

# JN0-649<sup>Q&As</sup>

Enterprise Routing and Switching Professional (JNCIP-ENT)

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### QUESTION 1

Which address range is used for source-specific multicast?

- A. 239.0.0.0/8
- B. 233.0.0.0/8
- C. 232.0.0.0/8
- D. 224.2.0.0/16

Correct Answer: C

PIM SSM introduces new terms for many of the concepts in PIM sparse mode. PIM SSM can technically be used in the entire 224/4 multicast address range, although PIM SSM operation is guaranteed only in the 232/8 range (232.0.0/24 is reserved).

The new SSM terms are appropriate for Internet video applications and are summarized in Table 1.

<https://www.juniper.net/documentation/us/en/software/junos/multicast/topics/concept/multicast-pim-ssm.html>

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### QUESTION 2

You are asked to troubleshoot voice quality issues on your newly implement VoIP network. You notice that the voice packets are being dropped. You have verified that the packets are correctly marked for expedited forwarding queue.

Referring to the exhibit, what must you configure to solve the problem?

```
[edit]
user@R1# show class-of-service
classifiers {
  dscp voip {
    import default;
  }
}
interfaces {
  ge-1/0/0 {
    unit 0 {
      classifiers {
        dscp voip;
      }
    }
  }
}
user@R1> show interfaces ge-1/0/0 extensive
Physical interface: ge-1/0/0, Enabled, Physical link is Up
Interface index: 154, SNMP ifIndex: 527, Generation: 157
Link-level type: Ethernet, MTU: 1514, MRU: 1522, LAN-PHY mode, Speed: 1000mbps, BFDU Error: None, Loop Detect PDU Error:
None,
Ethernet-Switching Error: None, MAC-REWRITE Error: None, Loopback: Disabled, Source filtering: Disabled, Flow control:
Enabled,
Auto-negotiation: Enabled, Remote fault: Online
Pad to minimum frame size: Disabled
Media type: Copper
Device flags : Present Running
Interface flags: SNMP-Traps Internal: 0x4000

Auto-negotiation: Enabled, Remote fault: Online
Pad to minimum frame size: Disabled
Media type: Copper
Device flags : Present Running
Interface flags: SNMP-Traps Internal: 0x4000
Link flags : None
CoS queues : 8 supported, 8 maximum usable queues
Schedulers : 0
Hold-times : Up 0 ms, Down 0 ms
Damping : half-life: 0 sec, max-suppress: 0 sec, reuse: 0, suppress: 0, state: unsuppressed
Current address: 4c:96:14:93:9a:95, Hardware address: 4c:96:14:93:9a:95
Last flapped : 2022-05-16 11:44:33 EDT (21:23:22 ago)
Statistics last cleared: Never
Traffic statistics:
  Input bytes : 894761 0 bps
  Output bytes : 681004 240 bps
  Input packets: 13083 0 pps
  Output packets: 11321 0 pps
IPv6 transit statistics:
  Input bytes : 0
  Output bytes : 0
  Input packets: 0
  Output packets: 0
Dropped traffic statistics due to STP State:
  Input bytes : 0
  Output bytes : 0
  Input packets: 0
  Output packets: 0
Input errors:

Errors: 0, Drops: 0, Framing errors: 0, Runts: 0, Policed discards: 0, L3 incompletes: 0, L2 channel errors: 0, L2
mismatch timeouts: 0,
FIFO errors: 0, Resource errors: 0
Output errors:
Carrier transitions: 1, Errors: 0, Drops: 0, Collisions: 0, Aged packets: 0, FIFO errors: 0, HS link CRC errors: 0,
MTU errors: 0,
Resource errors: 0
Egress queues: 8 supported, 4 in use
Queue counters: Queued packets Transmitted packets Dropped packets
0 430544 8126 456123
1 4294 1654 2817
2 0 0 0
3 11194 11194 0
Queue number: Mapped forwarding classes
0 best-effort
1 expedited-forwarding
2 assured-forwarding
3 network-control
Active alarms : None
Active defects : None
PCS statistics Seconds
Bit errors 0
Errored blocks 0
Ethernet FEC statistics Errors
FEC Corrected Errors 0
```

```
FEC Uncorrected Errors          0
FEC Corrected Errors Rate      0
FEC Uncorrected Errors Rate    0
MAC statistics:
  Receive          Transmit
Total octets      947941    752356
Total packets    13084     11320
Unicast packets   92         93
Broadcast packets 37         34
Multicast packets 12955     11193
CRC/Align errors  0           0
FIFO errors       0           0
MAC control frames 0           0
MAC pause frames  0           0
Oversized frames  0           0
Jabber frames     0           0
Fragment frames   0           0
VLAN tagged frames 0           0
Code violations   0           0
Total errors      0           0
Filter statistics:
Input packet count      13083
Input packet rejects    0
Input DA rejects        0
Input SA rejects        0
Output packet count          11320
Output packet pad count     0
Output packet error count   0
CAM destination filters: 0, CAM source filters: 0
Autonegotiation information:

Fragment frames          0
VLAN tagged frames      0
Code violations          0
Total errors             0
Filter statistics:
Input packet count      13083
Input packet rejects    0
Input DA rejects        0
Input SA rejects        0
Output packet count          11320
Output packet pad count     0
Output packet error count   0
CAM destination filters: 0, CAM source filters: 0
Autonegotiation information:
Negotiation status: Complete
Link partner:
  Link mode: Full-duplex, Flow control: Symmetric/Asymmetric, Remote fault: OK
Local resolution:
  Flow control: Symmetric, Remote fault: Link OK
Packet Forwarding Engine configuration:
Destination slot: 0 (0x00)
CoS information:
Direction : Output
CoS transmit queue      Bandwidth      Buffer Priority  Limit
                        %      bps      %      usec
0 best-effort           95      950000000    95      0      low  none
3 network-control       5       50000000     5       0      low  none
Interface transmit statistics: Disabled
```

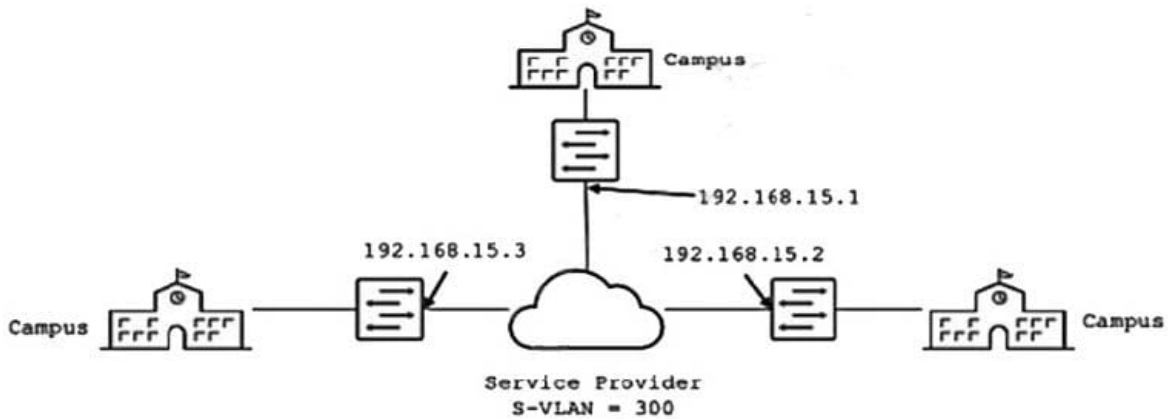
- A. You must configure a multifield classifier to put the VoIP traffic in the correct queue.
- B. You must configure a rewrite rule to ensure that the traffic is scheduled properly in the device.
- C. You must configure a scheduler to allocate bandwidth to the expedited forwarding queue.
- D. You must configure a policer to ensure that the queue is not being starved.

Correct Answer: C

**QUESTION 3**

You want to provide Layer 2 connectivity between campus sites using Ethernet switches through a metro Ethernet service provider who is using Q-in-Q tagging on their network.

Referring to the exhibit, what are two design considerations in this environment? (Choose two.)



- A. VXLAN could be implemented on your network across this service provider network.
- B. Each campus switch shown must have a C-Tag 300 configured.
- C. L2PT is required on the SP network to support the spanning tree protocol.
- D. Each campus switch shown must have S-Tag 300 configured.

Correct Answer: CD

<https://www.juniper.net/documentation/us/en/software/junos/multicast-l2/topics/ref/statement/layer2-protocol-tunneling-edit-vlans-l2pt-ex-series.html>

**QUESTION 4**

You are troubleshooting a BGP connection.

Referring to the exhibit, which two statements are correct? (Choose two.)

```
user@router> show log messages | match notification
Dec 22 19:22:29 router rpd[7394]: bgp_process_open:4185: NOTIFICATION sent to
192.168.1.4 (Internal AS 65000): code 2 (Open Message Error) subcode 2 (bad peer AS
number), Reason: peer 192.168.1.4 (Internal AS 65000) claims 65100, 65000 configured
Dec 22 19:22:33 router rpd[7394]: bgp_pp_rcv:4798: NOTIFICATION sent to 192.168.1.4+
56774 (proto): code 2 (Open Message Error) subcode 2 (bad peer AS number), Reason: no
group for 192.168.1.4+56774 (proto) from AS 65100 found (peer as mismatch)in master
(ge-0/0/1.0), dropping him
Dec 22 19:23:29 router kernel: tcp_auth_ok: Packet from 192.168.1.5:64047 missing MD5
digest
Dec 22 19:23:30 router kernel: tcp_auth_ok: Packet from 192.168.1.6:56201 missing MD5
digest
---(more)---
```

- A. Packetfragmentation is preventing the session from establishing.
- B. The 192.168.1.5 peer has a misconfigured MD5 key.
- C. The ge-0/0/1 interface is disabled.
- D. The 192.168.1.4 peer has a misconfigured autonomous system number.

Correct Answer: BD

**QUESTION 5**

Referring to the exhibit, which two statements are correct? (Choose two.)

```
user@switch> show poe interface
Interface      Admin      Oper      Max      Priority    Power      Class
status        status    power
ge-0/0/0      Enabled    OFF      15.4W    Low        0.0W      not-applicable
ge-0/0/1      Enabled    OFF      15.4W    Low        0.0W      not-applicable
ge-0/0/2      Enabled    OFF      15.4W    Low        0.0W      not-applicable
ge-0/0/3      Enabled    OFF      15.4W    Low        0.0W      not-applicable
ge-0/0/4      Enabled    OFF      15.4W    Low        0.0W      not-applicable
ge-0/0/5      Enabled    OFF      15.4W    Low        0.0W      not-applicable
ge-0/0/6      Enabled    OFF      15.4W    Low        0.0W      not-applicable
ge-0/0/7      Enabled    OFF      15.4W    Low        0.0W      not-applicable
ge-0/0/8      Enabled    OFF      15.4W    Low        0.0W      not-applicable
ge-0/0/9      Enabled    OFF      15.4W    Low        0.0W      not-applicable
ge-0/0/10     Enabled    ON       25.4W(L) Low        11.0W     4
ge-0/0/11     Enabled    ON       25.4W(L) High       11.4W     4
(L) LLDP-negotiated value on the port.
user@switch> show poe controller
Controller  Maximum      Power      Guard      Management  Status      Lldp
index      power        consumption band      Class      AT_MODE     Priority
0          100.00W     22.40W     10W       Class      Disabled

```

- A. The maximumwattage that this switch can allocate to attached Ethernet devices is 100 watts.
- B. If the total power consumption exceeds 90 watts, the ge-0/0/11 interface will continue to receive power.
- C. PoE is not enabled on the ge-0/0/0 interface.
- D. The ge-0/0/10 interface supports PoE+.

Correct Answer: AD

POE is enabled in the interface ge-0/0/0 but nothing is connected to it. switch is in AT mode (poe+) and interface ge-0/0/11 supports poe+ judging by maximun wattage