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RCWA Exam Study Guide

RUCKUS COMMSCOPE

RCWA

RUCKUS Certified Wi-Fi Associate Exam

HIGHLIGHTS

How to Register

Register online at the RUCKUS Certifications Store

Passing Score

67% or better

Number of Questions

52

Exam Duration

2 Hours

Proctoring

This exam is **remote proctored.**

See the What to Expect document for details.

Validity Period

The RCWA Certification is valid for a period of three (3) years

Retake Policy

Once passed, you may not retake the exam except to recertify.

If failed, you may retake the exam immediately, however, after a second attempt you must wait 14 days. After a third or fourth attempt, you must wait 30 days. No more than 5 retakes are allowed within one year from your first attempt.

Exam Description

As a RUCKUS Certified Wi-Fi Associate (RCWA), you must be able to design, deploy and manage RUCKUS Wi-Fi solutions in a variety of production environments. This exam assesses your ability to design, configure, administer, troubleshoot and optimize RUCKUS Wi-Fi solutions.

The price for sitting the exam is $150 USD.

Ideal Candidate

Before attempting the exam, you should have these critical competencies and experience:

- Basic RF fundamentals and methodologies
- Basic Routing and Switching
- Basic understanding of the IEEE 802.11 standards
- Purpose and methodologies of RF Site Surveys
- Data Networking Services (DHCP/DNS/NAT/Firewall/ RADIUS/PoE/NTP/Certificates/LDAP)
- RUCKUS Wi-Fi products and supporting software
- RUCKUS differentiating features and their function s (BeamFlex, ChannelFly)

Preparatory Courses and Study Materials

RUCKUS provides a variety of free online supporting courses listed on page 3 of this document. The Exam Blueprint starting on page 2 an overview of the topics covered in the exam. You can also use our RCWA Nutshell Study Guide.

Target Audience

This certification is designed for wireless network designers, installers and administrators, Wi-Fi solutions architects and Wi-Fi support engineers tasked with design, installation, configuration, management, administration and troubleshooting of RUCKUS Wi-Fi deployments.

Self-Assessment Worksheet

To help you identify areas to focus your study activities, we offer a self-assessment worksheet that allows you to rate your confidence on the many topics covered in the exam. Below you'll find a blueprint of these topics with links into support documentation, followed by a list of supporting courseware.

CommScope RUCKUS

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There is no doubt that you can certainly understand every important knowledge point without difficulty and pass the exam successfully with our RCWA learning prep as long as you follow the information that we provide to you. After you purchase our RCWA test materials, then our staff will immediately send our RCWA training guide to you in a few minutes. Please believe that we dare to guarantee that you will pass the RCWA exam for sure because we have enough confidence in our RCWA preparation torrent.

RUCKUS RCWA Exam Syllabus Topics:

Topic	Details
Topic 1	• 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 2	• 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	• 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	• 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	• 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.

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RUCKUS Certified Wi-Fi Associate Exam Sample Questions (Q20-Q25):

NEW QUESTION # 20
Which SmartZone controller interface is present only in the physical hardware appliance?

- A. Management
- B. Cluster
- C. Control
- D. Data

Answer: D

Explanation:
TheData Interfaceis unique tophysical SmartZone (SZ) hardware appliancessuch as theSmartZone 100 (SZ-100)orSmartZone 300 (SZ-300). This interface handlesuser traffic data forwardingin hardware-based deployments and isnot presentin virtualized versions such as thevSZ (Virtual SmartZone).

According to theRUCKUS One Online HelpandSmartZone system architecture descriptions, the physical controller includes four main interfaces:
* Management Interface:Handles GUI, CLI, and administrative access.
* Control Interface:Manages control-plane communications with access points.
* Cluster Interface:Manages synchronization and redundancy between cluster members.
* Data Interface:Dedicated for data-plane traffic processing and forwarding (exclusive to physical appliances).
Virtual SmartZone controllers usetunnel-based data forwarding(via GRE or VXLAN) instead of a dedicated hardwareData Interface. Hence, theData interfaceexists only on physical appliances, makingAthe correct answer.
References:
RUCKUS One Online Help - SmartZone Controller Network Interfaces
RUCKUS Analytics 3.5 User Guide - Controller Data Plane Monitoring and Interface Metrics RUCKUS AI Documentation - SmartZone Hardware Architecture Overview (docs.cloud.ruckuswireless.com /RUCKUS-AI/userguide/index.html)

NEW QUESTION # 21
Which RUCKUS One capability provides centralized visibility of SLA compliance and end-user experience across multiple sites?

- A. SmartZone Essentials
- B. SmartMesh
- C. RUCKUS Analytics
- D. ZoneDirector

Answer: C

Explanation:
RUCKUS Analyticsis a cloud-based network intelligence platform integrated withRUCKUS Onethat providesservice-level assurance (SLA)andend-user experience visibilityacross multiple sites and networks.
According to theRUCKUS Analytics 3.5 User Guide, it leverages AI-driven baselines and telemetry data from access points and switches to:
* Detect anomalies
* Measure Wi-Fi performance against SLAs
* Generate detailed client experience reports
SmartZone Essentialshandles local management,ZoneDirectoris legacy controller software, andSmartMesh is a wireless backhaul technology-not a management analytics system.
References:
RUCKUS Analytics 3.5 User Guide - SLA Dashboard and Client Experience Analysis RUCKUS One Online Help - Integration of Analytics with Cloud Management RUCKUS AI Documentation - End-to-End Service Assurance and AI-driven Insights

NEW QUESTION # 22
Which two 802.1X Roles are available when 802.1X is enabled on an Access Port in an Ethernet Port Profile? (Choose two.)

- A. Authentication Server
- B. MAC-based Authenticator
- C. Port-based Authenticator
- D. Host-based Authenticator
- E. Supplicant

Answer: C,E

Explanation:
When enabling 802.1X authentication on a RUCKUS Access Port via an Ethernet Port Profile (used for ICX switches or AP wired interfaces), the available roles are:
(A) Supplicant: The device (AP or switch port) acts as the client that must authenticate to the upstream authenticator (e.g., a switch or NAC system).
(C) Port-based Authenticator: The device enforces 802.1X authentication for devices connected to it (e.g., a switch controlling a connected host).
According to RUCKUS One Online Help - 802.1X and Wired Authentication Configuration and RUCKUS Analytics 3.5 User Guide - Wired Client Authentication Monitoring, these two roles define whether the port initiates or enforces authentication.
"Host-based" and "MAC-based" refer to specific authentication methods, not roles, and "Authentication Server" (e.g., RADIUS) is

an external entity, not a port role.
Reference:
RUCKUS One Online Help - Ethernet Port Profiles and 802.1X Role Configuration RUCKUS Analytics 3.5 User Guide - Wired 802.1X Auth Flow Analysis RUCKUS AI Documentation - Wired Authentication Role Mapping in SmartZone

NEW QUESTION # 23
What unit is commonly used to display RSSI values?

- A. dBi
- B. dBm
- C. Watts
- D. Ohms

Answer: B

Explanation:
RSSI (Received Signal Strength Indicator) is a key measurement representing the power level of a received RF signal. It is typically displayed in dBm (decibel-milliwatts), a logarithmic unit that expresses the power relative to 1 milliwatt. In Wi-Fi systems, RSSI values usually range between -30 dBm (excellent) and -90 dBm (very weak).
According to the RUCKUS One Online Help and the RUCKUS Analytics 3.5 User Guide, signal strength metrics shown in dashboards, client views, and RF reports are represented in dBm for consistency across platforms. This allows network engineers to correlate signal levels with client connectivity performance and thresholds used for roaming or troubleshooting.
Other units such as dBi refer to antenna gain, Watts measure absolute power (not typically used in client reporting), and Ohms measure resistance. Thus, dBm is the correct and standard unit used for RSSI measurement in RUCKUS and all IEEE 802.11-based systems.
Reference:
RUCKUS One Online Help - Radio Settings and Signal Strength Indicators
RUCKUS Analytics 3.5 User Guide - Client Signal and Noise Metrics
RUCKUS AI Documentation - Understanding RSSI, SNR, and RF Metrics

NEW QUESTION # 24
Load Balancing can be configured to balance clients across access points based on which two criteria? (Choose two.)

- A. Client count
- B. Proximity
- C. Client RSSI
- D. Client device type
- E. AP capacity

Answer: A,C

Explanation:
Client Load Balancing in RUCKUS WLANs is designed to optimize client distribution among nearby access points, preventing over-association to a single AP and improving overall airtime efficiency.
According to the RUCKUS One Online Help - Load Balancing and Band Steering and RUCKUS Analytics 3.5 User Guide - Client Distribution Analysis, SmartZone load balancing can be configured using two key parameters:
Client RSSI (B): The system evaluates the signal strength of a client device relative to multiple APs to ensure that it connects to the most suitable AP, not necessarily the strongest or first one detected.
Client Count (C): Balances client connections by redistributing associations when one AP exceeds a configured threshold compared to its neighbors.
AP capacity and device type are not direct load-balancing criteria, and proximity is implicitly derived from RSSI measurements rather than configured explicitly.
Therefore, the correct answers are B (Client RSSI) and C (Client count).
Reference:
RUCKUS One Online Help - Client Load Balancing Configuration
RUCKUS Analytics 3.5 User Guide - AP Load and Client Distribution Monitoring RUCKUS AI Documentation - Load Balancing and Client Steering Optimization

NEW QUESTION # 25

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With the help of performance reports of RUCKUS Certified Wi-Fi Associate Exam (RCWA) Desktop practice exam software, you can gauge and improve your growth. You can also alter the duration and RUCKUS Certified Wi-Fi Associate Exam (RCWA) questions numbers in your practice tests. Questions of this RUCKUS Certified Wi-Fi Associate Exam (RCWA) mock test closely resemble the format of the actual test. As a result, it gives you a feeling of taking the actual test.

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