Cisco Unified Wireless Networking

Length
4 days

Format
Lecture/lab

Version
4.1

CUWN

Course Description

CUWN focuses on lightweight access points, controllers, and the advanced feature set. This course provides you with the experience and skills that you need to plan, deploy, and manage enterprise WLANs using the Cisco Unified Wireless Network solution.

Who Should Attend

This course is designed for network professionals who are interested in the Cisco Unified Wireless Network solution, have a strong data networking background, and will be responsible for planning, deploying, and managing the enterprise WLAN using lightweight access points, controllers, and the advanced feature set.

Recommended Prerequisites

- Microsoft Windows XP operating system
- Authentication, Authorization, and Accounting (AAA) Concepts
- RADIUS
- Lightweight Directory Access Protocol (LDAP)
- Data networking concepts
- Open systems interconnection (OSI) model
- Switching and routing
- Virtual local area network (VLAN)
- Data networking protocols
- Spanning tree protocol (STP)
- Internet group management protocol (IGMP)
- TCP/IP
- 802.1Q protocol
- Wireless networking concepts

Learning Objectives

After completing this course, you will be able to:

- Identify functionality unique to each Cisco Wireless LAN Controller
- Identify the functionality of Cisco access point hardware
- Describe the function and operation of Cisco LWAPP
- List the properties of the Auto RF function
- List the three interfaces used for Cisco wireless hardware management
- Implement Cisco wireless controller hardware using initial setup and command-line interface
- Implement Cisco wireless controller hardware using initial setup and web interface

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Learning Solutions

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Cisco Unified Wireless Networking

Course Outline

Lesson 1: Cisco Unified WLAN Solution Enterprise WLAN Solutions

Lesson 2: Cisco Unified Wireless
Hardware Installation
Controller Hardware
Access Points
Controller Setup-CLI
Web-based Controller Setup
Configuration using Web Management
Access Point Operation Modes
Cisco LWAPP
Auto RF Functions

Lesson 3: Cisco Unified Wireless
Network Administration
Ports and Interfaces
VLAN Administration
DHCP Configuration
Roaming
WLAN Configuration
Weak Security Policies
QoS
General Network Communication

Lesson 4: WLAN Security
Security Configuration
Security Policy Administration

Lesson 5: WLAN Maintenance
WLAN Troubleshooting
Gathering WLAN Traffic and Data
WLAN Policies and Management
Device Code and Configuration Management

Lesson 6: Cisco Wireless Control System
Wireless Control System Overview
WCS Architecture Overview
WCS Installation
WCS Administration
WCS Configuration Tab
WCS Monitor Tab
WCS Upgrade, Backup, and Restore
WCS Troubleshooting

Lesson 7: Cisco Location Tracking
WCS Location
WCS with Cisco Location Serve

Lab 1: System Setup

Lab 2: Controller Web Configurations

Lab 3: Layer 3 Options Configuration

Lab 4: Open Authentication

Lab 5: Web Authentication

Lab 6: WEP Authentication

Lab 7: 802.1X EAP-PEAP-MSCHAPv2 Authentication

Lab 8: WPA EAP-PEAP-MSCHAPv2 Authentication

Lab 9: WPA2 EAP-PEAP-MSCHAPv2 Authentication

Lab 10: Wireless Control System

Lab 11: System Upgrade

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