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Aironet Wireless LAN Advanced Topics v2.0

Keyword: AWLAT

4 Days – List Price \$2,795

Course Description

Through instructor-led training and in-depth instructor assisted, hands-on labs this advanced course is designed to give you a firm understanding of Cisco's Wireless Network. Learn to configure Cisco components to create a Cisco Integrated Wireless Network, determine the necessary processes to manage the WLAN with CiscoWorks WLSE, utilize location manager to create and monitor the radio coverage of the WLAN, determine the best practices for implementing security on an enterprise-scale integrated wired and wireless network, describe the processes used by the WLSM and Supervisor Engine 720 and understand the procedures to implement a Layer 3 roaming in a WLAN. **Lightweight access points and controllers are NOT covered in this course. For comprehensive coverage of those topics, see our Cisco Unified Wireless Network (CUWN) training course.**

Laptops are provided to participate in the hands-on labs. If you desire to use your own laptop, please bring a laptop computer with an available 32-bit CardBus slot and an Ethernet port as well as an internal wireless NIC, 802.11a/b/g. The laptop's operating systems must be either MS Windows 2000 (SP4) or XP. The laptop should also have a 9-pin serial port or USB to serial adapter. IN ADDITION, you will need administrator rights to the laptop to install drivers for the wireless client used in class.

You Learn...

After completing this course, the student should be able to:

- Describe detailed technical features, functions and benefits of the WLAN product offerings available from Cisco
- Describe the management of the core feature set WLAN
- Administer security so that the network is safe from attack

Who Would Benefit

The Cisco Aironet Advanced Wireless LAN course is targeted to technical engineers, network integrators and technical sales personnel, who need to know how to sell, design, install, support wireless networks or tasked with performing or overseeing site surveys for wireless LAN solution implementations.

Prerequisite

- Cisco Aironet Wireless LAN Fundamentals and Site Survey (AWFSS)

Follow-On Courses

- Cisco Unified Wireless Networking (CUWN)
- Cisco Wireless Mesh Networking (CWMN)
- Cisco Wireless LAN Security (CWLS)
- Cisco Advanced Wireless Bridging (CAWBL)
- Cisco Wireless Networking Site Survey (CWNSS)
- Cisco Voice over Wireless LAN (VoWLAN)

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Course Content

Module 0 -- Course Introduction

Module 1 -- Cisco Aironet WLAN Core Feature Set

- Describing Cisco Aironet WLAN Core Feature Set
- Implementing the Cisco Aironet WLAN Core Feature Set
- Lab 1-1: Client Configuration
- Lab 1-2: Verify the Switch Configuration
- Lab 1-3: Configure the AAA Server
- Lab 1-4: Configure a Factory Default WLSE
- Lab 1-5: Configure WLSE Device Credentials
- Lab 1-6: Create a Startup Configuration for "out-of-box" APs
- Lab 1-7: Configure Auto-Managed Templates
- Lab 1-8: Install Access Points

- Describing WLAN Security Threats and Mitigations
- Describing WLAN Authentication and Encryption
- Describing how to Secure the WLAN
- Lab 3-1: Rogue AP Detection and Location
- Lab 3-2: Detect Ad-Hoc Network
- Lab 3-3: Hardening the Access Point
- Lab 3-4: VLAN Security
- Lab 3-5: Using WLSE to configure VLAN Security

Module 2 – Managing the Cisco Aironet Autonomous WLAN

- Implementing CiscoWorks WLSE Radio Management for Cisco Autonomous Access Points
- Managing the Autonomous Access Points with CiscoWorks WLSE
- Lab 2-1: Create and Apply a Security Policy
- Lab 2-2: View and Clear Faults
- Lab 2-3: View Current Reports and Current Group Reports
- Lab 2-4: View Trend Reports
- Lab 2-5: Export Reports
- Lab 2-6: Verify the Java Version
- Lab 2-7: Create a Location and Import a Floor Plan
- Lab 2-8: Add Access Points to a Floor Plan in Location Manager and Configure Antenna Setup
- Lab 2-9: Run Assisted Site Survey Wizard
- Lab 2-10: Configure Auto Re-Site Survey
- Lab 2-11: Configure and Test WLSE for Self Healing
- Lab 2-12: Setup User Management
- Lab 2-13: Backup the WLSE

Module 3 – Cisco WLAN Security

- Describing WLAN Security Standards