

# 与访问接入节点配置示例的基本的无线局域网连接

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## Introduction

本文解释如何设置与使用的基本的无线局域网(WLAN)连接Cisco接入点(AP)运行Cisco IOS版本15.2(2)JB自动代码。

## Prerequisites

## Requirements

Cisco建议您有这些题目基础知识，在您尝试此配置前：

- 无线无线电频率(RF)技术
- Cisco AP访问

本文假设，个人计算机或膝上型计算机的已经安装无线客户端卡的驱动程序。

## Components Used

本文的信息运行Cisco IOS Software Release 15.2(2)JB的根据Aironet 1040系列AP。

The information in this document was created from the devices in a specific lab environment. All of the devices used in this document started with a cleared (default) configuration. If your network is live, make sure that you understand the potential impact of any command.

# Configure

此部分说明如何用使用GUI配置AP。

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。

## 指令

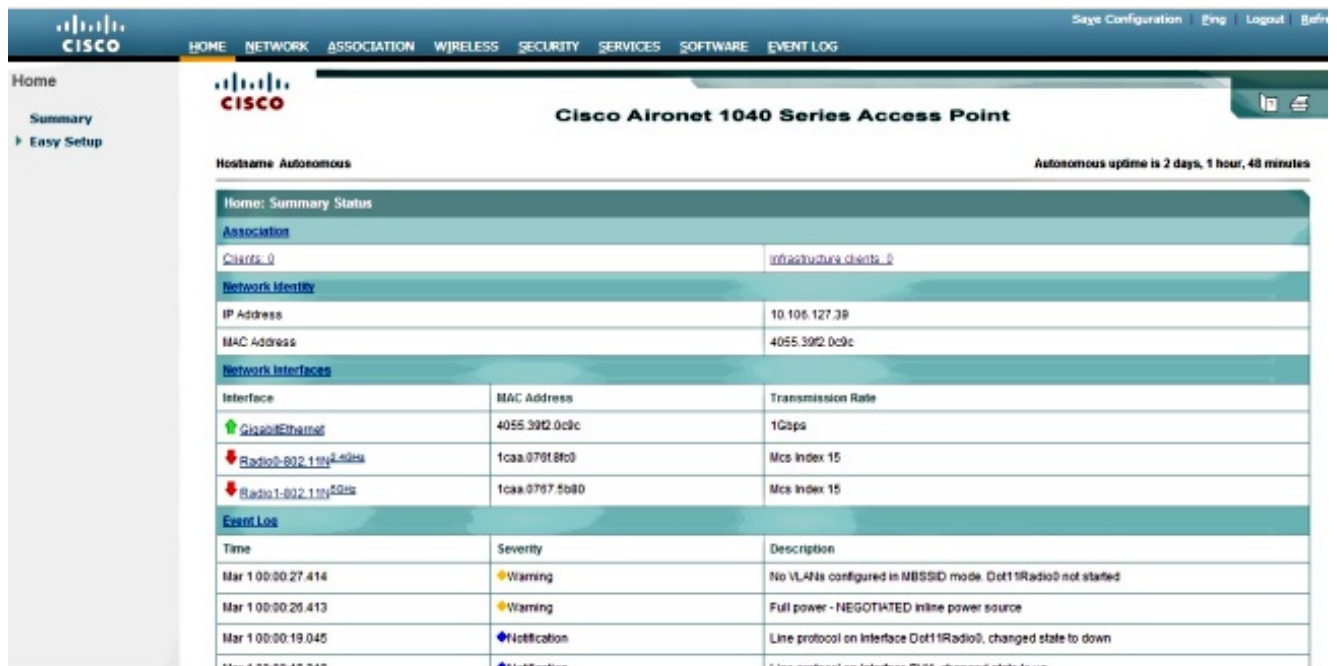
在您配置IP地址后，您能通过浏览器访问AP为了配置AP。

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。输入**用户名和密码**。默认用户名和密码是**Cisco**。

汇总状态窗口显示，如显示这里：



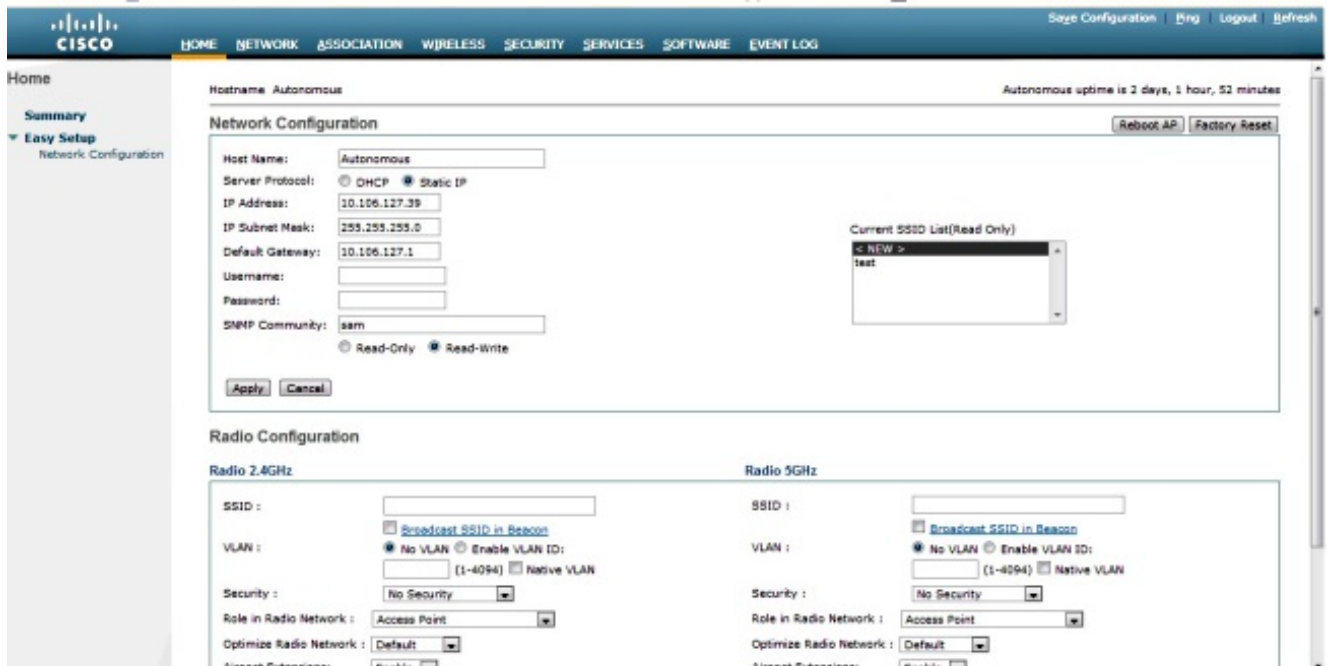
The screenshot displays the Cisco Aironet 1040 Series Access Point configuration interface. The main content area is titled "Cisco Aironet 1040 Series Access Point" and shows the "Home: Summary Status" section. The interface includes a navigation menu on the left with "Home", "Summary", and "Easy Setup" options. The main content area is divided into several sections: "Association" (Clients: 0, infrastructure clients: 0), "Network Identity" (IP Address: 10.106.127.39, MAC Address: 4055.3902.0c9c), "Network Interfaces" (listing GigabitEthernet0, Radio0-802.11n-2.4GHz, and Radio1-802.11n-5GHz), and "Event Log" (showing three events with timestamps, severity levels like Warning and Notification, and descriptions).

Interface	MAC Address	Transmission Rate
GigabitEthernet0	4055.3902.0c9c	1Gbps
Radio0-802.11n-2.4GHz	1caa.0791.8fc0	Mcs Index 15
Radio1-802.11n-5GHz	1caa.0797.5b80	Mcs Index 15

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

2. 点击在左边的**容易的设置**，然后点击**网络配置**。

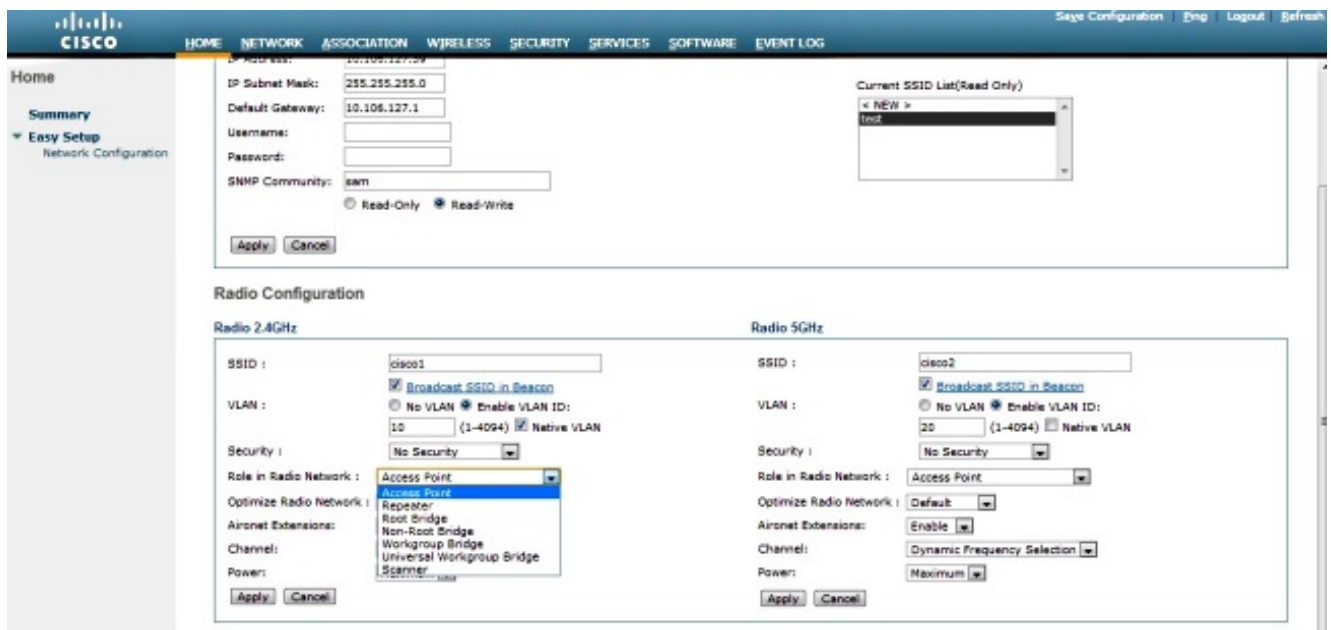
容易的设置窗口显示。您能使用此窗口为了配置是必要为了建立无线连接的一些基本参数。以下是此窗口的示例：



3. 输入这些配置参数在容易的设置窗口：

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或出厂重置了其配置在容易的设置下。

这是示例窗口：



4. 点击适用为了保存特定部分的更改在同一页。

5. 为了查看网络接口汇总，连接对网络>网络接口>汇总。

Network Interfaces: Summary			
<b>System Settings</b>			
IP Address ( Static )	10.106.127.39		
IP Subnet Mask	255.255.255.0		
Default Gateway	10.106.127.1		
MAC Address	4855.39E2.0c9c		
<b>Interface Status</b>	<a href="#">GigabitEthernet1</a>	<a href="#">Radio0-802.11n 2G.Hz</a>	<a href="#">Radio1-802.11n 5G.Hz</a>
Software Status	Enabled <span style="color: green;">↑</span>	Disabled <span style="color: red;">↓</span>	Disabled <span style="color: red;">↓</span>
Hardware Status	Up <span style="color: green;">↑</span>	Down <span style="color: red;">↓</span>	Down <span style="color: red;">↓</span>
Interface Resets	2	2	0
<b>Receive</b>			
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GigabitEthernet端口、无线电2.4GHz和无线电5GHz设置，连接对网络接口部分。

这是屏幕画面：

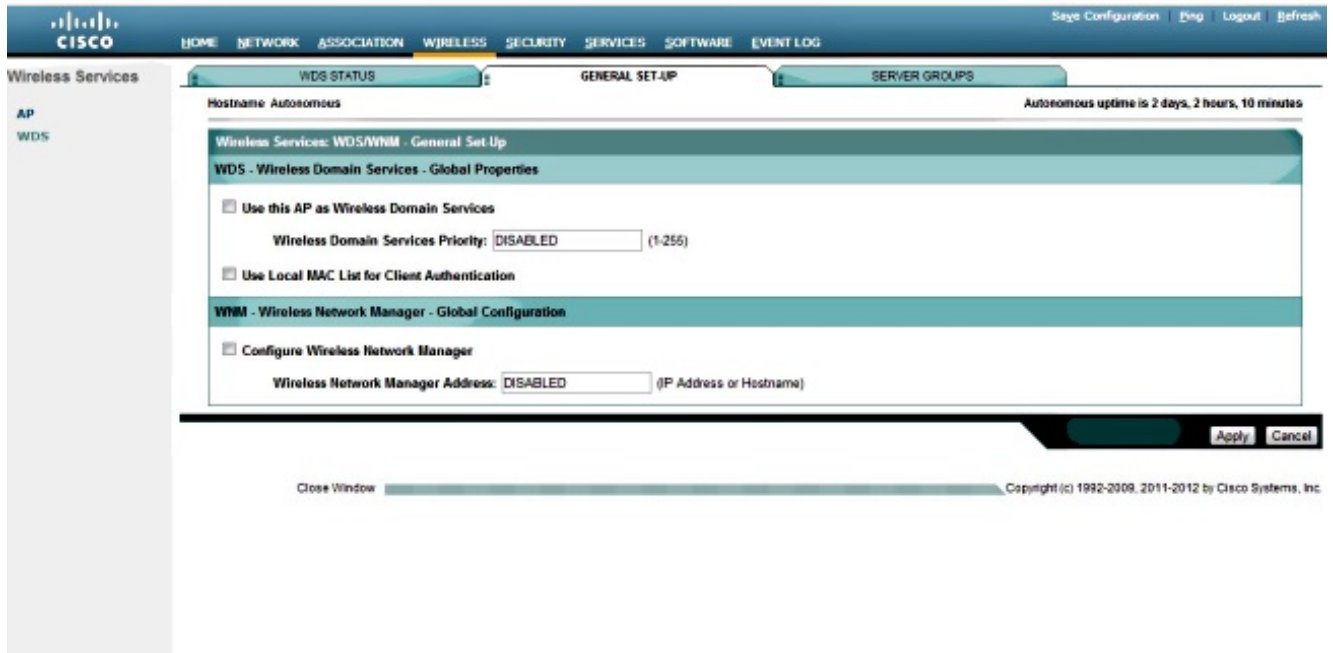
Network Interfaces: GigabitEthernet Status			
<b>Configuration</b>			
Software Status	Enabled <span style="color: green;">↑</span>	Hardware Status	Up <span style="color: green;">↑</span>
Maximum Rate		Duplex	
<b>Interface Statistics</b>			
Interface Resets	2	No Carrier	0
Lost Carrier	0		
<b>Receive / Transmit Statistics</b>			
Receive		Transmit	
5 Min Input Rate (bits/sec)	18000	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	675903	Total Packets Output	23918
Total Bytes Input	54097620	Total Bytes Output	6504913
Broadcast Packets	590676		
<b>Error Statistics</b>			
Receive		Transmit	
Total Input Errors	0	Total Output Errors	0
Overrun Errors	0	Underrun Errors	0
Ignored Packets	0	Defered Packets	0
Framing Errors	0	Gabbles	0

RADIO0-802.11N <sup>2.4GHz</sup> STATUS		DETAILED STATUS		SETTINGS		CARRIER BUSY TEST	
Hostname Autonomous				Autonomous uptime is 2 days, 2 hours, 7 minutes			
Network Interfaces: Radio0-802.11N <sup>2.4GHz</sup> Status							
<b>Configuration</b>							
Software Status	Disabled <span style="color:red">⬇</span>			Hardware Status	Down <span style="color:red">⬇</span>		
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						
<b>Interface Statistics</b>							
Interface Resets	2						
<b>Receive / Transmit Statistics</b>							
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		
<b>Error Statistics</b>							
Receive				Transmit			
Total Input Errors	0			Total Output Errors	0		

7. 点击**关联**选项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 shows the 'Association' configuration for the 'Autonomous' mode. It displays 'Clients: 0' and 'Infrastructure clients: 0'. There are checkboxes for 'View: Client' and 'Infrastructure client', with an 'Apply' button. Below this, there are sections for 'Radio0-802.11N<sup>2.4GHz</sup>' and 'Radio1-802.11N<sup>2.4GHz</sup>', each with a table of configuration parameters. A 'Refresh' button is located at the bottom right of the main content area. The footer includes 'Close Window' and 'Copyright (c) 1992-2012 by Cisco Systems, Inc'.

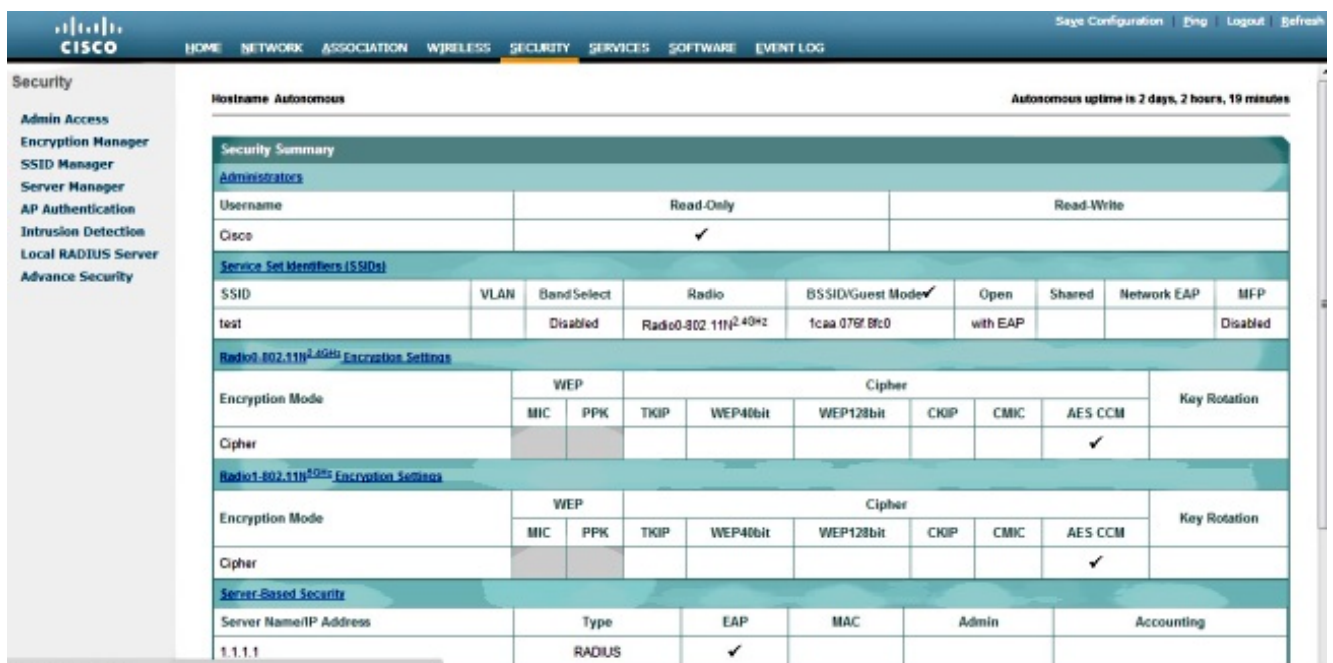
8. 自动AP可能也用于无线域服务配置(WDS)。点击**Wireless**选项卡为了配置或查看WDS设置：



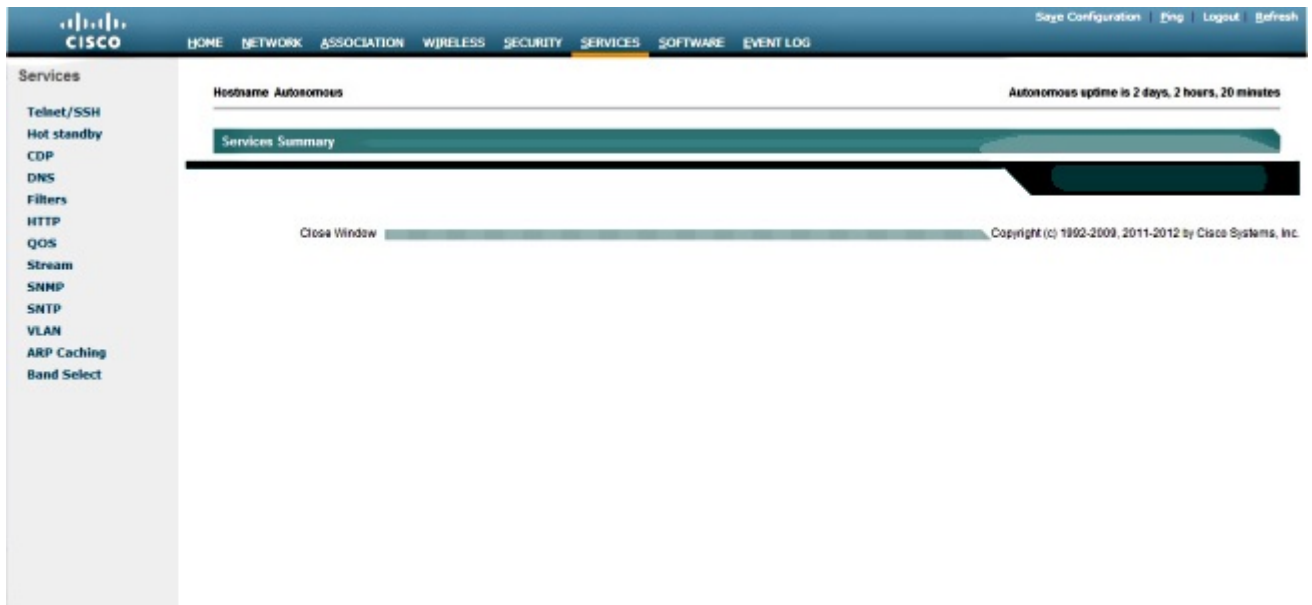
9. 为了配置以下AP参数，请点击安全选项：

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认证-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-用MAC地址或访问控制列表配置MAC地址验证

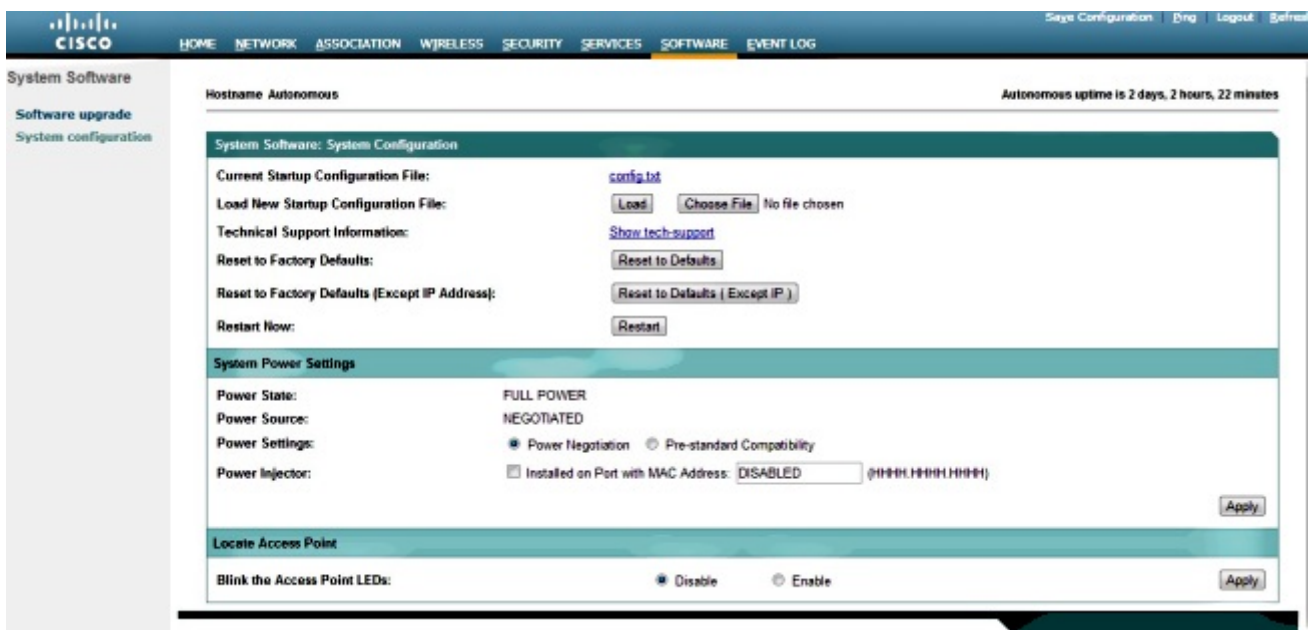
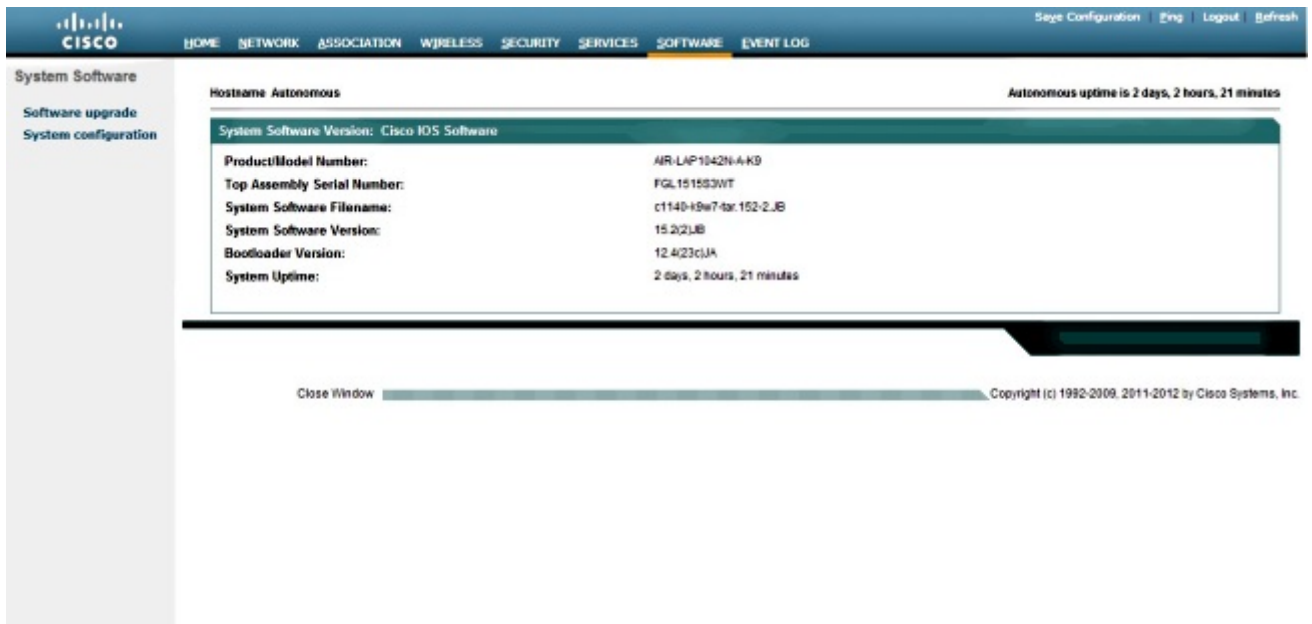
下面是屏幕截图：



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：



# Verify

当您完成配置并且激活配置文件时，客户端适配器连接到AP。

这是示例事件日志，被获取在事件Log选项下：

Hostname: Autonomous Autonomous uptime is 2 days, 2 hours, 24 minutes

Event Log

Start Display at Index: 1 Max Number of Events to Display: 20

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 00:00:16.895	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期望内容。请使用在左边导航窗格的配置选项为了更改设置：

Event Log: Configuration Options

Disposition of Events (by Severity Level):

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

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

Apply Clear Cancel

在此屏幕上，您能从AP GUI也连接，保存配置和退出：

Event Log: Configuration Options

Apply Clear Cancel



## Troubleshoot

目前没有针对此配置的故障排除信息。