400-351^{Q&As}

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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

Refer to the exhibit


```
interface Vlan2149
 description  WLC Management Vlan
  ip address 24.244.0.1 255.255.224.0
 end

513E.G.R046-6500-1(config)#do sh run int vlan 2150
!
interface Vlan2150
 description Sw1 Wireless Client Vlan
  ip address 10.64.0.10 255.255.255.0
 end

513E.G.R046-6500-1(config)#do sh run int vlan 2100
!
interface Vlan2100
 description sw1 APVLAN
  ip address 10.63.7.1 255.255.255.0
```

The wireless clients use VLAN 2150.the WLC Management is on VLAN 2149 and the IAPs use VLAN 2100 wireless clients report that they cannot access multicast routing enabled which two options must be enabled for the clients to receive multicast video? (Choose two)

A. MSDP

B. ip pim-sparse mode on VLAN 2149

C. ip igmp snooping

D. ip pim-sparse mode on VLAN 2150

Correct Answer: BD

QUESTION 3

DRAG DROP

Drag and drop the Cisco MSE context-aware solution problem on the left to the possible reason for the failure on the right.

Select and Place:

Cisco MSE is detected as unreachable from Cisco WCS	The WLC and Cisco MSE do not have a correct NTP configuration
No elements (clients or tags) are located in Cisco MSE	The Cisco WCS background task Mobility Service Status has been disabled
Tags are not located, but other clients are	Cisco MSE is using an evaluation license
Cisco MSE tracks certain elements, but others are not visible	Access Points are not positioned on Cisco WCS maps
WLC does not establish connectivity with Cisco MSE	Cisco MSE contains too many maps, or the maps are too large

Correct Answer:

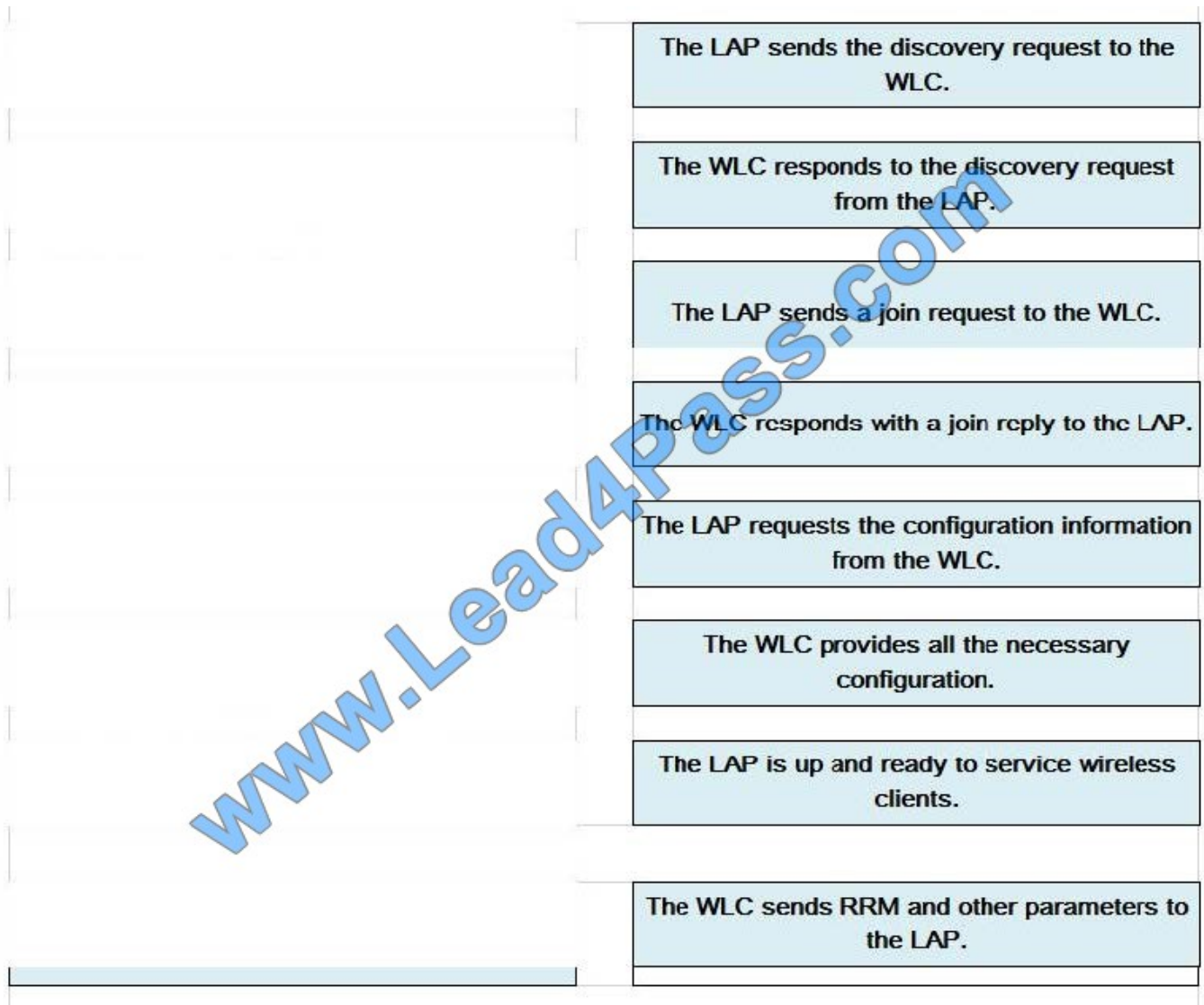| |
|---|
| Tags are not located, but other clients are |
| Cisco MSE tracks certain elements, but others are not visible |
| Cisco MSE is detected as unreachable from Cisco WCS |
| WLC does not establish connectivity with Cisco MSE |
| No elements (clients or tags) are located in Cisco MSE |

QUESTION 4

Drag and drop the CAPWAP events on the left into the order in which they occur on the right during the WLC discovery and join processes.

Select and Place:

The WLC responds with a join reply to the LAP.	Target 1
The LAP requests the configuration information from the WLC.	Target 2
The LAP sends the discovery request to the WLC.	Target 3
The WLC sends RRM and other parameters to the LAP.	Target 4
The LAP is up and ready to service wireless clients.	Target 5
The WLC responds to the discovery request from the LAP.	Target 6
The WLC provides all the necessary configuration.	Target 7
The LAP sends a join request to the WLC.	Target 8

Correct Answer:

The LAP sends the discovery request to the WLC.
The WLC responds to the discovery request from the LAP.
The LAP sends a join request to the WLC.
The WLC responds with a join reply to the LAP.
The LAP requests the configuration information from the WLC.
The WLC provides all the necessary configuration.
The LAP is up and ready to service wireless clients.
The WLC sends RRM and other parameters to the LAP.

QUESTION 5

Which memchanism 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

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 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%

802.11a > Voice Parameters

Call Admission Control (CAC)

Admission Control (ACM)	☑ Enabled
Load-based AC	☑ Enabled
Max RF Bandwidth (%)	75
Reserved Roaming Bandwidth (%)	10
Expedited bandwidth	☐

Traffic Stream Metrics

Metrics Collection	☑

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 the is a number of voice calls are 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/vow lan41dg -book/vowlan_ch8.pdf

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