CHAPTER

4

Setting Up Devices—Overview

You must set up devices before the WLSE can discover and manage them and before you can use the WLSE for the following tasks: discovery, monitoring, reporting, configuration, firmware upgrade, and radio management.

> **Note** This chapter provides an overview of device setup and information on where to find detailed instructions and information on the devices are supported by the WLSE.

Finding Details on Supported Devices

For information about device models and versions supported by the WLSE, see the *Supported Devices Table for the CiscoWorks Wireless LAN Solution Engine, 2.12* on Cisco.com at http://www.cisco.com/univercd/cc/td/doc/product/rtrmgmt/cwparent/cw_1105/wlse/2_12/index.htm.

About Device Setup Methods

There are two ways to set up devices:

• Configure devices manually or create and apply WLSE configuration templates—See Basic Device Setup Methods, page 4-2.

  • Use the WLSE Deployment Wizard. This method is for IOS access points
    using Wireless Doman Services (WDS) within a Cisco Structured
    Wireless-Aware Network (SWAN)—See WLSE Deployment Wizard,
    page 4-2.

WLSE Deployment Wizard

If you are using the WLSE Deployment Wizard to deploy IOS access points or a
Wireless LAN Services Module (WLSM) used within a Cisco SWAN framework,
the Wizard will set up those devices for you. In that case, for those devices, you
do not need to perform the manual setup procedures described in the rest of this
chapter.

The Deployment Wizard displays immediately after you log in to the WLSE's web
interface.

For information on using the Deployment Wizard, see the WLSE online help or
the *User Guide for the CiscoWorks Wireless LAN Solution Engine, Release 2.12*
on Cisco.com at
http://www.cisco.com/univercd/cc/td/doc/product/rtrmgmt/cwparent/cw_1105/w
lse/2_12/index.htm.

Basic Device Setup Methods

For details on setting up external devices, see the document *Configuring Devices
for Management by the Wireless LAN Solution Engine, 2.12* on Cisco.com at
http://www.cisco.com/univercd/cc/td/doc/product/rtrmgmt/cwparent/cw_1105/w
lse/2_12/index.htm.

This section briefly describes the required configuration for the following devices
managed or monitored by the WLSE:

  • Configuring IOS Access Points and Bridges, page 4-3

  • Configuring Routers and Switches, page 4-3

  • Configuring AAA Servers, page 4-3

  • Configuring a Wireless LAN Services Module, page 4-4

Configuring IOS Access Points and Bridges

You can use the device Web interface, the device CLI, or WLSE configuration templates to configure IOS devices.

Device configuration consists of:

- Basic network configuration:
  - Normally, enabling Cisco Discovery Protocol (CDP)
  - Configuring SNMP
  - Configuring Telnet or SSH for pushing configuration to APs
- Radio management configuration:
  - Configuring Wireless Domain Services (WDS) devices—either APs or Wireless LAN Services Modules (WLSMs)
  - Configuring infrastructure APs to authenticate to WDS

Configuring Routers and Switches

Note   Only routers and switches that have properly configured access points or bridges attached to them will be discovered.

Router and switch configuration consists of:

- Enabling Cisco Discovery Protocol (CDP)
- Configuring SNMP

Configuring AAA Servers

The WLSE can monitor the performance of AAA (Authentication, Authorization, and Accounting) services provided by CiscoSecure ACS, Cisco Access Registrar (CAR) RADIUS, and access points configured as AAA servers. The services supported are LEAP, RADIUS, EAP-MD5, PEAP (EAP-GTC only), and EAP-FAST.

AAA server configuration consists of:

- Configuring the server to recognize the WLSE

- Configuring the WLSE to add information about the servers to be monitored

Configuring a Wireless LAN Services Module

You can use a Wireless LAN Services Module (WLSM) to provide Wireless Domain Services (WDS) to access points. See the WLSM documentation for details.