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Cisco 2960 x series manual

Some of the links below can open a new browser window to display the selected document. Cisco DNA Service for Bonjour IOS Configuration Guide This guide provides instructions for using quick settings for the initial configuration of the Catalyst switch. It also includes switch management options, basic mounting on the stand, stacking guidelines, door and module connection procedures, and troubleshooting assistance. Note Before installing or upgrading the switch, see the release notes. Figure 1. Box Contents 1 Catalyst 2960 X switch1 or Catalyst 2960-XR switch (power modules not displayed) 8 Eight number-8 Phillips flat head screws (48-2037-01) 2 AC Power cable supplied 9 1 black Phillips machine screw (48-0654-01) 3 Four rubber mounting feet 10 (Optional)2 Console cable 1 USB cable 4 Two 19-inertia mounting 11 (Optional)4 2 Cisco FlexStack-Plus Module 3 5 Cable Guide 12 (Non-Optional)2 Cisco FlexStack Cable 64 br.-12 Phillips pan-head screws (48-0523-01) 1 (Option)Power cord retainer (PWR-CLP) 7 Four number-10 Phillips pan-head cylinders (48-0627-01) - First place the clutch, to unopning the original IP information you need to benefit from Express Setup. This allows for a switch to connect to local routers and the network. You can then access the further configuration switch from the IP address. Note To use the initial cli-based setup program, see the Toggle Hardware Guide on the Cisco.com. To set up a switch, you need the following equipment: a computer running Windows Vista, XP, or 2000. Other laptops and browsers can work. Web browser (Internet Explorer 5.5, 6.0, 7.0, Firefox 1.5, 2.0, and 3.0) with JavaScript enabled. Straight through or cross-cable category 5 or 6 Ethernet. Note Before starting Express Setup, disable all pop-up shackles blockers or proxy settings in the browser software and any wireless client running on your computer. Step 1 Make sure there is nothing to do on the switch. Step 2 During Express installation, the switch acts as a DHCP server. If your computer has a static IP address, temporarily configure your computer settings to use DHCP before proceeding to the next step. Step 3 Turn on the switch by connecting the power cord to the switch ac adapter and to the ground socket. Step 4 Follow the results of the post. Step 5 Press the Mode button when the LED screen SYST, MAST, and STAT are greened, hold down the Mode button until all the LEDs next to the Mode button turn green. Step 6 Connect category 5 or 6 Ethernet cable to port. Step 7 Start the browser session on your computer and enter the ip address. When prompted, enter your default password, cisco. Step 8 Enter this information in the Network Settings. Step 9 Enter information in optional fields. Step 10 Click Send to save your changes and complete the initial setup. Step 11 Disconnect the switch from the and install the switch on the network. Step 12 If you have changed the static IP address of your computer in step 2, change it to a preconfigured static IP address. Step 13 Now you can switch using Cisco Network Assistant, Device Manager, or both. For more information about configuring and managing the switch, see Manage a switch. We recommend that you download Cisco Network Assistant from Cisco.com and use it to manage the switch. After you complete quick installation and installation of a switch on a network, you can use one of the following options for further configuration. The simplest way to manage a switch is to use Device Manager in the switch memory. This web interface provides quick configuration and monitoring. You can access Device Manager from anywhere on your network through a web browser. Step 1 Start the Web browser on your computer or work plan. Step 2 Enter the IP address of the switch in your Web browser, and then press Enter. The Device Manager page appears. Step 3 Use Device Manager to perform the basic configuration and monitoring of the switch. For more information, see Device Manager online help. Step 4 For a more advanced configuration, download and run the Cisco Network Assistant that is described in the following section. Cisco Network Assistant is a program program that you download from Cisco.com and run on your computer. Provides advanced options for configuring and monitoring multiple devices, including switches, toggle clusters, switch stacks, routers, and access points. Cisco Network Assistant is free – you don't need to download, install, or use it. Go to this URL: Step 1 Click the Download software link and select the version you want to download. Step 2 Find the Network Assistant setup program. Step 3 Download and run the Network Assistant Installer. (If your browser offers this choice, you can run it directly from the Web.) Step 4 When you run setup, follow the steps that are shown. In the end panel, click Finish to finish installing the Network Assistant. You can enter Cisco IOS commands and parameters through cli. Access the cli with one of these options. Step 1 Connect the supplied RJ-45-to-DB-9 adapter cable to the standard 9-pin serial port on your computer. Connect the other end of the cable to the console port on the switch. Step 2 Start the terminal imitation program on your computer. Step 3 Configure the computer terminal emulation software for 9600 baud, 8 data bits, no parity, 1 stop bit and no flow control. Step 4 Use the cli to enter the commands to configure the switch. Step 1 Connect the Category 5 Ethernet cable to the Ethernet PC port. Connect the other end of the cable to the 5-pin connector usb port on the switch. Step 2 Start the terminal imitation program on your computer. Step 3 Configure computer imitation software for 9600 baud, 8 data data no parity, 1 stop a bit and no flow control. Step 4 Use the cli to enter the commands to configure the switch. For more information, see the software configuration manual and command reference. Cisco Prime Infrastructure combines the wireless functionality of Cisco Prime Network Control System (NCS) and the wire functionality of Cisco Prime LAN Management Solution (LMS) with Cisco prime assurance manager monitoring and troubleshooting capabilities. For more information, see the Cisco Prime Infrastructure documentation on Cisco.com. Note This section applies only to switches capable of Catalyst 2960-X and 2960-XR leaflets. Connect only the Catalyst 2960-X or 2960-S switches into a mixed stack of switches. Note Mixed loads can only be created with Catalyst 2960-X or 2960-S switches (up to four switches). You cannot create mixed piles with other switches. Catalyst 2960-XR switches cannot be added to mixed piles. With other 2960-XR catalysts, they can only bend. Do one of the following: Install the FlexStack-Plus module and the FlexStack cable. Install the FlexStack-Extended Fiber module and the optical cable. Install the FlexStack-Extended Hybrid module and the required optics/FlexStack cables. Note All FlexStack modules are hot swappable and can be inserted while the switch is turned on. Order the appropriate cable from the Cisco sales representative. The length of the FlexStack cable depends on your configuration. These are the different sizes available: CAB-STK-E-0.5M= (0.5-meter cable) CAB-STK-E-1M= (1-meter cable) CAB-STK-E-3M= (3-meter cable) Make sure you have access to the switchboard rear panel and the back of the rack. Note The switch must always have an empty module installed when the FlexStack module is not in use. The Catalyst 2960X-48P-L switch is shown as an example. You can install the module in other switches as shown. Step 1 Use a screwdriver with the number 2 Phillips head to remove the empty FlexStack module cover on the back panel of the switch. Step 2 Catch up with the FlexStack module on the sides and insert it into the module slot. Push the module completely until you feel it crashing into place. Step 3 Secure the screws on each side of the module. Figure 2. Folded switches with FlexStack cable 0.5 meters. These numbers show the switches loaded in a vertical stand or on a table. Connections are redundant. In cases, the Catalyst 2960-X switch is displayed, the Catalyst 2960-XR switch can be folded in the same way. Figure 3. Stacked switches with 0.5-metre and 3-metre FlexStack cables. This section explains supported topology using FlexStack-Extended Modules. The following topology is created with leaflets of switches with FlexStack-Extended Fiber modules, which are deployed on different floors of the building. The SFP+ module port is connected to fibre cables. Figure 4. FlexStack-Extended Fiber Across Floors and Buildings Modules Using the FlexStack-Extended Hybrid Module, you can combine an existing stack of switches and new switches that spread across multiple wired cabinets into a single pile. To achieve this, the copper port in the FlexStack-Extended Hybrid module must be connected to the FlexStack-Plus port on the switch in the existing network. The fiber doors on the Cisco FlexStack-Extended Fiber module can be used to connect long-range switches. You can composition up to eight switches. Figure 6. Expanding traditional FlexStack-Plus stacks using FlexStack-Extended Modules The following image shows a mixed stack network using FlexStack-Plus, FlexStack-Extended Fiber and Hybrid Modules. This is one of the supported topologies using flexstack modules. Normally, fibrous modules are used to extend the long-distance communication network across buildings or floors in a building. Figure 7. Mixed stacking with FlexStack modules This section describes the mounting of the stand using a 19-inch and 23-inch mount for mounting on a stand. For more information about the mounts and replacement assembly procedures, such as installing the switch in a 24-inch stand or on the wall, and additional information about the mention, see the Hardware Installation Guide on Cisco.com. Get these necessary tools: Number-2 Phillips screwdriver for mounting the switch. When determining where to install the switch, check that these guidelines are met: Clearance on the switch at the front and rear meets the following conditions: THE JED front panels can be read easily. Access to the door is sufficient for unlimited restriction. The power cord can reach from the socket to the connector on the switch on the rear panel. Cabling is away from sources of electrical noise such as radio, power lines and fluorescent lamps. Make sure that the cable is safe away from other devices that may damage cables. For switches with optional power module 1025-W, first attach the switch to the stand before installing the power module. Before moving the switch, make sure that the power modules are securely inserted in the chassis. When connecting or disconnecting the power cord to a switch located above or below a switch equipped with the 1025-W power supply, you may need to remove the module from the power cord access switch. The air flow around the switch and through the openings is unlimited. For the Catalyst 2960X-24PSQ-L switches: Top and bottom: 1.75 in. (44.44 mm) Rear switch: 3 in. (76.19 mm) The temperature around the unit shall not exceed 113°F (45°C). If the switch is installed in a closed or multiracial assembly, the temperature around it may be greater than the normal room temperature. The moisture around the switch does not exceed 95 percent. Height at the installation site is not more than 10,000 meters. For 10/100/1000 fixed doors, the length of the cable from the switch to the connected device shall not exceed 328 metres (100 meters). Cooling mechanisms, such as fans and blowers in the switch, can draw dust and other particles that cause contaminant co-operation inside the chassis, which may cause system failure. This equipment must be installed in the environment as possible without dust and foreign conductive material (such as metal flakes from construction activities). This document includes basic installation warning statements. Translations of these warning statements are shown in the switches' compliance document and safety information on Cisco.com. Warning To prevent personal injury when installing or servicing this unit in a stand, special precautions must be taken to keep the system stable. To ensure your safety are given the following guidelines: - This unit should be placed on the bottom of the rack if this is the only unit in the stand. - After installing this unit in a partially filled stand, load the stand from the bottom to the top with the heaviest component at the bottom of the stand. - If the stand is available with stabilizers, install the stabilizers before installing or service the unit in the stand. Declaration 1008 Warning Class 1 laser product. Statement 1024 Warning To prevent the system from being radiation, do not operate it in an area above the maximum recommended ambient temperature: 113°F (45°C). Declaration 1047 Warning To prevent airflow restriction, allow clearance around the ventilation openings to be at least 3 inches (7.6 cm). Statement 1076 Use two Phillips straight-headed screws to attach the long side of the bracket to each side of the switch. Use four Phillips straight-headed screws to attach the long side of the bracket to each side of the switch. Step 1 Use the four supplied Phillips hardware screws to attach the mounts to the stand. Step 2 Use the black Phillips machine screw to attach the cable guide to the left or right bracket. Always use a Cisco-approved FlexStack cable to connect the switches. Note This is only supported in shoo switches. Caution Use only approved cables and only connect to other Catalyst 2960-X or 2960-S switches. Equipment may be damaged if it is connected to other interest-free Cisco cables or equipment. Step 1 Remove the dust covers from the FlexStack cables and store them for future use. Step 2 Insert one end of the FlexStack cable into the glass door of the first switch. Insert the other end of the cable into the glass door on the other switch. Make sure you insert the cables completely until you feel they get stuck in place. Step 3 Replace FlexStack cables from the connectors. This section describes how to connect to a fixed switch port and a small form-factor pluggable (SFP) modules. Fixed Ports on Cisco Catalyst 2960-X or Cisco Catalyst 2960-XR Power over Ethernet Plus (PoE+) Switches Provide: PoE+ Support for IEEE 802.3at Compliant Powered devices PoE support for IEEE 802.3af-compliant powered devices Support for Cisco enhanced PoE (ePoE) These ports also provide Cisco prestandard PoE support for Cisco IP phones and Cisco Aironet Access Points. For information on the budget, see the Cisco Catalyst 2960-XR or Cisco Catalyst 2960-XR hardware installation manual. The default PoE port switch automatically provides power when a compliant device, including ePoE, PoE, and PoE+, is connected. Note By default, automatic medium-dependent interface function (auto-MDIX) is enabled. The switch detects the required type of copper Ethernet connection cable and configures the interfaces accordingly. Therefore, for connections to the copper 10/100/1000 module on the switch, you can use either a crossover or straight through the cable, regardless of the type of device at the other end of the connection. Step 1 Insert a straight, cutting four-pair, category 5 cable into the switch 10/100/1000 ports when you connect to servers, works, IP phones, wireless access points and routers. When connecting to other switches, nodes, or repeaters, use the striplength category 5 four-pair cable. Step 2 Insert the other end of the cable into the RJ-45 port on the other device. Some switch models have SFP modules, others have SFP+ modules. SFP slots only support SFP modules. SFP+ slots are supported by SFP and SFP+ modules. For a list of supported modules, see Cisco Catalyst 2960-X or Cisco Catalyst 2960-XR notes on Cisco.com. For detailed instructions on installing, uninstalling, and connecting to SFP modules, see the documentation found with the SFP module. Caution Removing and installing the SFP module may shorten its useful life. Do not remove and insert SFP modules more frequently than is strictly necessary. Step 1 Catch up with the sides and insert it into the switch until you feel the connection closing in place. Step 2 Insert the appropriate cable into the module port. Insert the other end of the cable into the other device. When you connect the switches and another device, the ICE port turns amber while the switch connects. This process takes about 30 seconds, and then the LED turns green. If the LED turns off, the target device may not be turned on, there may be a cable problem, or there may be a problem with the card installed on the target device. If you're having problems, help is available in this section as well Cisco.com. This section provides information for troubleshooting express installation, password reset details, and where to find additional To reset the switch, follow these steps. These are the reasons why you might want to reset the switch: You installed a switch on the network and you can't connect to it because you assigned the wrong IP address. You want to reset the password to the switch. Note Reset the restart switch switch. To reset the switch: Press and hold the Mode button. The LED switch starts flashing after about 3 seconds. Continue holding down the Mode button. After 7 seconds, they stop blinking, and then the switch restarts. The switch now acts as an unconfigured switch. You can enter IP switching information using Express Setup. We recommend that you first find a solution to the problem in the troubleshooting section of the hardware installation guide on Cisco.com. You can also access the Cisco Technical Support and Documentation website for a list of known hardware issues and extensive troubleshooting documentation. If Express Setup does not start, or if you don't see an express setup page in your browser. Did you check whether the post started successfully before running the express installation? If not, make sure that only the SYST and STAT LED are green before you press the Mode button to enter quick setup mode. POST errors are usually fatal. If the switch fails, contact your Cisco technical support representative. Did you press the Mode button while the switch was still going POST? If yes, wait for the post to be completed. Turn on the switch. Wait for the post to end. Confirm that the SYST and STAT LED are green. Press the Mode button to enter quick setup mode. Have you tried to continue without confirming that the switch is in Express installation mode? Make sure that all the LEDs above the Mode button are green. (RPS LED is off) If necessary, press the Mode button to enter quick setup mode. Does your computer have a static IP address? If that's the case before you connect to the switch, change your computer settings by temporarily using DHCP. Did you connect the cross cable instead of straight through the Ethernet cable between the toggle port and the Ethernet computer port? If yes, connect directly through the cable to the Ethernet port to the switch and the computer. Wait 30 seconds before entering 10.0.0.1 in your browser. Did you connect the Ethernet cable to the console port instead of the 10/100/1000 Ethernet port to the switch? If so, disconnect the cable from the console port. Then connect the cable to the Ethernet port to the switch and computer. Wait 30 seconds before entering 10.0.0.1 in your browser. Note Console doors are outlined in blue and Ethernet ports are in yellow. Did you wait 30 seconds after connecting the switch and computer before entering an IP address into your browser? If not, wait 30 seconds, type 10.0.0.1 into your browser and press enter. Did you enter the wrong address in your browser or have an error message? If so, type 10.0.0.1 again in your browser, and then press Enter. installation and configuration information to switch, see Cisco Catalyst 2960-X/Cisco Catalyst 2960-XR documentation on Cisco.com. For system requirements, important notes, restrictions, open and resolved bugs, and last-minute documentation updates, see release notes, as well as Cisco.com. For the warning translations shown in this publication, see the RCSI switch instructions on the Cisco.com. When using online publications, see documents that match the Cisco IOS software version running on the switch. The software version is on the Cisco IOS label on the back panel of the switch. 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