

与访问接入节点配置示例的基本无线局域网连接

目录

[简介](#)

[先决条件](#)

[要求](#)

[使用的组件](#)

[配置](#)

[说明](#)

[验证](#)

[故障排除](#)

简介

本文解释如何设置与使用的一基本无线局域网(WLAN)连接Cisco接入点(AP)运行Cisco IOS版本15.2(2)JB自治代码。

先决条件

要求

思科建议您有这些主题基础知识，在您尝试此配置前：

- 无线无线电频率(RF)技术
- 思科AP访问

本文假设，无线客户端卡的驱动程序PCs的或膝上型计算机已经安装。

使用的组件

运行Cisco IOS软件版本15.2(2)JB的本文档中的信息根据Aironet 1040系列AP。

本文档中的信息都是基于特定实验室环境中的设备编写的。本文档中使用的所有设备最初均采用原始（默认）配置。如果您使用的是真实网络，请确保您已经了解所有命令的潜在影响。

配置

此部分说明如何配置与使用的AP GUI。

使用 GUI 访问 AP 有两种方法：

- 在通过 GUI 连接之前为设备分配 IP 地址。
- 使用 DHCP 获取 IP 地址。

说明

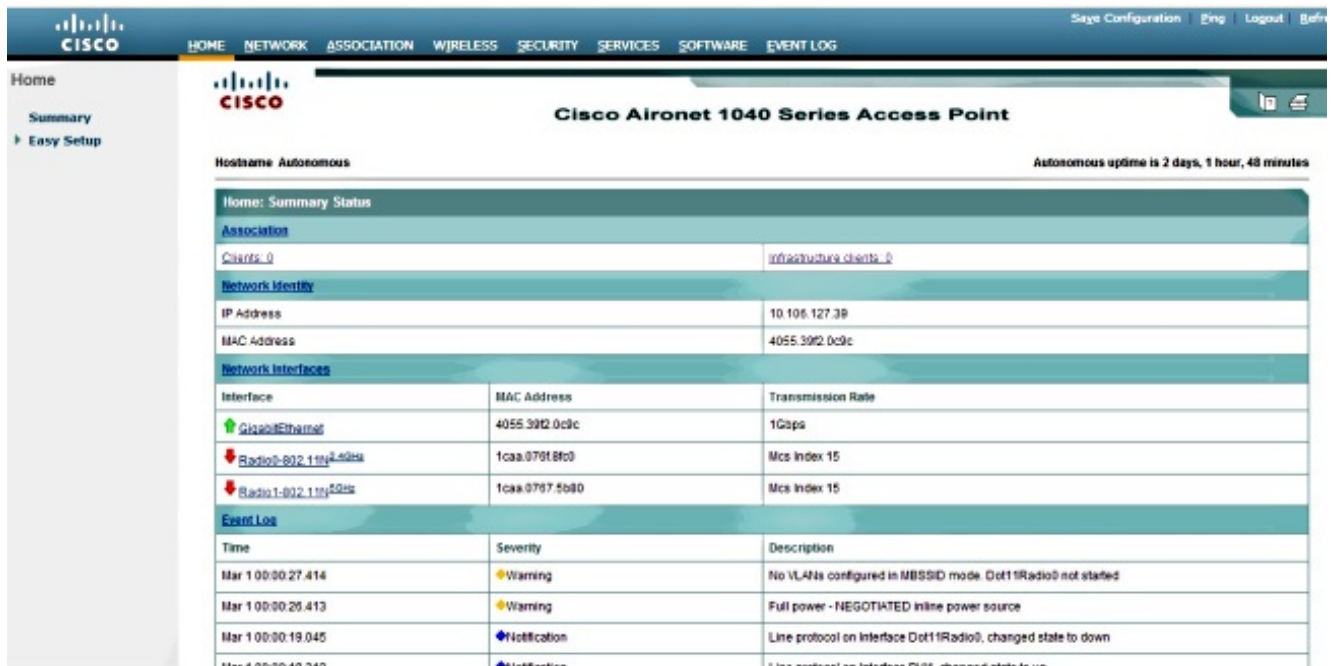
在您配置 IP 地址后，您能通过浏览器访问 AP 为了配置 AP。

完成这些步骤：

1. 为了访问与 GUI 的 AP 和打开汇总状态窗口，请完成这些步骤：

打开 Web 浏览器，并且输入 AP 的 IP 地址在地址栏中的。输入用户名和口令。默认用户名和密码是思科。

汇总状态窗口显示，如显示此处：



The screenshot shows the Cisco Aironet 1040 Series Access Point configuration page. The page title is "Cisco Aironet 1040 Series Access Point". The main content area is titled "Home: Summary Status" and includes several sections:

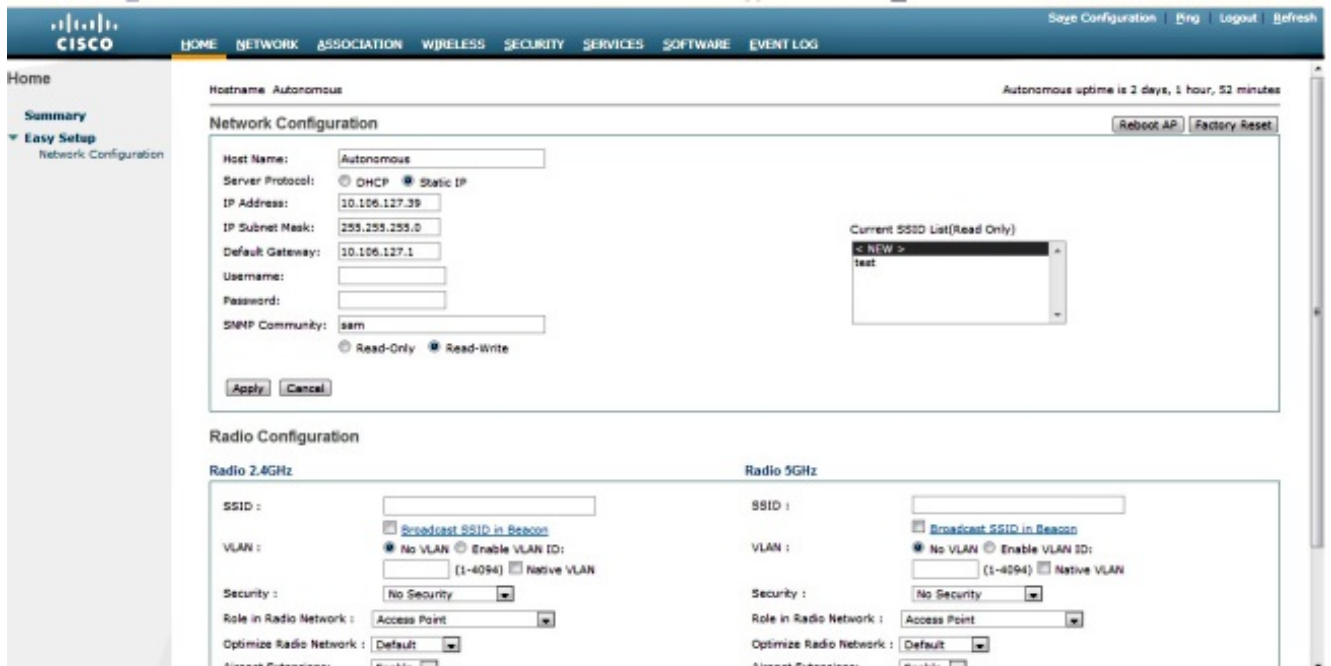
- Association:** Clients: 0, Infrastructure clients: 0
- Network Identity:** IP Address: 10.106.127.39, MAC Address: 4055.3902.0c9c
- Network Interfaces:** A table with columns for Interface, MAC Address, and Transmission Rate.

Interface	MAC Address	Transmission Rate
GigabitEthernet0	4055.3902.0c9c	1Gbps
Radio0-802.11n-40MHz	1caa.0761.8fc0	Mcs Index 15
Radio1-802.11n-50MHz	1caa.0767.5b80	Mcs Index 15
- Event Log:** A table with columns for Time, Severity, and Description.

Time	Severity	Description
Mar 1 00:00:27.414	Warning	No VLANs configured in MBSSID mode. Dot11Radio0 not started
Mar 1 00:00:26.413	Warning	Full power - NEGOTIATED inline power source
Mar 1 00:00:19.045	Notification	Line protocol on Interface Dot11Radio0, changed state to down
Mar 1 00:00:19.340	Notification	Line protocol on Interface Dot11Radio0, changed state to up

2. 点击在左边的容易设置，然后单击网络配置。

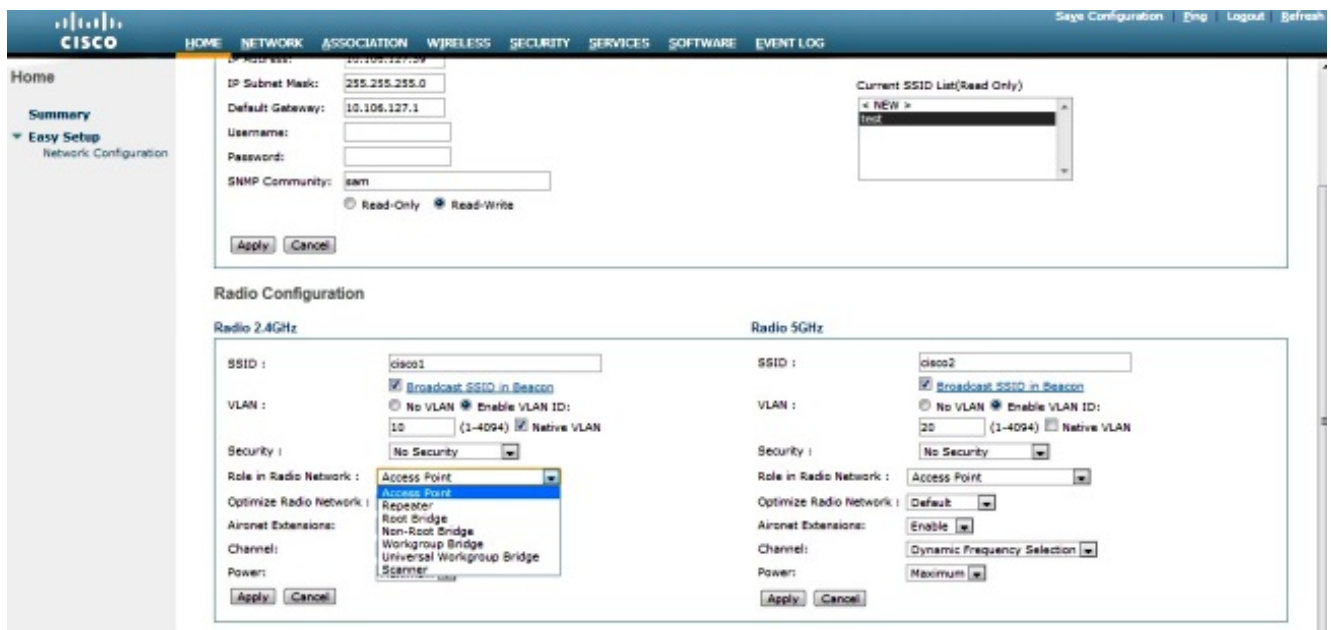
容易设置窗口显示。您能使用此窗口为了配置是必要为了建立无线连接的一些基本参数。以下是此窗口的示例：



3. 输入在容易设置窗口的这些配置参数：

AP的主机名AP的IP地址配置，如果IP地址是静态的默认网关用户名/密码无线电2.4GHz和无线电的5GHz服务集标识(SSID)SSID安全配置和其他特定参数
提示：您能重新启动AP或出厂重置其配置在容易设置下。

这是示例窗口：



4. 单击应用为了保存特定部分的更改在同一个页。

5. 为了查看网络接口摘要，导航对网络>网络接口>摘要。

Network Interfaces: Summary			
System Settings			
IP Address (Static)	10.106.127.39		
IP Subnet Mask	255.255.255.0		
Default Gateway	10.106.127.1		
MAC Address	4855.3942.0c9c		
Interface Status			
	GigabitEthernet1	Radio0-802.11n 2.4GHz	Radio1-802.11n 5GHz
Software Status	Enabled ↑	Disabled ↓	Disabled ↓
Hardware Status	Up ↑	Down ↓	Down ↓
Interface Resets	2	2	0
Receive			
Input Rate Timespan	5 minute	5 minute	5 minute
Input Rate (bits/sec)	3000	0	0
Input Rate (packets/sec)	4	0	0
Time Since Last Input	00:00:00	never	never
Total Packets Input	673846	0	0
Total Bytes Input	53910892	0	0
Broadcast Packets	560263	0	0
Total Input Errors	0	0	0

6. 为了查看或编辑千兆以太网端口、无线电2.4GHz和无线电5GHz设置，导航对网络接口部分。

这是屏幕画面：

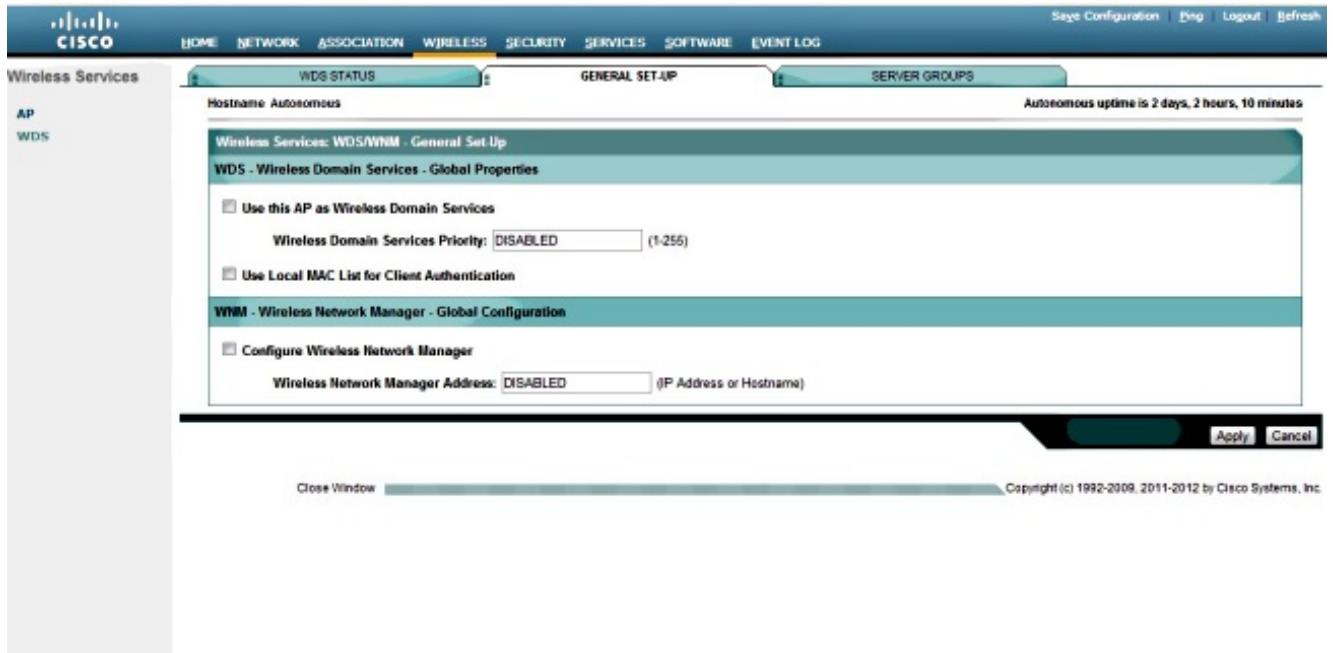
Network Interfaces: GigabitEthernet Status			
Configuration			
Software Status	Enabled ↑	Hardware Status	Up ↑
Maximum Rate		Duplex	
Interface Statistics			
Interface Resets	2	No Carrier	0
Lost Carrier	0		
Receive / Transmit Statistics			
Receive		Transmit	
5 Min Input Rate (bits/sec)	16000	5 Min Output Rate (bits/sec)	32000
5 Min Input Rate (packets/sec)	13	5 Min Output Rate (packets/sec)	11
Time Since Last Input	00:00:00	Time Since Last Output	00:00:00
Total Packets Input	675503	Total Packets Output	23918
Total Bytes Input	54097620	Total Bytes Output	6604913
Broadcast Packets	590676		
Error Statistics			
Receive		Transmit	
Total Input Errors	0	Total Output Errors	0
Overrun Errors	0	Underrun Errors	0
Ignored Packets	0	Deferred Packets	0
Framing Errors	0	Babbles	0

RADIO0-802.11N ^{2.4GHz} STATUS		DETAILED STATUS		SETTINGS		CARRIER BUSY TEST	
Hostname Autonomous				Autonomous uptime is 2 days, 2 hours, 7 minutes			
Network Interfaces: Radio0-802.11N ^{2.4GHz} Status							
Configuration							
Software Status	Disabled			Hardware Status	Down		
Operational Rates	1.0, 2.0, 5.5, 11.0, 6.0, 9.0, 12.0, 18.0, 24.0, 36.0, 48.0, 54.0, m0-2, m1-2, m2-2, m3-2, m4-2, m5-2, m6-2, m7-2, m8-2, m9-2, m10-2, m11-2, m12-2, m13-2, m14-2, m15-2 Mb/sec			Basic Rate	1.0, 2.0, 5.5, 11.0 Mb/sec		
Aironet Extensions	Enabled			Carrier Set	Americas		
Configured Radio Channel	0 MHz: Channel 0			Transmitter Power	0 dBm (1.0 to m2394)		
Active Radio Channel	0 MHz: Channel 0			Channel Width	20 MHz		
Role in Network	Access Point						
Antenna Gain	0 dB						
Interface Statistics							
Interface Resets	2						
Receive / Transmit Statistics							
Receive				Transmit			
5 Min Input Rate (bits/sec)	0			5 Min Output Rate (bits/sec)	0		
5 Min Input Rate (packets/sec)	0			5 Min Output Rate (packets/sec)	0		
Time Since Last Input	never			Time Since Last Output	never		
Total Packets Input	0			Total Packets Output	0		
Total Bytes Input	0			Total Bytes Output	0		
Error Statistics							
Receive				Transmit			
Total Input Errors	0			Total Output Errors	0		

7. 点击**关联选项卡**为了检查客户端关联：

The screenshot shows the Cisco WDS configuration interface. The top navigation bar includes 'HOME', 'NETWORK', 'ASSOCIATION', 'WIRELESS', 'SECURITY', 'SERVICES', 'SOFTWARE', and 'EVENT LOG'. The 'ASSOCIATION' tab is selected. The main content area displays the 'Association' configuration for the 'Radio0-802.11N^{2.4GHz}' interface. It shows 'Clients: 0' and 'Infrastructure clients: 0'. There are checkboxes for 'Client' and 'Infrastructure client' both of which are checked. An 'Apply' button is visible. Below this, there are sections for 'Radio0-802.11N^{2.4GHz}' and 'Radio1-802.11N^{5GHz}' with empty tables. A 'Refresh' button is at the bottom right of the configuration area. The footer includes 'Close Window' and 'Copyright (c) 1992-2012 by Cisco Systems, Inc'.

8. 自治AP可能也用于无线域服务配置(WDS)。点击**Wireless选项卡**为了配置或查看WDS设置：



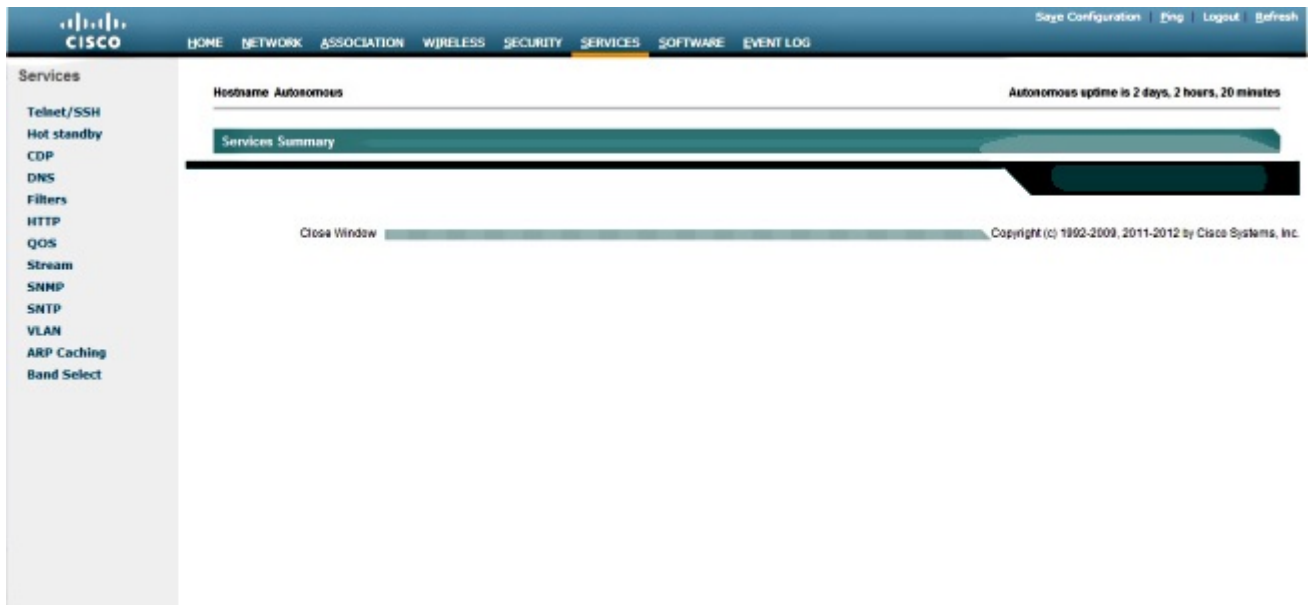
9. 为了配置以下AP参数，请点击安全选项卡：

Admin访问-设置用户名和密码，并且使用本地或认证服务器加密管理器-设置无线电的加密
 SSID管理器-配置SSID服务器管理器-添加一个RADIUS服务器AP验证-使用证书AP入侵检测-
 配置管理帧保护本地RADIUS服务器-配置AP作为RADIUS服务器预先的安全-配置与MAC地址
 或访问控制列表的MAC地址验证

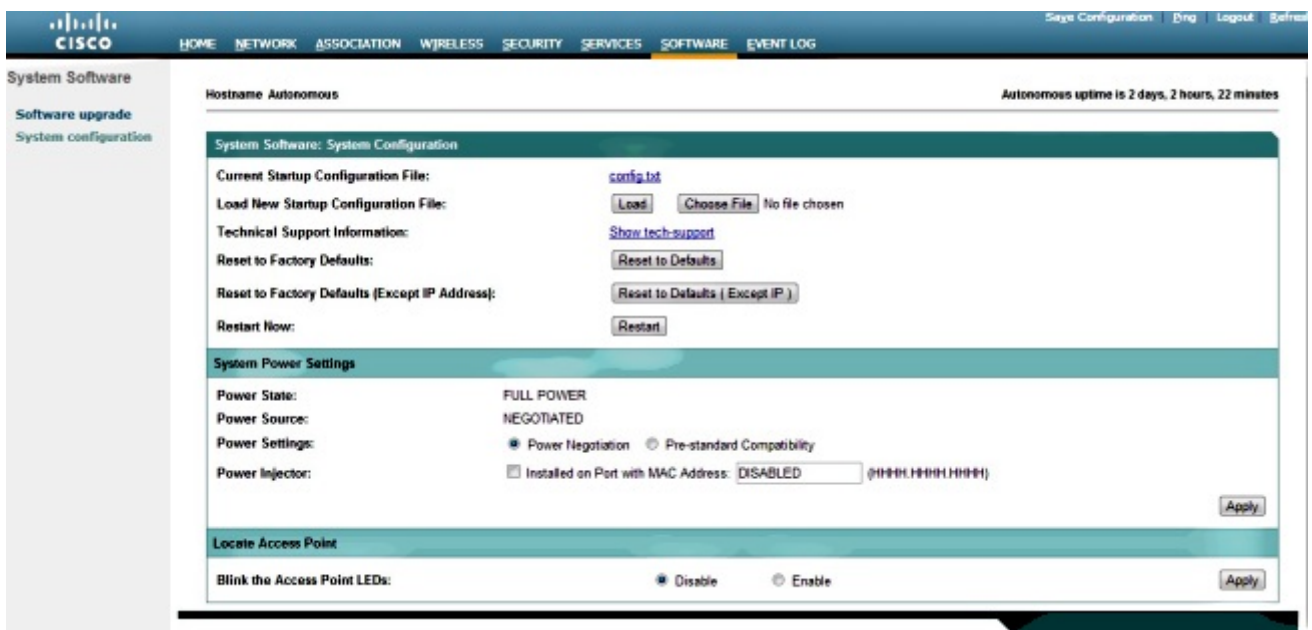
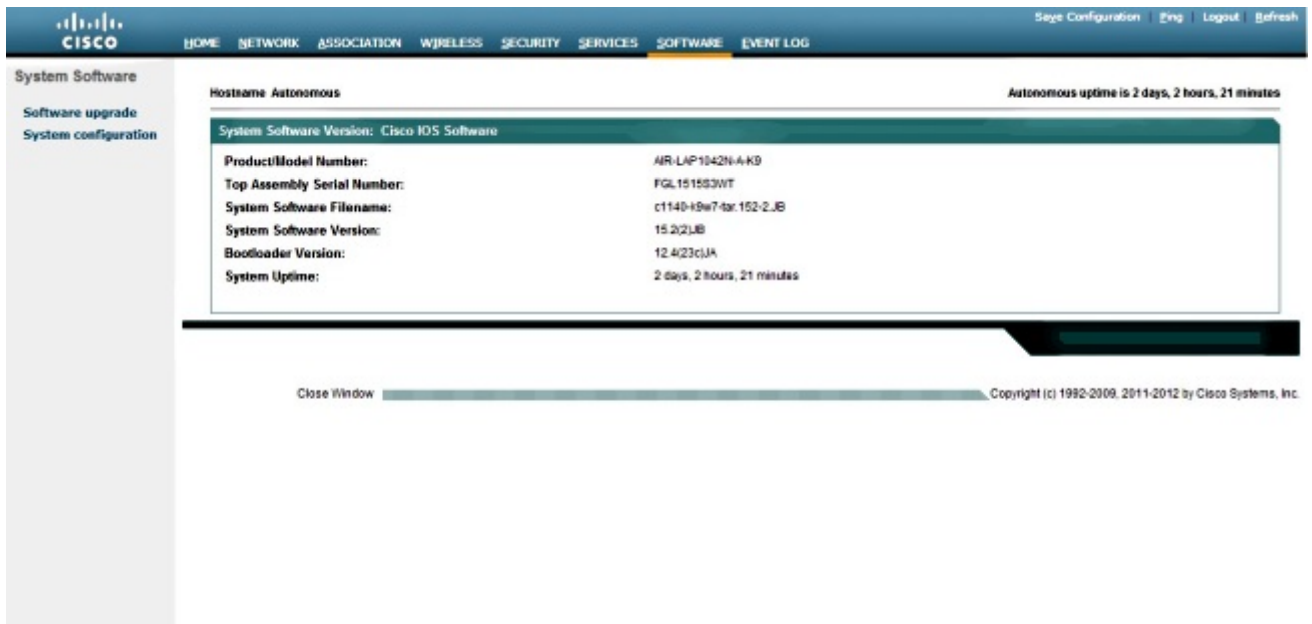
下面是屏幕截图：



10. Services选项允许您配置服务可用为AP，例如Telnet、安全壳SSH或者思科设备发现协议 (CDP)：



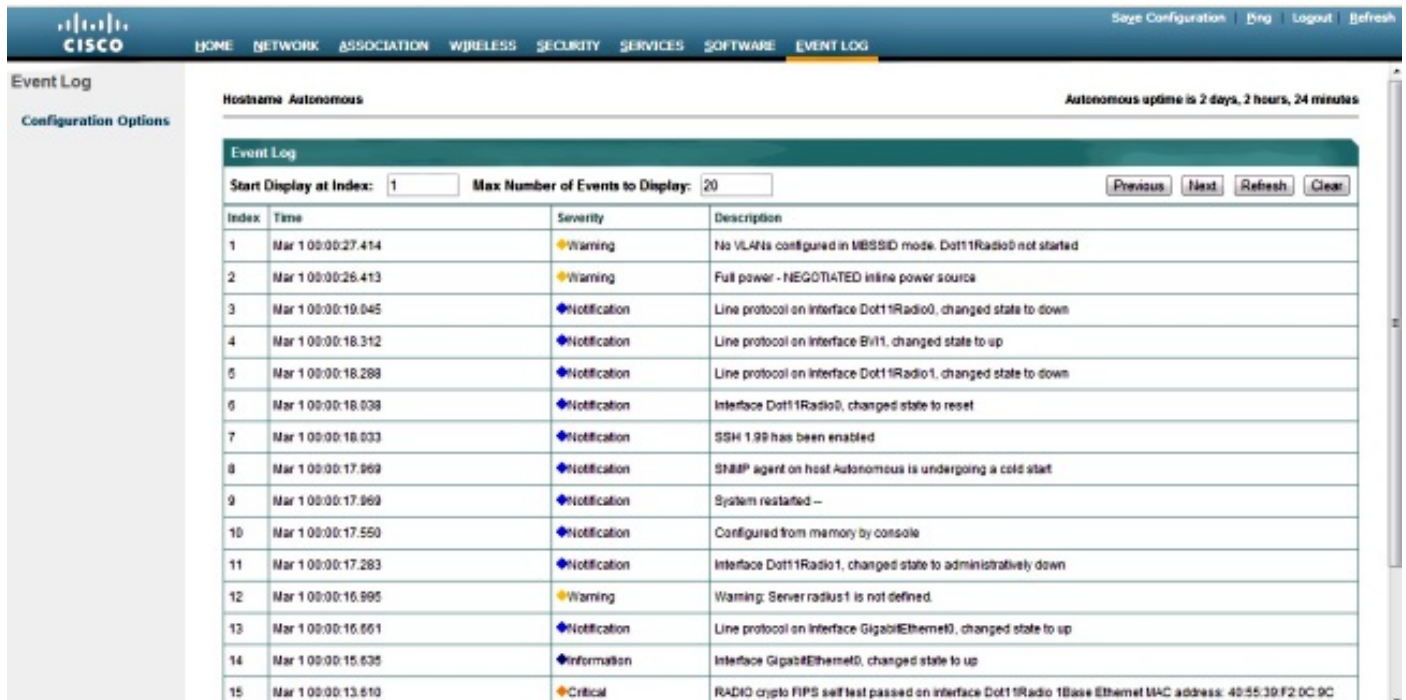
11. 为了检查AP软件版本或升级AP，请点击AP软件选项卡：



验证

当您完成配置并且激活配置文件时，客户端适配器连接对AP。

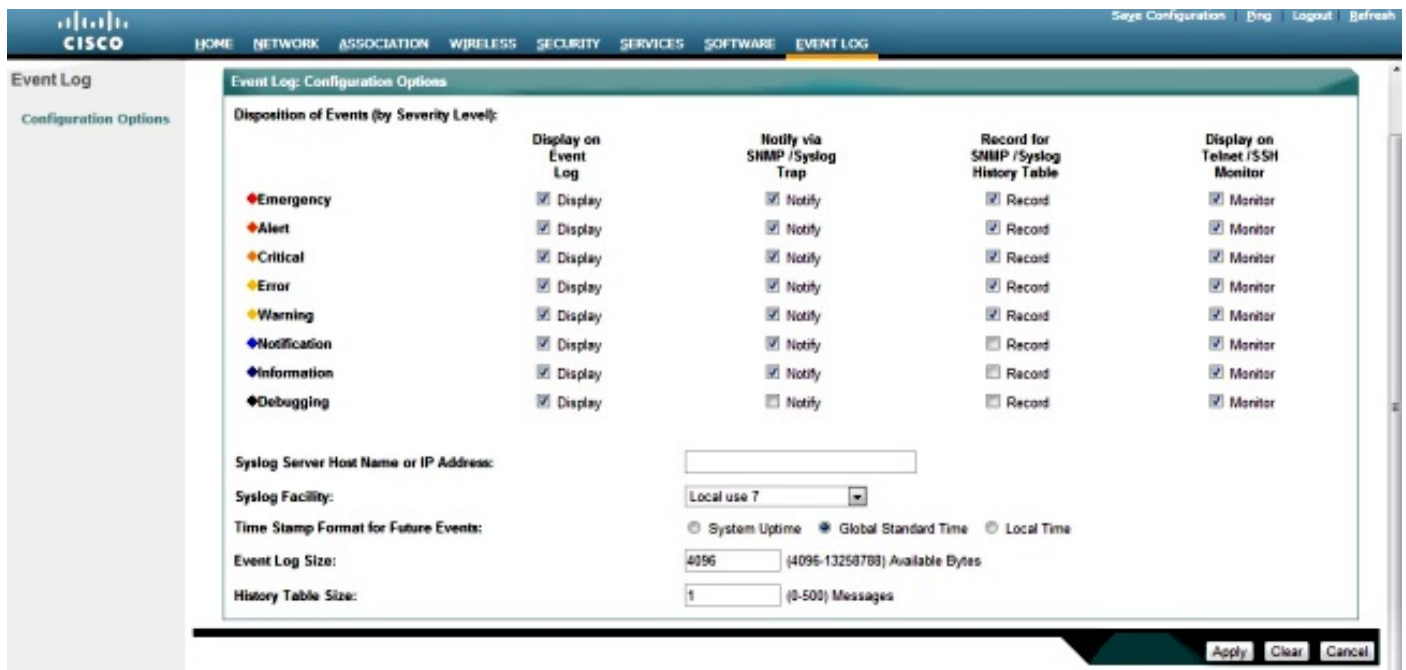
这是示例事件日志，访问在事件日志选项卡下：



The screenshot shows the Cisco Event Log interface for Hostname Autonomous. The page title is "Event Log" and the device name is "Hostname Autonomous". The autonomous uptime is 2 days, 2 hours, and 24 minutes. The event log table displays 15 events with columns for Index, Time, Severity, and Description.

Index	Time	Severity	Description
1	Mar 1 00:00:27.414	Warning	No VLANs configured in MBSSID mode. Dot11Radio0 not started
2	Mar 1 00:00:26.413	Warning	Full power - NEGOTIATED inline power source
3	Mar 1 00:00:19.045	Notification	Line protocol on interface Dot11Radio0, changed state to down
4	Mar 1 00:00:18.312	Notification	Line protocol on interface Bv11, changed state to up
5	Mar 1 00:00:18.288	Notification	Line protocol on interface Dot11Radio1, changed state to down
6	Mar 1 00:00:18.038	Notification	Interface Dot11Radio0, changed state to reset
7	Mar 1 00:00:18.033	Notification	SSH 1.99 has been enabled
8	Mar 1 00:00:17.969	Notification	SNMP agent on host Autonomous is undergoing a cold start
9	Mar 1 00:00:17.969	Notification	System restarted --
10	Mar 1 00:00:17.550	Notification	Configured from memory by console
11	Mar 1 00:00:17.283	Notification	Interface Dot11Radio1, changed state to administratively down
12	Mar 1 00:00:16.995	Warning	Warning: Server radius1 is not defined.
13	Mar 1 00:00:16.661	Notification	Line protocol on interface GigabitEthernet0, changed state to up
14	Mar 1 00:00:15.635	Information	Interface GigabitEthernet0, changed state to up
15	Mar 1 00:00:13.610	Critical	RADIO crypto FIPS self test passed on interface Dot11Radio1Base Ethernet MAC address: 48:55:39:F2:0C:9C

事件日志可以被修改为了显示希望的内容。请使用在左边导航窗格的配置选项为了更改设置：



The screenshot shows the Cisco Event Log Configuration Options interface. It allows users to configure the disposition of events by severity level, notification settings, and logging parameters.

Disposition of Events (by Severity Level):	Display on Event Log	Notify via SNMP / Syslog Trap	Record for SNMP / Syslog History Table	Display on Telnet / SSH Monitor
Emergency	<input checked="" type="checkbox"/> Display	<input checked="" type="checkbox"/> Notify	<input checked="" type="checkbox"/> Record	<input checked="" type="checkbox"/> Monitor
Alert	<input checked="" type="checkbox"/> Display	<input checked="" type="checkbox"/> Notify	<input checked="" type="checkbox"/> Record	<input checked="" type="checkbox"/> Monitor
Critical	<input checked="" type="checkbox"/> Display	<input checked="" type="checkbox"/> Notify	<input checked="" type="checkbox"/> Record	<input checked="" type="checkbox"/> Monitor
Error	<input checked="" type="checkbox"/> Display	<input checked="" type="checkbox"/> Notify	<input checked="" type="checkbox"/> Record	<input checked="" type="checkbox"/> Monitor
Warning	<input checked="" type="checkbox"/> Display	<input checked="" type="checkbox"/> Notify	<input checked="" type="checkbox"/> Record	<input checked="" type="checkbox"/> Monitor
Notification	<input checked="" type="checkbox"/> Display	<input checked="" type="checkbox"/> Notify	<input type="checkbox"/> Record	<input checked="" type="checkbox"/> Monitor
Information	<input checked="" type="checkbox"/> Display	<input checked="" type="checkbox"/> Notify	<input type="checkbox"/> Record	<input checked="" type="checkbox"/> Monitor
Debugging	<input checked="" type="checkbox"/> Display	<input type="checkbox"/> Notify	<input type="checkbox"/> Record	<input checked="" type="checkbox"/> Monitor

Additional configuration options include:

- Syslog Server Host Name or IP Address:
- Syslog Facility: Local use 7
- Time Stamp Format for Future Events: System Uptime Global Standard Time Local Time
- Event Log Size: 4096 (4095-13258788) Available Bytes
- History Table Size: 1 (0-500) Messages

在此屏幕，您能从AP GUI也ping，保存配置和注销：



The screenshot shows the bottom navigation bar of the Cisco Event Log Configuration Options interface. The navigation bar includes the Cisco logo, the text "HOME NETWORK ASSOCIATION WIRELESS SECURITY SERVICES SOFTWARE EVENT LOG", and the text "Save Configuration Ping Logout Refresh".

故障排除

目前没有针对此配置的故障排除信息。