



Aironet Wireless LAN Advanced Topics

Length
4 days

Format
Lecture/lab

Version
2.0

Course Description

This 4-day, lab-intensive course examines advanced WLAN network design, management, and troubleshooting for the Cisco Unified Wireless Network. Lectures and hands-on labs cover deployments based on lightweight access points, controllers, and the advanced feature set, and also autonomous access points and the core feature set. Advanced WLAN security, management, and mobility services are also addressed.

Who Should Attend

This course is targeted to system engineers, field engineers, technical engineers, network integrators, and technical sales personnel, who need to know how to sell, design, install, integrate, and support wireless networks, or who are tasked with performing or overseeing site surveys for wireless LAN solution implementations.

Recommended Prerequisites

- Aironet Wireless LAN Fundamentals (AWLF)
- Knowledge of fundamental networking components and terminology
- Knowledge of basic WLAN components and functions

AWLAT

Learning Objectives

After completing this course, you will be able to:

- Describe all the technical features, functions, and benefits of the WLAN product offerings available from Cisco
- Install advanced feature set hardware for optimal functioning
- Install and manage the CiscoWorks WLSE and infrastructure devices.
- Explain WCLS WLAN management
- Troubleshoot and maintain a wireless network
- Administer security so that the network is safe from attack



Learning
Solutions



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Course Outline

Module 1: Cisco Unified Wireless Network Concepts

Lesson 1: Describing Cisco Aironet Autonomous Access Points

Lesson 2: Describing the Cisco Unified Wireless Network

Module 2: Implementing the WLAN with Cisco WCS

Lesson 1: Installing the WLAN Controller

Lesson 2: Installing the Cisco Wireless Control System

Module 3: The Cisco Core Feature Set

Lesson 1: Introducing the Cisco WLAN Core Feature Set based on Autonomous Access Points

Lesson 2: Implementing Radio Management for Cisco Autonomous Access Points

Module 4: WLAN Management

Lesson 1: Managing the WLAN from the WLAN Controller

Lesson 2: Managing the Cisco Unified Wireless Network using Cisco WCS

Lesson 3: Managing the Cisco WLAN Controller

Lesson 4: Describing CiscoWorks WLSE Management with Autonomous Access Points

Module 5: Wireless Network Troubleshooting

Lesson 1: Troubleshooting the Cisco Advanced Feature Set Wireless Network

Lesson 2: Troubleshooting the CiscoWorks Wireless LAN Solution Engine

Module 6: Cisco WLAN Security

Lesson 1: Describing WLAN Security Standards

Lesson 2: Describing WLAN Security Threats and Mitigations

Lesson 3: Describing WLAN Authentication and Encryption

Lesson 4: Securing the WLAN



Learning Solutions



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Course Labs

Lab 1: Cisco Wireless LAN Controller System Setup

Lab 2: Client Configuration

Lab 3: Configure the Controller via the Cisco WCS

Lab 4: Manage the WLAN from the Cisco WCS

Lab 5: Verify the Switch Configuration

Lab 6: Configure the AAA Server

Lab 7: Configure a Factory Default CiscoWorks WLSE

Lab 8: Configure CiscoWorks WLSE Device Credentials

Lab 9: Create a Startup Configuration for Out-of-Box APs

Lab 10: Configure Auto-Managed Templates

Lab 11: Install Access Points

Lab 12: Use Cisco WCS Reports

Lab 13: Create and Apply a Security Policy

Lab 14: View and Clear Faults on the CiscoWorks WLSE

Lab 15: View Current Reports and Current Group

Lab 16: Reports on the CiscoWorks WLSE

Lab 17: Use Cisco WCS to Monitor Security

Lab 18: Use Cisco WCS to Mitigate Rogues

Lab 19: Harden the Autonomous Access Point

Lab 20: Cisco WDS and Rogue Access Point Detection using CiscoWorks WLSE



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