which connect to STA1, use one of the flow-out port marker   “qos enable”  “qos classifier-map diffserv <dscp><ah-class>  dscp: 63-56 55-48 47-40 39-32 31-24 23-16 15-8 7-0  ah-class: 7 6 5 4 3 2 1 0  interface <name> qos-marker aa  qos marker-profile aa diffserv  qos marker-map diffserv0-7 (0-63)” (first use class=0 ,test dscp0-63.then use class=1 test dscp0-63 ……)   1. STA1generates stream dscp(0-63) (generate 0/1/2/3…63 one by one) to STA2 ,capture packets,result2 | | |
| Expect result | 1. All ports were binding marking profile 2. stream of dscp=0-63 accordingly as configure “qos marker-map diffserv0-7 (0-63)” | | |
| Test result |  | | |
| Comment: |  | | |

#### Case ID QOSFORVOIP\_Function\_binding\_marker\_2

|  |  |  |  |
| --- | --- | --- | --- |
| Case ID | QOSFORVOIP\_Function\_binding\_marker\_2 | | |
| Priority | Middle | Automation Flag | yes |
| Topology to use | Topo3 | | |
| Description | Test marking, aerohive calss 0-7 mapping to default. | | |
| Platform Dependence | SR2048,SR2048P | | |
| Pre-condition |  | | |
| Test procedure | 1. binding 48 ports with marking profile.show running-config,result1 2. Configure Classification on port which connect to STA1, use one of the flow-out port marker   “qos enable”  “qos classifier-map diffserv <dscp><ah-class>  dscp: 63-56 55-48 47-40 39-32 31-24 23-16 15-8 7-0  ah-class: 7 6 5 4 3 2 1 0  interface <name> qos-marker aa  qos marker-profile aa diffserv  qos marker-map diffserv0-7 (0-63)” (first use class=0 ,test dscp0-63.then use class=1 test dscp0-63 ……)   1. STA1generates stream dscp(0-63) (generate 0/1/2/3…63 one by one) to STA2 ,capture packets,result2 | | |
| Expect result | 1. All ports were binding marking profile 2. stream of dscp=0-63 accordingly as configure “qos marker-map diffserv0-7 (0-63)” | | |
| Test result |  | | |
| Comment: |  | | |

#### Case ID QOSFORVOIP\_Function\_binding\_marker\_3

|  |  |  |  |
| --- | --- | --- | --- |
| Case ID | QOSFORVOIP\_Function\_binding\_marker\_3 | | |
| Priority | Middle | Automation Flag | yes |
| Topology to use | Topo3 | | |
| Description | Binding ports with different markers | | |
| Platform Dependence | SR2048,SR2048P | | |
| Pre-condition |  | | |
| Test procedure | 1. binding first port with dot1p for marker profile a 2. binding second port with dscp for marker profile b   …………  “qos enable”  “interface <name> qos-classifier aa”  “qos classifier-profile aadiffserv  interface <name> qos-marker aa  qos marker-profile aa diffserv”   1. STA1 and STA3 generates stream to STA2,result1 | | |
| Expect result | 1. The port of the marker is right | | |
| Test result |  | | |
| Comment: | CLI 测试时加 | | |

#### 6.2.2.4. marker on port-channel

#### Case ID QOSFORVOIP\_Function\_port-channel\_marker\_1

|  |  |  |  |
| --- | --- | --- | --- |
| Case ID | QOSFORVOIP\_Function\_port-channel\_marker\_1 | | |
| Priority | Middle | Automation Flag | yes |
| Topology to use | Topo3 | | |
| Description | Test marking, aerohive calss 0-7 mapping to 8021p(0-7) on port-channel | | |
| Platform Dependence | SR2024,SR2024P,SR2048,SR2048P | | |
| Pre-condition |  | | |
| Test procedure | 1. Configure Classification on port-channelwhich connect to STA1, configure the flow-out port marker   “qos enable”  ““qos classifier-map 8021p <priority><ah-class>”  interface <name> qos-marker aa  qos classifier-map 8021p <priority><ah-class>  ah-class: 7 6 5 4 3 2 1 0  priority: 7 6 5 4 3 0 2 1  qos marker-profile aa 8021p  qos marker-map 8021p(0-7) (0-7)” (first use class=0 ,test dot1p0-7.then use class=1 test dot1p 0-7 ……)  STA1generatestagged-stream 8021p(0-7) (generate 0/1/2/3…7 one by one) to STA2 ,capture packets,result1.  STA1 generatestagged-stream(tag=0)8021p(0-7) (generate 0/1/2/3…7 one by one) to STA2 ,capture packets,result2. | | |
| Expect result | 1. stream of dot1p=0-7 accordingly as configure “qos marker-map 8021p(0-7)(0-7)” 2. stream of dot1p=0-7 accordingly as configure “qos marker-map 8021p(0-7)(0-7)” | | |
| Test result |  | | |
| Comment: |  | | |

#### Case ID QOSFORVOIP\_Function\_port-channel\_marker\_2

|  |  |  |  |
| --- | --- | --- | --- |
| Case ID | QOSFORVOIP\_Function\_port-channel\_marker\_2 | | |
| Priority | Middle | Automation Flag | yes |
| Topology to use | Topo3 | | |
| Description | Test marking on port-channel | | |
| Platform Dependence | SR2024,SR2024P,SR2048,SR2048P | | |
| Pre-condition |  | | |
| Test procedure | 1. Configure Classification on port which connect to STA1, configure the flow-out port marker   “qos enable”  “qos classifier-map diffserv <dscp><ah-class>  dscp: 63-56 55-48 47-40 39-32 31-24 23-16 15-8 7-0  ah-class: 7 6 5 4 3 2 1 0  interface <name> qos-marker aa  qos marker-profile aa diffserv  qos marker-map diffserv0-7 (0-63)” (first use class=0 ,test dscp0-63.then use class=1 test dscp0-63 ……)  STA1generates stream dscp(0-63) (generate 0/1/2/3…63 one by one) to STA2 ,capture packets,result1. | | |
| Expect result | 1. stream of dscp=0-63 accordingly as configure “qos marker-map diffserv0-7 (0-63)” | | |
| Test result |  | | |
| Comment: |  | | |

### 6.2.3. scheduler

#### 6.2.3.1. schedulerof SP

#### Case ID QOSFORVOIP\_Function\_sp\_1

|  |  |  |  |
| --- | --- | --- | --- |
| Case ID | QOSFORVOIP\_Function\_sp\_1 | | |
| Priority | high | Automation Flag | yes |
| Topology to use | Topo3 | | |
| Description | queue is 7 and background flow. Test sp scheduler. | | |
| Platform Dependence | SR2024,SR2024P,SR2048,SR2048P | | |
| Pre-condition |  | | |
| Test procedure | 1. Configure Classification on port which connect to STA1, configure the flow-out port marker   “qos enable”  “interface <name> qos-classifier aa”  “qos classifier-profile aa diffserv  dscp: 0-15 16-31 32-64 ah-class: 2 4 7  qos marker-map diffserv <ah-class><dscp>  ah\_class: 7 6 5 4 3 2 1 0 dscp: 7 6 5 4 3 2 1 0  STA1generatesstream dscp(0-63) to STA2 ,  STA1 and STA3 each generates tagged-ip-stream to STA2  dscp= 8~15 2M  dscp= 16~23 50M  dscp= 0~7 412M  dscp= 24~31 156M  dscp= 32~39 128M  dscp= 40~47 64M  dscp= 48~55 32M  dscp= 56~63 16M, result1.   1. Change the traffic   STA1generatesstream dscp(0-63) to STA2 ,  STA1 and STA3 each generates tagged-ip-stream to STA2  dscp= 8~15 2M  dscp= 16~23 50M  dscp= 0~7 12M  dscp= 24~31 156M  dscp= 32~39 128M  dscp= 40~47 64M  dscp= 48~55 32M  dscp= 56~63 420M, result2 | | |
| Expect result | 1. stream of dscp=7is 480M ,stream of dscp 4 is 346M stream of dscp 2 is 173 M 2. stream of dscp=7 is 1000M | | |
| Test result |  | | |
| Comment: |  | | |

#### Case ID QOSFORVOIP\_Function\_sp\_2

|  |  |  |  |
| --- | --- | --- | --- |
| Case ID | QOSFORVOIP\_Function\_sp\_2 | | |
| Priority | high | Automation Flag | yes |
| Topology to use | Topo3 | | |
| Description | queue is 6 and background flow. Test sp scheduler. | | |
| Platform Dependence | SR2024,SR2024P,SR2048,SR2048P | | |
| Pre-condition |  | | |
| Test procedure | 1. Configure Classification on port which connect to STA1, configure the flow-out port marker   “qos enable”  “interface <name> qos-classifier aa”  “qos classifier-profile aa diffserv  dscp: 0-15 16-31 32-64 ah-class: 2 4 6  qos marker-map diffserv <ah-class><dscp>  ah\_class: 7 6 5 4 3 2 1 0 dscp: 7 6 5 4 3 2 1 0  STA1generatesstream dscp(0-63) to STA2 ,  STA1 and STA3 each generates tagged-ip-stream to STA2  dscp= 8~15 2M  dscp= 16~23 50M  dscp= 0~7 412M  dscp= 24~31 156M  dscp= 32~39 128M  dscp= 40~47 64M  dscp= 48~55 32M  dscp= 56~63 16M, result1.   1. Change the traffic   STA1generatesstream dscp(0-63) to STA2 ,  STA1 and STA3 each generates tagged-ip-stream to STA2  dscp= 8~15 2M  dscp= 16~23 50M  dscp= 0~7 12M  dscp= 24~31 156M  dscp= 32~39 128M  dscp= 40~47 64M  dscp= 48~55 32M  dscp= 56~63 420M, result2 | | |
| Expect result | 1. stream of dscp=6 is 480M ,stream of dscp 4 is 346M stream of dscp 2 is 173 M 2. stream of dscp=6 is 1000M | | |
| Test result |  | | |
| Comment: |  | | |

#### Case ID QOSFORVOIP\_Function\_sp\_3

|  |  |  |  |
| --- | --- | --- | --- |
| Case ID | QOSFORVOIP\_Function\_sp\_3 | | |
| Priority | high | Automation Flag | yes |
| Topology to use | Topo3 | | |
| Description | queue is 5 and background flow. Test sp scheduler. | | |
| Platform Dependence | SR2024,SR2024P,SR2048,SR2048P | | |
| Pre-condition |  | | |
| Test procedure | 1. Configure Classification on port which connect to STA1, configure the flow-out port marker   “qos enable”  “interface <name> qos-classifier aa”  “qos classifier-profile aa diffserv  dscp: 0-15 16-31 32-64 ah-class: 2 4 5  qos marker-map diffserv <ah-class><dscp>  ah\_class: 7 6 5 4 3 2 1 0 dscp: 7 6 5 4 3 2 1 0  STA1generatesstream dscp(0-63) to STA2 ,  STA1 and STA3 each generates tagged-ip-stream to STA2  dscp= 8~15 2M  dscp= 16~23 50M  dscp= 0~7 412M  dscp= 24~31 156M  dscp= 32~39 128M  dscp= 40~47 64M  dscp= 48~55 32M  dscp= 56~63 16M, result1.   1. Change the traffic   STA1generatesstream dscp(0-63) to STA2 ,  STA1 and STA3 each generates tagged-ip-stream to STA2  dscp= 8~15 2M  dscp= 16~23 50M  dscp= 0~7 12M  dscp= 24~31 156M  dscp= 32~39 128M  dscp= 40~47 64M  dscp= 48~55 32M  dscp= 56~63 420M, result2 | | |
| Expect result | 1. stream of dscp=5 is 480M ,stream of dscp 4 is 346M stream of dscp 2 is 173 M 2. stream of dscp=5 is 1000M | | |
| Test result |  | | |
| Comment: |  | | |

#### Case ID QOSFORVOIP\_Function\_sp\_4

|  |  |  |  |
| --- | --- | --- | --- |
| Case ID | QOSFORVOIP\_Function\_sp\_4 | | |
| Priority | high | Automation Flag | yes |
| Topology to use | Topo3 | | |
| Description | queue is 7 6 5 . Test sp scheduler. | | |
| Platform Dependence | SR2024,SR2024P,SR2048,SR2048P | | |
| Pre-condition |  | | |
| Test procedure | 1. Configure Classification on port which connect to STA1, configure the flow-out port marker   “qos enable”  “interface <name> qos-classifier aa”  “qos classifier-profile aa diffserv  dscp: 0-20 21-42 43-63 ah-class: 567  qos marker-map diffserv <ah-class><dscp>  ah\_class: 7 6 5 4 3 2 1 0 dscp: 7 6 5 4 3 2 1 0  STA1generatesstream dscp(0-63) to STA2 ,  STA1 and STA3 each generates tagged-ip-stream to STA2  dscp= 43~63250M  dscp= 16~23 250M  dscp= 0~7 250M, result1.  The stream out of port qos-shape =400M,result2  STA1generatesstream dscp(0-63) to STA2 ,  STA1 and STA3 each generates tagged-ip-stream to STA2  dscp= 43~63 150M  dscp= 16~23 150M  dscp= 0~7 150M, The stream out of port qos-shape =700M, result3. | | |
| Expect result | 1. stream of dscp=7 is 500M ,stream of dscp 6 is 500 M 2. stream of dscp=7 is 400M 3. stream of dscp=7 is 300M,stream of dscp=6 is 300M ,stream of dscp=5 is 100M | | |
| Test result |  | | |
| Comment: |  | | |

#### 6.2.3.2. scheduler of WRR

#### Case ID QOSFORVOIP\_Function\_wrr\_1

|  |  |  |  |
| --- | --- | --- | --- |
| Case ID | QOSFORVOIP\_Function\_wrr\_1 | | |
| Priority | high | Automation Flag | yes |
| Topology to use | Topo3 | | |
| Description | Test queue is 1 and 0. | | |
| Platform Dependence | SR2024,SR2024P,SR2048,SR2048P | | |
| Pre-condition |  | | |
| Test procedure | 1. Configure Classification on port which connect to STA1, configure the flow-out port marker   “qos enable”  “interface <name> qos-classifier aa”  “qos classifier-profile aa diffserv  dscp: 0-31 32-63 ah-class: 01  qos marker-map diffserv <ah-class><dscp>  ah\_class: 7 6 5 4 3 2 1 0 dscp: 7 6 5 4 3 2 1 0  STA1generatesstream dscp(0-63) to STA2 ,(no congestion)  STA1 and STA3 each generates tagged-ip-stream to STA2  dscp= 0~31250M  dscp= 32~63 250M  , result1.   1. STA1 and STA3 each generates tagged-ip-stream to STA2   dscp= 0~31 50M  dscp= 32~63 850M,result2(congestion) | | |
| Expect result | 1. stream of dscp=0 is 500M ,stream of dscp 1 is 500 M 2. stream of dscp 1 is 1G | | |
| Test result |  | | |
| Comment: |  | | |

#### Case ID QOSFORVOIP\_Function\_wrr\_2

|  |  |  |  |
| --- | --- | --- | --- |
| Case ID | QOSFORVOIP\_Function\_wrr\_2 | | |
| Priority | high | Automation Flag | yes |
| Topology to use | Topo3 | | |
| Description | Test queue is 2 and 0. | | |
| Platform Dependence | SR2024,SR2024P,SR2048,SR2048P | | |
| Pre-condition |  | | |
| Test procedure | 1. Configure Classification on port which connect to STA1, configure the flow-out port marker   “qos enable”  “interface <name> qos-classifier aa”  “qos classifier-profile aa diffserv  dscp: 0-31 32-63 ah-class: 02  qos marker-map diffserv <ah-class><dscp>  ah\_class: 7 6 5 4 3 2 1 0 dscp: 7 6 5 4 3 2 1 0  STA1generatesstream dscp(0-63) to STA2 ,(no congestion)  STA1 and STA3 each generates tagged-ip-stream to STA2  dscp= 0~31 250M  dscp= 32~63 250M  , result1.   1. STA1 and STA3 each generates tagged-ip-stream to STA2   dscp= 0~3125M  dscp= 32~63 850M,result2(congestion) | | |
| Expect result | 1. stream of dscp=0 is 500M ,stream of dscp 2 is 500 M 2. stream of dscp=1 is 1G | | |
| Test result |  | | |
| Comment: |  | | |

#### Case ID QOSFORVOIP\_Function\_wrr\_3

|  |  |  |  |
| --- | --- | --- | --- |
| Case ID | QOSFORVOIP\_Function\_wrr\_3 | | |
| Priority | high | Automation Flag | yes |
| Topology to use | Topo3 | | |
| Description | Testqueue is 3 and 0. | | |
| Platform Dependence | SR2024,SR2024P,SR2048,SR2048P | | |
| Pre-condition |  | | |
| Test procedure | 1. Configure Classification on port which connect to STA1, configure the flow-out port marker   “qos enable”  “interface <name> qos-classifier aa”  “qos classifier-profile aa diffserv  dscp: 0-31 32-63 ah-class: 03  qos marker-map diffserv <ah-class><dscp>  ah\_class: 7 6 5 4 3 2 1 0 dscp: 7 6 5 4 3 2 1 0  STA1generatesstream dscp(0-63) to STA2 ,(no congestion)  STA1 and STA3 each generates tagged-ip-stream to STA2  dscp= 0~31 250M  dscp= 32~63 250M  , result1.   1. STA1 and STA3 each generates tagged-ip-stream to STA2   dscp= 0~31 25M  dscp= 32~63 850M,result2(congestion) | | |
| Expect result | 1. stream of dscp=0 is 500M ,stream of dscp 2 is 500 M 2. stream of dscp=1 is 1G | | |
| Test result |  | | |
| Comment: |  | | |

#### Case ID QOSFORVOIP\_Function\_wrr\_4

|  |  |  |  |
| --- | --- | --- | --- |
| Case ID | QOSFORVOIP\_Function\_wrr\_4 | | |
| Priority | high | Automation Flag | yes |
| Topology to use | Topo3 | | |
| Description | Testqueue is 4 and 0. | | |
| Platform Dependence | SR2024,SR2024P,SR2048,SR2048P | | |
| Pre-condition |  | | |
| Test procedure | 1. Configure Classification on port which connect to STA1, configure the flow-out port marker   “qos enable”  “interface <name> qos-classifier aa”  “qos classifier-profile aa diffserv  dscp: 0-31 32-63 ah-class: 04  qos marker-map diffserv <ah-class><dscp>  ah\_class: 7 6 5 4 3 2 1 0 dscp: 7 6 5 4 3 2 1 0  STA1generatesstream dscp(0-63) to STA2 ,(no congestion)  STA1 and STA3 each generates tagged-ip-stream to STA2  dscp= 0~31 250M  dscp= 32~63 250M  , result1.   1. STA1 and STA3 each generates tagged-ip-stream to STA2   dscp= 0~31 20M  dscp= 32~63 850M,result2(congestion) | | |
| Expect result | 1. stream of dscp=0 is 500M ,stream of dscp 2 is 500 M 2. stream of dscp=1 is 1G | | |
| Test result |  | | |
| Comment: |  | | |

#### Case ID QOSFORVOIP\_Function\_wrr\_5

|  |  |  |  |
| --- | --- | --- | --- |
| Case ID | QOSFORVOIP\_Function\_wrr\_5 | | |
| Priority | Middle | Automation Flag | yes |
| Topology to use | Topo3 | | |
| Description | queue is 4 and 1. Test WRR scheduler. | | |
| Platform Dependence | SR2024,SR2024P,SR2048,SR2048P | | |
| Pre-condition |  | | |
| Test procedure | 1. Configure Classification on port which connect to STA1, configure the flow-out port marker   “qos enable”  “interface <name> qos-classifier aa”  “qos classifier-profile aa diffserv  dscp: 0-31 32-63 ah-class: 14  qos marker-map diffserv <ah-class><dscp>  ah\_class: 7 6 5 4 3 2 1 0 dscp: 7 6 5 4 3 2 1 0  STA1generatesstream dscp(0-63) to STA2 ,(no congestion)  STA1 and STA3 each generates tagged-ip-stream to STA2  dscp= 0~31 250M  dscp= 32~63 250M  , result1.   1. STA1 and STA3 each generates tagged-ip-stream to STA2   dscp= 0~31 20M  dscp= 32~63 850M,result2(congestion)   1. STA1 and STA3 each generates tagged-ip-stream to STA2   dscp= 0~31 300M  dscp= 32~63 700M,result3(congestion)   1. STA1 and STA3 each generates tagged-ip-stream to STA2   dscp= 0~31 800M  dscp= 32~63 10M,result4(congestion) | | |
| Expect result | 1. stream of dscp=1 is 500M ,stream of dscp 4 is 500 M 2. stream of dscp=1 is 40M ,stream of dscp 4 is 960 M 3. stream of dscp=1 is 200M ,stream of dscp 4 is 800M 4. stream of dscp=1 is 980M,stream of dscp 4 is 20M | | |
| Test result |  | | |
| Comment: |  | | |

#### Case ID QOSFORVOIP\_Function\_wrr\_6

|  |  |  |  |
| --- | --- | --- | --- |
| Case ID | QOSFORVOIP\_Function\_wrr\_6 | | |
| Priority | Middle | Automation Flag | yes |
| Topology to use | Topo3 | | |
| Description | queue is 4 and 2. Test WRR scheduler. | | |
| Platform Dependence | SR2024,SR2024P,SR2048,SR2048P | | |
| Pre-condition |  | | |
| Test procedure | 1. Configure Classification on port which connect to STA1, configure the flow-out port marker   “qos enable”  “interface <name> qos-classifier aa”  “qos classifier-profile aa diffserv  dscp: 0-31 32-63 ah-class: 24  qos marker-map diffserv <ah-class><dscp>  ah\_class: 7 6 5 4 3 2 1 0 dscp: 7 6 5 4 3 2 1 0  STA1generatesstream dscp(0-63) to STA2 ,(no congestion)  STA1 and STA3 each generates tagged-ip-stream to STA2  dscp= 0~31 250M  dscp= 32~63 250M  , result1.   1. STA1 and STA3 each generates tagged-ip-stream to STA2   dscp= 0~31 20M  dscp= 32~63 850M,result2(congestion)   1. STA1 and STA3 each generates tagged-ip-stream to STA2   dscp= 0~31 300M  dscp= 32~63 700M,result3(congestion)   1. STA1 and STA3 each generates tagged-ip-stream to STA2   dscp= 0~31 800M  dscp= 32~63 10M,result4(congestion) | | |
| Expect result | 1. stream of dscp=2 is 500M ,stream of dscp 4 is 500 M 2. stream of dscp=2 is 40M ,stream of dscp 4 is 960 M 3. stream of dscp=2 is333.3M ,stream of dscp 4 is 666.6M 4. stream of dscp=2 is 980M,stream of dscp 4 is 20M | | |
| Test result |  | | |
| Comment: |  | | |

#### Case ID QOSFORVOIP\_Function\_wrr\_7

|  |  |  |  |
| --- | --- | --- | --- |
| Case ID | QOSFORVOIP\_Function\_wrr\_7 | | |
| Priority | Middle | Automation Flag | yes |
| Topology to use | Topo3 | | |
| Description | queue is 4 and 3. Test WRR scheduler. | | |
| Platform Dependence | SR2024,SR2024P,SR2048,SR2048P | | |
| Pre-condition |  | | |
| Test procedure | 1. Configure Classification on port which connect to STA1, configure the flow-out port marker   “qos enable”  “interface <name> qos-classifier aa”  “qos classifier-profile aa diffserv  dscp: 0-31 32-63 ah-class: 34  qos marker-map diffserv <ah-class><dscp>  ah\_class: 7 6 5 4 3 2 1 0 dscp: 7 6 5 4 3 2 1 0  STA1generatesstream dscp(0-63) to STA2 ,(no congestion)  STA1 and STA3 each generates tagged-ip-stream to STA2  dscp= 0~31 250M  dscp= 32~63 250M  , result1.   1. STA1 and STA3 each generates tagged-ip-stream to STA2   dscp= 0~31 20M  dscp= 32~63 850M,result2(congestion)   1. STA1 and STA3 each generates tagged-ip-stream to STA2   dscp= 0~31 300M  dscp= 32~63 700M,result3(congestion)   1. STA1 and STA3 each generates tagged-ip-stream to STA2   dscp= 0~31 800M  dscp= 32~63 10M,result4(congestion) | | |
| Expect result | 1. stream of dscp=3 is 500M ,stream of dscp 4 is 500 M 2. stream of dscp=3 is 40M ,stream of dscp 4 is 960 M 3. stream of dscp=3 is 428.5M ,stream of dscp 4 is 571.5M 4. stream of dscp=3 is 980M,stream of dscp 4 is 20M | | |
| Test result |  | | |
| Comment: |  | | |

#### Case ID QOSFORVOIP\_Function\_wrr\_8

|  |  |  |  |
| --- | --- | --- | --- |
| Case ID | QOSFORVOIP\_Function\_wrr\_8 | | |
| Priority | Middle | Automation Flag | yes |
| Topology to use | Topo3 | | |
| Description | queue is 1 and 3. Test WRR scheduler. | | |
| Platform Dependence | SR2024,SR2024P,SR2048,SR2048P | | |
| Pre-condition |  | | |
| Test procedure | 1. Configure Classification on port which connect to STA1, configure the flow-out port marker   “qos enable”  “interface <name> qos-classifier aa”  “qos classifier-profile aa diffserv  dscp: 0-31 32-63 ah-class: 13  qos marker-map diffserv <ah-class><dscp>  ah\_class: 7 6 5 4 3 2 1 0 dscp: 7 6 5 4 3 2 1 0  STA1generatesstream dscp(0-63) to STA2 ,(no congestion)  STA1 and STA3 each generates tagged-ip-stream to STA2  dscp= 0~31 250M  dscp= 32~63 250M  , result1.   1. STA1 and STA3 each generates tagged-ip-stream to STA2   dscp= 0~31 20M  dscp= 32~63 850M,result2(congestion)   1. STA1 and STA3 each generates tagged-ip-stream to STA2   dscp= 0~31 300M  dscp= 32~63 700M,result3(congestion)   1. STA1 and STA3 each generates tagged-ip-stream to STA2   dscp= 0~31 800M  dscp= 32~63 10M,result4(congestion) | | |
| Expect result | 1. stream of dscp=1 is 500M ,stream of dscp 3 is 500 M 2. stream of dscp=1 is 40M ,stream of dscp 3 is 960 M 3. stream of dscp=1 is 250M ,stream of dscp 3 is 750M 4. stream of dscp=1 is 980M,stream of dscp 3 is 20M | | |
| Test result |  | | |
| Comment: |  | | |

#### Case ID QOSFORVOIP\_Function\_wrr\_9

|  |  |  |  |
| --- | --- | --- | --- |
| Case ID | QOSFORVOIP\_Function\_wrr\_9 | | |
| Priority | Middle | Automation Flag | yes |
| Topology to use | Topo3 | | |
| Description | queue is 2 and 3. Test WRR scheduler. | | |
| Platform Dependence | SR2024,SR2024P,SR2048,SR2048P | | |
| Pre-condition |  | | |
| Test procedure | 1. Configure Classification on port which connect to STA1, configure the flow-out port marker   “qos enable”  “interface <name> qos-classifier aa”  “qos classifier-profile aa diffserv  dscp: 0-31 32-63 ah-class: 23  qos marker-map diffserv <ah-class><dscp>  ah\_class: 7 6 5 4 3 2 1 0 dscp: 7 6 5 4 3 2 1 0  STA1generatesstream dscp(0-63) to STA2 ,(no congestion)  STA1 and STA3 each generates tagged-ip-stream to STA2  dscp= 0~31 250M  dscp= 32~63 250M  , result1.   1. STA1 and STA3 each generates tagged-ip-stream to STA2   dscp= 0~31 20M  dscp= 32~63 850M,result2(congestion)   1. STA1 and STA3 each generates tagged-ip-stream to STA2   dscp= 0~31 300M  dscp= 32~63 700M,result3(congestion)   1. STA1 and STA3 each generates tagged-ip-stream to STA2   dscp= 0~31 800M  dscp= 32~63 10M,result4(congestion) | | |
| Expect result | 1. stream of dscp=2 is 500M ,stream of dscp 3 is 500 M 2. stream of dscp=2 is 40M ,stream of dscp 3 is 960 M 3. stream of dscp=2 is 400M ,stream of dscp 3 is 600M 4. stream of dscp=2 is 980M,stream of dscp 3 is 20M | | |
| Test result |  | | |
| Comment: |  | | |

#### Case ID QOSFORVOIP\_Function\_wrr\_10

|  |  |  |  |
| --- | --- | --- | --- |
| Case ID | QOSFORVOIP\_Function\_wrr\_10 | | |
| Priority | Middle | Automation Flag | yes |
| Topology to use | Topo3 | | |
| Description | queue is 1 and 2. Test WRR scheduler. | | |
| Platform Dependence | SR2024,SR2024P,SR2048,SR2048P | | |
| Pre-condition |  | | |
| Test procedure | 1. Configure Classification on port which connect to STA1, configure the flow-out port marker   “qos enable”  “interface <name> qos-classifier aa”  “qos classifier-profile aa diffserv  dscp: 0-31 32-63 ah-class: 12  qos marker-map diffserv <ah-class><dscp>  ah\_class: 7 6 5 4 3 2 1 0 dscp: 7 6 5 4 3 2 1 0  STA1generatesstream dscp(0-63) to STA2 ,(no congestion)  STA1 and STA3 each generates tagged-ip-stream to STA2  dscp= 0~31 250M  dscp= 32~63 250M  , result1.   1. STA1 and STA3 each generates tagged-ip-stream to STA2   dscp= 0~31 20M  dscp= 32~63 850M,result2(congestion)   1. STA1 and STA3 each generates tagged-ip-stream to STA2   dscp= 0~31 300M  dscp= 32~63 700M,result3(congestion)   1. STA1 and STA3 each generates tagged-ip-stream to STA2   dscp= 0~31 800M  dscp= 32~63 10M,result4(congestion) | | |
| Expect result | 1. stream of dscp=1 is 500M ,stream of dscp 2 is 500 M 2. stream of dscp=1 is 40M ,stream of dscp 2 is 960 M 3. stream of dscp=1 is 333.3M ,stream of dscp 2 is 666.7M 4. stream of dscp=1 is 980M,stream of dscp 2 is 20M | | |
| Test result |  | | |
| Comment: |  | | |

#### Case ID QOSFORVOIP\_Function\_wrr\_11

|  |  |  |  |
| --- | --- | --- | --- |
| Case ID | QOSFORVOIP\_Function\_wrr\_11 | | |
| Priority | high | Automation Flag | yes |
| Topology to use | Topo3 | | |
| Description | Test queue is 0alone | | |
| Platform Dependence | SR2024,SR2024P,SR2048,SR2048P | | |
| Pre-condition |  | | |
| Test procedure | 1. Configure Classification on port which connect to STA1, configure the flow-out port marker   “qos enable”  “interface <name> qos-classifier aa”  “qos classifier-profile aa diffserv  dscp: 0-63 ah-class: 0  qos marker-map diffserv <ah-class><dscp>  ah\_class: 7 6 5 4 3 2 1 0 dscp: 7 6 5 4 3 2 1 0  STA1generatesstream dscp(0-63) to STA2 ,(no congestion)  STA1 and STA3 each generates tagged-ip-stream to STA2  dscp= 0~63450M  , result1.   1. STA1 and STA3 each generates tagged-ip-stream to STA2   dscp= 0~63800M,result2(congestion) | | |
| Expect result | 1. stream of dscp=0 is 900M 2. stream of dscp=0 is 1G | | |
| Test result |  | | |
| Comment: |  | | |

#### Case ID QOSFORVOIP\_Function\_wrr\_12

|  |  |  |  |
| --- | --- | --- | --- |
| Case ID | QOSFORVOIP\_Function\_wrr\_12 | | |
| Priority | high | Automation Flag | yes |
| Topology to use | Topo3 | | |
| Description | Test queue is 4 3 2 1 | | |
| Platform Dependence | SR2024,SR2024P,SR2048,SR2048P | | |
| Pre-condition |  | | |
| Test procedure | 1. Configure Classification on port which connect to STA1, configure the flow-out port marker   “qos enable”  “interface <name> qos-classifier aa”  “qos classifier-profile aa diffserv  qos marker-map diffserv <ah-class><dscp>  ah\_class: 7 6 5 4 3 2 1 0 dscp: 7 6 5 4 3 2 1 0  Generate Stream 4 3 2 1 Queue ,when 4321 was no congestion  Configure qos classifier-profile aa diffserv  DSCP : 0-13 14-27 28-41 42-55  ah-class: 4 3 2 1  STA1generates 1Gtagged-ip-stream (dscp=0-63) to STA2,  tagged-ip-stream:  dscp= 0~13 dot1p=1 125M  dscp= 14~27 dot1p=2 125M  dscp= 28~41 dot1p=0 125M  dscp= 42~55 dot1p=3 125M  configure the flow-out port qos-shape=700Mresult1.   1. Generate Stream 4321Queue ,when 4321 was congestion   STA1and STA3 each generatestagged-ip-stream (dscp=0-63) to STA2,  tagged-ip-stream:  dscp= 0~13 dot1p=1 125M  dscp= 14~27 dot1p=2 125M  dscp= 28~41 dot1p=0 125M  dscp= 42~55 dot1p=3 125M,configure the flow-out port qos-shape=500M,result2 | | |
| Expect result | 1. stream of dscp=4 is125M,stream of dscp=3 is 125M,stream of dscp=2 is 125M,stream of dscp=1 is 125M 2. stream of dscp 4 receive 200M, stream of dscp 3 receive 150M, stream of dscp 2 receive 100M, stream of dscp 1 receive 50M | | |
| Test result |  | | |
| Comment: |  | | |

#### 6.2.3.3. scheduler of SP+WRR

#### Case ID QOSFORVOIP\_Function\_spwrr\_1

|  |  |  |  |
| --- | --- | --- | --- |
| Case ID | QOSFORVOIP\_Function\_spwrr\_1 | | |
| Priority | high | Automation Flag | yes |
| Topology to use | Topo3 | | |
| Description | Test queue is 4 3 2 1 and 0. | | |
| Platform Dependence | SR2024,SR2024P,SR2048,SR2048P | | |
| Pre-condition |  | | |
| Test procedure | 1. Configure Classification on port which connect to STA1, configure the flow-out port marker   “qos enable”  “interface <name> qos-classifier aa”  “qos classifier-profile aa diffserv  qos marker-map diffserv <ah-class><dscp>  ah\_class: 7 6 5 4 3 2 1 0 dscp: 7 6 5 4 3 2 1 0   1. Generate Stream 4 3 2 1 0 Queue ,when 4321 was congestion   Configure qos classifier-profile aa diffserv  DSCP : 0-13 14-27 28-41 42-55 56-63  ah-class: 4 3 2 1 0  STA1generates 1Gtagged-ip-stream (dscp=0-63) to STA2,  tagged-ip-stream:  dscp= 0~13 dot1p=1 125M  dscp= 14~27 dot1p=2 125M  dscp= 28~41 dot1p=0 125M  dscp= 42~55 dot1p=3 125M  dscp= 56~63 dot1p=4 125M,configure the flow-out port qos-shape=400M result1.   1. Generate Stream 43210Queue ,when 4321 was no congestion   STA1and STA3 each generates 1Gtagged-ip-stream (dscp=0-63) to STA2,  tagged-ip-stream:  dscp= 0~13 dot1p=1 125M  dscp= 14~27 dot1p=2 125M  dscp= 28~41 dot1p=0 125M  dscp= 42~55 dot1p=3 125M  dscp= 56~63 dot1p=4 125M,configure the flow-out port qos-shape=700M, result2 | | |
| Expect result | 1. stream of dscp 4 receive 160M, stream of dscp 3 receive 120M, stream of dscp 2 receive 60M, stream of dscp 1 receive 40M 2. stream :   dscp= 0~13 dot1p=1 125M  dscp= 14~27 dot1p=2 125M  dscp= 28~41 dot1p=0 125M  dscp= 42~55 dot1p=3 125M  dscp= 56~63 dot1p=4 100M | | |
| Test result |  | | |
| Comment: |  | | |

#### Case ID QOSFORVOIP\_Function\_spwrr\_2

|  |  |  |  |
| --- | --- | --- | --- |
| Case ID | QOSFORVOIP\_Function\_spwrr\_2 | | |
| Priority | high | Automation Flag | yes |
| Topology to use | Topo3 | | |
| Description | Test SP (6) and WRR( 4 3 2 1 ) scheduler. | | |
| Platform Dependence | SR2024,SR2024P,SR2048,SR2048P | | |
| Pre-condition |  | | |
| Test procedure | 1. Configure Classification on port which connect to STA1, configure the flow-out port marker   “qos enable”  “interface <name> qos-classifier aa”  “qos classifier-profile aa diffserv  interface <name> qos-marker aa  qos marker-profile aa dot1p  qos marker-map diffserv <ah-class><dot1p”  ah\_class: 7 6 5 4 3 2 1 0  dot1p: 6 5 4 3 2 1 0 7   1. Configure qos classifier-profile aa diffserv   DOT1P: 7 6、5 4、3、2 1 0  ah-class: 6 4 3 2 1  STA1and STA3 each generates 1Gtagged-ip-stream (dscp=0-63) to STA2,  tagged-ip-stream:  dscp=1 dot1p=7 60M  dscp= 1 dot1p=6 100M  dscp= 1 dot1p=5 120M  dscp= 1 dot1p=4 150M  dscp= 1 dot1p=3 170M  dscp= 1 dot1p=2 20M  dscp= 1 dot1p=1 260M  dscp= 1 dot1p=0 120M,result1 | | |
| Expect result | 1. dot1p=5 receive 120M dot1p=3 receive352M dot1p=2 receive 264M dot1p=1 receive 176M dot1p=0 receive 88M | | |
| Test result |  | | |
| Comment: |  | | |

#### Case ID QOSFORVOIP\_Function\_spwrr\_3

|  |  |  |  |
| --- | --- | --- | --- |
| Case ID | QOSFORVOIP\_Function\_spwrr\_3 | | |
| Priority | middle | Automation Flag | yes |
| Topology to use | Topo3 | | |
| Description | Test SP (6) and WRR( 4 3 2 1 0 ) scheduler. | | |
| Platform Dependence | SR2024,SR2024P,SR2048,SR2048P | | |
| Pre-condition |  | | |
| Test procedure | 1. Configure Classification on port which connect to STA1, configure the flow-out port marker   “qos enable”  “interface <name> qos-classifier aa”  “qos classifier-profile aa diffserv  interface <name> qos-marker aa  qos marker-profile aa dot1p  qos marker-map diffserv <ah-class><dot1p”  ah\_class: 7 6 5 4 3 2 1 0  dot1p: 6 5 4 3 2 1 0 7   1. Congestion and 0 queue cannot pass.   Configure qos classifier-profile aa diffserv  DOT1P: 7 6、5 43、2 1 0  ah-class: 6 4 3 2 1 0  STA1and STA3 each generates 1Gtagged-ip-stream (dscp=0-63) to STA2,  tagged-ip-stream:  dscp=1 dot1p=7 60M  dscp= 1 dot1p=6 100M  dscp= 1 dot1p=5 120M  dscp= 1 dot1p=4 150M  dscp= 1 dot1p=3 170M  dscp= 1 dot1p=2 20M  dscp= 1 dot1p=1 260M  dscp= 1 dot1p=0 120M,result1   1. Congestion and 0 queue can pass   Configure qos classifier-profile aa diffserv  DOT1P: 7 6、5 4 3、2 1 0  ah-class: 6 4 3 2 1 0  STA1and STA3 each generates 1Gtagged-ip-stream (dscp=0-63) to STA2,  tagged-ip-stream:  dscp=1 dot1p=7 60M  dscp= 1 dot1p=6 70M  dscp= 1 dot1p=5 80M  dscp= 1 dot1p=490M  dscp= 1 dot1p=3 100M  dscp= 1 dot1p=2110M  dscp= 1 dot1p=1120M  dscp= 1 dot1p=0 120M,result2 | | |
| Expect result | 1. stream of dot1p 5 receive 120M dot1p 4 receive 352M Dot1p3 receive 264M Dotp1p2 receive 176M dot1p 1 receive 88M 2. stream of dot1p 5 receive 120M dot1p 3 receive 150M dot1p 2 receive 180M dot1p 1 receive 266M dot1p 0 receive 183M dot1p 7 receive 101M | | |
| Test result |  | | |
| Comment: |  | | |

#### Case ID QOSFORVOIP\_Function\_spwrr\_4

|  |  |  |  |
| --- | --- | --- | --- |
| Case ID | QOSFORVOIP\_Function\_spwrr\_4 | | |
| Priority | high | Automation Flag | yes |
| Topology to use | Topo3 | | |
| Description | Test SP (7 6 5) and WRR( 4 3 2 1 ) scheduler. | | |
| Platform Dependence | SR2024,SR2024P,SR2048,SR2048P | | |
| Pre-condition |  | | |
| Test procedure | 1. Configure Classification on port which connect to STA1, configure the flow-out port marker   “qos enable”  “interface <name> qos-classifier aa”  “qos classifier-profile aa diffserv  interface <name> qos-marker aa  qos marker-profile aa dot1p  qos marker-map diffserv <ah-class><dot1p”  ah\_class: 7 6 5 4 3 2 1 0  dot1p: 6 5 4 3 2 1 0 7   1. Configure qos classifier-profile aa diffserv   DOT1P: 7 6 5 4 3 2 0 1  ah-class:76 5 4 3 2 1  STA1and STA3 each generates 1Gtagged-ip-stream (dscp=0-63) to STA2,  tagged-ip-stream:  dscp=1 dot1p=7 60M  dscp= 1 dot1p=6 100M  dscp= 1 dot1p=5 120M  dscp= 1 dot1p=4 150M  dscp= 1 dot1p=3 170M  dscp= 1 dot1p=2 20M  dscp= 1 dot1p=1 260M  dscp= 1 dot1p=0 120M,result1 | | |
| Expect result | 1. dot1p=6 receive 120M dot1p=5 receive200M dot1p=4 receive 240M dot1p=3 receive 176M dot1p=2 receive 132M dot1p=1 receive 88M dot1p=2 receive 44M | | |
| Test result |  | | |
| Comment: |  | | |

#### Case ID QOSFORVOIP\_Function\_spwrr\_5

|  |  |  |  |
| --- | --- | --- | --- |
| Case ID | QOSFORVOIP\_Function\_spwrr\_5 | | |
| Priority | middle | Automation Flag | yes |
| Topology to use | Topo3 | | |
| Description | Test SP (7 6 5) and WRR( 4 3 2 1 0 ) scheduler. | | |
| Platform Dependence | SR2024,SR2024P,SR2048,SR2048P | | |
| Pre-condition |  | | |
| Test procedure | 1. Configure Classification on port which connect to STA1, configure the flow-out port marker   “qos enable”  “interface <name> qos-classifier aa”  “qos classifier-profile aa diffserv  interface <name> qos-marker aa  qos marker-profile aa dot1p  qos marker-map diffserv <ah-class><dot1p>”  ah\_class: 7 6 5 4 3 2 1 0  dot1p: 6 5 4 3 2 1 0 7   1. Congestion and 0 queue cannot pass   Configure qos classifier-profile aa diffserv  DOT1P: 7 6 5 4 3 2 1 0  ah-class:76 5 4 3 2 1 0  STA1and STA3 each generates 1Gtagged-ip-stream (dscp=0-63) to STA2,  tagged-ip-stream:  dscp=1 dot1p=7 60M  dscp= 1 dot1p=6 100M  dscp= 1 dot1p=5 120M  dscp= 1 dot1p=4 150M  dscp= 1 dot1p=3 170M  dscp= 1 dot1p=2 20M  dscp= 1 dot1p=1 260M  dscp= 1 dot1p=0 120M,result1   1. Congestion and 0 queue cannot pass | | |
| Expect result | 1. stream of dot1p 6 receive 120M dot1p 5 receive 200M Dot1p 4 receive 240M Dotp1p 3 receive 172.5M Dot1p 2 receive 129.4M Dot1p 1 receive 86.2M 2. stream of dot1p 6 receive 120M dot1p 5 receive 200M Dot1p 4 receive 240M Dotp1p 3 receive 172.5M Dot1p 2 receive 129.4M Dot1p 1 receive 86.2M Dot1p 7 receive 8.8M Dot1p 0 re | | |
| Test result |  | | |
| Comment: |  | | |

#### Case ID QOSFORVOIP\_Function\_spwrr\_6

|  |  |  |  |
| --- | --- | --- | --- |
| Case ID | QOSFORVOIP\_Function\_spwrr\_6 | | |
| Priority | high | Automation Flag | yes |
| Topology to use | Topo3 | | |
| Description | Test SP (6 5) and WRR( 4 3 2 1 0 ) scheduler. When 6 5 queues were congested , 43210 queues were congestion | | |
| Platform Dependence | SR2024,SR2024P,SR2048,SR2048P | | |
| Pre-condition |  | | |
| Test procedure | 1. Configure Classification on port which connect to STA1, configure the flow-out port marker   “qos enable”  “interface <name> qos-classifier aa”  “qos classifier-profile aa diffserv  interface <name> qos-marker aa  qos marker-profile aa dot1p  qos marker-map diffserv <ah-class><dot1p”  ah\_class: 7 6 5 4 3 2 1 0  dot1p: 6 5 4 3 2 1 0 7   1. Configure qos classifier-profile aa diffserv   DOT1P: 7 6 5 4 3、2 1 0  ah-class: 6 5 4 3 2 1 0  STA1and STA3 each generates 1Gtagged-ip-stream (dscp=0-63) to STA2,  tagged-ip-stream:  dscp=1 dot1p=7 360M  dscp= 1 dot1p=6 300M  dscp= 1 dot1p=5 20M  dscp= 1 dot1p=4 50M  dscp= 1 dot1p=3 70M  dscp= 1 dot1p=2 20M  dscp= 1 dot1p=1 60M  dscp= 1 dot1p=0 120M,result1 | | |
| Expect result | 1. stream of dot1p 5 receive 500M stream of dot1p 4 receive 500M | | |
| Test result |  | | |
| Comment: |  | | |

#### Case ID QOSFORVOIP\_Function\_spwrr\_7

|  |  |  |  |
| --- | --- | --- | --- |
| Case ID | QOSFORVOIP\_Function\_spwrr\_7 | | |
| Priority | middle | Automation Flag | yes |
| Topology to use | Topo3 | | |
| Description | Test SP (7 6 5) and WRR( 4 3 2 1 0 ) scheduler when the flow-out port config shape | | |
| Platform Dependence | SR2024,SR2024P,SR2048,SR2048P | | |
| Pre-condition |  | | |

|  |  |
| --- | --- |
| Test procedure | 1. Configure Classification on port which connect to STA1, configure the flow-out port marker   “qos enable”  “interface <name> qos-classifier aa”  “qos classifier-profile aa diffserv  interface <name> qos-marker aa  qos marker-profile aa dot1p  qos marker-map diffserv <ah-class><dot1p>”  ah\_class: 7 6 5 4 3 2 1 0  dot1p: 6 5 4 3 2 1 0 7   1. Congestion and 0 queue cannot pass   Configure qos classifier-profile aa diffserv  DOT1P: 7 6 5 4 3 2 1 0  ah-class: 7 6 5 4 3 2 1 0  STA1and STA3 each generates 1Gtagged-ip-stream (dscp=0-63) to STA2,  tagged-ip-stream:  dscp=1 dot1p=7 60M  dscp= 1 dot1p=6 100M  dscp= 1 dot1p=5 120M  dscp= 1 dot1p=4 150M  dscp= 1 dot1p=3 170M  dscp= 1 dot1p=2 20M  dscp= 1 dot1p=1 260M  dscp= 1 dot1p=0 120M,config” interface g1/3 qos-shaper 1000000”result1   1. config” interface g1/3 qos-shaper 110000”result2 2. config” interface g1/3 qos-shaper 400000”result3 3. config” interface g1/3 qos-shaper 700000”result4 4. config” interface g1/3 qos-shaper 1”result5 |
| Expect result | 1. stream of dot1p 6 receive 120M dot1p 5 receive 200M Dot1p 4 receive 240M Dotp1p 3 receive 172.5M Dot1p 2 receive 129.4M Dot1p 1 receive 86.2M dot1p=0 receive 2. stream of dot1p 6 receive 120M dot1p 5 receive 200M Dot1p 4 receive 240M 3. stream of dot1p 6 receive 120M dot1p 5 receive 200M Dot1p 4 receive 80M 4. Cannot receive flow |
| Test result |  |
| Comment: |  |

### 6.2.4. qos on wan

#### Case ID QOSFORVOIP\_Function\_wan\_1

|  |  |  |  |
| --- | --- | --- | --- |
| Case ID | QOSFORVOIP\_Function\_wan\_1 | | |
| Priority | high | Automation Flag | yes |
| Topology to use | Topo3 | | |
| Description | Test wan port classification base on dscp through one by one | | |
| Platform Dependence | SR2024,SR2024P,SR2048,SR2048P | | |
| Pre-condition |  | | |
| Test procedure | 1. Configure Classification on port which connect to STA1, configure the flow-out port marker   “qos enable”  “interface <name> qos-classifier aa”  “qos classifier-profile aadiffserv  qos classifier-map diffserv (0-63) (0-7) (first use dscp=0 ,test class0-7.then use dscp=1 test class 0-7 ……)  interface <name> qos-marker aa  qos marker-profile aa diffserv  ”  STA1 generates DSCP(0-63)(generate 0/1/2/3…63 one by one) traffic to STA2 , capture packets,result1. | | |
| Expect result | 1. stream of dscp=56 48 46 36 28 20 12 0 accordingly | | |
| Test result |  | | |
| Comment: |  | | |

#### Case ID QOSFORVOIP\_Function\_wan\_2

|  |  |  |  |
| --- | --- | --- | --- |
| Case ID | QOSFORVOIP\_Function\_wan\_2 | | |
| Priority | high | Automation Flag | yes |
| Topology to use | Topo3 | | |
| Description | Test wan port for classification base on interface one by one | | |
| Platform Dependence | SR2024,SR2024P,SR2048,SR2048P | | |
| Pre-condition |  | | |
| Test procedure | 1. Configure Classification on port which connect to STA1, configure the flow-out port marker   “qos enable”  “qos classifier-map interface <name>0-7  interface <name> qos-marker aa  qos marker-profile aa diffserv  ”  STA1 generates DSCP(0-63) traffic to STA2 , capture packets,result1. | | |
| Expect result | 1. stream of dscp=56 48 46 36 28 20 12 0 accordingly | | |
| Test result |  | | |
| Comment: |  | | |

#### Case ID QOSFORVOIP\_Function\_wan\_3

|  |  |  |  |
| --- | --- | --- | --- |
| Case ID | QOSFORVOIP\_Function\_wan\_3 | | |
| Priority | high | Automation Flag | yes |
| Topology to use | Topo3 | | |
| Description | Test wan port forClassification base on dscp and interface. | | |
| Platform Dependence | SR2024,SR2024P,SR2048,SR2048P | | |
| Pre-condition |  | | |
| Test procedure |  | | |
| Expect result | 1. Configure Classification on port which connect to STA1, configure the flow-out port marker   “qos enable”  “interface <name> qos-classifier aa”  “qos classifier-profile aadiffserv  qos classifier-map diffserv (0-63) (0-7) (first use dscp=0 ,test class0-7.then use dscp=1 test class 0-7 ……)  interface <name> qos-marker aa  qos marker-profile aa diffserv  qos marker-map diffserv <ah-class><dscp>  ah\_class: 7 6 5 4 3 2 1 0  dscp: 56 48 46 36 28 20 12 0”  STA1 generates untagged-ip streamDSCP(0-63)to STA2 , capture packets,result1. | | |
| Test result | 1. stream of dscp= 56 48 46 36 28 20 12 0 accordingly | | |
| Comment: |  | | |

#### Case ID QOSFORVOIP\_Function\_wan\_4

|  |  |  |  |
| --- | --- | --- | --- |
| Case ID | QOSFORVOIP\_Function\_wan\_4 | | |
| Priority | high | Automation Flag | yes |
| Topology to use | Topo3 | | |
| Description | Test marking dscp | | |
| Platform Dependence | SR2024,SR2024P,SR2048,SR2048P | | |
| Pre-condition |  | | |
| Test procedure | 1. Configure Classification on port which connect to STA1, configure the flow-out port marker   “qos enable”  “qos classifier-map diffserv <dscp><ah-class>  dscp: 63-56 55-48 47-40 39-32 31-24 23-16 15-8 7-0  ah-class: 7 6 5 4 3 2 1 0  interface <name> qos-marker aa  qos marker-profile aa diffserv  qos marker-map diffserv0-7 (0-63)” (first use class=0 ,test dscp0-63.then use class=1 test dscp0-63 ……)  STA1generates stream dscp(0-63) (generate 0/1/2/3…63 one by one) to STA2 ,capture packets,result1. | | |
| Expect result | 1. stream of dscp=0-63 accordingly as configure “qos marker-map diffserv0-7 (0-63)” | | |
| Test result |  | | |
| Comment: |  | | |

### Case ID QOSFORVOIP\_Function\_wan\_5

|  |  |  |  |
| --- | --- | --- | --- |
| Case ID | QOSFORVOIP\_Function\_wan\_5 | | |
| Priority | high | Automation Flag | yes |
| Topology to use | Topo2 | | |
| Description | Test wan port(changed from lan when traffic is going )for L3 forwording | | |
| Platform Dependence | SR2024,SR2024P,SR2048,SR2048P | | |
| Pre-condition |  | | |
| Test procedure | 1. Configure Classification on lan-port which connect to STA1 and use default classification mapping table, configure the flow-out port marker   “qos enable”  “interface <name> qos-classifier aa”  “qos classifier-profile aa diffserv  interface <name> qos-marker aa  qos marker-profile aa diffserv  dscp: 63-56 55-48 47-40 39-32 31-24 23-16 15-8 7-0 ah-class: 7 6 5 4 3 1 0 2  qos marker-map diffserv <ah-class><dscp>  ah\_class: 7 6 5 4 3 2 1 0  dscp: 56 48 46 36 28 20 12 0  STA1and STA3 each generates ip-stream (dscp=0-63) to STA2,  tagged-ip-stream:  dscp=63~56 60M  dscp=55~48100M  dscp= 47~40 120M  dscp=39~32 150M  dscp= 31~24 170M  dscp= 7~0 20M  dscp= 23~16 260M  dscp= 15~8120M,result1   1. Change from lan to wan-mode on the ports while traffic is on-goning,then the flow is on L3 forwanding,result2 2. STA1 generates ip-stream (dscp=0-63) to STA2,   tagged-ip-stream:  dscp=63~5612M  dscp=55~4812M  dscp= 47~4012M  dscp=39~3212M  dscp= 31~24 12M  dscp= 7~0 12M  dscp= 23~16 12M  dscp= 15~8 12M,result3 | | |
| Expect result | 1. stream of dscp=56 receive 120M, dscp=48 receive 200M,dscp=46 receive 240M ,dscp=36 receive 172.5M,dscp=28 receive 129.4M ,dscp=12 receive 86.2M dscp=0 receive 43.1M ,dscp=20 receive 8.8M 2. stream of dscp=56 receive 50M 3. stream of dscp=56 receive 12M, dscp=48 receive 12M,dscp=46 receive 12M ,dscp=36 receive 5.48M, dscp=28 receive 4.11M ,dscp=12 receive 2.74M dscp=0 receive 1.37M ,dscp=20 receive 0.3M | | |
| Test result |  | | |

### Case ID QOSFORVOIP\_Function\_wan\_6

|  |  |  |  |
| --- | --- | --- | --- |
| Case ID | QOSFORVOIP\_Function\_wan\_6 | | |
| Priority | high | Automation Flag | yes |
| Topology to use | Topo2 | | |
| Description | Test wan port [shaping](http://dict-client.iciba.com/2012-08-01/index.php?c=client&word=%E6%95%B4%E5%BD%A2&dictlist=1,101,202,5,103,4,201,6,104,7,105,8,9,3,2,102,203,&zyid=0&nav_status=1&type=0&authkey=ffec31b4a311b656ca45ed9c6e069e80&uuid=9649E802F6C2488DAEC835A617E7B82C&v=2012.09.25.018&tip_show=2,1,3,4,5,6,&fontsize=0&channel=1.00###) for unicast | | |
| Platform Dependence | SR2024,SR2024P,SR2048,SR2048P | | |
| Pre-condition |  | | |
| Test procedure | 1. Configure Classification on wan-port which connect to STA1 and use default classification mapping table, configure the flow-out port marker   “qos enable”  “interface <name> qos-classifier aa”  “qos classifier-profile aa diffserv  interface <name> qos-marker aa  qos marker-profile aa diffserv  dscp: 63-56 55-48 47-40 39-32 31-24 23-16 15-8 7-0 ah-class: 7 6 5 4 3 1 0 2  qos marker-map diffserv <ah-class><dscp>  ah\_class: 7 6 5 4 3 2 1 0  dscp: 56 48 46 36 28 20 12 0  STA1generates tagged-ip-stream (dscp=0-63) to STA2,  ip-stream:  dscp=63~56 12M  dscp=55~48 12M  dscp= 47~40 12M  dscp=39~32 12M  dscp= 31~24 12M  dscp= 7~0 12M  dscp= 23~16 12M  dscp= 15~8 12M,result1   1. Configure “interface <gigabitethernetx/y|sfpx/y > qos-shaper30 000”   STA1generates tagged-ip-stream (dscp=0-63) to STA2,  ip-stream:  dscp= 47~40 10M  dscp=39~32 12M  dscp= 31~24 12M  dscp= 7~0 12M  dscp= 23~16 12M,result2   1. Configure “interface <gigabitethernetx/y|sfpx/y > qos-shaper0”   STA1generates tagged-ip-stream (dscp=0-63) to STA2,  ip-stream:  dscp= 47~40 10M  dscp=39~32 12M  dscp= 31~24 12M  dscp= 7~0 12M  dscp= 23~16 12M,result3   1. Congiure “interface <gigabitethernetx/y|sfpx/y > qos-shaper1000000000”   STA1generates tagged-ip-stream (dscp=0-63) to STA2,  ip-stream:  dscp=63~56 12M  dscp=55~48 12M  dscp= 47~40 12M  dscp=39~32 12M  dscp= 31~24 12M  dscp= 7~0 12M  dscp= 23~16 12M  dscp= 15~8 12M,result1 | | |
| Expect result | 1. stream of dscp=56 receive 12M, dscp=48 receive 12M,dscp=46 receive 12M ,dscp=36 receive 5.48M, dscp=28 receive 4.11M ,dscp=12 receive 2.74M dscp=0 receive 1.37M ,dscp=20 receive 0.3M 2. dscp=46 receive 10M ,dscp=36 receive 8M, dscp=28 receive 6M ,dscp=12 receive 4M dscp=0 receive 2M 3. has no stream | | |
| Test result |  | | |

### Case ID QOSFORVOIP\_Function\_wan\_7

|  |  |  |  |
| --- | --- | --- | --- |
| Case ID | QOSFORVOIP\_Function\_wan\_7 | | |
| Priority | high | Automation Flag | yes |
| Topology to use | Topo2 | | |
| Description | Test wan port [shaping](http://dict-client.iciba.com/2012-08-01/index.php?c=client&word=%E6%95%B4%E5%BD%A2&dictlist=1,101,202,5,103,4,201,6,104,7,105,8,9,3,2,102,203,&zyid=0&nav_status=1&type=0&authkey=ffec31b4a311b656ca45ed9c6e069e80&uuid=9649E802F6C2488DAEC835A617E7B82C&v=2012.09.25.018&tip_show=2,1,3,4,5,6,&fontsize=0&channel=1.00###) for Multicast | | |
| Platform Dependence | SR2024,SR2024P,SR2048,SR2048P | | |
| Pre-condition |  | | |
| Test procedure | 1. Configure Classification on wan-port which connect to STA1 and use default classification mapping table, configure the flow-out port marker   “qos enable”  “interface <name> qos-classifier aa”  “qos classifier-profile aa diffserv  interface <name> qos-marker aa  qos marker-profile aa diffserv  dscp: 63-56 55-48 47-40 39-32 31-24 23-16 15-8 7-0 ah-class: 7 6 5 4 3 1 0 2  qos marker-map diffserv <ah-class><dscp>  ah\_class: 7 6 5 4 3 2 1 0  dscp: 56 48 46 36 28 20 12 0  STA1generates tagged-ip-stream (dscp=0-63) to STA2,  ip-stream:  dscp=63~56 12M  dscp=55~48 12M  dscp= 47~40 12M  dscp=39~32 12M  dscp= 31~24 12M  dscp= 7~0 12M  dscp= 23~16 12M  dscp= 15~8 12M,result1   1. Configure “interface <gigabitethernetx/y|sfpx/y > qos-shaper30 000”   STA1generates tagged-ip-stream (dscp=0-63) to STA2,  ip-stream:  dscp= 47~40 10M  dscp=39~32 12M  dscp= 31~24 12M  dscp= 7~0 12M  dscp= 23~16 12M,result1   1. Configure “interface <gigabitethernetx/y|sfpx/y > qos-shaper0”   STA1generates tagged-ip-stream (dscp=0-63) to STA2,  ip-stream:  dscp= 47~40 10M  dscp=39~32 12M  dscp= 31~24 12M  dscp= 7~0 12M  dscp= 23~16 12M,result3   1. Congiure “interface <gigabitethernetx/y|sfpx/y > qos-shaper1000000000”   STA1generates tagged-ip-stream (dscp=0-63) to STA2,  ip-stream:  dscp=63~56 12M  dscp=55~48 12M  dscp= 47~40 12M  dscp=39~32 12M  dscp= 31~24 12M  dscp= 7~0 12M  dscp= 23~16 12M  dscp= 15~8 12M,result1 | | |
| Expect result | 1. stream of dscp=56 receive 12M, dscp=48 receive 12M,dscp=46 receive 12M ,dscp=36 receive 5.48M, dscp=28 receive 4.11M ,dscp=12 receive 2.74M dscp=0 receive 1.37M ,dscp=20 receive 0.3M 2. dscp=46 receive 10M ,dscp=36 receive 8M, dscp=28 receive 6M ,dscp=12 receive 4M dscp=0 receive 2M 3. has no stream | | |
| Test result |  | | |

### Case ID QOSFORVOIP\_Function\_wan\_8

|  |  |  |  |
| --- | --- | --- | --- |
| Case ID | QOSFORVOIP\_Function\_wan\_8 | | |
| Priority | high | Automation Flag | yes |
| Topology to use | Topo2 | | |
| Description | Test wan port [shaping](http://dict-client.iciba.com/2012-08-01/index.php?c=client&word=%E6%95%B4%E5%BD%A2&dictlist=1,101,202,5,103,4,201,6,104,7,105,8,9,3,2,102,203,&zyid=0&nav_status=1&type=0&authkey=ffec31b4a311b656ca45ed9c6e069e80&uuid=9649E802F6C2488DAEC835A617E7B82C&v=2012.09.25.018&tip_show=2,1,3,4,5,6,&fontsize=0&channel=1.00###) for Multicast and unicast | | |
| Platform Dependence | SR2024,SR2024P,SR2048,SR2048P | | |
| Pre-condition |  | | |
| Test procedure | 1. Configure Classification on wan-port which connect to STA1 and use default classification mapping table, configure the flow-out port marker   “qos enable”  “interface <name> qos-classifier aa”  “qos classifier-profile aa diffserv  interface <name> qos-marker aa  qos marker-profile aa diffserv  dscp: 63-56 55-48 47-40 39-32 31-24 23-16 15-8 7-0 ah-class: 7 6 5 4 3 1 0 2  qos marker-map diffserv <ah-class><dscp>  ah\_class: 7 6 5 4 3 2 1 0  dscp: 56 48 46 36 28 20 12 0  STA1generates unicastand STA3 generate multicast ip-stream (dscp=0-63) to STA2,  Each port generate ip-stream:  dscp=63~566M  dscp=55~48 6M  dscp= 47~406M  dscp=39~326M  dscp= 31~24 6M  dscp= 7~0 6M  dscp= 23~16 6M  dscp= 15~8 6M,result1   1. Configure “interface <gigabitethernetx/y|sfpx/y > qos-shaper30 000”   STA1generates unicast and STA3 generate multicast ip-stream (dscp=0-63) to STA2,  Each port generate ip-stream:,  ip-stream:  dscp= 47~405M  dscp=39~326M  dscp= 31~24 6M  dscp= 7~0 6M  dscp= 23~16 6M,result2   1. Configure “interface <gigabitethernetx/y|sfpx/y > qos-shaper0”   STA1generates unicast and STA3 generate multicast ip-stream (dscp=0-63) to STA2,  Each port generate ip-stream:  ip-stream:  dscp= 47~405M  dscp=39~32 6M  dscp= 31~24 6M  dscp= 7~0 6M  dscp= 23~16 6M,result3   1. Congiure “interface <gigabitethernetx/y|sfpx/y > qos-shaper1000000000”   STA1generates unicast and STA3 generate multicast ip-stream (dscp=0-63) to STA2,  Each port generate ip-stream:  dscp=63~56 6M  dscp=55~48 6M  dscp= 47~40 6M  dscp=39~32 6M  dscp= 31~24 6M  dscp= 7~0 6M  dscp= 23~16 6M  dscp= 15~8 6M,result1 | | |
| Expect result | 1. stream of dscp=56 receive 12M, dscp=48 receive 12M,dscp=46 receive 12M ,dscp=36 receive 5.48M, dscp=28 receive 4.11M ,dscp=12 receive 2.74M dscp=0 receive 1.37M ,dscp=20 receive 0.3M 2. dscp=46 receive 10M ,dscp=36 receive 8M, dscp=28 receive 6M ,dscp=12 receive 4M dscp=0 receive 2M 3. has no stream | | |
| Test result |  | | |

### Case ID QOSFORVOIP\_Function\_wan\_9

|  |  |  |  |
| --- | --- | --- | --- |
| Case ID | QOSFORVOIP\_Function\_wan\_9 | | |
| Priority | high | Automation Flag | yes |
| Topology to use | Topo2 | | |
| Description | Test schedule when Flow from wan to wan (L3 forwarding) | | |
| Platform Dependence | SR2024,SR2024P,SR2048,SR2048P | | |
| Pre-condition |  | | |
| Test procedure | 1. Configure Classification on wan-port which connect to STA1 and use default classification mapping table, configure the flow-out port marker   “qos enable”  “interface <name> qos-classifier aa”  “qos classifier-profile aa diffserv  interface <name> qos-marker aa  qos marker-profile aa diffserv  dscp: 63-56 55-48 47-40 39-32 31-24 23-16 15-8 7-0 ah-class: 7 6 5 4 3 1 0 2  qos marker-map diffserv <ah-class><dscp>  ah\_class: 7 6 5 4 3 2 1 0  dscp: 56 48 46 36 28 20 12 0  STA1generates unicast and STA3 generate multicast ip-stream (dscp=0-63) to STA2,  Each port generate ip-stream:  dscp=63~56 6M  dscp=55~48 6M  dscp= 47~40 6M  dscp=39~32 6M  dscp= 31~24 6M  dscp= 7~0 6M  dscp= 23~16 6M  dscp= 15~8 6M,result1 | | |
| Expect result | 1. stream of dscp=56 receive 12M, dscp=48 receive 12M,dscp=46 receive 12M ,dscp=36 receive 5.48M, dscp=28 receive 4.11M ,dscp=12 receive 2.74M dscp=0 receive 1.37M ,dscp=20 receive 0.3M | | |
| Test result |  | | |

### 6.2.5. other

#### Case ID QOSFORVOIP\_Function\_BroadcastMulticast\_1

|  |  |  |  |
| --- | --- | --- | --- |
| Case ID | QOSFORVOIP\_Function\_BroadcastMulticast\_1 | | |
| Priority | high | Automation Flag | yes |
| Topology to use | Topo3 | | |
| Description | Test clasificaion and marker when The flow will go Broadcast/Multicast. | | |
| Platform Dependence | SR2024,SR2024P,SR2048,SR2048P | | |
| Pre-condition |  | | |
| Test procedure | 1. Configure Classification on port which connect to STA1 and use default classification mapping table, configure the flow-out port marker   “qos enable”  “interface <name> qos-classifier aa”  “qos classifier-profile aa diffserv  interface <name> qos-marker aa  qos marker-profile aa diffserv  qos marker-map diffserv <ah-class><dscp>”   1. The flow will go Broadcast .STA1 and STA3 each generates tagged-ip-stream to STA2   dscp= 8~15 dot1p=0 125M  dscp= 16~23 dot1p=1 125M  dscp= 0~7 dot1p=2 125M  dscp= 24~31 dot1p=3 125M  dscp= 32~39 dot1p=4 125M  dscp= 40~47 dot1p=5 125M  dscp= 48~55 dot1p=6 125M  dscp= 56~63 dot1p=7 125M ,result1   1. The flow will go Multicast .STA1 and STA3 each generates tagged-ip-stream to STA2   dscp= 8~15 dot1p=0 125M  dscp= 16~23 dot1p=1 125M  dscp= 0~7 dot1p=2 125M  dscp= 24~31 dot1p=3 125M  dscp= 32~39 dot1p=4 125M  dscp= 40~47 dot1p=5 125M  dscp= 48~55 dot1p=6 125M  dscp= 56~63 dot1p=7 125M ,result2 | | |
| Expect result | 1. tagged-ip-stream:   dscp= 48 dot1p=0 250M  dscp= 40 dot1p=1 250M  dscp= 56 dot1p=2 250M  dscp= 32 dot1p=3 98M  dscp= 24 dot1p=4 73.5M  dscp= 0 dot1p=5 49M  dscp= 16 dot1p=6 24.5M  dscp= 8 dot1p=7 4.9M   1. tagged-ip-stream:   dscp= 48 dot1p=0 250M  dscp= 40 dot1p=1 250M  dscp= 56 dot1p=2 250M  dscp= 32 dot1p=3 98M  dscp= 24 dot1p=4 73.5M  dscp= 0 dot1p=5 49M  dscp= 16 dot1p=6 24.5M  dscp= 8 dot1p=7 4.9M | | |
| Test result |  | | |

#### Case ID QOSFORVOIP\_Function\_ENABLEandDISABLE\_2

|  |  |  |  |
| --- | --- | --- | --- |
| Case ID | QOSFORVOIP\_Function\_ENABLEandDISABLE\_2 | | |
| Priority | Middle | Automation Flag | yes |
| Topology to use | STA1------ SW ------ STA2 | | |
| Description | Test Enable/disable qos globally while traffic is on-going when classification is based on dscp | | |
| Platform Dependence | SR2024,SR2024P,SR2048,SR2048P | | |
| Pre-condition |  | | |
| Test procedure | 1. Configure Classification on port based on dscp   “qos enable”  “interface <name> qos-classifier aa”  “qos classifier-profile <name>< diffserv>”  “qos classifier-map diffserv <dscp><ah-class>”  dscp: 63-56 55-48 47-40 39-32 31-24 23-16 15-8 7-0 ah-class: 0 1 2 3 4 5 6 7  qos marker-profile <name><8021p|diffserv>  qos marker-map diffserv <ah-class><dscp> “  ah\_class: 7 6 5 4 3 2 1 0  dscp: 7 6 5 4 3 2 1 0   1. STA1 and STA3 eachgenerates ip stream to STA2   tagged-ip-stream:  dscp= 8~15 dot1p=0 125M  dscp= 16~23 dot1p=1 125M  dscp= 0~7 dot1p=2 125M  dscp= 24~31 dot1p=3 125M  dscp= 32~39 dot1p=4 125M  dscp= 40~47 dot1p=5 125M  dscp= 48~55 dot1p=6 125M  dscp= 56~63 dot1p=7 125M ,no qos enable ,result1   1. Config qos enable again,result 2 | | |
| Expect result | 1. stream of dscp=0-63 as STA1 send and each stream of ratio is 1:1 2. dscp= 6 dot1p=0 250M   dscp= 5 dot1p=1 250M  dscp= 7 dot1p=2 250M  dscp= 4 dot1p=3 98M  dscp= 3 dot1p=4 73.5M  dscp= 2 dot1p=5 49M  dscp= 1 dot1p=6 24.5M  dscp= 0 dot1p=7 4.9M | | |
| Test result |  | | |

#### Case ID QOSFORVOIP\_Function\_ENABLEandDISABLE\_3

|  |  |  |  |
| --- | --- | --- | --- |
| Case ID | QOSFORVOIP\_Function\_ENABLEandDISABLE\_3 | | |
| Priority | Middle | Automation Flag | yes |
| Topology to use | STA1------ SW ------ STA2 | | |
| Description | TestEnable/disable qos globally while traffic is on-going when classification is based on dot1p | | |
| Platform Dependence | SR2024,SR2024P,SR2048,SR2048P | | |
| Pre-condition |  | | |
| Test procedure | 1. Configure Classification on port based on dot1p   “qos enable”  “interface <name> qos-classifier aa”  “qos classifier-profile <name><8021P>”  dot1p: 7 6 5 4 3 2 1 0  ah\_class: 0 1 2 3 3 5 6 7  “qos classifier-map interface <name><ah-class>”  qos marker-profile <name><8021p|diffserv>  qos marker-map 8021p <ah-class><priority>  ah\_class: 7 6 5 4 3 2 1 0   dot1p: 6 5 4 3 2 1 0 7   1. STA1and STA3 each generates stream to STA2 ,   tagged-ip-stream:  dscp= 1 dot1p=0 125M  dscp= 1 dot1p=1 125M  dscp= 1 dot1p=2 125M  dscp= 1 dot1p=3 125M  dscp= 1 dot1p=4 125M  dscp= 1 dot1p=5 125M  dscp= 1 dot1p=6 125M  dscp= 1 dot1p=7 125M  undo qos enable ,result1   1. Config qos enable again ,result 2 | | |
| Expect result | 1. stream of dot1p is just as send and each stream of ratio is 1:1 2. STA2 receive   dscp= 1 dot1p=6 250M  dscp= 1 dot1p=5 250M  dscp= 1 dot1p=4 250M  dscp= 1 dot1p= 3 98M  dscp= 1 dot1p= 2 73.5M  dscp= 1 dot1p= 1 49M  dscp= 1 dot1p= 0 24.5M  dscp= 1 dot1p= 7 4.9M | | |
| Test result |  | | |

#### Case ID QOSFORVOIP\_Function\_ENABLEandDISABLE\_4

|  |  |  |  |
| --- | --- | --- | --- |
| Case ID | QOSFORVOIP\_Function\_ENABLEandDISABLE\_4 | | |
| Priority | Middle | Automation Flag | yes |
| Topology to use | STA1------ SW ------ STA2 | | |
| Description | TestEnable/disable qos globally while traffic is on-going when classification is based on interface | | |
| Platform Dependence | SR2024,SR2024P,SR2048,SR2048P | | |
| Pre-condition |  | | |
| Test procedure | 1. Configure Classification on port based on interface   “qos enable”  “interface <name> qos-classifier aa”  “qos classifier-profile <name>< diffserv><interface>”  “qos classifier-map interface <name><ah-class>”  qos classifier-map interface <name> 4  qos marker-profile <name><8021p|diffserv>  qos marker-map diffserv <ah-class><dscp> “  ah\_class: 7 6 5 4 3 2 1 0  dscp: 7 6 5 4 3 2 1 0   1. STA1AND STA3 each generatesip-stream to STA2   tagged-ip-stream:  dscp= 1 dot1p=0 125M  dscp= 1 dot1p=1 125M  dscp= 1 dot1p=2 125M  dscp= 1 dot1p=3 125M  dscp= 1 dot1p=4 125M  dscp= 1 dot1p=5 125M  dscp= 1 dot1p=6 125M  dscp= 1 dot1p=7 125M  undo qos enable ,result1   1. Config qos enable again ,result 2 | | |
| Expect result | 1. Stream is just as STA1 send and each stream of ratio is 1:1 2. STA2 receive   tagged-ip-stream:  dscp= 4 dot1p=0 125M  dscp= 4 dot1p=1 125M  dscp= 4 dot1p=2 125M  dscp= 4 dot1p=3 125M  dscp= 4 dot1p=4 125M  dscp= 4 dot1p=5 125M  dscp= 4 dot1p=6 125M  dscp= 4 dot1p=7 125M | | |
| Test result |  | | |

#### Case ID QOSFORVOIP\_Function\_bindingandunbinding\_5

|  |  |  |  |
| --- | --- | --- | --- |
| Case ID | QOSFORVOIP\_Function\_bindingandunbinding\_5 | | |
| Priority | Middle | Automation Flag | yes |
| Topology to use | STA1------ SW ------ STA2 | | |
| Description | Testbinding/unbinding qos-classifierdscp while traffic is on-going | | |
| Platform Dependence | SR2024,SR2024P,SR2048,SR2048P | | |
| Pre-condition |  | | |
| Test procedure | 1. Configure Classification on port which connect to STA1 and with user-defined mapping table   “qos enable”  “interface <name> qos-classifier aa”  “qos classifier-profile aa diffserv”  dscp: 63-56 55-48 47-40 39-32 31-24 23-16 15-8 7-0 ah-class: 0 1 2 3 4 5 6 7  qos classifier-profile bb diffserv”  dscp: 63-56 55-48 47-40 39-32 31-24 23-16 15-8 7-0 ah-class: 0 4 2 3 1 5 76  “qos marker-map diffserv <ah-class><dscp>  qos classifier-profile ee 8021p”  interface <name> qos-marker <marker-profile-name>  ah\_class: 7 6 5 4 3 2 1 0 dscp: 7 6 5 4 3 2 1 0  qos marker-profile <name><8021p|diffserv>  qos marker-map 8021p <ah-class><priority>  qos marker-map diffserv <ah-class><dscp> “   1. STA1 and STA3 each generates ip stream (dscp=0-63) to STA2   tagged-ip-stream:  dscp= 8~15 dot1p=0 125M  dscp= 16~23 dot1p=1 125M  dscp= 0~7 dot1p=2 125M  dscp= 24~31 dot1p=3 125M  dscp= 32~39 dot1p=4 125M  dscp= 40~47 dot1p=5 125M  dscp= 48~55 dot1p=6 125M  dscp= 56~63 dot1p=7 125M ,result1   1. unbinding **“interface <name> qos-classifier aa”** while traffic is going,result2 2. binding **“interface <name> qos-classifier bb”** while traffic is going,result3 3. binding clasifiction based on dot1p while traffic is going,config   unbinding **“interface <name> qos-classifier bb”** binding **“interface <name> qos-classifier ee”,result4** | | |
| Expect result | 1. STA2 receive   dscp= 6 dot1p=0 250M (6)  dscp= 5 dot1p=1 250M (5)  dscp= 7 dot1p=2 250M (7)  dscp= 4 dot1p=3 98M (4)  dscp= 3 dot1p=4 73.5M (3)  dscp= 2 dot1p=5 49M (2)  dscp= 1 dot1p=6 24.5M (1)  dscp= 0 dot1p=7 4.9M (0)   1. The stream of dscp=0 and each stream of ratio is 1:1 2. STA2 receive   dscp= 7 dot1p=0 250M (7)  dscp= 5 dot1p=1 250M (5)  dscp= 6 dot1p=2 250M (6)  dscp= 1 dot1p=3 98M (1)  dscp= 3 dot1p=4 73.5M (3)  dscp= 2 dot1p=5 49M (2)  dscp= 4 dot1p=6 24.5M (4)  dscp= 0 dot1p=7 4.9M (0)  4) | | |
| Test result |  | | |

#### Case ID QOSFORVOIP\_Function\_bindingandunbinding\_6

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| --- | --- | --- | --- |
| Case ID | QOSFORVOIP\_Function\_bindingandunbinding\_6 | | |
| Priority | Middle | Automation Flag | yes |
| Topology to use | Topo3 | | |
| Description | Testbinding/unbinding qos-classifierdot1p while traffic is on-going | | |
| Platform Dependence | SR2024,SR2024P,SR2048,SR2048P | | |
| Pre-condition |  | | |
| Test procedure | 1. Configure Classification qos-classifer dot1p on port which connect to STA1 and with default mapping table   “qos enable”  “interface <name> qos-classifier aa”  “qos classifier-profile aadot1p”  dot1p: 7 6 5 4 3 2 1 0  ah\_class: 0 1 2 3 3 5 6 7  “qos classifier-profile bbdot1p”  dot1p: 7 6 5 4 3 2 1 0  ah\_class: 7 1 2 3 3 5 6 0  “qos classifier-profile eedot1p”  “qos marker-map diffserv <ah-class><dscp>  interface <name> qos-marker <marker-profile-name>  qos marker-profile <name><8021p|diffserv>  qos marker-map 8021p <ah-class><priority>  ah\_class: 7 6 5 4 3 2 1 0  dot1p: 6 5 4 3 2 1 0 7  qos marker-map diffserv <ah-class><dscp> **“**   1. STA1and STA3 each generates stream with dot1p(0-7) to STA2,   tagged-ip-stream:  dscp= 1 dot1p=0  dscp= 1 dot1p=1 125M  dscp= 1 dot1p=2 125M  dscp= 1 dot1p=3 125M  dscp= 1 dot1p=4 125M  dscp= 1 dot1p=5 125M  dscp= 1 dot1p=6 125M  dscp= 1 dot1p=7 125M  result1   1. unbinding **“interface <name> qos-classifier aa”**result2 2. binding **“interface <name> qos-classifier bb ”**result3 3. binding classification based on dscp unbinding **“un interface <name> qos-classifier bb ”** binding **“interface <name> qos-classifier ee ”result4** | | |
| Expect result | 1. STA2 receive :   tagged-ip-stream:  dscp= 1 dot1p=6 250M  dscp= 1 dot1p=5 250M  dscp= 1 dot1p=4 250M  dscp= 1 dot1p= 3 98M  dscp= 1 dot1p= 2 73.5M  dscp= 1 dot1p= 1 49M  dscp= 1 dot1p= 0 24.5M  dscp= 1 dot1p= 7 4.9M   1. the stream of dot1p is 7 and each stream of ratio is 1:1 2. STA2 receive :   tagged-ip-stream:  dscp= 1 dot1p=7 250M  dscp= 1 dot1p=5 250M  dscp= 1 dot1p=4 250M  dscp= 1 dot1p= 3 98M  dscp= 1 dot1p= 2 73.5M  dscp= 1 dot1p= 1 49M  dscp= 1 dot1p= 0 24.5M  dscp= 1 dot1p= 6 4.9M | | |
| Test result |  | | |

#### Case ID QOSFORVOIP\_Function\_bindingandunbinding\_7

|  |  |  |  |
| --- | --- | --- | --- |
| Case ID | QOSFORVOIP\_Function\_bindingandunbinding\_7 | | |
| Priority | Middle | Automation Flag | yes |
| Topology to use | STA1------ SW ------ STA2 | | |
| Description | Testbinding/unbinding qos-classifierinterface while traffic is on-going | | |
| Platform Dependence | SR2024,SR2024P,SR2048,SR2048P | | |
| Pre-condition |  | | |
| Test procedure | 1. Configure Classification interface on port which connect to STA1   “qos enable”  qos classifier-map interface <name> 4  qos marker-profile <name><8021p|diffserv>  qos marker-map diffserv <ah-class><dscp> **“**  ah\_class: 7 6 5 4 3 2 1 0  dscp: 7 6 5 4 3 2 1 0   1. STA1 and STA3 each generates ip-stream :   tagged-ip-stream:  dscp= 1 dot1p=0 125M  dscp= 1 dot1p=1 125M  dscp= 1 dot1p=2 125M  dscp= 1 dot1p=3 125M  dscp= 1 dot1p=4 125M  dscp= 1 dot1p=5 125M  dscp= 1 dot1p=6 125M  dscp= 1 dot1p=7 125M, result1  unbinding “qos classifier-map interface <name> 4” result2   1. Configure: qos marker-map 8021p <ah-class><priority>   qos classifier-map interface <name> 4  ah\_class: 7 6 5 4 3 2 1 0  dot1p: 6 5 4 3 2 1 0 7  STA1 and STA3 each generates ip-stream :  tagged-ip-stream:  dscp= 1 dot1p=0 125M  dscp= 1 dot1p=1 125M  dscp= 1 dot1p=2 125M  dscp= 1 dot1p=3 125M  dscp= 1 dot1p=4 125M  dscp= 1 dot1p=5 125M  dscp= 1 dot1p=6 125M  dscp= 1 dot1p=7 125M ,result3   1. unbinding “no qos classifier-map interface <name> 4”,result4 | | |
| Expect result | 1. the STA2 receive:   tagged-ip-stream:  dscp= 4 dot1p=0 125M  dscp= 4 dot1p=1 125M  dscp= 4 dot1p=2 125M  dscp= 4 dot1p=3 125M  dscp= 4 dot1p=4 125M  dscp= 4 dot1p=5 125M  dscp= 4 dot1p=6 125M  dscp= 4 dot1p=7 125M   1. the STA2 receive:   tagged-ip-stream:  dscp= 0 dot1p=0 125M  dscp= 0 dot1p=1 125M  dscp= 0 dot1p=2 125M  dscp= 0 dot1p=3 125M  dscp= 0 dot1p=4 125M  dscp= 0 dot1p=5 125M  dscp= 0dot1p=6 125M  dscp= 0 dot1p=7 125M   1. tagged-ip-stream:   dscp= 1 dot1p=3 125M  dscp= 1 dot1p=3 125M  dscp= 1 dot1p=3 125M  dscp= 1 dot1p=3 125M  dscp= 1 dot1p=3 125M  dscp= 1 dot1p=3 125M  dscp= 1 dot1p=3 125M  dscp= 1 dot1p=3125M   1. **4** tagged-ip-stream:   dscp= 1 dot1p=0125M  dscp= 1 dot1p=0125M  dscp= 1 dot1p=0125M  dscp= 1 dot1p=0125M  dscp= 1 dot1p=0125M  dscp= 1 dot1p=0125M  dscp= 1 dot1p=0125M  dscp= 1 dot1p=0125M | | |
| Test result |  | | |

#### Case ID QOSFORVOIP\_Function\_bindingandunbinding\_8

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| --- | --- | --- | --- |
| Case ID | QOSFORVOIP\_Function\_bindingandunbinding\_8 | | |
| Priority | Middle | Automation Flag | **yes** |
| Topology to use | Topo1 | | |
| Description | Test Binding/unbinding marker-profile(same/not same) while traffic on-going | | |
| Platform Dependence | SR2024,SR2024P,SR2048,SR2048P | | |
| Pre-condition |  | | |
| Test procedure | 1. The qos was enabled globally and the port was configured with marking , the port which the stream out should be configured :   “qos enable  interface <name> qos-marker aa  qos marker-profile aa<diffserv>  qos classifier-map 8021p <priority><ah-class>  ah-class: 7 6 5 4 3 2 1 0  priority: 7 6 5 4 3 0 2 1  qos marker-profile bb<diffserv>  qos classifier-map 8021p <priority><ah-class>  ah-class: 7 6 5 4 3 2 1 0  priority: 7 6 2 4 5 0 3 1  qos marker-profile cc <8021p>  qos classifier-map 8021p <priority><ah-class>  ah-class: 7 6 5 4 3 2 1 0  priority: 7 6 5 21 0 43  qos marker-map diffserv <ah-class><dscp>”   1. STA1 generates ip stream   dscp= 8~15 dot1p=0 125M  dscp= 16~23 dot1p=1 125M  dscp= 0~7 dot1p=2 125M  dscp= 24~31 dot1p=3 125M  dscp= 32~39 dot1p=4 125M  dscp= 40~47 dot1p=5 125M  dscp= 48~55 dot1p=6 125M  dscp= 56~63 dot1p=7 125M result1   1. Unbinding qos-marker aa ,result2 2. Change the marker-map dot1p table ,Binding qos-marker bb,result3 3. Unbinding the marker-map ,Change the marker-map dot1p table ,Binding qos-marker aa,result4 4. Unbinding the marker-map ,binding qos-marker cc,result5 5. Unbinding the marker-map ,binding qos-marker ee(change marker based on dscp),result6 | | |
| Expect result | 1. The dot1p of stream STA2 receive 0-7 2. The stream STA2 receive is not change 3. The dot1p will changed accordingly and correct 4. The dot1p will changed accordingly and correct 5. The dot1p will changed accordingly and correct 6. The dscp will changed accordingly and correct | | |
| Test Result |  | | |
| Comment |  | | |

#### Case ID QOSFORVOIP\_Function\_bindingandunbinding\_9

|  |  |  |  |
| --- | --- | --- | --- |
| Case ID | QOSFORVOIP\_Function\_bindingandunbinding\_9 | | |
| Priority | Middle | Automation Flag | **yes** |
| Topology to use | Topo1 | | |
| Description | TestBinding/unbinding marker-profile(same/not same) while traffic on-going | | |
| Platform Dependence | SR2024,SR2024P,SR2048,SR2048P | | |
| Pre-condition |  | | |
| Test procedure | 1. The qos was enabled globally and the port was configured with marking , the port which the stream out should be configured :   “qos enable  interface <name> qos-marker aa  qos marker-profile aa<diffserv>  qos marker-map diffserv <ah-class><dscp>  ah\_class: 7 6 5 4 3 2 1 0  dscp: 56 48 46 36 28 20 12 0  qos marker-profile bb<diffserv>  qos marker-map diffserv <ah-class><dscp>  ah\_class: 7 6 5 4 3 2 1 0  dscp: 56 48 46 36 28 0 12 20  qos marker-profile cc < diffserv>  qos marker-map diffserv <ah-class><dscp>  ah\_class: 7 6 5 4 3 2 1 0  dscp: 4856 46 36 28 20 12 0  qos marker-map diffserv <ah-class><dscp>”  STA1 generates stream to STA2  dscp= 8~15 dot1p=0 125M  dscp= 16~23 dot1p=1 125M  dscp= 0~7 dot1p=2 125M  dscp= 24~31 dot1p=3 125M  dscp= 32~39 dot1p=4 125M  dscp= 40~47 dot1p=5 125M  dscp= 48~55 dot1p=6 125M  dscp= 56~63 dot1p=7 125M result1   1. Unbinding qos-marker aa ,result2 2. Change the marker-map diffserv table ,Binding qos-marker bb,result3 3. Unbinding the marker-map ,Change the marker-map diffserv table ,Binding qos-marker aa,result4 4. Unbinding the marker-map ,binding qos-marker cc,result5 5. Unbinding the marker-map ,binding qos-marker ee(change marker based on dot1p),result6 | | |
| Expect result | 1. The diffserv of stream STA2 receive 0-63 2. The stream STA2 receive is not change 3. The diffserv will changed corresponding and correct 4. The diffserv will changed corresponding and correct 5. The diffserv will changed corresponding and correct 6. The dot1p will changed corresponding and correct | | |
| Test Result |  | | |
| Comment |  | | |

#### Case ID QOSFORVOIP\_Function\_other\_10

|  |  |  |  |
| --- | --- | --- | --- |
| Case ID | QOSFORVOIP\_Function\_other\_10 | | |
| Priority | high | Automation Flag | yes |
| Topology to use | Topo2 | | |
| Description | Test classification when flow is from lan-port(vlan-interface) to wan-port | | |
| Platform Dependence | SR2024,SR2024P,SR2048,SR2048P | | |
| Pre-condition |  | | |
| Test procedure | 1. Configure Classification on lan-port which connect to STA1 and use default classification mapping table, configure the flow-out port marker   “qos enable”  “interface <name> qos-classifier aa”  “qos classifier-profile aa diffserv  interface <name> qos-marker aa  qos marker-profile aa diffserv  dscp: 63-56 55-48 47-40 39-32 31-24 23-16 15-8 7-0 ah-class: 7 6 5 4 3 1 0 2  qos marker-map diffserv <ah-class><dscp>  ah\_class: 7 6 5 4 3 2 1 0  dscp: 56 48 46 36 28 20 12 0  STA1generates tagged-ip-stream (dscp=0-63) to STA2,  ip-stream:  dscp=63~56 12M  dscp=55~48 12M  dscp= 47~40 12M  dscp=39~32 12M  dscp= 31~24 12M  dscp= 7~0 12M  dscp= 23~16 12M  dscp= 15~8 12M,result1 | | |
| Expect result | 1. stream of dscp=56 receive 12M, dscp=48 receive 12M,dscp=46 receive 12M ,dscp=36 receive 5.48M, dscp=28 receive 4.11M ,dscp=12 receive 2.74M dscp=0 receive 1.37M ,dscp=20 receive 0.3M | | |
| Test result |  | | |

#### Case ID QOSFORVOIP\_Function\_other\_11

|  |  |  |  |
| --- | --- | --- | --- |
| Case ID | QOSFORVOIP\_Function\_other\_11 | | |
| Priority | high | Automation Flag | yes |
| Topology to use | Topo2 | | |
| Description | Test marker when flow is from wan-port to lan-port(vlan-interface) | | |
| Platform Dependence | SR2024,SR2024P,SR2048,SR2048P | | |
| Pre-condition |  | | |
| Test procedure | 1. Configure Classification on lan-port which connect to STA1 and use default classification mapping table, configure the flow-out port marker   “qos enable”  “interface <name> qos-classifier aa”  “qos classifier-profile aa diffserv  interface <name> qos-marker aa  qos marker-profile aa diffserv  dscp: 63-56 55-48 47-40 39-32 31-24 23-16 15-8 7-0 ah-class: 7 6 5 4 3 1 0 2  qos marker-map diffserv <ah-class><dscp>  ah\_class: 7 6 5 4 3 2 1 0  dscp: 56 48 46 36 28 20 12 0  STA1generates tagged-ip-stream (dscp=0-63) to STA2,  ip-stream:  dscp=63~56 12M  dscp=55~48 12M  dscp= 47~40 12M  dscp=39~32 12M  dscp= 31~24 12M  dscp= 7~0 12M  dscp= 23~16 12M  dscp= 15~8 12M,result1 | | |
| Expect result | 1. stream of dscp=56 receive 12M, dscp=48 receive 12M,dscp=46 receive 12M ,dscp=36 receive 5.48M, dscp=28 receive 4.11M ,dscp=12 receive 2.74M dscp=0 receive 1.37M ,dscp=20 receive 0.3M | | |
| Test result |  | | |

#### Case ID QOSFORVOIP\_Function\_other\_12

|  |  |  |  |
| --- | --- | --- | --- |
| Case ID | QOSFORVOIP\_Function\_other\_12 | | |
| Priority | high | Automation Flag | yes |
| Topology to use | Topo2 | | |
| Description | Test marker when flow is from lan-port(vlan-interface) to lan-port(vlan-interface) | | |
| Platform Dependence | SR2024,SR2024P,SR2048,SR2048P | | |
| Pre-condition |  | | |
| Test procedure | 1. Configure Classification on lan-port which connect to STA1 and use default classification mapping table, configure the flow-out port marker   “qos enable”  “interface <name> qos-classifier aa”  “qos classifier-profile aa diffserv  interface <name> qos-marker aa  qos marker-profile aa diffserv  dscp: 63-56 55-48 47-40 39-32 31-24 23-16 15-8 7-0 ah-class: 67 5 4 3 1 0 2  qos marker-map diffserv <ah-class><dscp>  ah\_class: 7 6 5 4 3 2 1 0  dscp: 56 48 46 36 28 20 12 0  STA1generates tagged-ip-stream (dscp=0-63) to STA2,  ip-stream:  dscp=63~56 12M  dscp=55~48 12M  dscp= 47~40 12M  dscp=39~32 12M  dscp= 31~24 12M  dscp= 7~0 12M  dscp= 23~16 12M  dscp= 15~8 12M,result1 | | |
| Expect result | 1. stream of dscp=48 receive 12M, dscp=56 receive 12M,dscp=46 receive 12M ,dscp=36 receive 5.48M, dscp=28 receive 4.11M ,dscp=12 receive 2.74M dscp=0 receive 1.37M ,dscp=20 receive 0.3M | | |
| Test result |  | | |

## Stress Test Case

#### Case ID QOSFORVOIP\_stress\_Scheduler\_1

|  |  |  |  |
| --- | --- | --- | --- |
| Case ID | QOSFORVOIP\_stress\_Scheduler\_1 | | |
| Priority | middle | Automation Flag | yes |
| Topology to use | Topo3 | | |
| Description | Test scheduler whether right when congest as much ports as possible | | |
| Platform Dependence | SR2024,SR2024P,SR2048,SR2048P | | |
| Pre-condition | 16 ports generate16G traffic to 8 ports(each port receives 2G traffic) check the scheduler. (depends on materials supplies ) | | |
| Test procedure | 1. Configure Classification on port which connect to STA1 and use default classification mapping table, configure the flow-out port marker   “qos enable”  “interface <name> qos-classifier aa”  “qos classifier-profile aa diffserv  interface <name> qos-marker aa  qos marker-profile aa diffserv  dscp: 63-56 55-48 47-40 39-32 31-24 23-16 15-8 7-0 ah-class: 0 1 2 3 4 5 6 7  qos marker-map diffserv <ah-class><dscp>”  ah\_class: 7 6 5 4 3 2 1 0 dscp: 7 6 5 4 3 2 1 0   1. STA1 and STA3 each generates tagged-ip-stream to STA2   dscp= 8~15 dot1p=0 125M  dscp= 16~23 dot1p=1 125M  dscp= 0~7 dot1p=2 125M  dscp= 24~31 dot1p=3 125M  dscp= 32~39 dot1p=4 125M  dscp= 40~47 dot1p=5 125M  dscp= 48~55 dot1p=6 125M  dscp= 56~63 dot1p=7 125M ,result1 | | |
| Expect result | 1. tagged-ip-stream:   dscp= 6 dot1p=0 250M  dscp= 5 dot1p=1 250M  dscp= 7 dot1p=2 250M  dscp= 4 dot1p=3 98M  dscp= 3 dot1p=4 73.5M  dscp= 2 dot1p=5 49M  dscp= 1 dot1p=6 24.5M  dscp= 0 dot1p=7 4.9M | | |
| Test result |  | | |

## LongevityTest Case

#### Case ID QOSFORVOIP\_Longevity\_Scheduler\_1

|  |  |  |  |
| --- | --- | --- | --- |
| Case ID | QOSFORVOIP\_Longevity\_Scheduler\_1 | | |
| Priority | middle | Automation Flag | yes |
| Topology to use | Topo3 | | |
| Description | Test scheduler whether right when congestoccur 24h+ | | |
| Platform Dependence | SR2024,SR2024P,SR2048,SR2048P | | |
| Pre-condition |  | | |
| Test procedure | 1. Configure Classification on port which connect to STA1 and use default classification mapping table, configure the flow-out port marker   “qos enable”  “interface <name> qos-classifier aa”  “qos classifier-profile aa diffserv  interface <name> qos-marker aa  qos marker-profile aa diffserv  qos marker-map diffserv <ah-class><dscp>”   1. STA1 and STA3 each generates tagged-ip-stream to STA2   dscp= 8~15 dot1p=0 125M  dscp= 16~23 dot1p=1 125M  dscp= 0~7 dot1p=2 125M  dscp= 24~31 dot1p=3 125M  dscp= 32~39 dot1p=4 125M  dscp= 40~47 dot1p=5 125M  dscp= 48~55 dot1p=6 125M  dscp= 56~63 dot1p=7 125M ,result1   1. Generate stream and last 24 hours,check the stream ,result2 | | |
| Expect result | 1. tagged-ip-stream:   dscp= 6 dot1p=0 250M  dscp= 5 dot1p=1 250M  dscp= 7 dot1p=2 250M  dscp= 4 dot1p=3 98M  dscp= 3 dot1p=4 73.5M  dscp= 2 dot1p=5 49M  dscp= 1 dot1p=6 24.5M  dscp= 0 dot1p=7 4.9M   1. tagged-ip-stream:   dscp= 6 dot1p=0 250M  dscp= 5 dot1p=1 250M  dscp= 7 dot1p=2 250M  dscp= 4 dot1p=3 98M  dscp= 3 dot1p=4 73.5M  dscp= 2 dot1p=5 49M  dscp= 1 dot1p=6 24.5M  dscp= 0 dot1p=7 4.9M | | |
| Test result |  | | |

## Performance Test Case

#### Case ID QOSFORVOIP\_performance\_Scheduler\_1

|  |  |  |  |
| --- | --- | --- | --- |
| Case ID | QOSFORVOIP\_performance\_Scheduler\_1 | | |
| Priority | middle | Automation Flag | yes |
| Topology to use | Topo3 | | |
| Description | Test performance when qos was enable or not | | |
| Platform Dependence | SR2024,SR2024P,SR2048,SR2048P | | |
| Pre-condition | STA1 generate 1G stream to STA2 ,classification mark and scheduler has configured and worked ,[qos enable ]/ [no qos enable] test performance | | |
| Test procedure | 1. Configure Classification on port which connect to STA1 and use user-defined classification mapping table, configure the flow-out port marker   “qos enable”  “interface <name> qos-classifier aa”  “qos classifier-profile aa diffserv  interface <name> qos-marker aa  qos marker-profile aa diffserv  qos marker-map diffserv <ah-class><dscp>”   1. STA1 generates tagged-ip-stream to STA2   dscp= 8~15 dot1p=0 125M  dscp= 16~23 dot1p=1 125M  dscp= 0~7 dot1p=2 125M  dscp= 24~31 dot1p=3 125M  dscp= 32~39 dot1p=4 125M  dscp= 40~47 dot1p=5 125M  dscp= 48~55 dot1p=6 125M  dscp= 56~63 dot1p=7 125M ,result1   1. “no qos enable” then check the stream ,result2 2. frequentlyqos enable/no qos enable, result3 | | |
| Expect result | 1. tagged-ip-stream:   dscp= 6 dot1p=0 125M  dscp= 5 dot1p=1 125M  dscp= 7 dot1p=2 125M  dscp= 4 dot1p=3 125M  dscp= 3 dot1p=4 125M  dscp= 2 dot1p=5 125M  dscp= 1 dot1p=6 125M  dscp= 0 dot1p=7 125MSTA2 receive 1G   1. all the stream will be the same as its send,and STA2 receive the stream is 1G. 2. STA2 will receive 1G stream and will no exception. | | |
| Test result |  | | |

## Capacity Test Case

#### Case ID QOSFORVOIP\_capacity\_profile\_1

|  |  |  |  |
| --- | --- | --- | --- |
| Case ID | QOSFORVOIP\_capacity\_profile\_1 | | |
| Priority | middle | Automation Flag | yes |
| Topology to use | Topo3 | | |
| Description | Test profile number | | |
| Platform Dependence | SR2024,SR2024P,SR2048,SR2048P | | |
| Pre-condition |  | | |
| Test procedure | 1. Configure the maximum number of“qos classifier-profile<string>““qos marker-profile <string>“, show qos classifier-profile and show qos marker-profile ,result1 2. Reboot the switch ,show qos classifier-profile and show qos marker-profile,result2 | | |
| Expect result | 1. qos classifier-profile number is 56 2. qos marker-profile number is 56 | | |
| Test result |  | | |

## Compatibility Test Case

## Negative TestCase

#### Case ID QOSFORVOIP\_negative\_Scheduler\_1

|  |  |  |  |
| --- | --- | --- | --- |
| Case ID | QOSFORVOIP\_negative\_Scheduler\_1 | | |
| Priority | middle | Automation Flag | yes |
| Topology to use | Topo3 | | |
| Description | Test quit process“SWD” then recover | | |
| Platform Dependence | SR2024,SR2024P,SR2048,SR2048P | | |
| Pre-condition | STA1 and STA3 generate stream to STA2 ,classification mark and scheduler has configured and worked ,quit process“SWD” then recover ,all qos can still worked as before | | |
| Test procedure | 1. Configure Classification on port which connect to STA1 and use default classification mapping table, configure the flow-out port marker   “qos enable”  “interface <name> qos-classifier aa”  “qos classifier-profile aa diffserv  interface <name> qos-marker aa  qos marker-profile aa diffserv  dscp: 63-56 55-48 47-40 39-32 31-24 23-16 15-8 7-0 ah-class: 0 1 2 3 4 5 6 7  qos marker-map diffserv <ah-class><dscp>”  ah\_class: 7 6 5 4 3 2 1 0 dscp: 7 6 5 4 3 2 1 0   1. STA1 and STA3 each generates tagged-ip-stream to STA2   dscp= 8~15 dot1p=0 125M  dscp= 16~23 dot1p=1 125M  dscp= 0~7 dot1p=2 125M  dscp= 24~31 dot1p=3 125M  dscp= 32~39 dot1p=4 125M  dscp= 40~47 dot1p=5 125M  dscp= 48~55 dot1p=6 125M  dscp= 56~63 dot1p=7 125M ,result1   1. kill process “swd” by shell ,after a little while , show running-config and check the flow,result2 | | |
| Expect result | 1. tagged-ip-stream:   dscp= 6 dot1p=0 250M  dscp= 5 dot1p=1 250M  dscp= 7 dot1p=2 250M  dscp= 4 dot1p=3 98M  dscp= 3 dot1p=4 73.5M  dscp= 2 dot1p=5 49M  dscp= 1 dot1p=6 24.5M  dscp= 0 dot1p=7 4.9M   1. tagged-ip-stream:   dscp= 6 dot1p=0 250M  dscp= 5 dot1p=1 250M  dscp= 7 dot1p=2 250M  dscp= 4 dot1p=3 98M  dscp= 3 dot1p=4 73.5M  dscp= 2 dot1p=5 49M  dscp= 1 dot1p=6 24.5M  dscp= 0 dot1p=7 4.9M  configure is the same as before:  “qos enable”  “interface <name> qos-classifier aa”  “qos classifier-profile aa diffserv  interface <name> qos-marker aa  qos marker-profile aa diffserv  dscp: 63-56 55-48 47-40 39-32 31-24 23-16 15-8 7-0 ah-class: 0 1 2 3 4 5 6 7  qos marker-map diffserv <ah-class><dscp>”  ah\_class: 7 6 5 4 3 2 1 0  dscp: 7 6 5 4 3 2 1 0 | | |
| Test result |  | | |

## Other Test Case

## CLI Management (Automation Status: Yes/No)

<firstly, list all cli that this feature has one by one>

qos enable

interface<name> qos-classifier <classifier-profile-name>

qos classifier-profile <name><8021p|diffserv|interface>

qos classifier-map 8021p <priority><ah-class>

qos classifier-map diffserv <dscp><ah-class>

qos classifier-map interface <name><ah-class>

interface<name> qos-marker <marker-profile-name>

qos marker-profile <name><8021p|80211e|diffserv>

qos marker-map 8021p <ah-class><priority>

qos marker-map diffserv <ah-class><dscp>

<CLI test case>

#### Case ID QOSFORVOIP\_CLI\_enable\_1

|  |  |  |  |
| --- | --- | --- | --- |
| Case ID | QOSFORVOIP\_CLI\_enable\_1 | | |
| Priority | Middle | Automation Flag | N/A |
| Topology to use | STA1----------SW----------STA2 | | |
| Description | Qos enable CLI test | | |
| Platform Dependence | **SR2024,SR2024P,SR2048,SR2048P** | | |
| Pre-condition |  | | |
| Test procedure | 1. The qos should be configured globally,configure: 2. “qos enable”, show running config ,result1 3. configured : “qos enable” again,result2 4. configured : “no qos enable”, show running config ,result3 | | |
| Expect result | 1. “qos enable” was in config 2. prompt message is correct 3. “qos enable” was not in config | | |
| Test Result |  | | |
| Comment |  | | |

#### Case ID QOSFORVOIP\_CLI\_qos-classifier\_2

|  |  |  |  |
| --- | --- | --- | --- |
| Case ID | QOSFORVOIP\_CLI\_qos-classifier\_2 | | |
| Priority | Middle | Automation Flag | N/A |
| Topology to use | STA1----------SW----------STA2 | | |
| Description | interface <name> qos-classifier <classifier-profile-name> test | | |
| Platform Dependence | **SR2024,SR2024P,SR2048,SR2048P** | | |
| Pre-condition |  | | |
| Test procedure | 1. qos-classifier configure: 2. “interface<name>qos-classifier aa”,show running config ,result1 3. configured : “interface<name>qos-classifier bb”,result2 4. configured : “no interface<name>qos-classifier aa”, show running config ,result3 | | |
| Expect result | 1. “interface<name>qos-classifier aa” was in config 2. prompt message is correct 3. “interface<name>qos-classifier aa” was not in config | | |
| Test Result |  | | |
| Comment |  | | |

#### Case ID QOSFORVOIP\_CLI\_classifier-profile\_3

|  |  |  |  |
| --- | --- | --- | --- |
| Case ID | QOSFORVOIP\_CLI\_classifier-profile\_3 | | |
| Priority | Middle | Automation Flag | N/A |
| Topology to use | STA1----------SW----------STA2 | | |
| Description | qos classifier-profile <name><8021p|diffserv|interface> test | | |
| Platform Dependence | **SR2024,SR2024P,SR2048,SR2048P** | | |
| Pre-condition |  | | |
| Test procedure | 1. classifier-profile configure: 2. “qos classifier-profile aa 8021p”,show running config ,result1 3. configure : “qos classifier-profile aadiffserv”,result2 4. configure : “qos classifier-profile aa8021p”,result3 5. configure : “qos classifier-profile interface”, show running config ,result4 6. configure : “no qos classifier-profile aa 8021p”,show running config ,result5 7. configure : “qos classifier-profile aadiffserv”, show running config ,result6 8. configure : “qos classifier-profile aadiffserv”again, result7 9. configure : “qos classifier-profile aa8021p”,result8 10. configure : “qos classifier-profile interface”, show running config ,result9 11. configure : “no qos classifier-profile aadiffserv”,show running config ,result10 12. configure : “qos classifier-profile interface”, show running config ,result11 13. configure : “qos classifier-profile interface”again,result12 | | |
| Expect result | 1. “qos classifier-profile aa 8021p” was in config 2. prompt message is correct,the CLI cannot be configured 3. prompt message is correct,the CLI cannot be configured 4. “qos classifier-profile aa 8021p|interface” was in config 5. “qos classifier-profile aa 8021p” was not in config 6. “qos classifier-profile aadiffserv” was in config 7. prompt message is correct,the CLI cannot be configured 8. prompt message is correct,the CLI cannot be configured 9. “qos classifier-profile aadiffserv|interface” was in config 10. “qos classifier-profile aadifferserv” was not in config 11. “qos classifier-profile aainterface” was in config 12. prompt message is correct,the CLI cannot be configured | | |
| Test Result |  | | |
| Comment |  | | |

#### Case ID QOSFORVOIP\_CLI\_classifier-map\_4

|  |  |  |  |
| --- | --- | --- | --- |
| Case ID | QOSFORVOIP\_CLI\_qos-classifier\_4 | | |
| Priority | Middle | Automation Flag | N/A |
| Topology to use | STA1----------SW----------STA2 | | |
| Description | qos classifier-map 8021p <priority><ah-class> test | | |
| Platform Dependence | **SR2024,SR2024P,SR2048,SR2048P** | | |
| Pre-condition |  | | |
| Test procedure | 1. qos-classifier configure: 2. “qos classifier-map 8021p 0-70-7”,show running config ,result1 3. configured :“qos classifier-map 8021p (8 -1 / \ $ a )7”,result2 4. configured :configured : “qos classifier-map 8021p 1 (8 -1 / \ $ a)”,result3 | | |
| Expect result | 1. “qos classifier-map 8021p 0-70-7” was in config 2. prompt message is correct,CLI connot be configured 3. prompt message is correct,CLI connot be configured | | |
| Test Result |  | | |
| Comment |  | | |

#### Case ID QOSFORVOIP\_CLI\_classifier-map\_5

|  |  |  |  |
| --- | --- | --- | --- |
| Case ID | QOSFORVOIP\_CLI\_qos-classifier\_5 | | |
| Priority | Middle | Automation Flag | N/A |
| Topology to use | STA1----------SW----------STA2 | | |
| Description | qos classifier-map diffserv <dscp><ah-class> test | | |
| Platform Dependence | **SR2024,SR2024P,SR2048,SR2048P** | | |
| Pre-condition |  | | |
| Test procedure | 1. qos-classifier configure: 2. “qos classifier-map diffserv0-630-7”,show running config ,result1 3. configured : “qos classifier-map diffserv(64 -1 / \ $ a )7”,result2 4. configured :configured : “qos classifier-map diffserv1 (64 -1 / \ $ a)”,result3 | | |
| Expect result | 1. “qos classifier-map diffserv0-630-7” was in config 2. prompt message is correct,CLI connot be configured 3. prompt message is correct,CLI connot be configured | | |
| Test Result |  | | |
| Comment |  | | |

#### Case ID QOSFORVOIP\_CLI\_classifier-map\_6

|  |  |  |  |
| --- | --- | --- | --- |
| Case ID | QOSFORVOIP\_CLI\_qos-classifier\_6 | | |
| Priority | Middle | Automation Flag | N/A |
| Topology to use | STA1----------SW----------STA2 | | |
| Description | qos classifier-map interface <name><ah-class> test | | |
| Platform Dependence | **SR2024,SR2024P,SR2048,SR2048P** | | |
| Pre-condition |  | | |
| Test procedure | 1. qos-classifier configure: 2. “qos classifier-map interface<name>0-7”,show running config ,result1 3. configured : “qos classifier-map interface<name> (64 -1 / \ $ a )”,result2 | | |
| Expect result | 1. “qos classifier-map diffserv 0-630-7” was in config 2. prompt message is correct,CLI connot be configured | | |
| Test Result |  | | |
| Comment |  | | |

#### Case ID QOSFORVOIP\_CLI\_qos-marker\_7

|  |  |  |  |
| --- | --- | --- | --- |
| Case ID | QOSFORVOIP\_CLI\_qos-marker\_7 | | |
| Priority | Middle | Automation Flag | N/A |
| Topology to use | STA1----------SW----------STA2 | | |
| Description | interface <name> qos-marker <marker-profile-name> test | | |
| Platform Dependence | **SR2024,SR2024P,SR2048,SR2048P** | | |
| Pre-condition |  | | |
| Test procedure | 1. qos-classifier configure: 2. configured : “interface <name> qos-marker ( a )”,result1 3. configured : “interface <name> qos-marker (64 0 -1 / \ $ a )”,result2 | | |
| Expect result | 1. “interface <name> qos-marker a ” was in config 2. prompt message is correct,CLI connot be configured | | |
| Test Result |  | | |
| Comment |  | | |

#### Case ID QOSFORVOIP\_CLI\_qos-marker\_8

|  |  |  |  |
| --- | --- | --- | --- |
| Case ID | QOSFORVOIP\_CLI\_marker-profile\_8 | | |
| Priority | Middle | Automation Flag | N/A |
| Topology to use | STA1----------SW----------STA2 | | |
| Description | qos marker-profile <name><8021p|diffserv> test | | |
| Platform Dependence | **SR2024,SR2024P,SR2048,SR2048P** | | |
| Pre-condition |  | | |
| Test procedure | 1. qos-classifier configure: 2. configured : “qos marker-profile ( a )8021p”,result1 3. configured : “qos marker-profile (64 0 -1 / \ $ a ) 8021p”,result2 4. configured : “qos marker-profile ( a )8021p” again ,result3 5. configured : “qos marker-profile ( a ) diffserv” result4 6. configured :“ no qos marker-profile a 8021p”“qos marker-profile diffserv” show running-config ,result5 7. configured : “qos marker-profile (64 0 -1 / \ $ a ) diffserv”,result6 8. configured : “qos marker-profile a diffserv” again ,result7 9. configured : “qos marker-profile a 8021p” result8 | | |
| Expect result | 1. “qos marker-profile a 8021p” was in config 2. prompt message is correct,CLI connot be configured 3. prompt message is correct,CLI connot be configured 4. prompt message is correct,CLI connot be configured 5. “qos marker-profile a diffserv” was in config 6. prompt message is correct,CLI connot be configured 7. prompt message is correct,CLI connot be configured 8. prompt message is correct,CLI connot be configured | | |
| Test Result |  | | |
| Comment |  | | |

#### Case ID QOSFORVOIP\_CLI\_marker-map\_9

|  |  |  |  |
| --- | --- | --- | --- |
| Case ID | QOSFORVOIP\_CLI\_marker-map\_9 | | |
| Priority | Middle | Automation Flag | N/A |
| Topology to use | STA1----------SW----------STA2 | | |
| Description | qos marker-map 8021p <ah-class><priority> test | | |
| Platform Dependence | **SR2024,SR2024P,SR2048,SR2048P** | | |
| Pre-condition |  | | |
| Test procedure | 1. qos-classifier configure: 2. “qos marker-map 8021p 0-7 0-7”,show running config ,result1 3. configured : “qos classifier-map interface1 (8 -1 / \ $ a )”,result2 4. configured : “qos classifier-map interface (8 -1 / \ $ a ) 1”,result3 | | |
| Expect result | 1. “qos marker-map 8021p 0-7 0-7” was in config 2. prompt message is correct,CLI connot be configured 3. prompt message is correct,CLI connot be configured | | |
| Test Result |  | | |
| Comment |  | | |

#### Case ID QOSFORVOIP\_CLI\_marker-map\_10

|  |  |  |  |
| --- | --- | --- | --- |
| Case ID | QOSFORVOIP\_CLI\_marker-map\_10 | | |
| Priority | Middle | Automation Flag | N/A |
| Topology to use | STA1----------SW----------STA2 | | |
| Description | qos marker-map diffserv <ah-class><dscp> test | | |
| Platform Dependence | **SR2024,SR2024P,SR2048,SR2048P** | | |
| Pre-condition |  | | |
| Test procedure | 1. qos-classifier configure: 2. “qos marker-map diffserv 0-7 0-63”,show running config ,result1 3. configured : “qos classifier-map interface1 (64 -1 / \ $ a )”,result2 4. configured : “qos classifier-map interface (64 -1 / \ $ a ) 1”,result3 | | |
| Expect result | 1. “qos marker-map diffserv 0-7 0-63” was in config 2. prompt message is correct,CLI connot be configured 3. prompt message is correct,CLI connot be configured | | |
| Test Result |  | | |
| Comment |  | | |

#### Case ID QOSFORVOIP\_CLI\_recovering\_11

|  |  |  |  |
| --- | --- | --- | --- |
| Case ID | QOSFORVOIP\_CLI\_recovering\_11 | | |
| Priority | Middle | Automation Flag | **yes** |
| Topology to use | STA1----------SW----------STA2 | | |
| Description | Configure marking and classification on all the port then reboot the switch | | |
| Platform Dependence | **SR2024,SR2024P,SR2048,SR2048P** | | |
| Pre-condition |  | | |
| Test procedure | 1. The qos was enabled globally and all the port was configured with marking and classification, configured :   “qos enable  interface <name> qos-classifier aa  qos classifier-profile aa diffserv 10 7  qos marker-profile aa  qos marker-map diffserv 7 63”  STA1 generates ip stream with dscp=10 , result1  Reboot the switch more than three times ,show running-configure,result2 | | |
| Expect result | 1. The stream of the DSCP=63 2. All the configure is right ,and the stream of the DSCP=63 | | |
| Test Result |  | | |
| Comment |  | | |

#### Case ID QOSFORVOIP\_CLI\_classifier-profile\_12

|  |  |  |  |
| --- | --- | --- | --- |
| Case ID | QOSFORVOIP\_CLI\_classifier-profile\_12 | | |
| Priority | Middle | Automation Flag | **yes** |
| Topology to use | STA1----------SW----------STA2 | | |
| Description | Config interface classifier when classifier-profile is enpty | | |
| Platform Dependence | **SR2024,SR2024P,SR2048,SR2048P** | | |
| Pre-condition |  | | |
| Test procedure | 1. The qos was enabled globally and all the port was configured with marking and classification, configured :   “qos enable  interface <name> qos-classifier aa  and there is no qos classifier-profile aa , result1 | | |
| Expect result | 1. We can configure classifier and prompt is right | | |
| Test Result |  | | |
| Comment |  | | |

#### Case ID QOSFORVOIP\_CLI\_marker-profile\_13

|  |  |  |  |
| --- | --- | --- | --- |
| Case ID | QOSFORVOIP\_CLI\_marker-profile\_13 | | |
| Priority | Middle | Automation Flag | **yes** |
| Topology to use | STA1----------SW----------STA2 | | |
| Description | Config interface marker when classifier-profile is enpty | | |
| Platform Dependence | **SR2024,SR2024P,SR2048,SR2048P** | | |
| Pre-condition |  | | |
| Test procedure | 1. The qos was enabled globally and all the port was configured with marking and classification, configured :   “qos enable  interface <name>qos-marker aa  and there is no qos marker-profile aa , result1 | | |
| Expect result | 1. We can configure classifier and prompt is right | | |
| Test Result |  | | |
| Comment |  | | |

#### Case ID QOSFORVOIP\_CLI\_marker-profile\_14

|  |  |  |  |
| --- | --- | --- | --- |
| Case ID | QOSFORVOIP\_CLI\_marker-profile\_14 | | |
| Priority | Middle | Automation Flag | **yes** |
| Topology to use | STA1----------SW----------STA2 | | |
| Description | Some not support CLI cannot configure | | |
| Platform Dependence | **SR2024,SR2024P,SR2048,SR2048P** | | |
| Pre-condition |  | | |
| Test procedure | 1. The qos was enabled globally and all the port was configured with marking and classification, configured :   “qos classifier-profile <name> 80211e”, show running-config,result1  “qos classifier-profile <name> mac”, show running-config result1  “qos classifier-profile <name> mac”,show running-config,result1  “qos classifier-map mac <oui>[qos <ah-class>][action [permit|deny|log]”, show running-config ,result1  qos classifier-map service <name> [qos <ah-class>] [action <permit|deny|log>],show running-config ,result1  qos marker-profile <name> 80211e ,show running-config ,result1 | | |
| Expect result | 1. We can configure it and prompt is right. | | |
| Test Result |  | | |
| Comment |  | | |

## GUI Management-HiveManager

<List HM test case or test log>

## GUI Management-HiveUI

<List HiveUI test case or test log>

## Typical issue Test Case