



# 4A0-107<sup>Q&As</sup>

Alcatel-Lucent Quality of Service

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**QUESTION 1**

Both SAP-ingress 10 and policer-control-policy "CFHP" have been applied to a service SAP ingress. What is the maximum bandwidth allocated to policer 2?

```
R1>configure>qos# info
-----
---- Output omitted ----
policer-control-policy "CFHP" create
root
    rate 100000
exit
tier 1
    arbiter "T1" create
        parent "root" level 4
        rate 30000
    exit
exit
sap-ingress 10 create
---- Output omitted ----
policer 1 create
    parent "T1" level 2 weight 50
    rate 20000 cir 20000
exit
policer 2 create
    parent "T1" level 2 weight 50
    rate 30000 cir 10000
exit
policer 3 create
    parent root level 6
    rate 40000 cir 10000
exit
fc af create
    policer 3
exit
fc l2 create
    policer 2
exit
fc l1 create
    policer 1
exit
dscp "ef" fc "af"
dotlp 3 fc "l2"
dotlp 5 fc "l1" priority low
exit
```

- A. 10000 Kbps
- B. 15000 Kbps
- C. 20000 Kbps



D. 30000 Kbps

Correct Answer: D

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## QUESTION 2

Which of the following statements about the default scheduler in the Nokia 7750 SR is TRUE?

- A. A queue will be serviced as expedited if all of the forwarding classes mapped to it are expedited, regardless of its configured type.
- B. A queue will be serviced as best-effort if all of the forwarding classes mapped to it are best-effort, regardless of its configured type.
- C. A queue will be serviced as expedited if at least one of the forwarding classes mapped to it is expedited, regardless of its configured type.
- D. A queue will be serviced as expedited if its type is configured as expedited, regardless of the forwarding classes mapped to it.

Correct Answer: A

---

## QUESTION 3

```
*A:R1>config>qos >sap-ingress# info
```

---

```
—— Output omitted ——
queue 5 create
    rate 4000 cir 2000
exit
queue 6 create
    rate 10000 cir 5000
exit
fc af create
    queue 5
exit
fc ef create
    queue 6
exit
```

---

Based on the image shown above, and assuming that the default scheduler of the Nokia 7750 SR is on an IOM2 card, in which order will packets be scheduled?

- A. Queue 6 within-CIR packets, then queue 5 within-CIR packets, then queue 5 and queue 6 above-CIR packets in round-robin.
- B. Queue 6 within-CIR packets, then queue 5 within-CIR packets, then queue 5 and queue 6 above-CIR packets in



biased round-robin.

C. Queue 6 within-CIR packets, then queue 5 within-CIR packets, then queue 6 above-CIR packets, and finally queue 5 above-CIR packets.

D. Queue 6 and queue 5 within-CIR packets in biased round-robin, then queue 5 and queue 6 above-CIR packets in round-robin.

Correct Answer: B

---

#### QUESTION 4

An IOM3 card of a Nokia7750 SR is enabled with the default scheduler and the policy shown in the image is applied to an access port on this card. In which order will packets be scheduled out of the queues?

```
R1>config>qos>sap-ingress# info
```

```
-----  
---- Output omitted ----  
queue 3 create  
    rate 10000 cir 4000  
exit  
queue 4 create  
    rate 4000 cir 1000  
exit  
fc ef create  
    queue 3  
exit  
fc h1 create  
    queue 4  
exit  
fc l1 create  
    queue 3  
exit
```

A. Queue 3 within-CIR packets, then queue 4 within-CIR packets, then queue 3 and queue 4 above-CIR packets in round-robin.

B. Queue 4 within-CIR packets, then queue 3 within-CIR packets, then queue 3 and queue 4 above-CIR packets in round-robin.

C. Queue 3 within-CIR packets, then queue 4 within-CIR packets, then queue 3 above-CIR packets, and finally queue 4 above-CIR packets.

D. Queue 4 within-CIR packets, then queue 3 within-CIR packets, then queue 4 above-CIR packets, and finally queue 3 above-CIR packets.



Correct Answer: B

---

#### QUESTION 5

Which of the following statements BEST describes where shaping mechanisms should be applied?

- A. On all ports on the Nokia 7750 SR.
- B. At the junction of high-speed to low-speed links or at places of traffic aggregation.
- C. At the junction of low-speed to high-speed links or at places of traffic aggregation.
- D. On low-speed WAN links.
- E. Nowhere. Shaping is only performed in hardware and serviced in a round-robin.

Correct Answer: B

---

#### QUESTION 6

Which following statements about the four-step QoS process (classification, queuing, scheduling, and marking/remarking) executed for every packet entering a Nokia 7750 SR is TRUE?

- A. The process happens only before the packet goes through the switching fabric.
- B. The process happens only before the packet goes onto the egress port.
- C. Marking/remarking the packets is for future classification.
- D. Marking/remarking the packets will occur right after classification of the packet.

Correct Answer: D

---

#### QUESTION 7

Forwarding sub-classes are configured in the context of which QoS policy type?

- A. Network
- B. Scheduler
- C. Slope
- D. SAP-ingress
- E. Network queue

Correct Answer: D

---

**QUESTION 8**

How many bits does DSCP use to provide QoS marking options?

- A. 8
- B. 16
- C. 6
- D. 4
- E. 3

Correct Answer: C

---

**QUESTION 9**

The network QoS policy shown below is applied properly to a Nokia 7750 SR acting as a transit Label Switch Router (LSR) for a given MPLS tunnel. A packet is received inside the MPLS tunnel with EXP=4, dot1p=4, and DSCP=AF. Which forwarding class is assigned to this packet?

```
R2>config>qos>network# info
-----
      ingress
        default action fc l2 profile out
        ler-use-dscp
        dscp af fc h1 profile in
        lsp-exp 4 fc af profile out
        dot1p 4 fc be profile in
      exit
    egress
    exit
-----
```

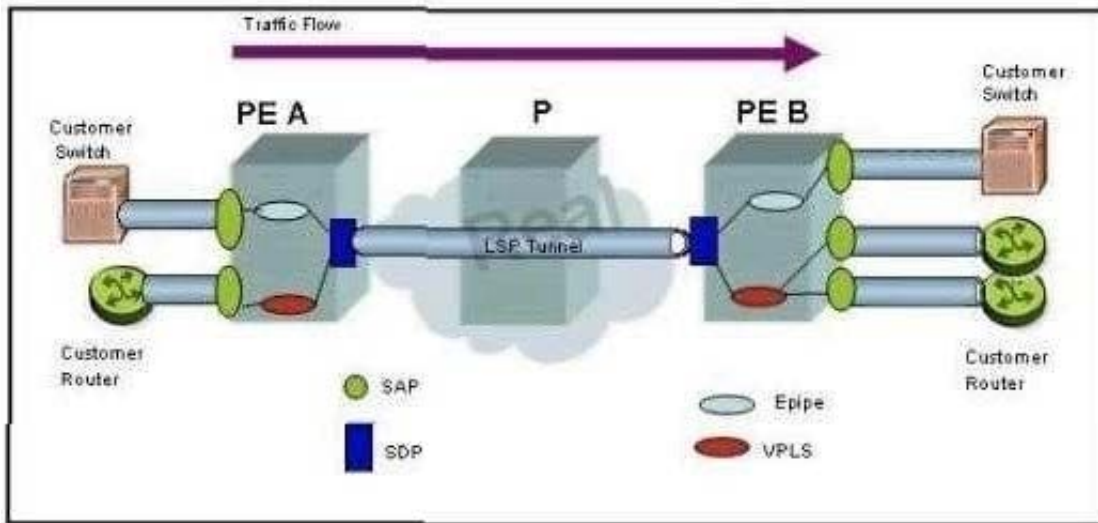
- A. L2
- B. H1
- C. AF
- D. BE

Correct Answer: B

---

**QUESTION 10**

Click the exhibit button below. The service provider has both a VLL (epipe) service and a VPLS, as shown in the diagram below.



At router PE B, traffic arriving from both services will have the same network-queue policy applied.

- A. TRUE
- B. FALSE

Correct Answer: B

#### QUESTION 11

How does an IOM3 improve the queue usage over an IOM2 in a Nokia 7750 SR? (Choose two)

- A. The IOM3 adds more memory to both forwarding complexes which increases the total number of queues available.
- B. The IOM3 only contains a single forwarding complex which reduces the number of queues used.
- C. The IOM3 allows multiple forwarding classes to be assigned to a single queue.
- D. The IOM3 allows queues to be dynamically allocated between ingress and egress.
- E. The IOM3 has a larger CPU capable of tracking active hardware queue utilization and adjusting memory allocation accordingly.

Correct Answer: BD

#### QUESTION 12

By default, how does a hybrid port on a Nokia 7750 SR share its allocated buffer space between access and network pools?

- A. All buffer space is initially allocated to access pools, and some of it is reallocated to network pools if network interfaces are configured on it.
- B. All buffer space is initially allocated to network pools, and some of it is reallocated to access pools if service SAPs are configured on it.





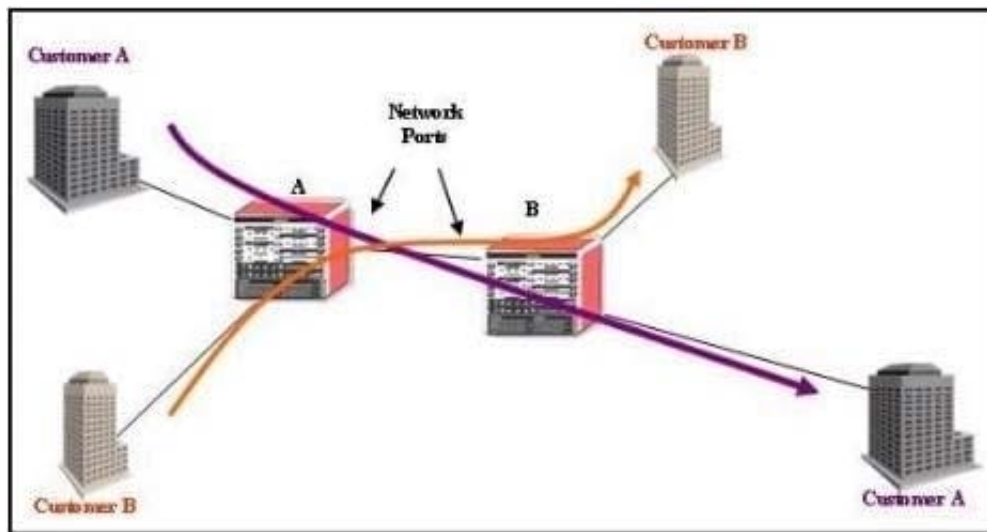
C. Buffer space is allocated 50% for access pools and 50% for network pools.

D. Buffer space is allocated 25% for access pools and 75% for network pools.

Correct Answer: C

### QUESTION 13

Click the exhibit button below. Each router is interconnected by a single GigE link, as shown in the diagram below.



Note: The arrows show the direction of traffic flow.

Traffic from Customer A and Customer B that is classified to the same forwarding class is queued together at the ingress of Router B.

A. True

B. False

Correct Answer: A

### QUESTION 14

Which priority-mode queue parameter may influence both the profile marking, and scheduling priority of a queue?

A. PIR

B. CIR

C. MBS

D. burst-limit

Correct Answer: B





#### QUESTION 15

Which of the following CANNOT be used as external marking bits?

- A. IP Precedence
- B. Dot1p
- C. Forwarding class
- D. EXP

Correct Answer: C

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