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DEMO VERSION

RUCKUS

RCWA Exam

RUCKUS Certified Wi-Fi Associate Exam

Exam Latest Version: 6.0

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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 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. |
| Topic 3 | <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 4 | <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 5 | <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 6 | <ul style="list-style-type: none"> Foundational Wi-Fi technologies, standards & concepts: This section of the exam measures skills of the Certified Logistics Associate and covers the foundational principles of Wi-Fi, including radio frequency (RF) concepts, global 802.11 standards, and frequency channelization up to the latest standards (a • b • g • n • ac • ax BE). It assesses knowledge of antenna characteristics, the difference between Mesh and point-to-point connections, and the basics of authentication methods, including certificate usage and the high-level steps of client roaming across access points. |

RUCKUS Certified Wi-Fi Associate Exam Sample Questions (Q73-Q78):

NEW QUESTION # 73

What is the most effective RUCKUS tool to identify chronic connectivity failures affecting specific clients over time?

- A. RUCKUS Analytics
- B. SmartMesh Dashboard
- C. SmartZone Trace Tool
- D. Cluster Diagnostics

Answer: A

Explanation:

RUCKUS Analytics provides historical and AI-driven insights into network health and client connectivity trends. It identifies chronic connectivity issues, such as repeated association failures, high retry rates, or roaming delays, over extended timeframes.

According to the RUCKUS Analytics 3.5 User Guide - Client Troubleshooting and Service Assurance, the platform uses machine learning to analyze large volumes of telemetry data from APs, automatically flagging recurring issues per client or SSID.

The SmartZone Trace Tool captures short-term packet traces, while Cluster Diagnostics and SmartMesh Dashboard focus on infrastructure health—not client behavior.

References:

RUCKUS Analytics 3.5 User Guide - Client Experience and Failure Pattern Analysis RUCKUS One Online Help - RUCKUS Analytics Integration and Insights RUCKUS AI Documentation - Predictive Issue Detection and Root Cause Analysis

NEW QUESTION # 74

Which RUCKUS feature ensures clients are directed to the best frequency band (2.4 GHz or 5 GHz) during association?

- A. SmartCast
- B. ChannelFly
- C. Band Balancing
- D. Band Steering

Answer: D

Explanation:

Band Steering is a RUCKUS feature designed to guide dual-band capable clients toward the 5 GHz band, which generally provides better performance and less interference than 2.4 GHz.

As described in RUCKUS One Online Help - Band Steering Configuration and RUCKUS AI Documentation - Client Connectivity Optimization, when a client attempts to connect, the AP temporarily delays responses to 2.4 GHz probes, encouraging the client to associate on 5 GHz.

This feature enhances airtime efficiency and reduces congestion in dense environments. Band Balancing distributes clients between APs, while SmartCast and ChannelFly manage QoS and channel optimization, respectively.

Reference:

RUCKUS One Online Help - Band Steering and Dual-Band Optimization

RUCKUS Analytics 3.5 User Guide - Client Association and Band Utilization Analysis RUCKUS AI Documentation - Dynamic Band Selection for Dual-Band Clients

NEW QUESTION # 75

Which two inputs are critical when using RUCKUS Wi-Fi Planner to design a predictive wireless network? (Choose two.)

- A. AP model selection
- B. DHCP server IP
- C. DNS server address
- D. Building wall materials
- E. Controller cluster size

Answer: A,D

Explanation:

RUCKUS Wi-Fi Planner (Wi-R Planner) is a predictive design tool that helps plan AP placement and coverage before physical deployment. It relies on environmental and hardware data to simulate accurate RF propagation.

According to RUCKUS One Online Help - Wi-Fi Planner Configuration, essential inputs include:

AP model selection (A): Determines transmit power, antenna gain, and coverage pattern.
Building wall materials (C): Define RF attenuation and signal propagation characteristics.
Parameters like DHCP/DNS settings or controller cluster size are not required for predictive modeling—they're part of post-deployment configuration.

Reference:

RUCKUS One Online Help - Wi-Fi Planner and RF Prediction

RUCKUS Analytics 3.5 User Guide - Pre-deployment Planning and Validation Metrics RUCKUS AI Documentation - Predictive Design and RF Modeling Best Practices

NEW QUESTION # 76

An administrator has installed a valid SSL certificate within SmartZone.

Which condition explains why the WISPr service does not use this certificate?

- A. Unique certificates are required for WISPr.
- B. Certificate has to be a wildcard certificate.
- C. Certificate Signing Request was not completed correctly.
- D. **Certificate is not mapped to the WISPr service.**

Answer: D

Explanation:

When a valid SSL certificate is installed on SmartZone, it is not automatically applied to all services. The WISPr (Wireless Internet Service Provider roaming) portal must have the certificate explicitly mapped to it in the Web Authentication settings.

According to RUCKUS One Online Help - Certificate Management and Portal Configuration, SSL certificates must be bound to individual services such as WISPr, SmartZone GUI, or AP web services. If a certificate is uploaded but not mapped, the portal continues using the default system certificate, leading to trust or validation errors for guest users.

The certificate does not need to be a wildcard, and WISPr can share a certificate with other services as long as it's properly assigned.

Reference:

RUCKUS One Online Help - SSL Certificate Installation and Mapping for WISPr RUCKUS Analytics 3.5 User Guide - Web

Authentication and Certificate Validation Logs RUCKUS AI Documentation - Secure WISPr and HTTPS Certificate Configuration

NEW QUESTION # 77

Client connections in a RUCKUS outdoor deployment are unstable at the outer edge. These client signals are not strong enough to properly communicate to the AP.

What action will resolve this issue?

- A. Enable RTS/CTS mechanisms
- B. Increase outdoor AP power
- C. **Implement antennas with increased gain**
- D. Change client polarity to match AP

Answer: C

Explanation:

(This question is intentionally repeated for reinforcement, and the correct logic remains identical to Q35.) RUCKUS documentation consistently advises increasing antenna gain instead of transmit power when client devices (e.g., smartphones, tablets) cannot sustain uplink performance.

Directional or high-gain antennas improve the effective radiated power (ERP) in the intended coverage direction and strengthen both uplink and downlink paths without violating regulatory limits.

RUCKUS AI and RUCKUS Analytics tools can identify poor edge-client SNRs, confirming when directional antenna optimization is necessary.

Reference:

RUCKUS One Online Help - Outdoor Wi-Fi Optimization and Antenna Gain Guidelines RUCKUS Analytics 3.5 User Guide - Edge Client Performance Diagnostics RUCKUS AI Documentation - RF Optimization and Uplink Path Gain Improvement

NEW QUESTION # 78

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