

# Cisco

## Exam 642-742

**Implementing Cisco unified Wireless Voice Networks (IUWVN) v2.0**

Version: 10.0

[ Total Questions: 188 ]

**Question No : 1**

A client reports that video is not streaming. The administrator determines the client is connecting at a data rate of 12 Mbps and is trying to stream to a valid multicast address on the network. What three items should the administrator check next to troubleshoot the issue? (Choose three.)

- A. SSID has been configured to allow multicast-direct and multicast-direct has been enabled globally.
- B. IGMP snooping is turned off because the client cannot request to join a group, only access points can.
- C. Video-stream for the multicast video is configured in the controller.
- D. SSID has been set for a QoS value of Platinum.
- E. SSID has been set for a QoS value of Gold.
- F. RTSP is used to stream the video due to wireless multicast not using acknowledgements.

**Answer: A,C,E**

**Question No : 2**

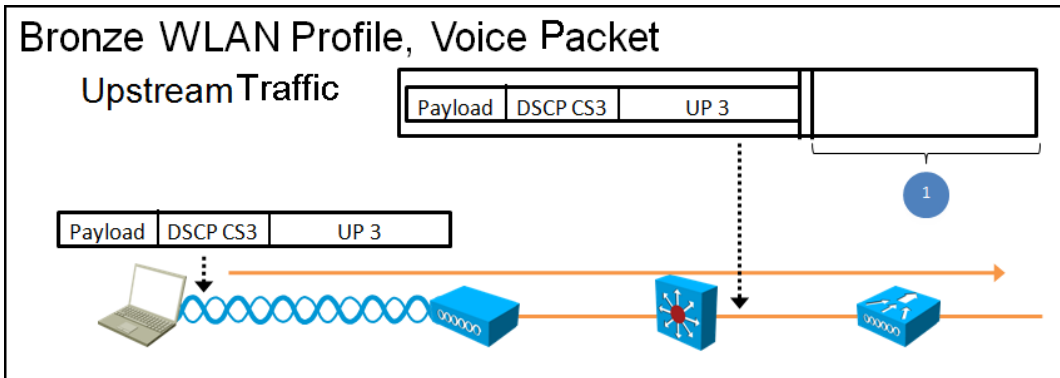
Which of these authentication and encryption combinations would be considered the most secure?

- A. LEAP and WPA TKIP
- B. EAP-FAST and WPA2 AES
- C. EAP-FAST and WPA TKIP
- D. WPA-PSK and TKIP

**Answer: B**

**Question No : 3**

Refer to the exhibit.



Voice signaling traffic is being sent upstream using a WLAN configured for bronze QoS. Assume that Layer 3 switches between the controller and the AP use the default and recommended CoS-to-DSCP and DSCP-to-CoS maps. What CAPWAP QoS markings are used in the header at location 1?

- A. DSCP CS1
- B. CoS 1
- C. DSCP 46 and CoS 5
- D. CoS 3
- E. DSCP CS1 and CoS 1
- F. DSCP 46
- G. DSCP AF31
- H. DSCP AF31 and CoS 3

Answer: E

**Question No : 4**

Dscp-cos map:

d1 :	d2	0	1	2	3	4	5	6	7	8	9
0 :	00	00	00	00	00	00	00	00	00	01	01
1 :	01	01	01	01	01	01	01	02	02	02	02
2 :	02	02	02	02	03	03	03	03	03	03	03
3 :	03	03	04	04	04	04	04	04	04	01	01
4 :	05	01	05	05	04	05	03	05	06	06	06
5 :	06	06	06	06	06	06	07	07	07	07	07
6 :	07	07	07	07							

Refer to the exhibit. What CoS marking is DSCP EF translated too?

- A. 2
- B. 3
- C. 4
- D. 5
- E. 6
- F. 7

**Answer: B**

**Question No : 5**

An engineer is studying the TSM for a VoWLAN user experiencing issues using a CCXv3 device. What two items will be shown? (Choose two.)

- A. uplink packet latency
- B. uplink packet loss
- C. downlink packet latency
- D. downlink packet loss
- E. uplink MOS score
- F. downlink MOS score

**Answer: C,D**

**Question No : 6**

What is the minimum overhead (header plus FCS) added by 802.11 (no encryption, no WMM) between a wireless client and an AP?

- A. 18 B
- B. 24 B
- C. 28 B
- D. 35 B
- E. 36 B
- F. 48 B

**Answer: C**

**Question No : 7**

After implementing 802.11n SGI in a noisy environment increased interference is noted, at what level would the interference be introduced by the change?

- A. symbols
- B. packets
- C. headers
- D. ACKs

**Answer: A**

**Question No : 8**

What protocol can be enabled to listen in on IPv4 multicast streams and maintain a map of what each client requests on a wireless LAN controller?

- A. IGMP
- B. MLD
- C. PAP
- D. ICMP
- E. SIP
- F. NTP

**Answer: A**

**Question No : 9**

What is the main difference between the Cisco Unified Wireless IP Phones 7921G and 7925G?

- A. The 7925G supports 802.11a/b/g, whereas the 7921G supports only 802.11b/g.
- B. The 7925G is suited for a more rugged environment.
- C. The 7925G has support for 802.11n, whereas the 7921G does not.
- D. 7925G supports WPA2, whereas the 7921G supports only WPA1.

**Answer: B**

**Question No : 10**

After implementing mesh with an IP surveillance camera connected to the LAN port on a RAP, the engineer notices that QoS is not being marked. In this setup, what device is responsible for marking upstream traffic from the camera?

- A. IP Camera
- B. MAP
- C. RAP
- D. Wireless Controller
- E. First-Hop Router

**Answer: A**

**Question No : 11**

Which four statements describe the attributes of streaming video? (Choose four.)

- A. Packet loss is limited to 1 percent.
- B. Packet loss is limited to 5 percent.
- C. One-way latency is limited to 150 ms.
- D. One-way latency is limited to a few seconds.
- E. Jitter is limited to 30 ms.
- F. Jitter has no significant requirements.
- G. QoS marking is at CS4.
- H. QoS marking is at AF41.

**Answer: B,D,F,G**

**Question No : 12**

During the testing and verification phase of an 802.11n deployment, an employee wants to be able to stream video at a much faster rate than the previous 802.11a/b/g deployment. What 802.11n capability can be utilized for this?

## Cisco 642-742 : Practice Test

- A.** Access points and clients are capable of utilizing spatial-multiplexing, multi-ratio combining, and transmit beamforming, which allows for a more efficient wireless spectrum that can utilize higher data-rates.
- B.** Clients can make use of MIMO to aggregate the data sent from the access points whether 802.11n or 802.11a to create a higher throughput network.
- C.** Clients can utilize ClientLink which allows them to use the signal received from 802.11n access points on its various radio chains to perform multi-ratio combining.
- D.** Clients are able to utilize High-Rate Direct Sequence Spread Spectrum (HR-DSSS) to reach higher data-rates, which in turn allow for much faster video streaming.

**Answer: A**

### Question No : 13

Your Cisco Unified Wireless IP Phones 7921G and 7925G are associated with the VoWLAN at your branch office. When they attempt to place a call, the call fails to go through and you receive a fast busy tone. What is the issue?

- A.** The wireless phones failed to register with the Cisco Unified Communications Manager cluster.
- B.** The Cisco Unified Communications Manager cluster invoked CAC to preserve IP WAN voice bandwidth.
- C.** The local gateway rejected the call because of high IP WAN utilization.
- D.** Automatic alternate routing has been invoked.

**Answer: B**

### Question No : 14

A hospital is implementing wireless mobile carts outfitted to provide High-Definition IPTV access for patients. The end-user will need to be able to move around, while maintaining a high definition stream with as few artifacts as possible while viewing. What three technologies need to be utilized to guarantee access at this requirement and how would they be configured? (Choose three.)

- A.** set controller to Multicast-to-Multicast mode
- B.** configure the video stream under Media Streams with "High" template
- C.** set SSID QoS to gold
- D.** configure the video stream under Media Streams with "Medium" template
- E.** set SSID QoS to platinum

F. set controller to Multicast-to-Unicast mode

**Answer: A,B,C**

**Question No : 15**

You are given a new single Cisco 2500 Series Wireless Controller with 8 to 12 APs. Which two statements describe the minimum required multicast configuration? (Choose two.)

- A. Enable Global Multicast Mode.
- B. Enable IGMP Snooping.
- C. Configure the IGMP Timeout for 60 seconds.
- D. Configure the IGMP Query Interval for 20 seconds.
- E. Enable the WLAN Multicast VLAN feature.
- F. Enable WLC to AP Multicast Mode for multicast.
- G. Enable WLC to AP Multicast Mode for unicast.

**Answer: A,F**

**Question No : 16**

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EAP-Identity-Request Timeout (seconds)..... 30
EAP-Identity-Request Max Retries..... 2
EAP Key-Index for Dynamic WEP..... 0
EAP Max-Login Ignore Identity Response..... enable
EAP-Request Timeout (seconds)..... 10
EAP-Request Max Retries..... 2
EAPOL-Key Timeout (milliseconds)..... 1000
EAPOL-Key Max Retries..... 2
EAP-Broadcast Key Interval..... 3600
  
```

Refer to the exhibit. A customer is looking to deploy local radius authentication on their WLAN controller. After configuration has been completed, the administrator found that computers could authenticate; however, the VoIP phones could not. What is the problem given the output?

- A. The EAP request-timeout is too short for the wireless phone to process the PAC from the WLAN controller.
- B. The EAP Broadcast Key interval is set to 1 hour however should be 8 hours.



- C. EAPOL-Key Max Retries should be set to 12 to ensure the wireless phone can authenticate.
- D. EAPOL-Key timeout should be set to at least 20,000 Milliseconds to allow the PAC to be processed.

**Answer: A**

**Question No : 17**

A customer using a 7925 phone reports that sometimes the music on hold does not come through or is choppy. The engineer checks the location history and notices it tends to occur toward the edge of the cell. The APs have their data rates set to 12Mbps as mandatory where all rates below are disabled. What is the cause of this issue?

- A. beacons have been disabled
- B. mandatory data rates set too high
- C. the phone requires the 11Mbps rate
- D. unicast is enabled

**Answer: B**

**Question No : 18**

Which four hardware components are required to make an end-to-end unified wireless VoIP solution? (Choose four.)

- A. Cisco Mobility Services Engine server
- B. wireless IP phone
- C. firewalls
- D. CAPWAP access points
- E. Cisco Wireless Control System
- F. WLAN controller
- G. autonomous access points
- H. Cisco Unified Communications Manager

**Answer: B,D,F,H**

**Question No : 19**

Refer to the exhibit.

Multicast Group Detail					Entries 1 - 1 of 1
Current Filter : 551					[Change Filter] [Show All]
Client MAC Addr	AP Name	Expire Time (mm:ss)	Multicast Status	QoS User Priority	
58:8d:09:d3:53:4f	Pod1b	00:50	Normal Multicast	0	

What two items of multicast information can be interpreted from the WLC display? (Choose two.)

- A. WLC-to-AP multicast mode is configured for Unicast.
- B. WLC-to-AP multicast mode is configured for multicast.
- C. IGMP snooping is disabled.
- D. IGMP snooping is enabled.
- E. VideoStream is allowed for the wireless client.
- F. VideoStream is not allowed for the wireless client.

**Answer: D,E**

**Question No : 20**

When a VoWLAN client is in the range of two cells, which two statements describe how the client makes a decision about which cell is the best to associate with? (Choose two.)

- A. The client will associate with the cell with the highest RSSI value.
- B. The client will associate with the cell with the lowest SNR value.
- C. The client will associate with the cell broadcasting the highest 802.11e value.
- D. The client will associate with the cell broadcasting the highest TSPEC value.
- E. The client will associate with the cell broadcasting the lowest mandatory data rate.
- F. The client will associate with the cell broadcasting the highest data rate.
- G. The client will associate with the first cell that advertises U-APSD.

**Answer: A,B**

**Question No : 21**