

## Using Prime Infrastructure to Manage Wireless Networks (PIMWN)

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### Course Summary

#### Description

Using Prime Infrastructure to Manage Wireless Networks (PIMWN) is an updated version of the (NMENPI and WMNGI). PIMWN focuses on using Cisco Prime Infrastructure Release 3.3 to manage Cisco wireless networks. You will begin by learning about Cisco Prime Infrastructure dashboards that give you a quick view of devices, performance information, and various incidents. In addition, you will learn to perform device management operations such as adding devices, running discovery, managing network inventories, groups, and software images, configuring device archives, and auditing configuration change on devices. Create maps using Next Generation site maps that were introduced in Cisco Prime Infrastructure Release 3.2. Effectively manage devices by creating composite templates or using predefined templates. Create a lobby ambassador and configure guest user accounts to provide secure guest access. Also, implementing the guest access feature set and controller-based features such as Bonjour Services and Application Visibility & Control. Implement local profiling and policies on the 2504 wireless LAN controller. Learn to monitor and troubleshoot your network by monitoring devices, interfaces, and the wireless network. Create reports, view saved report templates, and run scheduled reports to provide information about the system and network health.

PIMWN provides hands-on labs that cover controller firmware release 8.0 as well as Cisco Prime Infrastructure software release 3.2. All labs are hands-on labs via remote access, using real Cisco gear.

#### Objectives

At the end of this course, students will be able to:

- Describe fundamental network management concepts and introduce the features of Cisco Prime Infrastructure
- Manage the inventory with Cisco Prime Infrastructure
- Map the wireless network using the tools in Cisco Prime Infrastructure
- Manage user access to tasks, functions, and devices in Cisco Prime Infrastructure
- Manage the devices and configuration archive in Cisco Prime Infrastructure
- Successfully configure the guest access feature set
- Explain and implement controller-based features such as Bonjour Services and Application Visibility & Control through Cisco Prime Infrastructure
- Monitor and troubleshoot your network with Cisco Prime Infrastructure

#### Topics

- Cisco Prime Infrastructure Overview
- Inventory Management
- Map the Wireless Network
- Managing Role-based Access Control
- Configuration Management
- Managing Guest Access
- Application and Device Support
- Monitor and Troubleshoot

#### Audience

This course is designed for Network Engineers, Technicians, Operations personnel, and anyone needing training on Cisco Prime Infrastructure v3.3 with emphasis on wireless.

#### Prerequisites

Before taking this course, students should have:

- Defining Cisco Wireless LAN Essentials v1.2 (WLE)
- Knowledge of wireless networks and wireless networking terminology (CCNA Wireless equivalent)
- Knowledge of 802.11 wireless network technologies

#### Duration

Five days

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### Course Outline

#### I. *Cisco Prime Infrastructure Overview*

- A. What is Network Management?
- B. Exploring the Network Management Process
- C. Introducing Cisco Prime Infrastructure
- D. Getting Started with Cisco Prime Infrastructure
- E. Labs
  - 1. Familiarization and Setup
  - 2. Configure Cisco Prime Infrastructure

#### II. *Inventory Management*

- A. Network Inventory
- B. Groups
- C. Network Device Software Images
- D. Labs
  - 1. Initial Server Configuration
  - 2. Populate the Network Inventory
  - 3. Manage the Network Inventory
  - 4. Manage Groups

#### III. *Map the Wireless Network*

- A. Wireless Maps
- B. Cisco MSE
- C. Location Services
- D. Mobile Clients
- E. Network Topology Maps
- F. Labs
  - 1. Manage Wireless Maps
  - 2. Configuring Location Services
  - 3. Manage Network Topology Maps

#### IV. *Managing Role-based Access Control*

- A. Virtual Domains
- B. Local User Authentication and Authorization
- C. Remote AAA Mode Settings
- D. Labs
  - 1. Create a Virtual Domain and Add a User
  - 2. Enable AAA Remote Access

#### V. *Configuration Management*

- A. Configuration Archive
- B. Configuration Templates for Wired Devices
- C. Configuration Templates for Wireless Devices
- D. Plug and Play
- E. Labs
  - 1. Manage the Configuration Archive
  - 2. Manage Wired Device Templates
  - 3. Manage Wireless Device Configuration

#### VI. *Managing Guest Access*

- A. Guest Access Methods
- B. Guest Access Features through Cisco Prime Infrastructure
- C. Labs
  - 1. Configuring Local Guest Access via Prime Infrastructure
  - 2. Configuring Guest Access with an Anchor Controller

#### VII. *Application and Device Support*

- A. Bonjour Services
- B. Application Visibility and Control (AVC)
- C. Client Profiling
- D. Labs
  - 1. Enabling Application Visibility and Control on the 2504 Controller
  - 2. Enabling Client Profiling on the 2504 Controller

#### VIII. *Monitor and Troubleshoot*

- A. Devices and Interfaces
- B. Wireless Network
- C. Applications
- D. Security wIPS
- E. Clients and Users
- F. Cisco Prime Infrastructure Reports
- G. Labs
  - 1. Monitor Devices and Interfaces
  - 2. Using Location Services
  - 3. Configuring wIPS
  - 4. Track Clients, Users, and Applications
  - 5. Integrate the ISE with Prime Infrastructure
  - 6. Generate Reports