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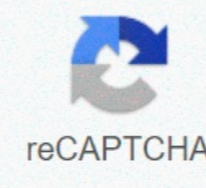
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# How to configure air-lap1142n-a-k9

Cisco Access Point (AIR-LAP1142N-S-K9) Power on the Cisco Access Point and press the mode button to reset the previous setting then connect the console cable rj-45 end to the AP and usb end to the laptop. For its configuration we need two things. - Putty Download link  sgtatham/putty/latest.html - Driver of COM port Run the putty setup and select Serial from the connection type You have to check whether your COM port driver is installed properly and its name would be like COM5(it differ with everyone). you can check under the device manager and select the Ports tab. If the driver doesn't installed properly then the yellow triangle would appear. After the COM driver issue resolved. Run the putty and enter your COM port name like COM5 and start its session. Below are the commands to configure the web access of  Cisco AP Cisco access point configuration Password: Cisco (this is case sensitive) ap(config)# interface GigabitEthernet 0 ap(config)# ip addr 172.16.1.2 255.255.255.0 (or whatever IP you need on your production network) press ctrl+z to exit config type wr to write the config Then access the ip address in your browser and configure the Access Point. Default username/password is Cisco - Click on the left tab option Easy Setup and select Network Configuration  We already configured the network configuration from the terminal. Now we have to configure the Radio configuration for wireless access. Enter your desired SSID and disable the Universal Admin mode. Under Security it is your setting to set this up. In my case I am getting my wifi access from firewall and it is on MAC based so I select the No security. Select the second tab Network and select the Radio0-802.11N 2.4Ghz under Network Interfaces and enable the radio under Enable Radio and save the settings. Now connect to your wifi SSID.  Configure Access Point from Terminal  ap(config-if)#ip address 172.16.16.6 255.255.255.0 ap(config)#ip default-gateway 172.16.16.1 ap(config)#interface dot11Radio 0 ap(config-if)#rssid MyWifi ap(config-if-ssid)#auth open ap(config-if)#channel least-congested ap(config-if)#no shutdown ap#copy running-config startup-config Destination filename [startup-config]? Building configuration... Page 1 ETTING TARTED UIDE Cisco Aironet 1140 Series Autonomous Access Point About this Guide Safety Instructions Overview Obtaining and Assigning an IP Address Mounting the Access Point Configuring Basic Settings Troubleshooting Access Point Specifications Obtaining Documentation and Submitting a Service Request... 78-18997-01 About this Guide This Guide explains how to install and configure your Cisco Aironet 1140 Series Autonomous Access Point. This guide also provides mounting instructions and limited troubleshooting procedures. Safety Instructions Translated versions of the following safety warnings are provided in the translated safety warnings document that is shipped with your access point. Page 3 Warning Installation of the equipment must comply with local and national electrical codes. Statement 1074 Warning This product relies on the building's installation for short-circuit (overcurrent) protection. Ensure that the protective device is rated not greater than: 20A. Statement 1005 Warning Do not operate your wireless network device near unshielded blasting caps or in an explosive environment unless the device has been modified to be especially qualified for... Return any packing material to the shipping container and save it for future use. Step 2 Step 3 Verify that you have received the items shown in Figure 1. If any item is missing or damaged, contact your Cisco representative or reseller for instructions. Figure 1 Shipping Box Contents... Standard ceiling adjustable T-rail clip 1140 series access point Mounting bracket 6-32 x 1/4 in. (0.63 cm) flat head screws Key Ports and Components Familiarize yourself with the access point before continuing with the installation. Figure 2 shows the access point key components. Figure 2 Access Point Ports and Connections Kensington lock slot... Cisco recommends that you make a site map showing access point locations so that you can record the device MAC addresses from each location and return them to the person who is planning or managing your wireless network. Connect a nine-pin, female DB-9 to RJ-45 serial cable to the RJ-45 console port on the access Step 1 point and to the COM port on a computer. The Cisco part number for the serial cable is AIR-CONCAB1200. Note Set up a terminal emulator on your PC to communicate with the access point. Use the... Command Purpose interface bvi1 Enters interface configuration mode for the Step 2 BVI. ip address ip_address net_mask Assigns an IP address and subnet mask Step 3 address to the BVI. Assigning an IP Address Using the CLI Follow these steps to access the CLI using a Telnet session. These steps are for a PC running Microsoft Windows with a Telnet terminal application. Mounting the Access Point Cisco Aironet 3500, 1260, 1140, 1130, and 1040 series access points can be mounted in several configurations, including on a suspended ceiling, on a hard ceiling or wall, on an electrical or network box, and above a suspended ceiling. Click this URL to browse to complete access point mounting instructions: ... Page 10 If required, configure the power settings as described in the previous section. Otherwise, Click Step 4 Express Setup. The Express Setup page appears. Page 11 Configure the settings using the following sections as a guide. Step 5 • Host Name—The host name (or system name) is a name for the access point that identifies it on your network. The system name appears in the titles of the management system pages. Page 12 Ethernet LAN network through an Ethernet hub or switch. The workgroup bridge must associate to a Cisco Aironet access point or bridge. Scanner—Specifies that the unit is configured by a Cisco WLSE and operates as a —... Clicking Custom takes you to the radio settings page. • Aironet Extensions—By default, the access point uses Cisco Aironet 802.11 extensions to detect the capabilities of Cisco Aironet client devices and to support features that require specific interaction between the access point and associated client devices. Aironet extensions must be enabled to support features such as load balancing, Message Integrity Check (MIC), Temporal Key Integrity Check (TKIP), Repeater Mode, and World Mode. Just as you use the Express Setup page to assign basic settings, you can use the Express Security page to create unique SSIDs and assign one of four security types to them. For detailed security information, refer to the Cisco IOS Software Configuration Guide for Cisco Aironet Access Points. Configuring Basic Security Settings You can use the Express Security page to create unique SSIDs and assign one of four security types to them. This illustration shows the Express Security page. Understanding Express Security Settings When the access point configuration is set to factory defaults, the first SSID that you create by using the Express Security page overwrites the default SSID, which has no security settings. • Static WEP Key—More secure than no security. Static WEP keys are vulnerable to attack. There are two different lengths for WEP keys: 40-bit and 128-bit (hexadecimal or ASCII characters). Cisco access points use hexadecimal characters. Client adapters can use either, depending on how the vendor chooses to configure them. • You cannot configure multiple WEP keys. To configure multiple WEP keys, click Security > Encryption Manager. • You cannot assign an SSID to a VLAN that is already configured on the access point. To assign an SSID to an existing VLAN, choose Security > SSID Manager. •... If you do not use VLANS on your wireless LAN, the security options that you can assign to Note multiple SSIDs are limited. Refer to the Cisco IOS Software Configuration Guide for Cisco Aironet Access Points for VLAN details. 1. Click Apply. The SSID appears in the SSID table at the bottom of the page. DRAM memory test OK Board initialization in progress Initializing FLASH file system FLASH memory test OK Initializing Ethernet Ethernet OK Starting Cisco IOS Initialization successful Association status Green Normal operating condition, but no wireless client associated Blue Normal operating condition, at least one wireless... Open your browser and enter the access point IP address in the address field. Press the Step 1 password screen appears. Enter the username Cisco and password Cisco. The username and password are case sensitive. Step 2 Step 3 When the access point does not receive enough power for full operations, it is in low power mode. Page 21 Set the power settings and power injector fields, and verify your switch status as shown in Step 5 Table 3. To verify switch status, you need to use the switch CLI. See the Cisco IOS software Note configuration guide for your switch. AC power adapter No configuration requirement Check the release notes for your power sourcing equipment to determine which Cisco IOS version supports Cisco Intelligent Power Management. For some PSEs, support for Cisco Intelligent Power Management might not be available yet. Select the section that best suits your troubleshooting needs. Step 8 Access Point Specifications Table 4 lists the technical specifications for the 1140 series autonomous access point. Table 4 Access Point Specifications Category Specification Dimensions (LxWxD) 8.68 x 8.68 x 1.84 in. (22.04 x 22.04 x 4.67 cm) Weight 1.9 lbs (0.86 kg) Operating temperature... Cisco technical documentation, at: Subscribe to the What's New in Cisco Product Documentation as a Really Simple Syndication (RSS) feed and set content to be delivered directly to your desktop using a reader application. The RSS feeds are a free service and Cisco currently supports RSS Version 2.0. AIR-AP1141N-A-K9 LDK102069 AIR-AP1142N-A-K9 LDK102070 Manufacturer: Cisco Systems, Inc. 170 West Tasman Drive San Jose, CA 95134-1706 This device complies with Part 15 rules. Operation is subject to the following two conditions: 1. This device may not cause harmful interference, and 2. Caution at this frequency when using the integrated antennas. Any changes or modification to the product not expressly approved by Cisco could void the user's authority to operate this device. Within the 5.15 to 5.25 GHz band (5 GHz radio channels 34 to 48) the UNII devices are... Guidelines for Operating Cisco Aironet Access Points in Japan This section provides guidelines for avoiding interference when operating Cisco Aironet access points in Japan. These guidelines are provided in both Japanese and English. Japanese Translation 03-6434-6500 English Translation This equipment operates in the same frequency bandwidth as industrial, scientific, and medical devices such as microwave ovens and mobile object identification (RF-ID) systems (licensed premises radio stations and unlicensed specified low-power radio stations) used in factory production lines. Material Safety Law prohibits the use of UL-certified cables (that have the "UL" shown on the code) for any other electrical devices than products designated by CISCO. The use of cables that are certified by Electrical Appliance and Material Safety Law (that have "PSE" shown on the code) is not limited to CISCO-designated products. Cisco Aironet Access Points are certified to the requirements of RSS-210. The use of this device in a system operating either partially or completely outdoors may require the user to obtain a license for the system according to the Canadian regulations. For further information, contact your local Industry Canada office. Declaration of Conformity with Regard to the R&TTE Directive 1999/5/EC... 20cm (7.9 inches). Administrative Rules for Cisco Aironet Access Points in Taiwan This section provides administrative rules for operating Cisco Aironet access points in Taiwan. The rules for all access points are provided in both Chinese and English. Chinese Translation English Translation Administrative Rules for Low-power Radio-Frequency Devices Article 12 For those low-power radio-frequency devices that have already received a type-approval, companies, business units or users should not change its frequencies, increase its power or change its functions. Chinese Translation Operation of Cisco Aironet Access Points in Brazil This section contains special information for operation of Cisco Aironet access points in Brazil. Access Point Models AIR-AP1142N-T-K9 AIR-AP1141N-A-K9... Regulatory Information Figure 5 contains Brazil regulatory information for the access point models identified in the previous section. Figure 5 Brazil Regulatory Information Portuguese Translation Este equipamento opera em caráter secundário, isto é, não tem direito a proteção contra interferência prejudicial, mesmo de estações do mesmo tipo, e não pode causar interferência a sistemas operando em caráter primário. Page 36 Cisco Website at www.cisco.com/go/offices. Cisco and the Cisco Logo are trademarks of Cisco Systems, Inc. and/or its affiliates in the U.S. and other countries. A listing of Cisco's trademarks can be found at www.cisco.com/go/trademarks. Third party trademarks mentioned are the property of their respective owners.