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Exhibit: Measured SNR Levels Across Site Areas

Area	Measured SNR (dB)	Expected Performance
Office	18 dB	Moderate — suitable for browsing
Boardroom	28 dB	Excellent — supports HD video/VoIP
Breakroom	20 dB	Fair — minor packet loss likely
Warehouse	15 dB	Poor — voice jitter expected

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RUCKUS RCWA Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"> Designing & Planning a RUCKUS Wi-Fi Solution: This section of the exam measures skills of the Certified Logistics Technician and focuses heavily on the detailed process of planning a RUCKUS Wi-Fi network, including gathering design requirements using site survey tools like Ekahau. It assesses the ability to define strategies for traffic management, load balancing, and network segmentation using technologies like VXLAN. This area also covers selecting the right products for specific use cases, and designing comprehensive security policies that involve RADIUS, PKI, and Role-Based Access Control (RBAC), alongside detailed AP management planning like discovery methods and PoE budgeting.
Topic 2	<ul style="list-style-type: none"> RUCKUS Technologies, products & solutions: This section of the exam measures skills of the Certified Logistics Technician and covers RUCKUS-specific technologies, such as proprietary Wi-Fi features, Bonjour Gateway, and automated cell sizing capabilities. It focuses on the proper selection and sizing of RUCKUS controllers (SmartZone, Unleashed, ROne Cloud) and Access Points (APs) based on platform limitations. Furthermore, it includes knowledge of advanced features like clustering, geo-redundancy, initial IoT integration, and the necessary processes for product licensing and using RUCKUS support tools and documentation.

Topic 3	<ul style="list-style-type: none"> • Wi-Fi Solution Troubleshooting & Repair: This section of the exam measures skills of the Certified Logistics Associate and covers the essential processes for data gathering, analysis, and troubleshooting common issues, such as client connectivity failures and problems with AP-to-controller communication. It requires using diagnostic tools, including built-in speed tests and packet • frame capture, as well as understanding how to use logs and integrate with communication protocols like AAA, Syslog, and SNMP for effective diagnosis and repair.
Topic 4	<ul style="list-style-type: none"> • Wi-Fi Solution Enhancement through Tuning and Optimization: This section of the exam measures skills of the Certified Logistics Technician and focuses on advanced techniques for fine-tuning and optimizing Wi-Fi network performance after deployment. It includes balancing load and frequency bands, implementing airtime fairness and decongestion methods, and using advanced 802.11 roaming amendments (k, r, v) to improve client mobility. The section also covers optimizing radio settings, such as Client Admission Control (CAC), and managing channel selection and power optimization, including the use of DFS and RUCKUS AI features.
Topic 5	<ul style="list-style-type: none"> • RUCKUS Wi-Fi Solutions: This section of the exam measures skills of the Certified Logistics Technician and covers the detailed, hands-on implementation and setup of RUCKUS solutions, specifically for SmartZone and RUCKUS One platforms. It requires knowledge of initial system setup, implementing licensing, and configuring all core network elements, including clusters, redundancy, AP groups, zones, and advanced WLAN features such as dynamic VLANs and SmartMesh. The section also covers detailed AP configuration steps, best practices for deployment, and setting up security and access controls like RBAC and guest access via captive portals.
Topic 6	<ul style="list-style-type: none"> • RUCKUS Wi-Fi Solution Management: This section of the exam measures skills of the Certified Logistics Associate and covers the necessary administrative and maintenance tasks for the overall solution. This includes managing system upgrade paths, defining and controlling administrator roles using directory services and Multi-Factor Authentication (MFA), monitoring network events and alarms, and performing critical functions like backup and restoration on the SmartZone controller. It also addresses generating reports, setting health thresholds, and identifying and locating rogue access points on a map.

RUCKUS Certified Wi-Fi Associate Exam Sample Questions (Q56-Q61):

NEW QUESTION # 56

What happens when enabling spectrum analysis mode on a RUCKUS AP?

- A. It will capture energy on both 2.4 and 5 GHz bands at the same time.
- B. The results are shown in a histogram.
- C. New clients won't be able to join.
- D. Sweeping of the entire 5 GHz band is possible in a single scan.

Answer: C

Explanation:

When spectrum analysis mode is enabled on a RUCKUS Access Point, the AP's radios are temporarily dedicated to spectrum scanning and interference analysis, meaning they cannot serve wireless clients during that period. Therefore, new clients will not be able to join, and existing clients are typically disconnected.

According to the RUCKUS One Online Help - Spectrum Analysis Tool and RUCKUS AI Documentation - RF Monitoring and Optimization, spectrum analysis mode captures and reports RF energy utilization, identifying interference sources such as non-Wi-Fi devices, microwave ovens, or Bluetooth. The AP alternates its radio into "sniffer" mode to analyze RF characteristics, during which client association and data traffic handling are suspended.

The output is visualized through graphs and real-time utilization charts, not histograms. Furthermore, an AP can only scan one band (either 2.4 GHz or 5 GHz) at a time - not both simultaneously.

Thus, the correct answer is A, since enabling spectrum analysis prevents new client associations while the AP is in scanning mode.

References:

RUCKUS One Online Help - Spectrum Analysis Overview

RUCKUS Analytics 3.5 User Guide - RF Health and Interference Detection

RUCKUS AI Documentation - Spectrum Monitoring and RF Analysis Tools

NEW QUESTION # 57

Using the rule of 10s and 3s, how many mW does 23 dBm convert to?

- A. 200 mW
- B. 150 mW
- C. 225 mW
- D. 250 mW

Answer: A

Explanation:

The Rule of 10s and 3s is a quick mental calculation used to convert between dBm (decibel-milliwatts) and milliwatts (mW), which represent power levels. The rule states that:

Every 10 dB increase corresponds to a $10\times$ increase in power.

Every 3 dB increase corresponds to approximately a $2\times$ increase in power.

Starting from 0 dBm = 1 mW:

+10 dBm = 10 mW

+20 dBm = 100 mW

Add 3 dB \rightarrow 23 dBm = 100 mW $\times 2 \approx 200$ mW

Thus, 23 dBm converts to approximately 200 mW. This principle is used throughout RUCKUS documentation for understanding EIRP (Effective Isotropic Radiated Power) and ensuring compliance with regulatory transmit power limits.

According to RUCKUS One Online Help and RUCKUS AI user documentation, administrators often use this conversion when optimizing transmit power settings to balance coverage and interference. The rule helps design engineers translate dB settings into physical power outputs during Wi-Fi tuning and planning.

Reference:

RUCKUS One Online Help - Radio Settings and Transmit Power Configuration RUCKUS Analytics 3.5 User Guide - RF Metrics and Power Analysis RUCKUS AI Documentation - Understanding RF Signal Levels (docs.cloud.ruckuswireless.com/RUCKUS-AI/userguide/index.html)

NEW QUESTION # 58

Which two statements about Auto Cell Sizing (ACS) are true? (Choose two.)

- A. It requires background scanning to be enabled.
- B. It is enabled by default.
- C. Tx power can be manually adjusted when using Auto Cell Sizing.
- D. It can automatically adjust channel selection.
- E. It can automatically adjust radio power.

Answer: A,E

Explanation:

Auto Cell Sizing (ACS) is a RUCKUS feature designed to automatically optimize the RF environment by dynamically adjusting transmit power levels of access points to ensure balanced coverage and minimal interference between APs.

According to the RUCKUS One Online Help - RF Management and Auto Cell Sizing and RUCKUS AI documentation - RF Optimization Tools, ACS:

Automatically adjusts radio transmit power (B) based on environmental conditions and neighboring AP coverage.

Requires background scanning to be enabled (D) so the system can measure the surrounding RF conditions and interference patterns.

ACS does not automatically adjust channel selection, as that functionality is handled by ChannelFly, a separate RUCKUS technology. It is not enabled by default, and manual power tuning is typically disabled when ACS is active, since the controller manages power dynamically to maintain optimal cell overlap.

Thus, the correct answers are B (it can automatically adjust radio power) and D (it requires background scanning to be enabled).

Reference:

RUCKUS One Online Help - RF Optimization: Auto Cell Sizing and ChannelFly RUCKUS Analytics 3.5 User Guide - RF Health and Adaptive Power Management RUCKUS AI Documentation - Adaptive RF Optimization and Power Adjustment Mechanisms

NEW QUESTION # 59

Which type of interference occurs when two APs are configured on channel 7 and channel 8 in the same physical space?

- A. Diffraction
- **B. Adjacent**
- C. Multipath
- D. Co-channel

Answer: B

Explanation:

When two access points operate on overlapping channels in the same frequency band—such as channel 7 and channel 8 in the 2.4 GHz range—they create Adjacent Channel Interference (ACI). Unlike co-channel interference (CCI), which occurs when APs share the exact same channel, ACI results from partial channel overlap that causes energy spillover between adjacent frequencies.

According to RUCKUS One Online Help - Radio Configuration and Channel Planning, adjacent channels in 2.4 GHz are only 5 MHz apart, while each Wi-Fi channel occupies 20-22 MHz of bandwidth. As a result, channels like 7 and 8 significantly overlap, creating degraded performance, retransmissions, and reduced throughput.

RUCKUS's ChannelFly technology in both RUCKUS AI and RUCKUS Analytics helps automatically select non-overlapping channels (such as 1, 6, and 11) to minimize ACI and optimize network capacity.

Therefore, the correct answer is A - Adjacent interference, which directly applies to overlapping channel configurations.

References:

RUCKUS One Online Help - Radio Channel Planning and ChannelFly Operation
RUCKUS Analytics 3.5 User Guide - RF Interference Detection and Channel Utilization
RUCKUS AI Documentation - Channel Optimization and Interference Management

NEW QUESTION # 60

What is a true statement regarding MIMO in Wi-Fi networks?

- A. It needs support on the AP only.
- B. It uses a single transmitter.
- **C. It was introduced in 802.11n.**
- D. It is supported upstream only.

Answer: C

Explanation:

MIMO (Multiple Input, Multiple Output) is a fundamental wireless technology that enhances Wi-Fi throughput and reliability by transmitting multiple data streams simultaneously using multiple antennas on both the transmitter and receiver. It was introduced in the IEEE 802.11n standard, which marked the beginning of high-throughput (HT) Wi-Fi.

According to RUCKUS One Online Help and the RUCKUS Analytics 3.5 User Guide, MIMO enables spatial multiplexing, diversity gain, and beamforming, allowing higher data rates and improved signal quality in multipath environments. Subsequent standards (802.11ac and 802.11ax) expanded this concept to MU-MIMO (Multi-User MIMO), allowing simultaneous communication with multiple clients.

MIMO requires support on both the AP and client for full functionality; otherwise, the connection falls back to single-stream operation. It is used in both uplink and downlink directions (especially in Wi-Fi 6 and later). Thus, option B—introduced in 802.11n—is correct, while options A, C, and D are incorrect.

Reference:

RUCKUS One Online Help - PHY Technologies and MIMO Concepts
RUCKUS Analytics 3.5 User Guide - Radio Metrics and Client PHY Data
RUCKUS AI Documentation - Wi-Fi 6 (802.11ax) MIMO and MU-MIMO Capabilities

NEW QUESTION # 61

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