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Cisco Training on Demand

Deploying Cisco Wireless Enterprise Networks (WIDEPLOY) v1.1

Overview

Deploying Cisco® Wireless Enterprise Networks (WIDEPLOY) version 1.1 is a Cisco Training on Demand course. It is designed to provide you knowledge to deploy Cisco wireless networks. You explore many facets of deploying Cisco wireless networks, including data, voice, and real-time applications, and outdoor and high-density designs.

The course also provides you with information about deploying wireless networks using Cisco controller and unified switching architectures, policies, and best practices, as well as ensuring the proper implementation of mobility standards and proper configuration of all aspects of wireless components.

Hands-on labs assist you in understanding how to configure and deploy the new Cisco Wireless 8.0, Prime™ Infrastructure Release 2.2, and Mobility Services Engine (MSE) Release 8.0 features.

Interested in purchasing this course in volume at discounts for your company? Contact ctod-sales@cisco.com.

Duration

The WIDEPLOY v1.1 Training on Demand is a self-paced course based on the 5-day instructor-led training version. It consists of 13 sections of instructor video and text totaling more than 11 hours of instruction along with interactive activities, 36 hands-on lab exercises, content review questions, and challenge questions.
Target Audience
This course is designed for wireless network engineers with 3 to 5 years of experience in the networking field and those preparing for the 300-365 WIDEPLOY exam.

Objectives
After completing this course, you should be able to:

- Define and deploy WLAN infrastructure for mobility
- Implement controller and access point high availability
- Design and implement high-density wireless solutions
- Design and implement Cisco FlexConnect® architectures
- Describe and implement wireless bridging (mesh) technologies
- Describe and implement quality of service (QoS) for wireless applications
- Describe and implement multicast over wireless
- Manage wireless services with Cisco Prime Infrastructure
- Implement base and context mobile experience Cisco MSE architecture

Course Prerequisites
The knowledge and skills recommended before attending this course are:

- Interconnecting Cisco Networking Devices Part 1 (ICND1)
- Implementing Cisco Wireless Network Fundamentals (WIFUND)
- Basic knowledge of Cisco Prime Infrastructure and Cisco Identity Services Engine
- Basic knowledge of Metageek Channelyzer software, voice signaling protocols, basic QoS, application visibility and control, and LAN switching

Course Outline
- Course Introduction
- Section: 1: Preparing for the Deployment
- Section: 2: Determining the Type of Wireless Design
- Section: 3: Planning the Base Wi-Fi Network Implementation
- Section: 4: Implementing the Base Wi-Fi Network
- Section: 5: Configuring Mobility and Roaming Capabilities
- Section: 6: Configuring High-Availability Options
- Section: 7: Configuring Cisco FlexConnect® Capabilities
- Section: 8: Configuring QoS and AVC
- Section: 9: Configuring Multicast
- Section: 10: Configuring Location and Context-Aware Service on Cisco MSE
• Section: 11: Configuring Cisco CMX
• Section: 12: Configuring Outdoor and Mesh Capabilities
• Section: 13: Configuring High-Density Capabilities
Labs Outline

This course contains 36 hands-on lab exercises.

**Figure 1.** Topology for All Labs in Deploying Cisco Wireless Enterprise Networks

The labs included in this course are:

- Discovery Lab: 7.5 Convert an Autonomous Access Point to a Controller-Based Access Point
- Discovery Lab: 7.6 Add a Black-Hole Interface to Both Controllers
- Discovery Lab: 7.7 Assign the Interface Named Blackhole to All WLANs
- Discovery Lab: 7.8 Create Access Point Groups to Segment the Network
- Discovery Lab: 7.9 Test Access Point Group and WLAN Segmentation
- Discovery Lab: 7.10 Configure wlc1 and wlc2 with CCNPW as the Mobility Group Name
- Discovery Lab: 7.11 Configure wlc1 and wlc2 in the Same Mobility Group
- Discovery Lab: 7.12 Configure N+1 High Availability for wlc1 and wlc2
- Discovery Lab: 7.13 Create a Local Net User
- Discovery Lab: 7.14 Create a New Local EAP Profile
- Discovery Lab: 7.15 Create a New WLAN to Use Local EAP and Local Switching
- Discovery Lab: 7.16 Change an Access Point Mode from Local to Cisco FlexConnect
- Discovery Lab: 7.17 Enable WLAN Support on a Cisco FlexConnect Access Point
- Discovery Lab: 7.18 Verify that WLAN Clients Are Switched Locally at the Access Point
- Discovery Lab: 7.19 Configure New Mobility Through the GUI
- Discovery Lab: 7.20 Reconfigure Access Points to Connect to Converged Access Wireless LAN Controllers
- Discovery Lab: 7.21 Configure sw1 ans sw2 as Mas and To Accept wlc1 as an MC
- Discovery Lab: 9.5 Configure an AVC Profile
- Discovery Lab: 9.6 Associate an AVC Profile to a WLAN
- Discovery Lab: 9.7 Use FTP and TFTP
- Discovery Lab: 9.8 View the AVC Information
- Discovery Lab: 9.9 Configure AVC Profile to control traffic
- Discovery Lab: 9.10 Try to Use FTP and TFTP Again
- Discovery Lab: 9.11 Configure QoS Profiles
- Discovery Lab: 9.12 Configure WLAN QoS
- Discovery Lab: 9.13 Configure the Frame Capture on the Switch
- Discovery Lab: 9.14 Configure the Traffic Generator
- Discovery Lab: 9.15 Analyze the Data
- Discovery Lab: 9.16 Configure Video Parameters
- Discovery Lab: 13.4 Configure RX-SOP
- Discovery Lab: 13.5 Optimize Roaming
- Discovery Lab: 13.6 Assign a Dynamic Channel in RF Profiles
- Discovery Lab: 13.7 Configure Your Access Points
- Discovery Lab: 13.8 Configure Your Access Points to Mesh
- Discovery Lab: 13.9 Define BGN and Roles and Observe the Mesh Form
- Discovery Lab: 13.10 Define BGN and Roles and Observe the Mesh Form

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