Cisco catalyst 3850 switch configuration guide

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This guide may contain information that is not specific to your particular platform or is not supported in the release of the software. In addition, some configuration guides contain content that may be faded by documentation from a later release of the software. For the latest feature and warning information, see release notes for your platform and software release. Also, use Cisco Feature Navigator to get information about image support features, platforms, and software. To access the Cisco Feature Navigator, go to . Any Internet Protocol (IP) addresses and phone numbers used in this document are not intended for actual addresses or phone numbers. examples, team display output, network topology diagrams, and other numbers included in the document are displayed only for illustrative purposes. Any use of actual IP addresses or or or figures in illustrative content are unintentional and random. Recommended Reading: Similar Documentation: Download the full book (EPUB - 850KB) Download the full book (MOBI - 461KB) Catalyst 3850 Switch Start Guide to this Guide Delivery Box Content Launch Express Setting Control Configuration Of the Switch Configuration Master Cisco Network Assistant Command-Line Interface USB Console Port RJ-45 Console Port Ethernet Control How to Start Installation Warning Statement Bracket Fixing Rack-Mount Switch Providing POWER cord AC (optional) Connection StackWise Cables StackWise Configuration Connection StackPower Cables (optional) StackPower Cabling Configuration Installation Network Module (optional) Connecting Switch Ports 10/100/1000, 10/1000/1000 or 10/100/1000 Cisco UPOE Ports SFP and SFP Tranceiver Module Ports Check Port Connection Troubles Express Setting Reset Access to Switch Help Online Getting Documentation and Sending Services Request Appropriate Documentation This guide describes How to use Express Settings to initially customize the Catalyst 3850 switch. The guide also covers switch control options, basic installation, stacking, port, and modular connectivity, and troubleshooting. For more information about installation and configuration with Cisco.com m. Regarding system requirements, important notes, restrictions, open and resolved errors, and documentation updates, see Cisco.com notes. When using online publications, check for documents that match the Cisco iOS version of the software launched on the switch. To translate the warnings that appear in this publication, Cisco.com see please note that the catalyst 3850 switch illustrations are not intended to depict any particular color scheme. They are provided as a reference for the various functions and markings described in this guide. The delivery box contains a model of the ordered switch and other components needed to be installed, as shown in Figure 1. Some components are optional, depending on your order. Note that you have received these items. If an item is missing or damaged, please contact your Cisco representative or reseller for instructions. Figure 1 Components delivered in the shipping box Catalyst 3850-48P-L1 switch with additional network module2 (power and fan modules not shown)3 Eight number-8 Phillips flat-headed screws AC Cord Cable guide product documentation and matching document M4.0 x 20mm Phillips pan-head screw Four rubber Foot (optional) RJ-45 console cable 2 Earth drag screw and ring terminal (optional) USB console cable 2 Two 19-inch 19-inch Brackets (optional) StackWise cable (0.5 meters, 1 meter, or 3-meter) 2 Four numbers-12 pan-heads screws (optional) StackPower cable (0.3 meters or 1.5 meters) 2 Four numbers-10 pan-heads screws use Setup Express for entering the initial IP information. This action allows the switch to connect to local routers and the Internet. You can access the switch via IP address for further configuration. To use the CLI-based initial settings program, see Appendix C, Settings the Switch with a CLI-based customization program, in the Switch Hardware Guide. Note If you're using Cisco iOS XE Denali 16.1.1 and later releases, see the Switch Settings section in the Catalyst 3850 Switch Installation Guide for information about the switch setup. Express customization is not supported on Cisco iOS XE Denali 16.1.1 and later releases. You need this hardware: PC or laptop with Windows Vista, XP, or 2000 Browser (Internet Explorer 5.5, 6.0, 7.0, Firefox 1.5, 2.0, and 3.0) with JavaScript enabled directly through or crossover Category 5 Ethernet cable Note Before launching Express Setup, disable any pop-up blockers or proxy settings in your browser and any wireless client running on your laptop or laptop. Step 1 Make sure nothing is connected with the switch. Step 2 During the express installation, the switch acts as a DHCP server. If your computer or laptop has a static IP address, temporarily change your PC or laptop settings before using DHCP. Note Write down the static IP address. You'll need this IP address in step 14. Step 3 Installation of power modules. See the chapter of Power Installation in Catalyst 3850 Switch Equipment Installation Guide for Instructions. Step 4 Power Switch. AC Power Switches: Connect the AC power cord to the switch power source and the grounded AC socket. DC Power Switches: See the wiring instructions in the Catalyst 3850 Switch Equipment Installation Guide to Cisco.com: Step 5 Watch POST Results. Approximately 30 seconds after the switch is switched on, self-affirmation (POST) begins, which can take up to 5 minutes. During POST, the SYSTEM LED flashes green. When the POST is complete, the SYSTEM LED becomes solid green. The ACTV AD is green if the switch acts as an active switch. Please note, before moving on to the next step, wait until the POST is complete. Troubleshooting: If the SYST LED does not turn solid green or turns into amber, the switch failed to POST. Contact your Cisco representative or Step 6 Click and hold the Mode button until all the LEDs next to the Mode button are greened. You may have to hold the button for more than 3 seconds. The switch is now in Express Setting mode. Troubleshooting: If the LEDs next to the Mode button blink at the click of a button, release it. Flashing LEDs mean that the switch is already and can't go into express installation mode. For more information, see Step 7 Connect the Category 5 Ethernet cable to the port: Any 10/100/1000 or 10/100/1000 PoE or 10/100/1000 Cisco Universal Power Over Ethernet (Cisco UPOE) ports on the front of the switchboard. The RJ-45 control port is on the back of the switch. Connect the other end of the cable to the Ethernet port on your computer or laptop. Wait until the PORT LEDs on the switch and your computer or laptop or laptop will be green or flashing green. Green LEDs indicate a successful connection. Troubleshooting: If the port's LEDs don't turn green in about 30 seconds, make sure: You've connected the Ethernet cable to one of the downlink switch ports (not the console port). You use an undamaged Category 5 or 6 Ethernet cable. Another device is on. Step 8 Start a browser session on your PC or laptop, and enter the IP address https:// 10.0.0.1. When requesting, enter the default password, cisco. Note that the switch ignores text in the username box. An express settings window is displayed. Troubleshooting: If the Express Setup window doesn't show up, make sure that the browser's pop-up blockers or proxy settings are off and that any wireless client is disabled on your computer or laptop. Step 9 Enter this information in the network settings fields: Please note that all entries must be in English letters. In the Control Interface (VLAN ID) field, the default is 1. Please note that we recommend using VLAN by default. During the express installation, VLAN 1 is the only VLAN on the switch. Enter the new VLAN ID only if you want to change the control interface you use to control the switch. VLAN ID range from 1 to 1001. In the IP address box, enter the Switch IP address. In the Subnet Mask field, click the drop arrow and select the subnet. In the default gateway box, enter the default gateway IP address (router). Enter the password in the Switch Password field. The password can be 2 to 25 alphabetical characters, can start with a number that is sensitive to the case, allows built-in space, but does not allow spaces at the beginning or end. In the Confirm password switch box, enter the password again. Note that you have to change the default password, cisco. Enter this information in the Ethernet Port Settings fields: Enter the IP address IP address in the IP address box. In the Subnet Mask field, click the drop-off arrow and select the IP Subnet mask. Step 10 (optional) you can enter information about additional settings right now or enter it later using the device manager interface. You can enter other administrative settings in the additional settings fields. For example, additional settings define and synchronize the switch for extended control. NTP automatically syncs the switch clock with the network clock. You Are You manually set the system clock if the switch needs to have different settings. Step 11 (optional) you can select the Advanced Settings tab in the Express Setup window and enter the extended settings right now or enter them later using the device manager's interface. In the Telnet access field, click Enable if you're going to use Telnet to control the switch using the command line interface (CLI). If you include access to Telnet, you must enter the Telnet password. In the Telnet Password box, enter the password. The Telnet password can be 1 to 25 alphabetical characters, is sensitive to the case, allows built-in space, but does not allow spaces at the beginning or end. In the Telnet password confirmation box, always enter the Telnet password. In the SNMP area, click Enable to include a simple network management protocol (SNMP). Turn on SNMP only if you plan to manage switches with CiscoWorks 2000 or another SNMP-based network management system. If you turn on SNMP, you should enter a community line in the SNMP Read Community field, the SNMP Write Community field, or both. SNMP community lines authenticate access to MIB objects. Built-in spaces are not allowed in SNMP community lines. When you set up a SNMP reading community, you can access SNMP information, but you can't change it. When you set up the SNMP community, you can both access and change SNMP information. In the contact box of the system and the location of the system, enter the contact name and the wiring cabinet, floor or building where the switch is located. In the Enable iPv6 field, click Enable to enable IPv6 on the switch. The IPv6 field is on by default. Note IPv6 restarts the switch when the express setting is completed. Step 12 Click Send to save your changes and complete the initial setup. After clicking Send: The switch is set up and the express setting mode comes out. The browser displays a warning message and tries to connect to the previous IP address of the switch. Typically, the connection between COMPUTHER or laptop and switch is lost because the switch's configured IP address is in a different subnet from the IP address on your PC or laptop. For more information about Express Setup, see an online help for the Express Setup window. Step 13 Unplug the switch from your PC or laptop and set the switch on the network. See the Switch Installation section. Step 14 If you've changed a static IP address on your computer or laptop in step 2, change it to a previously configured static IP address. Step 15 See The Switch Management section for information about the settings and controls of the switch. Step 16 To display device management: 1. Run a web browser on your computer or laptop. 2. Enter the switch IP address user and password assigned in step 9 in the browser, and click Enter. The device manager's page is displayed. Troubleshooting: If the device manager does not show up: Confirm The PORT's LED for the switch port, connected to the network, is green. Confirm that the computer or laptop you're using has a network connection by connecting it to a well-known web server on your network. If you don't have a network connection, fix the network settings on your PC or laptop. Make sure the switch IP address in the browser is correct. If the SWITCH IP address in the browser is correct, the Switch's LED interface is green, and the PC or laptop has a connection to the network, continue troubleshooting by connecting your computer or laptop to the switch. Set up a static IP address on a PC or laptop that is in the same subnet as the Switch IP address. When the LED in the switch port connected to a PC or laptop is green, insert the switch's IP address into the browser to display the device manager. When you set up your device, you can continue to work with the configuration. Once you've completed the express setting and the switch you're installing on the network, you can use these settings for configuration: the easiest way to control the switch is by using the device manager in the switch memory. It's a web interface that offers quick configuration and monitoring. You can access it through a web browser. Follow these steps: 1. Run a web browser on your computer or laptop. 2. Enter the Switch IP address in your web browser and click Enter. The device manager's page is displayed. 3. Use the device manager for basic switch configuration and monitoring. For more information, contact your online device manager. Configuration Wizard is a controller's user interface (UI) that allows you to complete your initial wireless configuration after setting up an IP address, local username, password, or authorization using an authentication server. Using the Web user interface, you can set up a controller, WLAN, and radio connections for all initial operations, set management parameters, set security policies, commands to manage access to software, set up system logs, and other tasks. For more information about using Configuration Wizard, see the Switch Configuration Guide to the Cisco Network Assistant Cisco.com, a software program you download from Cisco.com and work on your PC or laptop. It offers enhanced customization and monitoring capabilities for multiple devices, including switches, switch clusters, switch stacks, routers, and access points. Network Assistant is free - there is no fee to download, install or use it. To use Cisco Network Assistant: Step 1 Go to this web address: Note You must be a registered user but you don't need other privileges of access. Step 2 Click on the download software link, and select the version you want to download. Step 3 Find a Network Assistant Installer. Step 4 Download the Network Assistant installer and run it. (You can run it directly from the Internet if your browser offers offers Choice.) When you start installing, follow the instructions. In the final panel, click Finish. For more information, visit Network Assistant and network Assistant Getting Started Guide. You can enter Cisco iOS commands and settings via CLI using one of these options: USB Console Port RJ-45 Console Port Ethernet Management Port Note You can't use the RJ-45 console port and the USB console port at the same time. The USB console port takes precedence over the RJ-45 port when both devices are connected. Please note that if you connect a Microsoft-based MAC or laptop to the usb console port, install the USB device driver before you first connect. For instructions, see the Catalyst 3850 switch guide. Step 1 Connect the USB cable to the USB port of your PC or laptop. Connect the other end of the cable to the mini-B (5-pin-connector) USB port on the front of the switch. Step 2 Running a terminal emulation program on a PC or laptop. Step 3 Setting up PC or laptop terminal emulation software for 9600 bod, 8 bits of data, no parity, 1 stop-bit, and no flow control. Step 4 Use CLI to customize the switch. See the Catalyst 3850 Switch Configuration Guide and the Catalyst 3850 Switch Team recommendation. Step 1 Connect the RJ-45-to-DB-9 cable to a 9-pin serial port on a PC or laptop. Connect the other end of the cable to the switch console port on the back. Step 2 Running a terminal emulation program on a PC or laptop. Step 3 Setting up PC or laptop terminal emulation software for 9600 bod, 8 bits of data, no parity, 1 stop-bit, and no flow control. Step 4 Use CLI to customize the switch. See the Catalyst 3850 Switch Configuration Guide and the Catalyst 3850 Switch Team recommendation. Step 1 Connect the Ethernet Category 5 cable to an Ethernet pc or laptop. Connect the other end of the cable to the control port on the back of the switch. Step 2 Start a Telnet session on a PC or laptop. Step 3 Enter the IP address of the switch, assigned with Express Setup. Step 4 Use CLI to customize the switch. See a guide to software configuration and team recommendations. Cisco Prime Infrastructure combines Cisco Prime Network Control System (NCS) wireless functionality and Cisco Prime LAN Management Solution (LMS) wireless functionality with cisco Prime Assurance Manager performance monitoring and troubleshooting capabilities. For more information from Cisco.com. This section describes the main 19-inch mounting racks. See Catalyst 3850 Switch Equipment Installation Guide for Others brackets of information. The illustrations show the Catalyst 3850-48P-L switch. You can install and connect other others 3850 switches, as shown. Phillips screwdriver to the rack-mounting switch. Before installing the switch, make sure these recommendations are implemented: Clearance is maintained so that the LEDs on the front can be read. The AC power cord reaches from the AC socket to the rear panel connector. The back panel of the switch has a clearance of 4.4 inches (11.1 cm). If you're installing a 1100-watt power module, make sure the switch is installed before you install. The cable is away from sources of electrical noise such as radio, power lines and fluorescent lighting. Make sure the cables are safe from other devices that may damage the cables. If necessary, allow one RU space between devices to provide space for cables. The airflow around the switch and through the vents is unlimited. The temperature around the device does not exceed 113 degrees Fahrenheit (45 degrees Celsius). If the switch is in a closed or multi-circuit assembly, the temperature may be above normal room temperature. The humidity around the switch does not exceed 95 percent. The height at the installation site is below 10,000 feet. For stationary ports, 10/100/1000 switch-to-connected cables are no longer than 328 feet (100 meters). Cooling mechanisms, such as fans and blowers in the switch, can draw dust and other particles, causing the build-up of pollutants inside the chassis, which can cause the system to malfunction. Install a switch in an environment as free as possible from dust and foreign conduct material (e.g. metal flakes from construction activities). Translations of these warning statements are displayed in the compliance and security regulatory information for the Catalyst 3850 Switch Cisco.com. Warning Only trained and qualified personnel should be allowed to install, replace or maintain this equipment. Statement 1030 Warning To prevent overheating of the system, do not work in an area that exceeds the maximum recommended ambient temperature:113 F (45 degrees Celsius) Statement 1047 Warning to prevent airflow restriction, allow the gap around the vents to be at least:3 inches (7.6 cm) Statement 1076 Note Ground architecture of this product is isolated D.C.-I). Use four flat-head Phillips screws to attach the long side of each bracket to the switch in one of these fasteners. Figure 2 Attaching braces to the switch rear-mounted position of the front-mounted position Number 8 Phillips flat-headed screws Use four number-12 Phillips machine screws to attach braces to Use the black screw of the Phillips machine to attach the cable guide to the left or right bracket. Warning To prevent bodily harm while installing or maintaining this device in the rack, you should take special precautions to make sure that the system remains stable. The following guidelines are provided to ensure your safety: This unit should be installed at the bottom of the rack if it is The only unit in the rack. When you install this device in a partially filled rack, load the rack from the bottom up with the heaviest component at the bottom of the rack. If the rack is provided with stabilizing devices, install stabilizers before installing or maintaining the device in the rack. Statement 1006 Figure 3 Attaching Braces to the Phillips Rack Machine Screw, Black Front Mounting Position Cable Guide Number-12 or Number-10 Phillips Machine Screws Set Power Modules if necessary. Make a loop in the power cord and thread it through the power cord retainer. Connect the power cord to the power grid. Figure 4 Ensuring ac force cord you can fold the Catalyst 3850 switch with other Catalyst 3850 switches. Before you connect stackWise cables, check out the Compromise Data Stack Planning section in the Catalyst 3850 installation guide. Always use the Cisco-approved StackWise cable to connect switches. To connect the cable to the StackWise port on the back of the switch: Step 1 make sure the Cisco logo is focused on the top side of the connector, as shown in the illustration. Step 2 Level the connector and connect the StackWise cable to the StackWise port on the back of the switch and finger tighten the screw (direction clockwise). Step 3 Connect the other end of the cable to the port on the other switch and tighten the screw with your finger. Avoid tightening screws. Figure 5 Insert stackWise cable insertion in the stackWise port Cisco logo Of the Captive Screw Warning Removal and installation of the StackWise cable can shorten its lifespan. Don't remove and insert the cable more often than necessary (installing and removing it up to 200 times supported). This illustration shows the recommended stack configuration with connections using 0.5-meter StackWise cables. Please note that you cannot have a switch stack containing a mixture of Catalyst 3850 and Catalyst 3650 switches. For more configuration examples, see the Catalyst 3850 Switch Installation Guide to Cisco.com by: Figure 6 Sample StackWise Cable Configuration Always use the Cisco-approved StackPower cable to connect switches. Please note that the Catalyst 3850 ports accept either the yellow or green end of the StackPower cable. Line the connector and connect the StackPower cable to the S-PWR port on the back of the switch and tighten the screw with your finger. Connect the other end of the cable to the port on the other switch and tighten the screw with your finger. Avoid tightening screws. Figure 7 StackPower Cable Connection to the S-PWR Port Caution Removal and Installation of the StackPower Cable can shorten its lifespan. Don't delete and insert the cable more often than necessary. You can set up StackPower stack up to four switches to share or redundancy. This illustration shows stack configuration with connections using 0.3-meter StackPower cables. For more examples, see the Catalyst 3850 Switch Installation Guide to Cisco.com by: Figure 8 Sample Stack Configuration Stack Stack Switch takes a hot-replacement network extension module that provides SFP (1 Gigabit) and, depending on the model, SFP (10 Gigabit) up the port links. Please note that you need a screwdriver number 2 Phillips to install the network module. Step 1 Loosen the captive screws, and remove the empty lid of the module network. Step 2 Slide the network module into the hole until the back of the module's face panel is rinsed using the face switch panel. Tighten the captive screws. A list of supported network modules can be found in the Catalyst 3850 Switch installation guide at: When you connect to servers, workstations, IP phones, wireless hotspots, and routers: Use a direct, twisted four-pair category 5 cable at 10/100/1000 port. Use a crossover, twisted four pairs, a category 5 cable when connecting to other switches, hubs, or repeaters. Connect the other cable end to the RJ-45 port on another device. In some switch models, 10/100/1000 ports support Power over Ethernet (PoE), PoE or Cisco Universal Power Over Ethernet (Cisco UPOE). For more information, see the iEEE 802.3af (up to 15.4 W) PoE support guide for iEEE 802.3at devices with compatible devices (up to 30 Cisco.com w) PoE. Note that the auto-MDIX is enabled by default. The switch detects the type of cable you need for Ethernet copper connections and customizes interfaces. You can use either a crossover or a straight cable to connect to the copper 10/100/1000 port module on the switch, regardless of the type of connected device. Use only Cisco SFP transsaver modules with switch. A list of supported modules can be found in the Catalyst 3850 switching guide. Detailed instructions for installing, removing and connecting SFP modules to the transceiver can be found in the documentation of the SFP and SFP transceiver modules. Step 1 Hold the SFP transceiver module on the sides and insert it into the SPF module slot on the switch until you feel that the connector will shine in place. Please note that depending on the switch model you are working with, the four SFP module slots can be all 1-Gigabit SFP module slots or all 10-gigabit slots of the SFP module. They can also be a combination of a pair of SFP slots on the left and a pair of SFP slots on the right. SFP slots support both SFP and SFP modules. Step 2 Connect the appropriate cable to Module. Step 3 Connect the other cable end to another device. After connecting the device to the switch port, the port's LED port Amber for about 30 seconds until the switch sets the link. The LED turns green when the switch and the attached device have a link. If the LED is turned off, the device may not be on, cable problems may occur, or there may be problems with the adapter installed in the device. This section includes troubleshooting Express Setup, how to reset the switch, how to access help online, and where to find more information. If Express Setup doesn't work, or if the Express Setup page doesn't appear in your browser: Did you check that POST worked well before launching Express Setup? If not, make sure only the SYST LED and ACTV LED are green before you press the mode button to enter Express Setting mode. Post errors are usually fatal. Contact your Cisco technical support representative if your switch fails POST. Do you press the mode button while the switch still works POST? If so, wait until POST completes. Cycle power switch. Wait until THE POST is complete. Confirm that the SYST LED and ACTV LED are green. Click Mode to enter Express Setup mode. Have you tried to continue without confirming that the switch was in Express Setup mode? Make sure all LEDs next to the Mode button are green. If not, click Mode and hold it to enter Express Setup mode. Does your computer or laptop have a static IP address? If so, change your PC or laptop settings to temporarily use DHCP before you connect to the switch. Are you connecting the Ethernet cable to the console port instead of the 10/100/1000 Ethernet port or the control port on the switch? If so, disconnect the cable from the console port. Connect the cable to the Ethernet port on the switch. Wait 30 seconds before entering 10.0.0.1 in the browser. Did you wait 30 seconds after connecting the switch and PC or laptop before you insistived the IP address in your browser? If not, wait 30 seconds, type 10.0.0.1 into the browser, and click Enter. Have you logged the wrong address in your browser, or is there an error message? If so, re-enter 10.0.0.1 in the browser, and click Enter. Caution Reset Switch reboots the switch. To reset the switch to factory default: Step 1 If you're using Cisco iOS XE Release 3.6.0E or later releases, enter the privileged EXEC team to remove the contents of the launch configuration. If you're using an earlier release, you may miss this step. Step 2 Click and hold the mode button. Switch LEDs start flashing after about 3 seconds. Step 3 Continue holding the Mode button. LeDs stop blinking after another 7 seconds, and then the switch restarts. Step 4 Switch now works unconfigured switch. You can enter ip switch information with Express Setup in the Running Express Settings section. Look for a solution to the problem in the troubleshooting section 3850 Switch installation guide or guide to setting up the Catalyst 3850 switch on Cisco.com. You can also access Cisco's technical support and documentation website for a list of known hardware issues and extensive troubleshooting documentation. For information on receipt of documentation, service request and additional information, see the monthly documentation of Cisco products, which also lists all new and revised Cisco technical documents, by: Subscribe to what is new in the documentation of Cisco products as a really simple syndication (RSS) feed and install content that will be delivered directly to your desktop using the reader's app. RSS feeds are a free service and Cisco currently supports RSS Version 2.0. Note Before installing or upgrading the switch, refer to the switch release notes. Catalyst 3850 Switch documentation at: cisco SFP and SFP including compatibility matrix at Cisco Validated Designs at: Error Message Decoder, located at: cisco and the Cisco logo are trademarks or registered trademarks of Cisco and/or its subsidiaries in the United States and other countries. To see Cisco's list of trademarks, go to this URL: www.cisco.com/go/trademarks. 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