



300-365

Deploying Cisco Wireless Enterprise Networks

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SUCCESS GUIDE TO CISCO CERTIFICATION

Exam Summary – Syllabus – Questions

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Introduction to 300-365 Exam on Deploying Cisco Wireless Enterprise Networks

A great way to start the Cisco Certified Network Professional Wireless (WIDEPLOY) preparation is to begin by properly appreciating the role that syllabus and study guide play in the Cisco 300-365 certification exam. This study guide is an instrument to get you on the same page with Cisco and understand the nature of the Cisco CCNP Wireless exam.

Our team of experts has composed this Cisco 300-365 exam preparation guide to provide the overview about Cisco Deploying Cisco Wireless Enterprise Networks exam, study material, sample questions, practice exam and ways to interpret the exam objectives to help you assess your readiness for the Cisco WIDEPLOY exam by identifying prerequisite areas of knowledge. We recommend you to refer the simulation questions and practice test listed in this guide to determine what type of questions will be asked and the level of difficulty that could be tested in the Cisco CCNP Wireless certification exam.

Cisco 300-365 Certification Details:

| | |
|----------------------|---|
| Exam Name | Deploying Cisco Wireless Enterprise Networks |
| Exam Number | 300-365 WIDEPLOY |
| Exam Price | \$300 USD |
| Duration | 90 minutes |
| Number of Questions | 55-65 |
| Passing Score | Variable (750-850 / 1000 Approx.) |
| Recommended Training | Deploying Cisco Wireless Enterprise Networks (WIDEPLOY) |
| Exam Registration | <u>PEARSON VUE</u> |
| Sample Questions | Cisco 300-365 Sample Questions |
| Practice Exam | Cisco Certified Network Professional Wireless Practice Test |

Cisco 300-365 Exam Syllabus:

| Section | Weight | Objectives |
|---|--------|---|
| Implement QoS for Wireless Applications | 13% | <p>1. Describe and implement general considerations for wired QoS</p> <ol style="list-style-type: none"> Configurations DSCP/IP precedence to 802.1p mapping Voice VLAN Trust boundaries <p>2. Describe and implement the appropriate wireless QoS deployment schemes</p> <ol style="list-style-type: none"> 802.11e / WMM Mapping-wired to wireless Alloy QOS <p>3. Configure infrastructure QoS for wireless clients</p> <ol style="list-style-type: none"> CAC TSPEC EDCA parameters Queues Bandwidth control and override <p>4. Implement AVC</p> <ol style="list-style-type: none"> Configure AVC Profiles Netflow/NBAR2 Monitor AVC Controller PI |
| Implement Multicast over Wireless | 13% | <p>1. Describe general multicast concepts</p> <ol style="list-style-type: none"> PIM Cisco Group Management Protocol IGMP snooping RP <p>2. Describe implications for multicast in 802.11</p> <ol style="list-style-type: none"> Highest mandatory data rate Unicast and multicast modes Roaming |

| Section | Weight | Objectives |
|--|--------|--|
| | | <ul style="list-style-type: none"> 4. Controllers having same CAPWAP multicast group 5. Video stream (reliable multicast) 6. mDNS <p>3. Configure multicast in a wireless network</p> <ul style="list-style-type: none"> 1. Infrastructure multicast group 2. IGMP snooping on the controller 3. Video stream (reliable multicast) 4. Switch peer group / Mobility group multicast <p>4. Configure mDNS</p> <ul style="list-style-type: none"> 1. mDNS gateway 2. LSS 3. Service advertisement 4. MAC priority 5. AAA override 6. ISE portal 7. Static advertisements on converged access 8. mDNS profiling |
| Implement High Density | 13% | <p>1. Design for High Density</p> <ul style="list-style-type: none"> 1. High client count (high capacity) 2. High AP count (high density) <p>2. Implement RXSOP</p> <p>3. Implement enhanced roaming</p> <p>4. Implement AP Groups</p> <ul style="list-style-type: none"> 1. RF profiles <p>5. Implement interface groups</p> <p>6. Implement client limits</p> <ul style="list-style-type: none"> 1. Per Radio 2. Per WLAN 3. Per Interface |
| Design and Deploy WLAN Infrastructure for Mobility | 18% | <p>1. Describe the impact of client VLAN assignment on mobility</p> <ul style="list-style-type: none"> 1. AP group VLANS |

| Section | Weight | Objectives |
|----------------------------------|--------|--|
| | | <ul style="list-style-type: none"> 2. Identity based networking 2. Minimize inter controller roaming 3. Describe mobility control plane architectures 4. Describe mobility tunneling process <ul style="list-style-type: none"> 1. Formation <ul style="list-style-type: none"> Ability to identify the tunnels created 2. Tear down 3. Messaging 4. Handoff types 5. Implementing client mobility <ul style="list-style-type: none"> 1. Switch Peer Group (SPG) 2. Mobility groups 3. Mobility lists 4. Anchoring 5. Virtual interface continuity 6. Mobility Optimization (11k/11v) 7. Verify resulting mobility tunneling structure |
| Implement Cisco MSE Architecture | 12% | <ul style="list-style-type: none"> 1. Describe Cisco MSE capabilities and integration with wireless network architecture <ul style="list-style-type: none"> 1. Context aware 2. Adaptive wireless IPS 3. Analysis 4. CleanAir 5. Scalability 2. Describe location techniques <ul style="list-style-type: none"> 1. Angulation 2. Cell of origin 3. TDoa and ToA lateration 4. RSS lateration 5. Pattern recognition 6. RF Fingerprinting 7. Compare probe based location vs data frame based location 8. Bluetooth Low Energy (BLE) 3. Identify the relevant parameters required Initialize MSE for network operations 4. Implement base location services |

| Section | Weight | Objectives |
|---|--------|---|
| | | <ol style="list-style-type: none"> 1. Calibration procedure <ul style="list-style-type: none"> PI based Ekahau based 2. Complex environments <ul style="list-style-type: none"> Mixed use environments Complex RF environments Small areas (i.e new presence capabilities) Multi-floor facilities Recalibration 3. NMSP 4. Synchronization 5. History parameters 6. Tracking parameters <ul style="list-style-type: none"> Active RFID tag WiFi-Devices Active Interferes Rogue devices 5. Implement advanced location services <ol style="list-style-type: none"> 1. Analytics <ul style="list-style-type: none"> Location (zone based) Presence (site based) 2. Visitor connect 3. Describe AppEngage 4. Facebook for Wi-Fi 6. Integrate MSE with PI <ol style="list-style-type: none"> 1. Identify the relevant components to integrate the MSE with PI 2. Identify the relevant steps to Integrate MSE with PI 3. Identify the relevant steps required to Maintain MSE |
| Design and Implement FlexConnect Architecture | 12% | <ol style="list-style-type: none"> 1. Compare and contrast the components of FlexConnect architecture <ol style="list-style-type: none"> 1. Local switching vs Central switching 2. Local Auth vs Central Auth 3. Connected mode vs Standalone mode 2. Describe and implement the capabilities of a FlexConnect group <ol style="list-style-type: none"> 1. VLAN mapping |

| Section | Weight | Objectives |
|---|--------|---|
| | | <ul style="list-style-type: none"> 2. ACLs 3. AP Image upgrade 4. Authentication and key management 5. Central vs Local DHCP <p>3. Describe the impact of FlexConnect architecture on roaming</p> <ul style="list-style-type: none"> 1. ACLs 2. Authentication 3. Key management 4. Real time application <p>4. Describe and implement Office Extend operation</p> <ul style="list-style-type: none"> 1. Configuration Controller AP 2. Split tunneling for printing and general traffic |
| Implement Controller and AP High Availability | 10% | <ul style="list-style-type: none"> 1. Configure the wireless network for high availability <ul style="list-style-type: none"> 1. LAG vs Port based 2. Backup primary and backup secondary outside of mobility group 3. Anchor controller redundancy 2. Configure high availability for the AP <ul style="list-style-type: none"> 1. AP fallback 2. AP prioritization 3. Legacy primary ,secondary, and tertiary 3. Configure high availability for the Controller <ul style="list-style-type: none"> 1. AireOS Stateful switch over (SSO) 2. IOS-XE Stateful switch over (SSO) Stacking |
| Wireless Bridging (MESH) | 10% | <ul style="list-style-type: none"> 1. Describe the following MESH AP modes of operation <ul style="list-style-type: none"> 1. RAP |

| Section | Weight | Objectives |
|---------|--------|--|
| | | <ul style="list-style-type: none"> 2. MAP 3. Flex on MESH 2. Describe the considerations for a MESH deployment <ul style="list-style-type: none"> 1. Hop count 2. Backhaul caveats 3. AP authorization 4. Outdoor RF considerations 5. VLAN transparent bridging 3. Describe the convergence of a MESH network <ul style="list-style-type: none"> 1. Cisco AWPP 2. Bridge group names 3. Parent selection 4. Fast convergence modes 5. Re-convergence 4. Implement workgroup bridge <ul style="list-style-type: none"> 1. Proprietary Reliable multicast Roaming 2. Universal 5. Describe the passive client feature <ul style="list-style-type: none"> 1. No IP address learning 2. Third party WGB support |

300-365 Sample Questions:

01. Which two methods to discover a controller does a MAP attempt when it boots up?

(Choose two.)

- a) if Ethernet is disconnected, it attempts to connect wirelessly using AWPP.
- b) If Ethernet and wireless are available, it attempts to discover only via Ethernet.
- c) if only wireless is available and it is configured as a MAP, it does not attempt to connect to a WLC.
- d) If Ethernet and wireless are available, it uses Ethernet first. If it cannot connect via Ethernet, then it chooses wireless.
- e) If Ethernet is disconnected, it attempts to connect wirelessly using the configured DHCP option.

02. You have just added a new MSE to Prime Infrastructure and want to synchronize the MSE with your 5508 WLC, which is located behind a firewall in a DMZ. You notice that NMSP messages are failing between the two devices. What traffic needs to be allowed on the Firewall to ensure the MSE and WLC can communicate using NMSP?

- a) UDP 16113
- b) TCP 1613
- c) TCP 16113
- d) 1613

03. A network engineer is configuring QoS and sees a DSCP value of 40. To which CoS value will this be mapped?

- a) 4
- b) 3
- c) 5
- d) 2
- e) 1

04. On which AP radio or radios is Cisco WGB association supported?

- a) 2.4 GHz only
- b) 2.4 or 5 GHz only
- c) 2.4, 5, or 4.9 GHz
- b 5 GHz only

05. A customer has implemented a N+1 high availability plan in a multistory building. All APs on odd numbered floors are set as primary to WLC-A and all APs on even numbered floors are set as primary to WLC-8. Which two problems are likely to arise from this design?

(Choose two)

- a) inconsistent CleanAir data due to multiple WLCs
- b) floor-to-floor bleed-through that causes intercontroller roaming delays
- c) AVC inconsistency due to multiple mobility group members
- d) legacy device compatibility with multiple WLC configuration that causes disconnects
- e) unpredictable AP loading during a WLC failure

06. What are two functions of the RAP in a mesh network?

(Choose two.)

- a) It provides a wired connection for the wireless mesh APs.
- b) It adds capacity and resilience to a mesh area.
- c) it creates a centralized management location for the mesh network.
- d) it reduces the hop count to the wireless network that is connected to the edge.
- e) it routes traffic from the wireless mesh to the wired network.

07. 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) IGMP snooping is turned off because the client cannot request to join a group, only access points can.
- b) Video-stream for the multicast video is configured in the controller.
- c) WLAN has been set for a QoS value of Platinum.
- d) WLAN has been configured to allow multicast-direct to work correctly and multicastdirect has been enabled globally.
- e) WLAN has been set for a QoS value of Gold.
- f) RTSP is used to stream the video due to wireless multicast not using acknowledgements.

08. Which network is connected by default when connecting to the unused Ethernet port of a MAP?

- a) the native VLAN that the MAP is connected to
- b) the VLAN that is associated with WLAN number 1 in the WLC
- c) the native VLAN that the WLC is connected to
- d) the VLAN that is associated with the SSID that the MAPs are communicating on

09. A network engineer observes a spike in controller CPU overhead and overall network utilization after enabling multicast on a controller with 500 APs. What feature is necessary to correct the issue?

- a) controller IGMP snooping
- b) unicast AP Multicast Mode
- c) broadcast forwarding
- d) multicast AP Multicast Mode

10. CMX Facebook WiFi can allow access to the network before authentication. Which two of the following options are available?

(Choose two)

- a) Allow all the traffic before authentication and intercept HTTPs only.
- b) Allow HTTP traffic only before authentication and block all the traffic.
- c) Allow SNMP traffic only before authentication and block all the traffic.
- d) Allow all the traffic before authentication and intercept HTTP only.
- e) Allow HTTPs traffic only before authentication and block all other traffic.

Answers to 300-365 Exam Questions:

| | | | | |
|------------------------------|---------------------------------|---------------------------|---------------------------|------------------------------|
| Question: 01 Answer: a, b | Question: 02 Answer: c | Question: 03 Answer: c | Question: 04 Answer: b | Question: 05 Answer: a, c |
| Question: 06 Answer: b, d | Question: 07 Answer: b, d, e | Question: 08 Answer: a | Question: 09 Answer: b | Question: 10 Answer: b, d |

Note: If you find any typo or data entry error in these sample questions, we request you to update us by commenting on this page or write an email on feedback@nwexam.com