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| **DOCUMENT RULES:** | |
| **Task Number / Name:** | **Task / Cisco switch 3650** |
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| **#** | **Task names** | **Command steps and outputs** |
| **1** | What Does Switch Mean? | A switch, in the context of networking, is a high-speed device that receives incoming data packets and redirects them to their destination on a local area network (LAN). |
| **2** | How to configure the switch? | Use Express Setup to enter the initial IP information. This action enables the switch to connect to local routers and the Internet. You can access the switch through the IP address for further configuration.  Note To use the CLI-based initial setup program, see Appendix C, "Configuring the Switch with the CLI-Based Setup Program," in the Catalyst 3650 Switch Hardware Installation Guide. |
| **3** | You need this equipment: | •PC or laptop with Windows Vista, XP, or 7  •Browser (Internet Explorer 5.5, 6.0, or 7.0, or Firefox 1.5, 2.0, or 3.0) with JavaScript enabled  •Straight-through or crossover Category 5 Ethernet cable |
| **4** | **Step 1** | Make sure that nothing is connected to the switch. |
| **5** | **Step 2** | During Express Setup, the switch acts as a DHCP server. If your PC or laptop has a static IP address, temporarily change your PC or laptop settings before you use DHCP. |
| **6** | **Step 3** | Install the power supply modules. See the "Power Supply Installation" chapter in the *Catalyst 3650 Switch Hardware Installation Guide* for instructions.  **http://www.cisco.com/go/cat3650\_hw**  **Note**For information on 250-W AC power supply support on the PoE-capable switch models, refer to the *Release Notes for the Cisco Catalyst 3650 Switch*on Cisco.com. |
| **7** | **Step 4** | Power the switch.  AC power switches: Plug the AC power cord into the switch power supply and into a grounded AC outlet.  DC power switches: See the wiring instructions in the *Catalyst 3650 Switch Hardware Installation Guide* on Cisco.com |
| **8** | **Step 5** | Observe the POST results. Approximately 30 seconds after the switch powers on, it begins the power-on self-test (POST), which can take up to 5 minutes to complete.  During POST, the SYSTEM LED blinks green. When POST is complete, the SYSTEM LED turns solid green. The ACTV LED is green if the switch is acting as the active switch.  **Note**Before going to the next step, wait until POST is complete.  **Troubleshooting:**  If the SYST LED does not turn solid green, or turns amber, the switch failed the POST. Contact your Cisco representative or reseller. |
| **9** | **Step 6** | Press and hold the Mode button until all the LEDs next to the Mode button turn green.  You might need to hold the button for more than 3 seconds.  The switch is now in Express Setup mode.  **Troubleshooting:**  If the LEDs next to the Mode button blink when you press the button, release it. Blinking LEDs mean that the switch is already configured and cannot go into Express Setup mode. For more information, see the ["Resetting the Switch" section](https://www.cisco.com/c/en/us/td/docs/switches/lan/catalyst3650/hardware/quick/guide/cat3650_gsg.html#wp105883). |
| **10** | **Step 7** | Connect a Category 5 Ethernet cable to a port:  •Any 10/100/1000 or 10/100/1000 PoE+ Ethernet ports on the switch front panel.  •The RJ-45 management port on the switch rear panel.  Connect the other end of the cable to the Ethernet port on your PC or laptop.  Wait until the port LEDs on the switch and your PC or laptop are green or blinking green. Green LEDs indicate a successful connection.  **Troubleshooting:**  If the port LEDs do not turn green after about 30 seconds, make sure that:  •You connected the Ethernet cable to one of the downlink switch ports (not to the console port).  •You are using an undamaged Category 5 or 6 Ethernet cable.  •The other device is turned on. |
| **11** | **Step 8** | Start a browser session on the PC or laptop, and enter the IP address **https://10.0.0.1**. When prompted, enter the default password, cisco.  **Note**The switch ignores text in the username field.  The Express Setup window appears.  **Troubleshooting:**  If the Express Setup window does not appear, make sure that any browser pop-up blockers or proxy settings are disabled and that any wireless client is disabled on your PC or laptop. |
| **12** | **Step 9** | Enter this information in the Network Settings fields:  **Note**All entries must be in English letters.  •In the Management Interface (VLAN ID) field, the default is 1.  **Note**We recommend that you use the default VLAN value. During Express Setup, VLAN 1 is the only VLAN on the switch. Enter a new VLAN ID only if you want to change the management interface through which you manage the switch. The VLAN ID range is 1 to 1001.  •In the IP Address field, enter the switch IP address.  •In the Subnet Mask field, click the drop-down arrow, and select a subnet mask.  •In the Default Gateway field, enter the IP address for the default gateway (router).  •Enter your password in the Switch Password field. The password can be from 2 to 25 alphanumeric characters, can start with a number, is case sensitive, allows embedded spaces, but does not allow spaces at the beginning or end. In the Confirm Switch Password field, enter your password again.  **Note**You must change the default password, cisco.  (Optional) Enter this information in the Ethernet Management Port Settings fields:  •In the IP Address field, enter the IP address of the Ethernet management port. In the Subnet Mask field, click the drop-down arrow, and select an IP Subnet Mask. |
| **13** | **Step 10** | Optional) You can enter other administrative settings in the Optional Settings fields. You can enter the Optional Settings information now or enter it later using the Device Manager interface. For example, the optional administrative settings identify and synchronize the switch for enhanced management. NTP automatically synchronizes the switch clock with the network clock. You can manually set the system clock if the switch should have different settings. |
| **14** | **Step 11** | Optional) You can select the **Advanced Settings** tab on the Express Setup window and enter the advanced settings now or enter them later using the Device Manager interface.    •In the Telnet Access field, click **Enable** if you are going to use Telnet to manage the switch by using the command-line interface (CLI). If you enable Telnet access, you must enter a Telnet password.  •In the Telnet Password field, enter a password. The Telnet password can be from 1 to 25 alphanumeric characters, is case sensitive, allows embedded spaces, but does not allow spaces at the beginning or end. In the Confirm Telnet Password field, reenter the Telnet password.  •In the SNMP field, click **Enable** to enable Simple Network Management Protocol (SNMP). Enable SNMP only if you plan to manage switches by using Cisco Network Assistant or another SNMP-based network-management system.  •If you enable SNMP, you must enter a community string in the SNMP Read Community field, the SNMP Write Community field, or both. SNMP community strings authenticate access to MIB objects. Embedded spaces are not allowed in SNMP community strings. When you set the SNMP read community, you can access SNMP information, but you cannot change it. When you set the SNMP write community, you can both access and change SNMP information.  •In the System Contact and System Location fields, enter a contact name and the wiring closet, floor, or building where the switch is located.  •(Optional) In the Enable IPv6 field, click **Enable** to enable IPv6 on the switch. The IPv6 field is enabled by default.  **Note**Enabling IPv6 restarts the switch when you complete Express Setup. |
| **15** | **Step 12** | Click **Submit** to save your changes and to complete the initial setup.  After you click **Submit**:  •The switch is configured and exits Express Setup mode.  •The browser displays a warning message and tries to connect with the earlier switch IP address. Typically, connectivity between the PC or laptop and the switch is lost because the configured switch IP address is in a different subnet from the IP address on the PC or laptop.  For more information about Express Setup fields, see the online help for the Express Setup window. |
| **16** | **Step 13** | Disconnect the switch from the PC and laptop, and install the switch in your network. See the ["Installing the Switch" section](https://www.cisco.com/c/en/us/td/docs/switches/lan/catalyst3650/hardware/quick/guide/cat3650_gsg.html#wp62482). |
| **17** | **Step 14** | If you changed the static IP address on your PC or laptop in [Step 2](https://www.cisco.com/c/en/us/td/docs/switches/lan/catalyst3650/hardware/quick/guide/cat3650_gsg.html#wp72421), change it to the previously configured static IP address. |
| **18** | **Step 15** | See the ["Managing the Switch" section](https://www.cisco.com/c/en/us/td/docs/switches/lan/catalyst3650/hardware/quick/guide/cat3650_gsg.html#wp43320) for information about configuring and managing the switch. |
| **19** | Managing the Switch | After completing Express Setup and installing the switch in your network, you can use these options for configuration:  •[Configuration Wizard](https://www.cisco.com/c/en/us/td/docs/switches/lan/catalyst3650/hardware/quick/guide/cat3650_gsg.html#wp109623)  •[Device Manager](https://www.cisco.com/c/en/us/td/docs/switches/lan/catalyst3650/hardware/quick/guide/cat3650_gsg.html#wp109619)  •[Cisco Network Assistant](https://www.cisco.com/c/en/us/td/docs/switches/lan/catalyst3650/hardware/quick/guide/cat3650_gsg.html#wp56728)  •[Command-Line Interface](https://www.cisco.com/c/en/us/td/docs/switches/lan/catalyst3650/hardware/quick/guide/cat3650_gsg.html#wp52980)  •[Other Management Options](https://www.cisco.com/c/en/us/td/docs/switches/lan/catalyst3650/hardware/quick/guide/cat3650_gsg.html#wp50254) |
| **20** | Configuration Wizard | The Configuration Wizard is a Web-based controller user interface (UI) that lets you complete the initial wireless configuration after you configure the IP address, local username, and password or authorization using the authentication server. Using the Web UI, you can configure the controller, WLAN, and radios for all initial operations, establish management parameters, set security policies, access software management commands, configure system logs, and other tasks. |
| **21** | Device Manager | The simplest way to manage the switch is by using Device Manager in the switch memory. Use Device Manager for basic switch configuration and monitoring. This web interface offers quick configuration and monitoring. You can access it through a web browser. |
| **22** | To display Device Manager: | **Step 1**Start a web browser on your PC or laptop.  **Step 2**Enter the switch IP address, username, and password assigned in [Step 9](https://www.cisco.com/c/en/us/td/docs/switches/lan/catalyst3650/hardware/quick/guide/cat3650_gsg.html#wp72548) above, and press **Enter**. The Device Manager page appears. Refer to the Device Manager online help for more information. |
| **23** | If Device Manager does not appear | CoConfirm that the port LED for the switch port connected to your network is green.  •Confirm that the PC or laptop that you are using has network connectivity by connecting it to a well-known web server in your network. If there is no network connection, troubleshoot the network settings on the PC or laptop.  •Make sure that the switch IP address in the browser is correct.  •If the switch IP address in the browser is correct, the switch interface LED is green, and the PC or laptop has network connectivity, then continue troubleshooting by reconnecting the PC or laptop to the switch. Configure a static IP address on the PC or laptop that is in the same subnet as the switch IP address.  •When the LED is green on the switch port that is connected to the PC or laptop, reenter the IP address of the switch in a browser to display Device Manager. When Device Manager appears, continue with the configuration. |