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Vendor: Alcatel-Lucent

Exam Code: 4A0-107

Exam Name: Alcatel-Lucent Quality of Service

Version: Demo

QUESTION 1

The IP ToS field consists of _____ bits, of which _____ are used. The _____ most significant (first) bits define precedence.

- A. 8, 6, 3
- B. 8, 8, 6
- C. 16, 8, 4
- D. 8, 6, 4
- E. 24, 16, 8

Correct Answer: A

QUESTION 2

Which of the following are examples of metrics for QoS?

- A. Signal degradation, attenuation, line loss
- B. Latency, FIFO, WRED
- C. Delay, jitter, packet loss
- D. SNR, queue depth, latency
- E. Attenuation, dispersion, latency

Correct Answer: C

QUESTION 3

What is the 6-bit binary representation of DSCP value AF21?

- A. 010011
- B. 100010
- C. 010001
- D. 001100
- E. 010010

Correct Answer: E

QUESTION 4

Which of the following statements regarding DSCP bits are TRUE? (Choose three)

- A. The three most significant (first) bits define 8 forwarding classes.
- B. The three least significant (last) bits of the DSCP specify the drop probability.
- C. The full 8 bits of the TOS field are used for DSCP.
- D. To convert DSCP to IP precedence, the three most significant (first) bits are matched.
- E. DSCP provides for eight drop probabilities.

Correct Answer: ABD

QUESTION 5

Which of the following can be used as classifiers of customer traffic? (Choose three)

- A. DSCP value
- B. 802.1p value
- C. IP DF bit
- D. TCP/UDP port numbers
- E. HTML version number

Correct Answer: ABD

QUESTION 6

Which of the following are characteristics of DSCP? (Choose two)

- A. DSCP is part of the Layer 3 header.
- B. DSCP is a 6-bit field.
- C. DSCP specifies eight different priorities.
- D. DSCP specifies four precedence levels.
- E. DSCP is part of the Layer 2 header
- F. DSCP specifies 128 different per-hop behaviors.

Correct Answer: AB

QUESTION 7

What is an SLA? (Choose two)

- A. An SLA is used to provide automated, real-time testing and alarming for throughput, latency, and jitter across a provider's network.
- B. An SLA is an agreement between a customer and a provider that dictates the treatment of customer traffic across the provider's network.
- C. An SLA allows customers to control all traffic within the service provider's network by prioritizing their traffic over others as desired.
- D. An SLA allows a customer to pre-mark traffic and ensure that traffic is treated as per the agreement within the provider's network.
- E. An SLA is a standard set of network QoS policies that a provider shares to all its customers, allowing them to better understand the treatment of traffic within the provider's network.

Correct Answer: BD

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

Which of the following are major components of QoS functionality on the Alcatel-Lucent 7750 SR? (Choose three)

- A. Microflow reservations using RSVP
- B. DSCP to EXP translation
- C. Traffic classification
- D. Automatic profiling and policy configuration
- E. Buffer memory management
- F. Traffic scheduling

Correct Answer: CEF

QUESTION 10

Which of the following are characteristics of 802.1p? (Choose two)

- A. 802.1p adds 16 bits to the Layer 2 header,

- B. 802.1p adds 16 bits to the Layer 3 header.
- C. 802.1p specifies 64 different priority levels.
- D. 802.1p uses a field in the 802.1Q header.
- E. 802.1p uses a field in the Layer 3 IP header.
- F. 802.1p defines a 3-bit Class of Service field.

Correct Answer: DF

QUESTION 11

Which of the following BEST describes a SAP when regarding QoS?

- A. A point in the network where EXP bits can be mapped to one of eight predefined FCs, each one with its own queue.
- B. A logical point in a service tunnel where all of customer traffic is aggregated.
- C. A point at which the initial classification of customer traffic occurs.
- D. A point in the network where QoS parameters are discarded in favor of lower-level hardware queuing functions, such as LLI (Link Layer Interleave).
- E. A point in the network where traffic flows from multiple different services are queued together, based on forwarding class.

Correct Answer: C

QUESTION 12

Individual application streams are considered microflows, whereas _____ are considered macroflows.

- A. SAPs
- B. SDPs
- C. Services
- D. Queues
- E. Schedulers
- F. Forwarding classes

Correct Answer: F

QUESTION 13

What is the maximum number of SAP-ingress policies that can be applied on a SAP?

- A. 1
- B. 2
- C. 3
- D. 4
- E. 5
- F. 8

Correct Answer: A

QUESTION 14

Click the exhibit button below.

Based on the configuration shown below, name the forwarding class to be associated with a TCP packet encapsulated inside an Ethernet frame that arrives on SAP 1/1/5 with the following characteristics:

Destination IP address = 120.110.1.1

TCP port number = 23

DSCP value = nc1

Dot1pvalue = 3

- A. H2

- B. NC
- C. L2
- D. EF
- E. H1
- F. BE

Correct Answer: C

QUESTION 15

Which of the following are possible criteria for classifying packets at the network port ingress on the Alcatel-Lucent 7750 SR? (Choose three)

- A. The EXP bits in the MPLS header.
- B. The packet's source and destination IP addresses.
- C. The packet's DSCP bits.
- D. The dot1p bits in the frame header.
- E. The ID of an SDP that is transporting the packet.

Correct Answer: ACD

QUESTION 16

A default network policy is applied to all router interfaces associated with network ports.

- A. TRUE
- B. FALSE

Correct Answer: A

QUESTION 17

Which of the following are NOT ingress matching criteria for a network policy? (Choose two)

- A. TCP port numbers
- B. LSP EXP
- C. DSCP
- D. Source and destination IP addresses
- E. Dot1p priority

Correct Answer: AD

QUESTION 18

Click the exhibit button below. A partial SAP-ingress policy configuration is shown below. A UDP video stream is sent to a PC with IP address 192.168.1.100. Given the SAP-ingress policy, to which forwarding class is the traffic matched?

```

A:srl1>config>qos>sap-ingress# info detail
-----
---- output omitted -----
      ip-criteria
        entry 10 create
        match dst-ip 192.168.1.99/32
        exit
        action fc "af"
      exit
      entry 20 create
      match protocol udp
      exit
      action fc "ef"
    exit
    entry 30 create
    match protocol udp
      dst-ip 192.168.1.100/32
    exit
    action fc "h2"
  exit
  entry 40 create
  match protocol icmp
  exit
  action fc "h1"
exit
default-fc "be"
-----

```

- A. AF
- B. EF
- C. H2
- D. H1
- E. BE

Correct Answer: B

QUESTION 19

On an Alcatel-Lucent IOM 3, how is buffer memory allocated per forwarding complex?

- A. 512 MB ingress, 512 MB egress
- B. 256 MB ingress, 256 MB egress
- C. 1 GB dynamically allocated between ingress and egress.
- D. 768 MB dynamically allocated between ingress and egress.
- E. 768 MB, with a minimum of 256 MB ingress and egress, and an additional 256 MB dynamically allocated.

Correct Answer: D

QUESTION 20

WRED can be used to help avoid TCP slow-start synch problems.

- A. TRUE
- B. FALSE

Correct Answer: A

QUESTION 21

What is the maximum number of forwarding subclasses a forwarding class can have?

- A. 3
- B. 64
- C. 72
- D. 16
- E. 56

Correct Answer: E

QUESTION 22

Click the exhibit button below. Given the slope-policy (below), which of the following statements are TRUE? (Choose two)

```
A:srl1>config>qos>slope-policy# info detail
-----
description "Slope policy"
high-slope
  start-avg 50
  max-avg 70
  max-prob 60
  no shutdown
exit
low-slope
  start-avg 10
  max-avg 60
  max-prob 80
  no shutdown
exit
time-average-factor 1
-----
```

- A. All out-of-profile traffic will be dropped before that of any in-profile traffic.
- B. The discard probability slope of an in-profile traffic is steeper than that of an out-of-profile traffic.
- C. When the shared buffer utilization reaches 55%, both in-profile and out-of-profile packets may be dropped.
- D. The maximum probability with which an out-of-profile packet can be dropped is higher than that of an in-profile packet.
- E. When the shared buffer utilization is at 61%, only in-profile packets are currently in the shared buffer pool.

Correct Answer: CD

QUESTION 23

Click the exhibit button below. Given the SAP-ingress policy, which of the following statements are FALSE? (Choose three)

- A. Queue 5 is using priority mode.
- B. UDP traffic can be serviced at a maximum rate of 20 Mbps.
- C. Ping traffic is place in queue 5.
- D. Queues 5 and 6 will receive equal portions of any remaining available bandwidth to meet their above-CIR bandwidth requirements.
- E. Queue 3 is scheduled before queue 5.

Correct Answer: BDE

QUESTION 24

Which of the following should be performed if a service provider does not want packets to make use of the

shared buffer space when queued?

- A. Set the CBS to 0.
- B. Set the MBS equal to the CBS.
- C. Set the high-priority-only equal to the MBS.
- D. Set the MBS to 0.
- E. Set the high-priority-only to 0.

Correct Answer: B

QUESTION 25

Which of the following statements BEST describes an MBS parameter?

- A. It specifies the maximum rate at which a queue can be serviced.
- B. It specifies the maximum depth of a queue beyond which packets will be dropped.
- C. It specifies the portion of a queue that is taken from the reserved buffer pool.
- D. It specifies the threshold beyond which only in-profile packets will be queued.
- E. It specifies the peak bandwidth that can be attained by the incoming traffic.

Correct Answer: B

QUESTION 26

How many queues are available for use on service egress within a VPLS service?

- A. 1 multipoint and 8 unicast.
- B. 8 queues, regardless of traffic type.
- C. 8 unicast and 24 multipoint.
- D. 8 unicast and 8 multipoint.
- E. 16 queues, distributed as desired.

Correct Answer: B

QUESTION 27

If traffic is destined to queue 5, which has a high-priority-only value of 0 in the network-queue policy, all out-of-profile packets will be dropped.

- A. TRUE
- B. FALSE

Correct Answer: B

QUESTION 28

On the Alcatel-Lucent 7750 SR, where can network-queue policies be applied? (Choose two)

- A. On the network egress port.
- B. On the SDP.
- C. On the access ingress port.
- D. On the egress MDA.
- E. On the SAP.
- F. On the ingress MDA.

Correct Answer: AF

QUESTION 29

Click the exhibit button below. Given the output of the #show pools 1/2/2 network-egress command on a GigE port, what can the service provider deduce? (Choose two)

- A. QoS is not configured on the router.
- B. Packets in forwarding classes "be" and "12" are being queued.
- C. Traffic belonging to forwarding class "ef" is not experiencing queuing delays.
- D. Traffic belonging to forwarding class "11" will never make use of the shared buffer pool.
- E. Out-of-profile traffic in the shared buffer pool is being dropped.

Correct Answer: BC

QUESTION 30

A queue is configured with the following attributes:

MBS = 10KB
CBS = 5KB
High-Priority-Only = 20%

Assume that there is no CBS overbooking and that the slope-policy is disabled. If the current queue depth is 3KB, what will happen to an out-of-profile packet arriving at an egress queue?

- A. It will be queued in the reserved portion of the buffer pool and remain out-of-profile.
- B. It will be queued in the reserved portion of the buffer pool if there are no in-profile packets already in the queue.
- C. It will be queued in the reserved portion of the buffer pool and be in-profile.
- D. It will be queued in the shared portion of the buffer pool but contend for shared buffer space with packets from other queues.
- E. It will be queued in the shared portion of the buffer pool but may be dropped if the buffer utilization exceeds the start-average value of the low slope.

Correct Answer: A

QUESTION 31

A physical port has three associated buffer pools. Which of the following buffer pool combinations is associated to a physical port?

- A. Access ingress, access egress, network egress
- B. Access ingress, network ingress, network egress
- C. Port ingress, port egress, shared bi-directional
- D. Port ingress, port egress, network egress
- E. Port ingress, network ingress, network egress

Correct Answer: A

QUESTION 32

Which of the following are the minimum requirements needed to classify traffic marked with DSCP AF11, AF12, and AF13 into the AF forwarding class and provide fair treatment to the drop precedence settings? (Choose three)

- A. Profile mode queues
- B. Priority mode queues
- C. 1 queue
- D. 3 queues
- E. 3 forwarding classes
- F. 1 forwarding class, with 2 subclasses
- G. 1 forwarding class, with 3 subclasses

Correct Answer: ACF

QUESTION 33

Forwarding subclasses are only relevant to, and are therefore applied within the context of, a

_____policy.

- A. network
- B. scheduling
- C. slope
- D. SAP-ingress
- E. network-queue

Correct Answer: D

QUESTION 34

To manage the shared buffer space at network ports, slope policies are applied on _____ for the ingress direction, and on _____ or _____ for the egress direction.

- A. Interfaces, ports, SAPs
- B. Ports, ports, MDAs
- C. MDAs, MDAs, ports
- D. Interfaces, interfaces. MDAs
- E. MDAs, ports, interfaces

Correct Answer: C

QUESTION 35

Click the exhibit button below. A service provider has applied the SAP-ingress policy configuration below on his customer's SAP. The service provider notices that all of the customer's traffic is being dropped at the SAP-ingress. Which of the following actions can resolve the problem, if applied on its own? (Choose three)

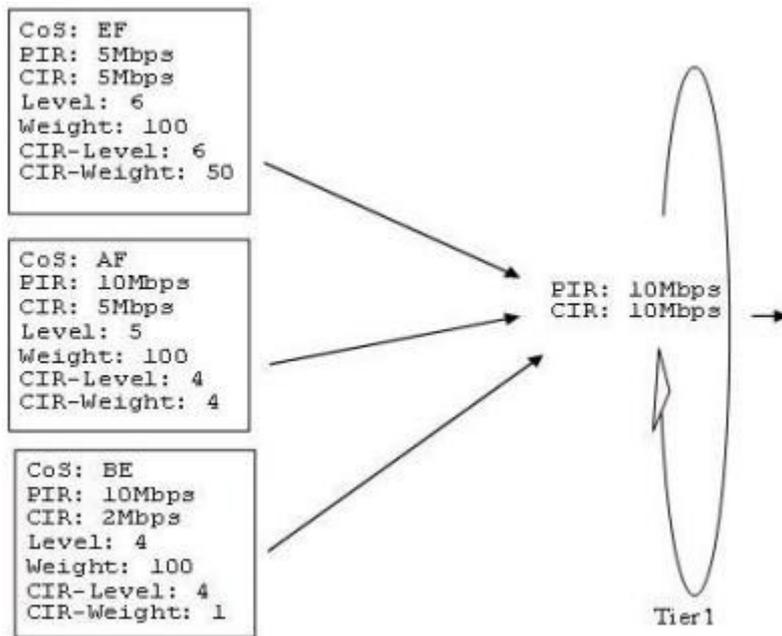
```
A:srl1a>config>qos>sap-ingress# info
-----
queue 1 create
exit
queue 3 profile-mode create
    rate 50000 cir 0
    high-prio-only 100
exit
queue 11 multipoint create
exit
fc "af" create
    queue 3
    profile out
exit
default-fc af
-----
```

- A. Set the CIR of queue 3 to a non-zero value corresponding to the customer's expected bandwidth requirements.
- B. Set queue 3 to use priority mode.
- C. Set the traffic classification of packets to in-profile.
- D. Set the high-priority-only value to 0.
- E. Map AF traffic to queue 1

Correct Answer: CDE

QUESTION 36

Click the exhibit button below. Given the scheduler-policy (below), how much bandwidth can the best-effort traffic receive (PIR and CIR) when the ingress rate of each queue is 10Mbps?



- A. PIR = 4Mbps. CIR = 1Mbps
- B. PIR = 1Mbps, CIR = 1 Mbps
- C. PIR = 10Mbps, CIR = 1Mbps
- D. PIR = 5Mbps, CIR = 1.25Mbps
- E. PIR = 1.25Mbps, CIR = 1.25Mbps

Correct Answer: B

QUESTION 37

In the context of hierarchical scheduling, a scheduler is configured with a CIR weight of 0. Which of the following statements is TRUE?

- A. The scheduler will be allocated its "within CIR" bandwidth before all other children at the same level have received their "within CIR" bandwidth.
- B. The scheduler will be allocated its "within CIR" bandwidth after all other children at the same level have received their "within CIR" bandwidth.
- C. The scheduler will be allocated its "within CIR" bandwidth after all other children at all levels have received their "within CIR" bandwidth.
- D. The scheduler will not be allocated its "within CIR" bandwidth.

Correct Answer: D

QUESTION 38

Which of the following statements describe the primary objectives of the policing of traffic flows on the Alcatel-Lucent 7750 SR? (Choose two)

- A. Ensure that traffic flows conform to their traffic profile.
- B. Log violations of metered traffic flows exceeding the CIR value set on the entity across which the traffic is moving.
- C. Provide fairness between traffic flows, so that conforming (in-profile) traffic flows are not starved of bandwidth and/or buffer space by non-conforming (out-of-profile) flows.
- D. Minimize packet loss and reduce end to end latency.
- E. Ensure that variable latencies do not cluster short bursts of originally conforming packets and render them nonconforming.

Correct Answer: AC

QUESTION 39

Which of the following entities can scheduler policies be applied to? (Choose two)

- A. Network ingress port
- B. Epipe ingress SAP
- C. ES egress SAP
- D. Ingress MDA
- E. VPRN ingress interface
- F. Shared buffer space

Correct Answer: BC

QUESTION 40

It is necessary for Tier 1 schedulers to obtain bandwidth from a higher tier scheduler.

- A. TRUE
- B. FALSE

Correct Answer: B

QUESTION 41

In which of the following scenarios is the egress port scheduler useful? (Choose two)

- A. A customer is complaining that his VoIP traffic is being dropped even though it is sending the correct DSCP markings. Packets are not being dropped on ingress.
- B. A customer is complaining that his VoIP traffic is being dropped even though it is sending the correct DSCP markings. Packets are being dropped on ingress.
- C. A commercial builder has requested numerous dot1Q epipes, VPRNs, and VPLS services to a business park and is only paying up to a maximum 200Mbps.
- D. An equipment manufacturer has requested a NULL epipe service that will transparently pass dot1Q between the new location and national headquarters.

Correct Answer: AC

QUESTION 42

Policing improves bandwidth utilization by using buffering to absorb high bursts of traffic.

- A. TRUE
- B. FALSE

Correct Answer: B

QUESTION 43

On the Alcatel-Lucent 7750 SR, which of the following QoS-related policies can be configured on a SAP? (Choose three)

- A. The slope-policy
- B. The SAP-ingress policy
- C. The SAP-egress policy
- D. The network-queue policy
- E. The scheduler-policy

Correct Answer: BCE

QUESTION 44

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

- A. On all ports on the Alcatel-Lucent 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 45

When using an egress port scheduler, on which scheduling loop are orphaned queues serviced?

- A. Level 8 within CIR.
- B. Level 8 between CIR and PIR.
- C. Level 8, once all PIR is serviced.
- D. Level 1 within CIR.
- E. Level 1 between CIR and PIR.
- F. Level 1, once all PIR is serviced.

Correct Answer: C

QUESTION 46

Which of the following statements regarding the egress port scheduler is TRUE?

- A. The egress port scheduler can have up to 17 children spread across 8 levels.
- B. Multiple egress port schedulers can be assigned to a single port with many HCoS children.
- C. Multiple HCoS policies can be children of a single port scheduler.
- D. Multiple egress port schedulers can be children of a single HCoS scheduler.

Correct Answer: C

QUESTION 47

Traffic assigned to forwarding classes is placed into queues, while the contents of the queues are serviced in a controlled manner using_____.

- A. WRED
- B. shapers
- C. schedulers
- D. markers
- E. weighted fair queues (WFQ)

Correct Answer: C

QUESTION 48

To implement Hierarchical-QoS (Multi-tiered scheduling), which of the following actions must be undertaken? (Choose three)

- A. H-QoS capabilities must be enabled globally on the router
- B. A scheduler-policy must be configured.
- C. The queues in the SAP-ingress and SAP-egress policies do not require additional configuration attributes to make use of the hierarchical schedulers.
- D. The network queue policy must be configured to make use of the scheduler-policy.
- E. The scheduler-policy must be referenced in the SAP-ingress and SAP-egress policies.
- F. The scheduler-policy must be applied on the service SAP.

Correct Answer: BEF

QUESTION 49

Which of the following statements regarding policing and shaping on the Alcatel-Lucent 7750 SR are

TRUE? (Choose two)

- A. The larger the configured MBS value, the lower the amount of shaping performed.
- B. When policing is enabled on the SAP-ingress, all traffic is considered as in-profile.
- C. Setting the CIR to 1000 and the PIR to max will enable shapeless policing at 1 Mbps within the SAP-egress policy.
- D. Configuring MBS to equal CBS will disable shaping.
- E. Setting the CIR and PIR to equal values disables soft-policing.

Correct Answer: BE

QUESTION 50

Click the exhibit button below. Given this scheduler-policy configuration, which of the following can be said about the scheduler called "high"? (Choose two)

```
A:srl1a>config>qos>scheduler-policy# info
-----
    tier 1
      scheduler "Root" create
        description "This is the root scheduler"
        rate 50000 cir 50000
      exit
    exit
    tier 2
      scheduler "high" create
        description "High priority traffic"
        parent "Root" level 5 cir-level 5
        rate 30000 cir 25000
      exit
    tier 3
      scheduler "low" create
        description "Low priority traffic"
        parent "high" level 2 cir-level 2
        rate 50000 cir 10000
      exit
    exit
-----
```

- A. It is a parent scheduler.
- B. It is the top-level scheduler.
- C. It can allocate up to 50 Mbps of bandwidth to scheduler "low" since the bandwidth is not used by another Tier 3 scheduler.
- D. It is a child scheduler.
- E. It can only have queues as children.

Correct Answer: AD

QUESTION 51

At which points can traffic be marked or remarked on the Alcatel-Lucent 7750? (Choose two)

- A. SAP-ingress only
- B. SAP-egress only
- C. SAP-ingress and SAP-egress
- D. Network ingress
- E. Network egress

Correct Answer: CE

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