



# 400-351<sup>Q&As</sup>

CCIE Wireless Written

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## QUESTION 1

Refer to exhibit. The dynamic interfaces shown above are bound to an interface group for a specific WLAN profile in the Cisco Wireless LAN Controller. You notice duplicated multicast streams on the wireless medium for the given WLAN

profile.

Which statement is correct?

```
(Cisco Controller) >show network multicast mgid summary
```

Layer2 MGID Mapping:

InterfaceName	vlanId	MGID
management	0	0
multicast01	101	12
multicast02	102	13
multicast03	103	14
multicast04	104	15

layer2 mDNS MGID Mapping:

Start mDNS Mgid.....16447

End mDNS Mgid.....20545

Layer3 MGID Mapping:

Number of Layer3 MGIDs.....4

Group address	VLAN	MGID	IGMP/MLD
239.0.1.2	101	12350	IGMP
239.0.1.2	102	12351	IGMP
239.0.1.2	103	12352	IGMP
239.0.1.2	104	12353	IGMP

- A. The controller always uses Layer 3 multicast group ID for all Layer 3 multicast traffic sent to the access point. Internet Group Management Protocol snooping should be disabled to avoid duplicate streams.
- B. The controller creates different multicast group IDs for each multicast address and VLAN, and as a result, the upstream router sends one copy for each VLAN. Enable Multicast VLAN to avoid duplicate streams.
- C. Global multicast mode and Internet Group Management Protocol snooping have not been enabled. To avoid duplicate streams, enable both.
- D. Global multicast mode, global IPv6 config, and multicast listener discovery snooping have not been enabled. Enable these to avoid duplicate streams.

Correct Answer: A



## QUESTION 2

Which two statements about the various types or DevOps tools are true? (Choose two)

- A. Puppet requires the installation of a master (server) and agents (clients) architecture for configuring systems.
- B. Salt cannot communicate with clients through general SSH, it use minions client agents only.
- C. Puppet and Chef are written in Python, Python skills are a must to operate these two.
- D. Ansible does not require agent node installation and uses SSH for performing all tasks.
- E. Chef and Puppet are much more attuned to the needs of system administrators.

Correct Answer: CE

## QUESTION 3

Refer to the exhibit.

The screenshot shows a configuration window with two sections: 'NAT Address' and 'Interface Address'. In the 'NAT Address' section, 'Enable NAT Address' is checked, and 'NAT IP Address' is set to 209.165.200.44. In the 'Interface Address' section, 'VLAN Identifier' is 0, 'IP Address' is 192.168.3.44, 'Netmask' is 255.255.255.0, and 'Gateway' is 192.168.3.1. A large diagonal watermark 'www.PassApply.com' is visible across the form.

NAT Address	
Enable NAT Address	<input checked="" type="checkbox"/>
NAT IP Address	209.165.200.44

Interface Address	
VLAN Identifier	0
IP Address	192.168.3.44
Netmask	255.255.255.0
Gateway	192.168.3.1

You enabled NAT to make sure that your WLC is publicly reachable. If other NAT parameters are left to default, which statement is true?

- A. The AP WLC discovery fails for APs in local mode using 209.165.200.44
- B. The AP WLC discovery succeeds for OEAPs joining the WLC using 192.168.3.44.



- C. The AP WLC discovery fails for APs in local mode using 192.168.3.44.
- D. The AP WLC discovery succeeds for OEAPs joining the WLC using 192.168.3.44 or 209.165.200.44.

Correct Answer: A

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#### QUESTION 4

When configuring Application Visibility and Control on the wireless controller, which two restrictions must be considered prior to AVC configuration and implementation? (Choose two.)

- A. IPv6 packet classification is not supported.
- B. The number of applications that you can apply rate limit is 9.
- C. Controller CLI support is not present for the AVC Protocol Pack feature.
- D. AVC rate limiting is not supported on the Cisco 5520 WLCs.
- E. Multicast traffic is not supported.

Correct Answer: AC

---

#### QUESTION 5

Refer to the exhibit.



```
!
interface TenGigabitEthernet2/3/2
  description wlc15
  switchport
  switchport trunk allowed vlan 172,2149-2157,2175-
2178,2182,2183,2185,2186,2300
  switchport trunk allowed vlan add 2301
  switchport mode trunk

513E.G.R046-6500-1#show run int vlan 2150
!
interface Vlan2150
  description Wireless Voice users
  ip address 10.64.0.10 255.255.255.0

513E.G.R046-6500-1#show mls qos
  QoS is enabled globally
  Policy marking depends on port_trust
  QoS ip packet dscp rewrite enabled globally
  QoS serial policing mode disabled globally
  Input mode for GRE Tunnel is Pipe mode
  Input mode for MPLS is Pipe mode
  QoS Trust state is CoS on the following interface:
  Te1/5/4 Te1/5/5 Te1/6/5 Te2/5/4 Te2/5/5 Te2/6/5 Po10 Po20
  Vlan or Portchannel(Multi-Earl) policies supported: Yes
  Egress polices supported: Yes
  QoS 10g-only mode supported: Yes [Current mode: Off]
```

Wireless voice users on VLAN 2150 report poor voice quality during heavy network usage. The WLC is configured correctly. Given the configuration in the exhibit, which possible cause of the problem is true?

- A. MLSQoS is not enabled on the switch.
- B. VLAN 2150 is not allowed on the trunkport of the switch
- C. The WLC switch port dose not trust CoS values for Voice traffic that traverses the WLC
- D. The wireless voice VLAN does not have the proper QoS settings.

Correct Answer: C

## QUESTION 6

Which two statements about verifying the switch port configurations of an access point and a wireless LAN controller are true? (Choose two.)



- A. If a guest anchor WLC is deployed, the guest client VLAN must be permitted on the switch trunk port of the anchor WLC.
- B. In central switching, client VLANs must be permitted on the switch trunk port where the AP is connected.
- C. If a guest anchor WLC is deployed, the guest client VLAN must be permitted on the switch trunk port of the foreign WLC.
- D. In local switching, client VLANs must be permitted on the switch trunk port where the AP is connected.
- E. In local switching, client VLANs must be permitted on the switch trunk port where the WLC is connected.

Correct Answer: CE

#### QUESTION 7

```
CAT#show interfaces GigabitEthernet 0/4
GigabitEthernet0/4 is up, line protocol is down (monitoring)
  Hardware is Gigabit Ethernet, address is 1c1d.8684.5404 (bia 1c1d.8684.5404)
  Description: AP
  MTU 1500 bytes, BW 1000000 Kbit, DLY 10 usec,
    reliability 255/255, txload 1/255, rxload 1/255
  Encapsulation ARPA, loopback not set
  Keepalive set (10 sec)
  Full-duplex, 1000Mb/s, media type is 10/100/1000BaseTX
  input flow-control is off, output flow-control is unsupported
  ARP type: ARPA, ARP Timeout 04:00:00
  Last input 00:00:07, output 00:00:04, output has never
  Last clearing of "show interface" counters never
  Input queue: 0/75/0/0 (size/max/drops/flushes); Total output drops: 30
  Queueing strategy: fifo
  Output queue: 0/40 (size/max)
  5 minute input rate 5000 bits/sec, 1 packets/sec
  5 minutes output rate 1000 bits/sec, 1 packets/sec
    19486929 packets input, 6152019665 bytes, 0 no buffer
    Received 1150685 broadcasts (801540 multicasts)
    0 runs, 4 giants, 0 throttles
    7 input errors, 2 CRC, 0 frame, 0 overrun, 0 ignored
    0 watchdog, 801540 multicast, 0 pause input
    0 input packets with dribble condition detected
    27009313 packets output, 3498830792 bytes, 0 underruns
    0 output errors, 0 collisions, 11 interface resets
    0 babbles, 0 late collision, 0 deferred
    0 lost carrier, 0 no carrier, 0 PAUSE output
    0 output buffer failures, 0 output buffers swapped out
```

Refer to the exhibit. You cannot establish IP communication over interface GigabitEthernet 0/4 with an access point connected to it. Which reason is the cause of the issue?

- A. Interface GigabitEthernet 0/4 is mirroring traffic and cannot be used at this time.
- B. Line protocol is down on the interface because "output flow-control is unsupported".



- C. The problem is due to physical connectivity. The Ethernet cable must be revised.
- D. A SPAN session is configured on the Switch destination interface GigabitEthernet 0/4.

Correct Answer: D

The port is a part of a monitor session (a SPAN session) as a destination port. Look for "monitor session" commands in your configuration that refer to the port, and if you do not need this monitoring session, you may remove it from your configuration. That will make the port work normally again.

Reference:

<https://supportforums.cisco.com/discussion/11667971/gigabitethernet201-down-line-protocol-down-monitoring>

### QUESTION 8

Refer to the exhibit. While troubleshooting a central web authentication issue with Cisco ISE 2.0 or above, you see this message on the Cisco WLC. Which statement about this message is true?

```
✓ AVP: L=44 t=Vendor-Specific(26) v=ciscoSystems(9)
AVP Type: 26
AVP Length: 44
> VSA: L=38 t=Cisco-AVPair(1): subscriber:reauthenticate-type=rerun
✓ AVP: L=41 t=Vendor-Specific(26) v=ciscoSystems(9)
AVP Type: 26
AVP Length: 41
✓ VSA: L=35 t=Cisco-AVPair(1): subscriber:command=reauthenticate
Cisco-AVPair: subscriber:command=reauthenticate
```

- A. This is a standard CoA message from ISE and the WLC does not send a dissociation frame on air to the client
- B. This message is valid only for clients with CCX version 3 or above
- C. This message results in WLC sending a dissociation frame to the client on air
- D. This message is not accepted by WLC because it is using an invalid TLV

Correct Answer: A

### QUESTION 9

You have been hired to install new Cisco switches at ACME Corporation. The company has an existing Cisco network comprised of access layer switches that use multiple VLANs and VLAN trunking protocol to distribute the VLANs to the switches throughout the network. Which two methods are best to accomplish your task? (Choose two.)

- A. Configure the VLAN Trunking Protocol pruning on the new switches because they may not need all of the VLANs.



- B. Prior to installation, ensure that all switches are running the same Cisco IOS software version as the VTP server.
- C. Ensure that all the new Cisco switches have their VTP domain name set to the default value of null
- D. Configure one of the new switches as a VTP server to distribute the VLANs appropriately.
- E. Ensure that all switches have the same VLAN Trunking Protocol password and encryption level.
- F. Configure all new switches as VTP clients and relocated switches as VTP server because they already have all the VLANs in their database.
- G. Ensure that all switches are running the same VTP version.

Correct Answer: EG

From:

### VTP Configuration Guidelines and Restrictions

Follow these guidelines and restrictions when implementing VTP in your network:

- All network devices in a VTP domain must run the same VTP version.
- You must configure a password on each network device in the management domain when VTP is in secure mode.



**Caution** If you configure VTP in secure mode, the management domain will not function properly if you do not assign a management domain password to each network device in the domain.

<http://www.cisco.com/c/en/us/td/docs/switches/lan/catalyst4500/12-2/25ew/configuration/guide/conf/vtp.html#wp1034490>

### QUESTION 10

Prime infrastructure will trigger alarms indicating that the prime infrastructure physical or virtual server is low on disk space as the administrator which three actions can you take to increase disk space immediately upon receiving a major alert (60 percent disk usage)? (choose three)

- A. Change the disk controller RAID
- B. Enable cron job on ade for disk clean up using \$ du-sh
- C. Compacting the PI database using the NCS CLEANUP command
- D. Reduce the storage load on the local disk by setting up and using remote backup repositories
- E. Reduce the length of time you store client association data and related events.
- F. Compacting the PI database using the NCS DATABASE PURGE command

Correct Answer: CDE

### QUESTION 11

Which mechanism incorporates the channel capacity into the CAC determination and gives a much more accurate



assessment of the current call carrying capacity of the AP?

- A. Static CAC.
- B. Reserved roaming bandwidth(%).
- C. Expedited bandwidth.
- D. Metrics collection.
- E. Load-based AC.
- F. Max RF bandwidth (%).
- G. Admission control.

Correct Answer: E

#### AP Call Capacity

A key part of the planning process for a VoWLAN deployment is to plan the number of simultaneous voice streams per AP. When planning the voice stream capacity of the AP, consider the following points:



Note: A call between two phones associated to the same AP counts as two active voice streams. The actual number of voice streams a channel can support is highly dependent on a number of issues, including environmental factors and client compliance to WMM and the Cisco Compatible Extension specifications. Figure 9-11 shows the Cisco Compatible Extension specifications that are most beneficial to call quality and channel capacity. Simulations indicate that a 5 GHz channel can support 14-18 calls. This means a coverage cell can include 20 APs, each operating on different channels, with each channel supporting 14 voice streams. The coverage cell can support 280 calls. The number of voice streams supported on a channel with 802.11b clients is 7; therefore, the coverage cell with three APs on the three non-overlapping channels supports 21 voice streams. Figure 9-11 Cisco Compatible Extension VoWLAN Features

How Cisco Compatible Extensions Benefits VoWLAN Call Quality	
Feature	Benefit
CCKM Support for EAP-types	Locally Cached Credentials Means Faster Roams
Unscheduled Automatic Power Save Delivery (U-APSD)	More Channel Capacity and Better Battery Life
TSPEC-Based Call Admission Control (CAC)	Managed Call Capacity for Roaming and Emergency Calls
Voice Metrics	Better and More Informed Troubleshooting
Neighbor List	Reduced Client Channel Scanning
Load Balancing	Calls Balanced Between APs
Dynamic Transmit Power Control (DTPC)	Clients Learn a Power to Transmit At
Assisted Roaming	Faster Layer 2 Roams

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Call Admission Control (CAC) also benefits call quality and can create bandwidth reservation for E911 and roaming



calls. The 802.11e, WMM, and Cisco Compatible Extension specifications help balance and prevent the overloading of a cell with voice streams. CAC determines whether there is enough channel capacity to start a call; if not, the phone may scan for another channel. The primary benefit of U-ASPD is the preservation of WLAN client power by allowing the transmission of frames from the WLAN client to trigger the forwarding of client data frames that are being buffered at the AP for power saving purposes. The Neighbor List option provides the phone with a list that includes channel numbers and channel capacity of neighboring APs. This is done to improve call quality, provide faster roams, and improve battery life. <http://www.cisco.com/c/en/us/td/docs/solutions/Enterprise/Mobility/emob41dg/emob41dg-wrapper/preface41.html> Understanding Static CAC As mentioned previously, there are two types of Admissions Control. Static CAC is based on a percentage of the total Medium Times available and is measure in increments of 32 microseconds. In this section, we will cover how to configure Static and Load-Based CAC and also how to debug it.

[http://www.cisco.com/c/en/us/td/docs/wireless/technology/vowlan/troubleshooting/vowlan\\_troubleshoot/5\\_Troubleshooting\\_CAC\\_Rev1-2.html](http://www.cisco.com/c/en/us/td/docs/wireless/technology/vowlan/troubleshooting/vowlan_troubleshoot/5_Troubleshooting_CAC_Rev1-2.html) Load-Based CAC on the other hand is significantly more difficult to debug. LBCAC is dynamic with regard to the algorithm used to decrement Medium Times from the total that is available. LBCAC takes into consideration different metrics, such as load, Co-channel interference, SNR, etc. and will therefore yield different results when tested. From our experience, it is very difficult to yield consistent results as RF fluctuates and changes within the given environment. Results tend to vary from one cell area to another and even in cell areas that yield the same signal strength. <http://www.cisco.com/c/en/us/td/docs/wireless/controller/4-1/configuration/guide/ccfig41/c41ccfg.html>

o enable video CAC for this radio band, check the Admission Control (ACM) check box.

The default value is disabled.

n the Reserved Roaming Bandwidth field, enter the percentage of maximum allocated bandwidth reserved for roaming video clients. The controller reserves this much bandwidth from the maximum allocated bandwidth for roaming video

clients.

Range: 0 to 25%

Default: 0%

in the Reserved Roaming Bandwidth field, enter the percentage of maximum allocated bandwidth reserved for roaming voice clients. The controller reserves this much bandwidth from the maximum allocated bandwidth for roaming voice

clients.

Range: 0 to 25%

Default: 6%

To enable expedited bandwidth requests, check the Expedited Bandwidth check box.

The default value is disabled.

To enable TSM, check the Metrics Collection check box. The default value is disabled. Traffic stream metrics (TSM) can be used to monitor and report issues with voice quality. In the Max RF Bandwidth field, enter the percentage of the

maximum bandwidth allocated to clients for voice applications on this radio band. Once the client reaches the value specified, the access point rejects new calls on this radio band.



Range: 40 to 85% Default: 75%

For best performance, the most accurate assessment of call capacity—**Load-based AC**—should be enabled. **Admission Control** enabled by itself uses the APs capacity to calculate the Call Admission Control (CAC). **Load-based AC incorporates the channel capacity into the CAC determination and gives a much more accurate assessment of the current call-carrying capacity of the AP.** Settings for the *Max RF bandwidth* and *Reserved Bandwidth* values depend on the VoWLAN handsets, the data rates used, and the other sources of the WLAN load. However, the Max RF Reservation should not be greater than 60 percent. At levels greater than 60 percent, the IEEE 802.11 protocol itself can start to be under stress with increases in retransmission. This can impact call quality even if WMM is being used, particularly if there is a number of voice calls already in progress. Testing with the Cisco Unified IP Phone 7921G in both the 2.4 GHz and 5 GHz bands using the recommended signal levels and SNR suggests that the minimum value for the *Maximum Bandwidth Reservation* parameter of between 40 to 60 percent is also the best setting for this specific phone. Call quality starts to deteriorate when the *Max RF Bandwidth* is set at or below these levels.

[http://www.cisco.com/c/en/us/td/docs/solutions/Enterprise/Mobility/vowlan/41dg/vowlan41dg-book/vowlan\\_ch8.pdf](http://www.cisco.com/c/en/us/td/docs/solutions/Enterprise/Mobility/vowlan/41dg/vowlan41dg-book/vowlan_ch8.pdf)

## QUESTION 12

In a Cisco Mobility Express deployment, the master AP experiences a power outage. Which option lists the priority order for electing the new master AP?

- A.
- B.
- C.
- D.



Correct Answer: B

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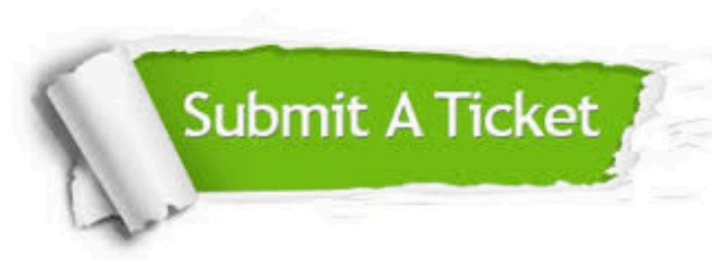
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