

# NSE6\_FWF-6.4<sup>Q&As</sup>

Fortinet NSE 6 - Secure Wireless LAN 6.4

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**QUESTION 1**

Refer to the exhibits.

Exhibit A.

```
config wireless-controller wtp-profile
  edit "Main Networks - FAP-320C"
    set comment "Profile with standard networks"
  config platform
    set type 320C
  end
  set handoff-rssi 30
  set handoff-sta-thresh 30
  set ap-country GB
  config radio-1
    set band 802.11n
    set power-level 50
    set channel-utilization enable
    set wids-profile "default-wids-apscan-enabled"
    set darrp enable
    set vap-all manual
    set vaps "Main-Wifi" "Contractors" "Guest"
    "Wifi_IOT" "Wifi_POS" "Staff" "Students"
    set channel "1" "6" "11"
  end
  config radio-2
    set band 802.11ac
    set channel-bonding 40MHz
    set power-level 60
    set channel-utilization enable
    set wids-profile "default-wids-apscan-enabled"
    set darrp enable
    set vap-all manual
    set vaps "Main-Wifi" "Contractors" "Guest"
    "Wifi_IOT" "Wifi_POS" "Staff" "Students"
    set channel "36" "44" "52" "60"
  end
next
end
```

Exhibit B.

Diagnostics and Tools - Office

Office	
Serial Number	FPXXXXXXXXXXXX
Base MAC Address	xx:xx:xx:xx:xx:xx
Status	Online
Country/Region	GB
Uplink Interface	FortiAP management (ap)
IPv4 Address	192.168.5.98
Uptime	12m1s
Version	v6.4 build0437
Actions	

**General**

- 56% CPU Usage
- 70% Memory Usage
- 0 days Connection Uptime
- 1.0 Gbps lan1
- 0 Mbps lan2

**Radio 1 - 2.4 GHz**

- 31 Interfering SSIDs
- 1 Clients
- 25% Channel Utilization

**Radio 2 - 5 GHz**

- 0 Interfering SSIDs
- 30 Clients
- 5% Channel Utilization

- Radios**
- Clients
- Interfering SSIDs
- Logs
- CLI Access
- Spectrum Analysis
- VLAN Probe

	Radio 1 - 2.4 GHz	Radio 2 - 5 GHz
Mode	AP	AP
SSID	<ul style="list-style-type: none"> <li>fortinet (Main-WiFi)</li> <li>fortinet2 (Contractors)</li> <li>fortinet3 (Guest)</li> </ul>	<ul style="list-style-type: none"> <li>fortinet (Main-WiFi)</li> <li>fortinet2 (Contractors)</li> <li>fortinet3 (Guest)</li> </ul>
Clients	1	20
Bandwidth Tx	4.65 kbps	1.16 kbps
Bandwidth Rx	20.46 kbps	176 bps
Operating Channel	1	60
Channels		
Operating TX Power	3 dBm	21 dBm
Band	802.11n	802.11ac

Interfering SSIDs for Office (Radio 1)

SSID	AP BSSID	Channel	Signal
Husky	aa:aa:aa:aa:aa	1	-84 dBm
Husky guest	bb:bb:bb:bb:bb	1	-84 dBm
KBANK5007	cc:cc:cc:cc:cc	1	-85 dBm
mandikaylee	dd:dd:dd:dd:dd	1	-86 dBm
	ee:ee:ee:ee:ee	1	-87 dBm
HUAWEI-EMIX4f	ee:ee:ee:ee:ef	1	-88 dBm
trojan-3	ff:ff:ff:ff:ff	1	-88 dBm
	fg:gg:gg:gg:gg	1	-89 dBm
	hg:gg:gg:gg:gg	1	-89 dBm

Exhibit C.

```
# get wireless-controller rf-analysis FPXXXXXXXXXXXXXXXXX
WTP: Office 0-192.168.5.98:5246

channel    rssi-total  rf-score    overlap-ap  interfere-ap  chan-utilization
1          100         6           13          13           63%
2          23          10          0           22           47%
3          15          10          0           22           15%
4          24          10          0           22           15%
5          51          10          0           22           41%
6          223         1           9           9            75%
7          52          10          0           17           47%
8          32          10          0           17           13%
9          27          10          0           19           10%
10         45          10          0           19           28%
11         177         1           8           10           65%
12         46          10          0           10           34%
13         45          10          2           10           70%
14         14          10          0           10           0%
36         16          10          2           2            0%
44         83          7           5           5            0%
```

A wireless network has been installed in a small office building and is being used by a business to connect its wireless clients. The network is used for multiple purposes, including corporate access, guest access, and connecting point-of-sale and IoT devices.

Users connecting to the guest network located in the reception area are reporting slow performance. The network administrator is reviewing the information shown in the exhibits as part of the ongoing investigation of the problem. They show the profile used for the AP and the controller RF analysis output together with a screenshot of the GUI showing a summary of the AP and its neighboring APs.

To improve performance for the users connecting to the guest network in this area, which configuration change is most likely to improve performance?

- A. Increase the transmission power of the AP radios
- B. Enable frequency handoff on the AP to band steer clients
- C. Reduce the number of wireless networks being broadcast by the AP
- D. Install another AP in the reception area to improve available bandwidth

Correct Answer: A

**QUESTION 2**

Where in the controller interface can you find a wireless client's upstream and downstream link rates?

- A. On the AP CLI, using the cw\_diag ksta command
- B. On the controller CLI, using the diag wireless-controller wlac -d sta command
- C. On the AP CLI, using the cw\_diag -d sta command
- D. On the controller CLI, using the WiFi Client monitor

Correct Answer: B

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### QUESTION 3

Refer to the exhibits.

Exhibit A Exhibit B



```
53836.574 xx:xx:xx:xx:xx:xx <ih> IEEE 802.11 mgmt::assoc_req <==
xx:xx:xx:xx:xx:xx ws (0-192.168.5.98:5246) vap Wireless rId 1 wId2
yy:yy:yy:yy:yy:yy

53836.574 xx:xx:xx:xx:xx:xx <ih> xx:xx:xx:xx:xx:xx sta =
0x6311c88, sta->flags = 0x00000001, auth_alg = 0, hapd->splitMac: 1

53836.575 xx:xx:xx:xx:xx:xx <ih> IEEE 802.11 mgmt::assoc_resp <==
xx:xx:xx:xx:xx:xx ws (0-192.168.5.98:5246) vap Wireless rId 1 wId2
yy:yy:yy:yy:yy:yy

53836.575 xx:xx:xx:xx:xx:xx <ih> IEEE 802.11 mgmt::assoc_resp <==
xx:xx:xx:xx:xx:xx ws (0-192.168.5.98:5246) vap Wireless rId 1 wId2
yy:yy:yy:yy:yy:yy

53836.575 xx:xx:xx:xx:xx:xx <dc> STA add xx:xx:xx:xx:xx:xx vap
Wireless ws (0-192.168.5.98:5246) rId 1 wId2 bssid
yy:yy:yy:yy:yy:yy NON-AUTH band 0x10 mimo 2*2

53836.575 xx:xx:xx:xx:xx:xx <cc> STA_CFG_REQ(10) sta
xx:xx:xx:xx:xx:xx add ==> ws (0-192.168.5.98:5246) rId 1 wId 2

53836.576 xx:xx:xx:xx:xx:xx <cc> STA add xx:xx:xx:xx:xx:xx vap
Wireless ws (0-192.168.5.98:5246) rId 1 wId 2 yy:yy:yy:yy:yy:yy sec
WPA2 PERSONAL auth 0

53836.576 xx:xx:xx:xx:xx:xx cwAcStaRbtAdd: I2C_STA_ADD insert sta
xx:xx:xx:xx:xx:xx 192.168.5.98/1/2/1

53836.577 xx:xx:xx:xx:xx:xx <cc> STA_CFG_RESP(10) sta xx:xx:xx:xx:xx:xx
<== ws (0-192.168.5.98:5246) rc 0 (Success)

64318.579 xx:xx:xx:xx:xx:xx <eh> RADIUS message (type=0) ==> RADIUS
Server code=1 (Access-Request) id=9 len=214

64318.579 xx:xx:xx:xx:xx:xx <eh> send 1/4 msg of 4-Way
Handshake

64318.580 xx:xx:xx:xx:xx:xx <eh> send IEEE 802.1X ver=2 type=3
(EAPOL_KEY) data len=95 replay cnt 1

64813.580 xx:xx:xx:xx:xx:xx <eh> IEEE 802.1X (EAPOL99B) ==>
xx:xx:xx:xx:xx:xx ws (0-192.168.5.98:5246) rId 1 wId 2
yy:yy:yy:yy:yy:yy

64318.582 xx:xx:xx:xx:xx:xx <eh> RADIUS message (type=0) <== RADIUS
Server code=2 (Access-Accept) id=9 len=114

53836.582 xx:xx:xx:xx:xx:xx <dc> STA chg xx:xx:xx:xx:xx:xx vap
Wireless ws (0-192.168.5.98:5246) rId 1 wId 2 bssid
yy:yy:yy:yy:yy:yy Auth:allow
```

```
64813.583 xx:xx:xx:xx:xx:xx <eh> IEEE 802.1X (EAPOL 121B) <==
xx:xx:xx:xx:xx:xx ws (0-192.168.5.98:5246) rId 1 wId2
yy:yy:yy:yy:yy:yy

64813.583 xx:xx:xx:xx:xx:xx <eh>      recv IEEE 802.1X ver=1 type=3
(EAPOL_KEY) data len=117

64813.583 xx:xx:xx:xx:xx:xx <eh>      recv EAPOL-Key 2/4 Pairwise
replay cnt 1

64813.583 xx:xx:xx:xx:xx:xx <eh>      send 3/4 msg of 4-Way
Handshake

64813.584 xx:xx:xx:xx:xx:xx <eh>      send IEEE 802.1X ver=2 type=3
(EAPOL_KEY) data len=151 replay cnt 2

64813.584 xx:xx:xx:xx:xx:xx <eh> IEEE 802.1X (EAPOL 155B) ==>
xx:xx:xx:xx:xx:xx ws (0-192.168.5.98:5246) rId 1 wId2
yy:yy:yy:yy:yy:yy

64813.586 xx:xx:xx:xx:xx:xx <eh> IEEE 802.1X (EAPOL 99B) <==
xx:xx:xx:xx:xx:xx ws (0-192.168.5.98:5246) rId 1 wId2
yy:yy:yy:yy:yy:yy

64813.586 xx:xx:xx:xx:xx:xx <eh>      recv IEEE 802.1X ver=1 type=3
(EAPOL_KEY) data len=35

64813.586 xx:xx:xx:xx:xx:xx <eh>      recv EAPOL-Key 4/4 Pairwise
replay cnt 2

53836.587 xx:xx:xx:xx:xx:xx <dc> STA chg xx:xx:xx:xx:xx:xx vap
Wireless ws (0-192.168.5.98:5246) rId 1 wId2 bssid
yy:yy:yy:yy:yy:yy AUTH

53836.587 xx:xx:xx:xx:xx:xx <cc> STA chg xx:xx:xx:xx:xx:xx vap
Wireless ws (0-192.168.5.98:5246) rId 1 wId2 yy:yy:yy:yy:yy:yy sec
WPA2 PERSONAL auth 1 *****

53836.587 xx:xx:xx:xx:xx:xx <cc> STA_CFG_REQ(12) sta
xx:xx:xx:xx:xx:xx add key (len=16) ==> ws (0-192.168.5.98:5246) rId
1 wId2

53836.589 xx:xx:xx:xx:xx:xx <cc> STA_CFG_REQ(12) xx:xx:xx:xx:xx:xx
<== ws (0-192.168.5.98:5246) rc 0 (Success)

53837.140 xx:xx:xx:xx:xx:xx <dc> DHCP Request server 0.0.0.0 <==
host DESKTOP-CVKGHH mac xx:xx:xx:xx:xx:xx ip 192.168.30.2 xId
88548005

53837.142 xx:xx:xx:xx:xx:xx <dc> DHCP Ack server 192.168.30.1 ==>
host mac xx:xx:xx:xx:xx:xx ip 192.168.30.2 mask 255.255.255.0 gw
192.168.30.1 xId 88548005
```

The exhibits show the diagnose debug log of a station connection taken on the controller CLI. Which security mode is used by the wireless connection?

- A. WPA2 Enterprise
- B. WPA3 Enterprise
- C. WPA2 Personal and radius MAC filtering
- D. Open, with radius MAC filtering

Correct Answer: A

Best security option is WPA2-AES.

Reference: <https://www.esecurityplanet.com/trends/the-best-security-for-wireless-networks/>

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#### QUESTION 4

As a network administrator, you are responsible for managing an enterprise secure wireless LAN. The controller is based in the United States, and you have been asked to deploy a number of managed APs in a remote office in Germany.

What is the correct way to ensure that the RF channels and transmission power limits are appropriately configured for the remote APs?

- A. Configure the APs individually by overriding the settings in Managed FortiAPs
- B. Configure the controller for the correct country code for Germany
- C. Clone a suitable FortiAP profile and change the county code settings on the profile
- D. Create a new FortiAP profile and change the county code settings on the profile

Correct Answer: C

Reference: <https://fortinetweb.s3.amazonaws.com/docs.fortinet.com/v2/attachments/69a8fa9c-1eaa-11e9b6f6-f8bc1258b856/fortigate-fortiwifi-and-fortiap-configuration-guide-54.pdf>

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#### QUESTION 5

Refer to the exhibit.



Radio 2

Mode:  Disabled  Access Point  Dedicated Monitor

WIDS profile:  default-wids-apscan-enabled

Radio resource provision:

Band: 5 GHz 802.11ac/n/a

Channel width:  20MHz  40MHz  80MHz

Short guard interval:

Channels:

<input checked="" type="checkbox"/> 36	<input checked="" type="checkbox"/> 40	<input checked="" type="checkbox"/> 44
<input checked="" type="checkbox"/> 48	<input checked="" type="checkbox"/> 52*	<input checked="" type="checkbox"/> 56*
<input checked="" type="checkbox"/> 60*	<input checked="" type="checkbox"/> 64*	<input checked="" type="checkbox"/> 100*
<input checked="" type="checkbox"/> 104*	<input checked="" type="checkbox"/> 108*	<input checked="" type="checkbox"/> 112*
<input checked="" type="checkbox"/> 116*	<input checked="" type="checkbox"/> 120*	<input checked="" type="checkbox"/> 124*
<input checked="" type="checkbox"/> 128*	<input checked="" type="checkbox"/> 132*	<input checked="" type="checkbox"/> 136*
<input checked="" type="checkbox"/> 140*	<input checked="" type="checkbox"/> 144*	<input checked="" type="checkbox"/> 149
<input checked="" type="checkbox"/> 153	<input checked="" type="checkbox"/> 157	<input checked="" type="checkbox"/> 161
<input checked="" type="checkbox"/> 165		

TX power control:  Auto  Manual

TX power: 10 — 17 dBm

SSIDs:  Tunnel  Bridge  Manual

Monitor channel utilization:

What does the asterisk (\*) symbol beside the channel mean?

- A. Indicates channels that can be used only when Radio Resource Provisioning is enabled
- B. Indicates channels that cannot be used because of regulatory channel restrictions
- C. Indicates channels that will be scanned by the Wireless Intrusion Detection System (WIDS)
- D. Indicates channels that are subject to dynamic frequency selection (DFS) regulations

Correct Answer: A