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GS700TP Smart Switch Software Administration Manual

NETGEAR

NETGEAR, Inc.
4500 Great America Parkway
Santa Clara, CA 95054 USA

202-10242-02
December 2007



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Manual abstract:

@@@ in the United States and/or other countries. @@@@NETGEAR does not assume any liability that may occur due to the use or application of the product(s) or circuit layout(s) described herein. Information is subject to change without notice. Certificate of the Manufacturer/Importer It is hereby certified that the GS700TP Gigabit PoE Smart Switch has been suppressed in accordance with the conditions set out in the BMPT-AmtsblVfg 243/1991 and Vfg 46/1992. The operation of some equipment (for example, test transmitters) in accordance with the regulations may, however, be subject to certain restrictions.

Please refer to the notes in the operating instructions. The Federal Office for Telecommunications Approvals has been notified of the placing of this equipment on the market and has been granted the right to test the series for compliance with the regulations. Voluntary Control Council for Interference (VCCI) Statement This equipment is in the first category (information equipment to be used in commercial and/or industrial areas) and conforms to the standards set by the Voluntary Control Council for Interference by Data Processing Equipment and Electronic Office Machines that are aimed at preventing radio interference in commercial and/or industrial areas. Consequently, when this equipment is used in a residential area or in an adjacent area thereto, radio interference may be caused to equipment such as radios and TV receivers. Federal Communications Commission (FCC) Compliance Notice: Radio

Frequency Notice This device complies with part 15 of the FCC Rules.

Operation is subject to the following two conditions: This device may not cause harmful interference. This device must accept any interference received, including interference that may cause undesired operation. NOTE: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be ii v1.0, December 2007 GS700TP Smart Switch Software Administration Manual determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures: Reorient or relocate the receiving antenna.

Increase the separation between the equipment and receiver. Connect the equipment into an outlet on a circuit different from that which the receiver is connected.

Consult the dealer or an experienced radio/TV technician for help. EU Statement of Compliance The NETGEAR GS700TP Gigabit PoE Smart Switch is compliant with the following EU Council Directives: 89/336/EEC and LVD 73/23/EEC. Compliance is verified by testing to the following standards: EN55022 Class A, EN55024 and EN60950-1. Warning: This is a Class A product. In a domestic environment, this product may cause radio interference, in which case the user may be required to take appropriate measures. Canadian Department of Communications Radio Interference Regulations This digital apparatus (NETGEAR GS700TP Smart Switch) does not exceed the Class A limits for radio-noise emissions from digital apparatus as set out in the Radio Interference Regulations of the Canadian Department of Communications. Règlement sur le brouillage radioélectrique du ministère des Communications Cet appareil numérique (NETGEAR GS700TP Smart Switch) respecte les limites de bruits radioélectriques visant les appareils numériques de classe A prescrites dans le Règlement sur le brouillage radioélectrique du ministère des Communications du Canada. Customer Support For assistance with installing and configuring your NETGEAR system or for questions or problems following installation: Check the NETGEAR Web page at <http://www.NETGEAR.com/support> Call Technical Support in North America at 1-888-NETGEAR.

If you are outside North America, please refer to the phone numbers listed on the Support Information Card that was included with your switch. Email Technical Support at support@NETGEAR.com. Defective or damaged merchandise can be returned to your point-of-purchase representative. Internet/World Wide Web NETGEAR maintains a World Wide Web home page that you can access at the uniform resource locator (URL) <http://www.NETGEAR.com>. A direct connection to the Internet and a Web browser such as Internet Explorer or Netscape are required. iii v1.0, December 2007 GS700TP Smart Switch Software Administration Manual FCC Requirements for Operation in the United States FCC Information to User: This product does not contain any user-serviceable components and is to be used with approved antennas only.

Any product changes or modifications will invalidate all applicable regulatory certifications and approvals FCC Guidelines for Human Exposure: This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 cm between the radiator and your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter. FCC Declaration Of Conformity: We, NETGEAR, Inc., 4500 Great America Parkway, Santa Clara, CA 95054, declare under our sole responsibility that the model GS700TP Gigabit PoE Smart Switch complies with Part 15 of FCC Rules.

Operation is subject to the following two conditions: a) This device may not cause harmful interference and b) This device must accept any interference received, including interference that may cause undesired operation." Product and Publication Details Model Number: Publication Date: Product Family: Product Name: Home or Business Product: Language: Publication Part Number: Publication Version Number: GS700TP December 2007 Smart Switch GS700TP Gigabit PoE Smart Switch Business English 202-10242-02 1.0 iv v1.0, December 2007 Contents About This Manual Who Should Use this Book ..

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Complete Manual. · · Click the Complete PDF Manual link at the top left of any page in the manual. The PDF version of the complete manual opens in a browser window. Click the print icon in the upper left of your browser window. Tip: If your printer supports printing two pages on a single sheet of paper, you can save paper and printer ink by selecting this feature.

Revision History Part Number 202-10242-01 202-10242-02 Version Date Number 1.0 1.0 May 2007 December 2007 Description Product created Feature update xii v1.0, December 2007 About This Manual Chapter 1 Getting Started with Switch Management This section provides an overview of switch management, including the methods you can choose to start managing your NETGEAR GS700TP Gigabit PoE Smart Switch. It also leads you through the steps necessary to get started, using the SmartWizard Discovery utility.

The section includes this information under the following menu options: · · · · · "System Requirements" "Switch Management Interface" "Network with a DHCP Server" "Network without a DHCP Server" "Web Access" "Additional Utilities" System Requirements The following hardware and software facilities are required to run the applications described in this manual: · Network facilities: Ethernet network with or without DHCP server as appropriate Ethernet cable to connect the switch to a PC For running the SmartWizard Discovery utility and local or remote Web Management: IBM-type PC with CD drive: RAM size and disk specification are not critical OS software: Microsoft Windows Vista, Windows XP, or Windows 2000 Desktop computer running Microsoft Internet Explorer 5.0 or later or Netscape Navigator 6.0 or later, or equivalent · 1-1 v1.0, December 2007 GS700TP Smart Switch Software Administration Manual Note: For complete hardware installation instructions, refer to the GS700TP Smart Switch Hardware Installation Manual included on your Resource CD, or go to <http://www.netgear.com/support>.

Switch Management Interface Your NETGEAR GS700TP Gigabit PoE Smart Switch contains an embedded web server and management software for managing and monitoring switch functions. This switch operates as a simple switch without using the management software. The management software enables you to configure more advanced features, and consequently improve switch efficiency as well as overall network performance. Web-Based Management enables you to monitor, configure, and control your switch remotely using a common web browser, instead of having to use expensive and complicated SNMP software products. Simply by using your web browser, you can monitor the performance of your switch and optimize network configuration. Using your browser, for example, you can set up VLANs, traffic priority, and configure port trunking. In addition, NETGEAR provides the SmartWizard Discovery utility with this product. This program runs under Microsoft Windows XP or Windows 2000 and provides a "front end" that discovers the switches on your network segment. When you power up your switch for the first time, the SmartWizard Discovery utility enables you to configure its basic network parameters without prior knowledge of IP address or subnet mask.

Following such configuration, this program leads you into the Web Management interface. Some features of the SmartWizard Discovery utility and Web Management interface are shown in the table below. 1-2 Getting Started with Switch Management v1.0, December 2007 GS700TP Smart Switch Software Administration Manual Table 1-1. Switch Management Methods Management Method SmartWizard Discovery utility Features No IP address or subnet mask setup needed Discover all switches on the network User-friendly interface under Microsoft Windows Firmware upgrade capability Password change feature Provides entry to web configuration of switch Password protection Ideal for configuring the switch remotely Compatible with Internet Explorer and Netscape Navigator on any platform Extensive switch configuration possible Configuration backup and restore Can be accessed from any location via the switch's IP address Intuitive browser interface Most visually appealing Web browser interface For a more detailed discussion of the SmartWizard Discovery utility, continue with this section: "Network with a DHCP Server" or "Network without a DHCP Server".



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For a detailed discussion of the Web Browser Interface, see Chapter 2, "Introduction to the Web Browser Interface". Network with a DHCP Server To install the switch in a network with a DHCP server, proceed as follows: 1. Connect the GS700TP Smart Switch to a DHCP network. 2. Power on the switch by connecting its AC-DC power adapter.

3. Install the SmartWizard Discovery utility, located on the switch installation CD, on your computer. 4. Start the SmartWizard Discovery utility. 5. Click Discover for the SmartWizard Discovery utility to find your GS700TP Gigabit PoE Smart Switch. You should see a screen similar to that shown below.

Getting Started with Switch Management v1.0, December 2007 1-3 GS700TP Smart Switch Software Administration Manual . Figure 1-1 6.

Note the displayed IP address assigned by the DHCP server. You will need this value to access the switch directly from a web browser (without using the SmartWizard Discovery utility). 7. Select your switch by highlighting the name of the switch. Then click Web Access. The discovery utility displays a login window similar to the following: Figure 1-2 8. Use your web browser to manage your switch. The default password is password. Then use this screen to proceed to management of the switch covered in Chapter 2, "Introduction to the Web Browser Interface". 1-4 Getting Started with Switch Management v1.

0, December 2007 GS700TP Smart Switch Software Administration Manual Network without a DHCP Server This section describes how to set up your switch in a network without a DHCP server, and is divided into the following tasks: . . . Manually assign network parameters for your switch Configure the NIC settings on the host PC Log in to the web-based switch management utility Manually Assigning Network Parameters If your network has no DHCP service, you must assign a static IP address to your switch. You can also assign the switch a static IP address even if your network has DHCP service. Proceed as follows: 1. Connect the GS700TP Gigabit PoE Smart Switch to your existing network. 2. Power on the switch by plugging in the AC-DC power adapter. The default IP is 192.168.0.239.

3. Install the SmartWizard Discovery utility on your computer. The SmartWizard Discovery utility is located on the switch installation CD. 4. Start the SmartWizard Discovery utility.

5. Click Discover for the SmartWizard Discovery utility to find your GS700TP Gigabit PoE Smart Switch. You should see a screen similar to that shown in Figure 1-1. 6. Click Configuration Setting.

A screen similar to that shown below appears. Getting Started with Switch Management v1.0, December 2007 1-5 GS700TP Smart Switch Software Administration Manual . Figure 1-3 7. Select Disable to disable DHCP. 8. The default IP address is 192.168.0.239 and the default subnet mask is 255.

255.255.0. If you want different values, enter the switch IP address, gateway IP address and subnet mask. 9. Type your password and click Set. Please ensure that your PC and the GS700TP Gigabit PoE Smart Switch are in the same subnet. Note the settings for later use. NIC Setting on the Host that Accesses the GS700TP Gigabit PoE Smart Switch The settings of your Network Interface Card (NIC) under MS Windows OS are made with entries into Windows screens similar to the ones shown below. For comparison, the settings screens of the switch are also shown although they do not appear in the Windows view. 1-6 Getting Started with Switch Management v1.0, December 2007 GS700TP Smart Switch Software Administration Manual Figure 1-4 You need Windows

Administrator privileges to change these settings. 1. On your PC, access the MS Windows operating system TCP/IP Properties. 2.

Set IP address and subnet mask appropriately. The subnet mask value is identical to that set in the switch. The PC IP address must be different from that of the switch but lie in the same subnet. 3. Click Web Access in the SmartWizard Discovery utility to enable the management screens as described in the following section.

Web Access For Web access, you can either: . . Select Web Access using the SmartWizard Discovery utility (see "Network with a DHCP Server" or "Network without a DHCP Server"). Access the switch directly, without using the SmartWizard Discovery utility. Getting Started with Switch Management v1.0, December 2007 1-7 GS700TP Smart Switch Software Administration Manual You must work from the same network segment that contains the switch (i.e., the subnet mask values of switch and PC host must be the same) and you must point your browser using the switch IP address. If you used the SmartWizard Discovery utility to set up IP address and subnet mask, either with or without DHCP server, use that IP address in your browser window. If you are starting with an "out of the box" switch and are not using the SmartWizard Discovery utility, you must initially configure your host PC to be on a network segment to match the default parameters of the switch, which are: . . IP address: 192.168.0.

239 Subnet Mask: 255.255.255.0 You can change the network parameters to match those of your network (this procedure is described in Chapter 3, "Managing System Settings"). Your host PC network parameters must then be set to match your network. Clicking Web Access on the SmartWizard Discovery utility or accessing the switch directly displays the screen shown below. . Use this screen to proceed to management of the switch covered in Chapter 2, "Introduction to the Web Browser Interface". Additional Utilities Alternatively, from the main screen shown on Figure 1-1 you can access these additional functions: . . "Password Change" "Firmware Upgrade" Password Change You can set a new password of up to 20 ASCII characters. 1.

Click Password Change from the Switch Setting section. The Password Change screen appears. You can set a new password. You must enter the old and new passwords and confirm the new one. 2.

Click Set to enable the new password. 1-8 Getting Started with Switch Management v1.0, December 2007 GS700TP Smart Switch Software Administration Manual Firmware Upgrade The GS700TP Smart Switch software is upgradeable, and enables your switch to take advantage of improvements and additional features as they become available. The upgrade procedure assumes that you have downloaded or otherwise obtained the firmware upgrade and that you have it available as a binary file on your computer. This procedure uses the TFTP protocol to implement the transfer from computer to switch.

. Note: You can also upgrade the firmware using the Download menu of the switch (see "Download"). If you click Firmware Upgrade from the main screen (see Figure 1-1), after you have selected the switch to upgrade, the following screen appears: . Figure 1-5 1. Enter the following values into the appropriate places in the form: . . Product Assigned Firmware: The location of the new firmware.



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If you do not know the location, click Browse to locate the file. Upgrade Password: Enter your password; the default password is password. 1-9 Getting Started with Switch Management v1.0, December 2007 GS700TP Smart Switch Software Administration Manual 2. Click Apply to apply the settings to the Upgrade Configuration.

3. Click Start Upgrade to begin loading the upgrade. The system software is automatically loaded. The Upgrade State field shows upgrading in progress. When the process is complete, the switch automatically reboots. Exit Click Exit from the SmartWizard Discovery screen to close the SmartWizard Discovery utility. 1-10 Getting Started with Switch Management v1.0, December 2007 Chapter 2 Introduction to the Web Browser Interface This section introduces the web browser interface that enables you to configure and manage your NETGEAR GS700TP Gigabit PoE Smart Switch. Your GS700TP Smart Switch provides a built-in browser interface that enables you to configure and manage it remotely using a standard Web browser such as Microsoft Internet Explorer or Netscape Navigator. Online Help is also provided for many of the basic functions and features of the switch.

This section introduces the areas of the browser interface and includes the following topics: · · "Logging Into the NETGEAR Home Screen" "Using the NETGEAR Web Management System Options" Logging Into the NETGEAR Home Screen Begin your overview of the GS700TP Smart Switch browser interface by logging in: 1. Start the application by one of the following methods, as described in Chapter 1, "Getting Started with Switch Management": a. In the SmartWizard Discovery utility click Web Access. or b. In the web browser enter the switch's IP address and press Enter.

The Login screen appears. Figure 2-1 2-1 v1.0, December 2007 GS700TP Smart Switch Software Administration Manual 2. Enter the password (the factory default is password) and click Login. The home screen of the GS700TP Smart Switch browser interface displays.

The Navigation Menu As shown below, logging in brings you to the view of the web browser interface. Figure 2-2 The NETGEAR GS700TP web browser interface contains the following views: Main Navigation Area Located on the top of the NETGEAR GS700TP web browser interface and marked as 1 in Figure 2-2. The Main Navigation Area includes Primary and Secondary Navigation Bars. The Primary Navigation Bar contains a list of the different features that can be configured including System, Switching, QoS, Security, Monitoring, Maintenance and Help. Each feature expands to a subset of features that can be configured as part of the Secondary Navigation Bar. Left Navigation Tree Located on the left side of the NETGEAR GS700TP web browser interface and marked as 2 in Figure 2-2. For each Secondary Navigation Feature the Left Navigation Tree contains a subset of features that can be expanded to display all the components. 2-2 Introduction to the Web Browser Interface v1.0, December 2007 GS700TP Smart Switch Software Administration Manual Work Area Located on the right side of the NETGEAR GS700TP web browser interface and marked as 3 in Figure 2-2. The Work Area contains device tables, general device information, and configurable device parameters.

For further description of the functions, refer to the appropriate section of this manual: · · · · · Chapter 3, "Managing System Settings" describes how to configure the System functions. Chapter 4, "Configuring Switching Settings" describes how to configure the Switch functions. Chapter 5, "Configuring QoS" describes how to configure QoS functions. Chapter 6, "Managing Security" describes how to configure security. Chapter 7, "Monitoring the Switch" describes how to configure monitoring functions. Chapter 8, "Maintenance" describes maintenance functions, such as firmware upgrade. Chapter 9, "Online Help" describes how to obtain online help and support. Using the NETGEAR Web Management System Options The GS700TP web browser interface provides the following options: · · · Device Management Buttons Provides an explanation of the management buttons in the NETGEAR GS700TP Smart Switch.

Informational Services Provides access to informational services including technical support, online help and device information. Using Screen and Table Options Provides an explanation of specific GUI characteristics and tables for configuring the device.

Device Management Buttons The NETGEAR GS700TP Smart Switch web browser GUI management buttons allow network managers to easily configure the device from remote locations. The management buttons are shown below: Table 1: Device Management Buttons Description Adds information to tables or information windows. Applies configured changes to the device. Cancels modifications to tables or information windows. Button Name ADD APPLY CANCEL Introduction to the Web Browser Interface v1.

0, December 2007 2-3 GS700TP Smart Switch Software Administration Manual Table 1: Device Management Buttons Description Refreshes device information. Resets statistics counters. Clears logs. Displays current members of a LAG. Deletes information from tables or information windows. Selects the specified interface. Refreshes the screen with current data. Displays tagged port members of a VLAN. Tests copper cables. Displays untagged port members of a VLAN. Button Name CLEAR ALL CLEAR ALL COUNTERS CLEAR LOGS CURRENT MEMBERS DELETE GO REFRESH TAGGED PORT MEMBERS TEST UNTAGGED PORT MEMBERS Informational Services Informational services provide access to technical support, online help and device information and are displayed in the following topics: · · "Help Navigation Tab" "Accessing Device Information" Help Navigation Tab The Help Navigation Tab provides access to informational services including NETGEAR online support and an online user guide in PDF format. For a detailed description of how to access and use these functions, see Chapter 9, "Online Help". Accessing Device Information Each screen of the web browser interface contains a help file with configuration information relating to the selected screen. 2-4 Introduction to the Web Browser Interface v1.0, December 2007 GS700TP Smart Switch Software Administration Manual To access the help file for a screen: 1.

Click the encircled red Question Mark icon, shown in the example below. Figure 2-3 A help window for the screen opens. Figure 2-4 Using Screen and Table Options The NETGEAR GS700TP web browser interface contains screens and tables for configuring devices. This section describes the table options: · · · · · "Selecting an Entry" "Adding an Entry" "Modifying an Entry" "Deleting an Entry" "Special Table Options" Introduction to the Web Browser Interface v1.



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0, December 2007 2-5 GS700TP Smart Switch Software Administration Manual Selecting an Entry To select an entry: 1. Check the entry's Select box. The selected entry is highlighted and the information appears in the first row, which contains the editable fields. Figure 2-5 To select all entries: 1. Check the Select box in the first row to select all entries in the table. Fields that are unique are grayed out and displayed as read-only fields.

Figure 2-6 Adding an Entry An entry may be added to the table by creating a new entry or by duplicating an existing entry. 2-6 Introduction to the Web Browser Interface v1.0, December 2007 GS700TP Smart Switch Software Administration Manual To add an entry by creating a new entry in the table: 1. Enter the fields for the new entry in the provided fields in the first row. Figure 2-7 2.

Click Add to update the device. The new entry is displayed. Figure 2-8 Modifying an Entry An entry may be modified by editing its values in the first row. To modify an entry: 1. Select the entry to be modified.

Its contents are displayed in the first row. Figure 2-9 2. Modify the fields in the first row. 3. Click Apply to update the device. Deleting an Entry To delete entries from a table: 1. Select the entries to be deleted. Introduction to the Web Browser Interface v1.0, December 2007 2-7 GS700TP Smart Switch Software Administration Manual 2. Click Delete to update the device.

Special Table Options The NETGEAR web browser interface tables have a unique GUI design which includes the following options: . . . Gold Buttons Quick Boxes Interface View and Selection Gold Buttons Gold Buttons provide flexibility in viewing and configuring VLANs/LAGs on a port level. The following example displays gold button basic usage options. To view the LAG configuration of the ports: 1. Click anywhere on the ports gold button. The ports panel is displayed: Figure 2-10 2. Select the ports to be added as LAG members within the selected LAG by clicking on their respective boxes. 3. Click Apply to update the device. Quick Boxes Quick Boxes provide users with flexibility in configuring VLANs for all ports or LAGs. Clicking on the quick box toggles between the various options that exist for this field.

A quick box appears to the right of the arrow on the left-hand side of the gold button. The following example displays quick box basic usage options. 2-8 Introduction to the Web Browser Interface v1.0, December 2007 GS700TP Smart Switch Software Administration Manual To mark or unmark all ports: 1. Click on the quick box that appears to the left of the ports gold button.

A T appears in the quick box. This sets all ports as Tagged. Figure 2-11 2. Click on the ports gold button to display the ports, which are now all Tagged. Figure 2-12 3.

Click again on the quick box, and a U appears in the quick box and in all the port boxes, marking the ports as untagged. Figure 2-13 Introduction to the Web Browser Interface v1.0, December 2007 2-9 GS700TP Smart Switch Software Administration Manual 4. Click again on the quick box, and the quick box and all the port boxes appear blank, marking the ports as neither tagged nor untagged. 5. You may click on individual port boxes to toggle their tagged/untagged status Interface View and Selection A port or LAG interface may be selected from a table by using the interface selection row, located above the row of column headers. Clicking on PORTS or LAGS displays the ports or the LAGs: Figure 2-14 To display all ports: 1. Click PORTS in the interface selection row. The screen displays a table of all ports. 2-10 Introduction to the Web Browser Interface v1.

0, December 2007 GS700TP Smart Switch Software Administration Manual To display all interfaces: 1. Click All in the interface selection row. A confirmation window opens. Figure 2-15 2. Click OK. The screen displays a table of all interfaces. To display the LAG table: 1. Click LAGS in the interface selection row. The screen displays a table of all LAGs. Figure 2-16 Introduction to the Web Browser Interface v1.

0, December 2007 2-11 GS700TP Smart Switch Software Administration Manual To select an interface: 1. Enter the number of the interface in the GO TO INTERFACE box. 2. Click GO to select the interface, as in the following example. Figure 2-17 2-12 Introduction to the Web Browser Interface v1.

0, December 2007 Chapter 3 Managing System Settings Using the System Settings Utility The navigation pane at the top of the web browser interface contains a System tab that enables you to manage your GS700TP Smart Switch with features under the following main menu options: . . . "Management" "Device View" "PoE" "SNMP" The description that follows in this chapter describes configuring and managing system settings in the GS700TP Smart Switch. Management The Management menu enables configuration of some system parameters, the switch IP Address and the system time, and contains the following options: . . . "System Information" "IP Configuration" "Time" System Information The System Information screen contains parameters for configuring general device information including the system name, system location, system contact, and idle timeout. 3-1 v1.0, December 2007 GS700TP Smart Switch Software Administration Manual To configure system parameters: 1. Click System > Management > System Information.

The System Information screen displays: Figure 3-1 The System Information screen contains the following fields: System Name Enter the user-defined device name. The field may contain 0-160 characters. System Location Enter the location where the system is currently running. The field may contain 0-160 characters. System Contact Enter the name of the contact person. The field may contain 0-160 characters. System Object ID Displays the vendor's authoritative identification of the network management subsystem contained in the entity. Date & Time Displays the current date and local time. System Up Time Displays the amount of time since the most recent device reset. The system time is displayed in the following format: days, hours, minutes, seconds.

For example, 41 days, 2 hours, 22 minutes, 15 seconds. Idle Timeout Enter the amount of time (minutes) that elapses before an idle station is timed out. Idle stations that are timed out must login to the system. The field range is 5-30 minutes. The field default value is 10 minutes. . 3-2 v1.0, December 2007 Managing System Settings GS700TP Smart Switch Software Administration Manual Base MAC Address Displays the MAC address of a standalone device. Serial Number Displays the device serial number.



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Jumbo Frames Status Displays the Jumbo Frame status. *Jumbo Frames After Reset* Select the Jumbo Frame status.

The possible field values are: *Enable* Enable Jumbo Frames. *Disable* Disable Jumbo Frames. The Versions Table displays the following fields: . . . *Model Name* Displays the device model name. *Hardware Version* Displays the installed device hardware version number. *Boot Version* Displays the current boot version running on the device.

Software Version Displays the installed software version number. 2. Enter the System Name, System Location, System Contact and Idle Timeout in the provided fields. 3. Click Apply to update the system settings.

IP Configuration The IP Configuration screen contains fields for assigning IP addresses. IP addresses are either defined as static or are retrieved using the Dynamic Host Configuration Protocol (DHCP). The IP Interface screen also contains information for defining default gateways DHCP and is also configured from the IP Interface screen. The DHCP assigns dynamic IP addresses to devices on a network. DHCP ensures that network devices can have a different IP address every time the device connects to the network. Note the following when configuring IP Addresses: . . . If the device is accessed using SmartWizard Discovery, the IP address retrieved through DHCP is displayed. If the device fails to retrieve an IP address through DHCP, the default IP address is 192.168.0.239.

Managing System Settings v1.0, November 2007 3-3 GS700TP Smart Switch Software Administration Manual To define an IP interface: 1. Click System > Management > IP Configuration. The IP Configuration screen displays: Figure 3-2 The IP Configuration screen contains the following fields: . Dynamic IP Address (DHCP) Enable the IP address to be configured automatically by the DHCP server. Selecting this field disables the IP Address, Subnet Mask, Gateway and Delete fields. Static IP Address Enable the user to define a static IP address. IP Address Enter the static IP address used to manage the device. Subnet Mask Enter the IP address mask. Gateway Enter the default gateway IP address. The following option is available: Delete Delete the default gateway IP address.

. . . 2. Select the method of assigning the IP address by selecting either Dynamic IP Address or Static IP Address. 3. If you selected Static IP Address, enter the IP Address, Subnet Mask and Gateway address in the provided fields. 4.

Click Apply to update the system settings. *Time* The Time menu enables local system time or SNTP server configuration, and contains the following options: 3-4 v1.0, December 2007 *Managing System Settings GS700TP Smart Switch Software Administration Manual* . . . "Time Configuration" "SNTP Server Configuration" Time Configuration The Time Configuration screen contains information for defining both the local hardware clock and the external SNTP clock. If the system time is managed via an external SNTP clock, and the external SNTP clock fails, the system time reverts to the local hardware clock. To configure the local system time: 1.

Click System > Management > Time > Time Configuration. The Time Configuration screen displays: Figure 3-3 The Time Configuration screen contains the following fields: . Clock Source Select the source used to set the system clock. The possible field values are: . Local The system time is set locally via the Date and Time fields. SNTP The system time is set via an SNTP server. Select SNTP to disable the Date and Time fields. Date Enter the local system date. The field format is DD/MMM/YY (Day/Month/Year). For example: 04/May/50 (May 4, 2050). Time Enter the local system time. The field format is HH:MM:SS.

For example: 21:15:03. *Managing System Settings v1.0, November 2007 3-5 GS700TP Smart Switch Software Administration Manual* . Time Zone Offset Select the difference between Greenwich Mean Time (GMT) and local time. For example, the Time Zone Offset for Paris is GMT +1, while the Time Zone Offset for New York is GMT 5. 2. Select the Clock Source by selecting either Local or SNTP. 3. If you selected Local, then enter the local Date and Time in the provided fields. 4. Select the Time Zone Offset from the list.

5. Click Apply to update the system settings. Note: If you selected SNTP, you must configure the SNTP servers. See "SNTP Server Configuration" for detailed instructions on configuring the SNTP servers. SNTP Server Configuration The SNTP Server Configuration screen allows network administrators to define primary and secondary SNTP servers.

The system time is first retrieved through the primary SNTP server. If the device is unable to retrieve the system time through the primary server, the device retrieves the system time from the secondary server. To configure SNTP servers: 1. Click System > Management > Time > SNTP Server Configuration. The SNTP Server Configuration screen displays Figure 3-4 The SNTP Server Configuration screen contains the following fields: . SNTP Server 1 Enter the primary SNTP server IP address.

The Primary SNTP server is the first server used to retrieve the system time. The following option is available: Delete Remove the currently configured SNTP Server 1. 3-6 v1.0, December 2007 *Managing System Settings GS700TP Smart Switch Software Administration Manual* . SNTP Server 2 Enter the secondary SNTP server IP address. The Secondary SNTP server retrieves the system time if the Primary SNTP server times out. The following option is available: Delete Remove the currently configured SNTP Server 2. 2. Enter the SNTP Server 1 and SNTP Server 2 in the provided fields. 3. Click Apply to update the system settings.

To remove SNTP servers: 1. Check the Delete box for each SNTP server that is to be removed. 2. Click Apply to update the system settings. *Device View* The Device View menu option displays the Device View screen, which provides a graphic representation of the device, including the port and LED statuses. To display the Device View screen: 1. Click System > Device View. The Device View screen displays Figure 3-5 PoE Power over Ethernet (PoE) provides power to devices over existing LAN cabling without updating or modifying the network infrastructure. This removes the limitation of placing network devices close to power sources. *Managing System Settings v1.*

0, November 2007 3-7 *GS700TP Smart Switch Software Administration Manual* Power over Ethernet can be used in the following applications: . . . IP Phones Wireless Access Points IP Gateways Audio and video remote monitoring Powered Devices are devices that receive power from the device power supply, for example IP phones.



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The PoE menu contains the following options: · · "Basic" "Advanced" Basic The PoE Basic menu contains the following option: · "PoE Configuration" PoE Configuration The Basic PoE Configuration screen contains system PoE information for enabling PoE on the device, monitoring the current power usage, and enabling PoE traps. To configure PoE on the device: 1. Click System > PoE > Basic > PoE Configuration. The Basic PoE Configuration screen displays:

Figure 3-6 The Basic PoE Configuration screen contains the following fields: 3-8 v1.

0, December 2007 Managing System Settings GS700TP Smart Switch Software Administration Manual · Power Status Displays the online power source status. The possible field values are: On The power supply unit is functioning. Off The power supply unit is not functioning. Faulty The power supply unit is functioning, but an error has occurred. For example, a power overload or a short circuit.

· · · Nominal Power Displays the actual amount of power the device can supply. The field value is displayed in Watts. Consumed Power Displays the amount of the power used by the device. The field value is displayed in Watts. System Usage Threshold Enter the percentage of power consumed before an alarm is generated. The field value is 1-99 percent. The default is 95 percent. Traps Select the PoE device trap state. The possible field values are: Enable Enable PoE traps on the device. Disable Disable PoE traps on the device.

This is the default value. 2. Enter the System Usage Threshold in the provided field. 3. Select either Enable or Disable in the Traps field. 4. Click Apply to update the device. Advanced The PoE Advanced menu contains the following options: · · "PoE Configuration" "PoE Port Configuration" PoE Configuration The Advanced PoE Configuration screen contains system PoE information for enabling PoE on the device, monitoring the current power usage, and enabling PoE traps. Managing System Settings v1.0, November 2007 3-9 GS700TP Smart Switch Software Administration Manual To configure PoE on the device: 1. Click System > PoE > Advanced > PoE Configuration. The Advanced PoE Configuration screen displays: Figure 3-7 The PoE Configuration screen contains the following fields: · Power Status Displays the online power source status. The possible field values are: · · · · On The power supply unit is functioning. Off The power supply unit is not functioning. Faulty The power supply unit is functioning, but an error has occurred.

For example, a power overload or a short circuit. Nominal Power Displays the actual amount of power the device can supply. The field value is displayed in Watts. Consumed Power Displays the amount of the power used by the connecting device. The field value is displayed in Watts.

System Usage Threshold Enter the percentage of power consumed before an alarm is generated. The field value is 1-99 percent. The default is 95 percent.

Traps Select the PoE device trap state. The possible field values are: Enable Enable PoE traps on the device. Disable Disable PoE traps on the device.

This is the default value. 2. Enter the System Usage Threshold in the provided field. 3.

Select the Traps mode from the list in the provided field. 4. Click Apply to update the device. 3-10 v1.0, December 2007 Managing System Settings GS700TP

Smart Switch Software Administration Manual PoE Port Configuration The PoE Interface Configuration screen contains system PoE information for enabling PoE on the device, monitoring the current power usage, and enabling PoE traps. To enable PoE on the device: 1. Click System > PoE > Advanced >

PoE Port Configuration. The PoE Port Configuration screen displays: Figure 3-8 The PoE Port Configuration screen contains the following fields: · · Interface Displays the specific interface for which PoE parameters are defined. PoE parameters are assigned to the powered device that is connected to the selected interface. Admin Mode Select the device PoE mode.

The possible field values are: Enable Enable the Device Discovery protocol and provides power to the device using the PoE module. The Device Discovery Protocol enables the device to discover Powered Devices attached to the device interfaces and to learn their classification. This is the default setting. Disable Disable the Device Discovery protocol and stops the power supply to the device using the PoE module. 3-11 v1.

0, November 2007 Managing System Settings GS700TP Smart Switch Software Administration Manual · Priority Level Select the port priority if the power supply is low. The field default is low. For example, if the power supply is running at 99% usage, and port 1 is prioritized as high, but port 3 is prioritized as low, port 1 is prioritized to receive power and port 3 may be denied power. The possible field values are: Low Set the PoE priority level as low. This is the default level.

Medium Set the PoE priority level as medium. High Set the PoE priority level as high. · Class Displays the classification of the powered device. The class defines the maximum power that can be provided to the powered device. The possible field values are: Class 0 The minimum power level at the Power Sourcing Equipment is 15.4 Watts. Class 1 The minimum power level at the Power Sourcing Equipment is 4.0 Watts. Class 2 The minimum power level at the Power Sourcing Equipment is 7.0 Watts.

Class 3 The minimum power level at the Power Sourcing Equipment is 15.4 Watts. Class 4 Treated as Class 0. · · · · Output Voltage Displays the Output Voltage in Volts. Output Current Displays the Output current in milliamps. Output Power Displays the Output power in Watts. Power Limit Displays the power limit in Watts. Status Displays the port's PoE status. The possible field values are: On The device is enabled to deliver power via the interface. Off The device is disabled for delivering power via the interface.

Test Fail The powered device test has failed. For example, a port could not be enabled and cannot be used to deliver power to the powered device. Testing The powered device is being tested. For example, a powered device is tested to confirm it is receiving power from the power supply. Searching The device is currently searching for a powered device.

Searching is the default PoE operational status. Fault The device has detected a fault on the powered device.



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For example, the powered device memory could not be read. 2. Select an interface.

3-12 v1.0, December 2007 Managing System Settings GS700TP Smart Switch Software Administration Manual 3. Select the Admin Mode and Priority Level from the lists in the provided fields in the first row. 4. Click Apply to update the device SNMP Simple Network Management Protocol (SNMP) provides a method for managing network devices. The device supports the following SNMP versions: · · SNMP v1 and v2c SNMP version 3 The SNMP agents maintain a list of variables that are used to manage the device. The variables are defined in the Management Information Base (MIB). The SNMP agent defines the MIB specification format, as well as the format used to access the information over the network. Access strings control access rights to the SNMP agents. SNMP v3 applies access control and a new traps mechanism.

In addition, User Security Model (USM) parameters are defined for SNMPv3, including: · · Authentication Provides data integrity and data origin authentication. Privacy Protects against the disclosure of message content. Cipher Block-Chaining (CBC) is used for encryption. Either authentication is enabled on an SNMP message, or both authentication and privacy. However, privacy cannot be enabled without authentication. Timeliness Protects against message delay or message redundancy. The SNMP agent compares the incoming message to the message time information. Enter the amount of time the device waits before re-sending informs. Key Management Enter key generation, key updates, and key usage. · · The device supports SNMP notification filters based on Object IDs (OIDs).

OIDs are used by the system to manage device features. SNMP v3 supports the following features: · · · · Security Feature Access Control Traps. The device generates copy traps. "SNMPv1/v2" "SNMPv3" 3-13 v1.0, November 2007 The SNMP menu contains the following options: Managing System Settings GS700TP Smart Switch Software Administration Manual SNMPv1/v2 The SNMPv1/v2 menu contains the following options: · · "Community Configuration" "Trap Configuration" Community Configuration Access rights are managed by defining communities in the Community Configuration screen.

When community names are changed, access rights are also modified. To configure SNMP communities: 1. Click System > SNMP > SNMPv1/v2 > Community Configuration. The Community Configuration screen displays: Figure 3-9 The Community Configuration screen contains the following fields: · · Management Station Enter the management station IP address for which the Basic SNMP community is defined. Community String Enter the password used to authenticate the management station to the device.

Access Mode Select the access rights of the community. The possible field values are: Read Only Management access is restricted to read-only. Changes cannot be made to the device configuration and to the community. Read Write Management access is read-write. Changes can be made to the device configuration but not to the community. SNMP Admin User has access to all device configuration options, as well as permissions to modify the community. Managing System Settings v1.0, December 2007 3-14 GS700TP Smart Switch Software Administration Manual 2. Select the community entry. 3.

Enter the Management Station and Community String in the provided fields in the first row. 4. Select the Access Mode from the list in the provided field in the first row. 5. Click Apply to update the device. To add a new SNMP community: 1. Click System > SNMP > SNMPv1/v2 > Community Configuration. The Community Configuration screen displays. 2. Enter the Management Station and Community String in the provided fields in the first row.

3. Select the Access Mode from the list in the provided field in the first row. 4. Click Add to update the device. To remove an SNMP community: 1. Click System > SNMP > SNMPv1/v2 > Community Configuration. The Community Configuration screen displays. 2. Select the entry to be removed. 3. Click Delete to remove the entry. Trap Configuration The SNMPv1/v2 Trap Configuration screen contains information for defining filters that determine whether traps are sent to specific users, and the trap type sent. SNMP notification filters provide the following services: · · · · Identifying Management Trap Targets Defining Trap Filtering Defining Trap Generation Parameters Providing Access Control Checks Managing System Settings v1.0, November 2007 3-15 GS700TP Smart Switch Software Administration Manual To configure SNMPv1/v2 trap station management: 1. Click System > SNMP > SNMPv1/v2 > Trap Configuration. The SNMPv1/v2 Trap Configuration screen displays: Figure 3-10 The SNMPv1/v2 Trap Configuration screen contains the following fields: · · Recipients IP Enter the IP address to which the traps are sent. Notification Type (Configurable only if the Notification Version is SNMPv2.) Select the type of notification sent. The possible field values are: · · Traps Traps are sent. Informs Informs are sent only when SNMPv2 is enabled.

Community String Enter the community string of the trap manager. Notification Version Select the trap type. The possible field values are: SNMPv1 SNMP Version 1 traps are sent. SNMPv2 SNMP Version 2c traps are sent. · · · UDP Port Enter the UDP port used to send notifications. The default UDP port is 162. Timeout Enter the amount of time (in seconds) the device waits before re-sending informs. The default is 15 seconds. Retries Enter the amount of times the device re-sends an inform request. The default is 3 seconds.

2. Select the trap entry. 3. Enter the fields in the first row. 4. Click Apply to update the device. 3-16 v1.0, December 2007 Managing System Settings GS700TP Smart Switch Software Administration Manual To add a new SNMP trap: 1. Click System > SNMP > SNMPv1/v2 > Trap Configuration. The SNMPv1/v2 Trap Configuration screen displays. 2. Enter the fields in the first row. 3. Click Add to update the device. To remove an SNMP trap: 1. Click System > SNMP > SNMPv1/v2 > Trap Configuration. The SNMPv1/v2 Trap Configuration screen displays. 2. Select the entry to be removed. 3.

Click Delete to remove the entry. SNMPv3 The SNMPv3 menu contains the following options: · · · · · · · · "Engine ID" "View Name" "View Content" "Community Configuration" "Group Configuration" "User Configuration" "Global Trap Configuration" "Trap Configuration" "Trap Filter Name" "Trap Filter Content" Managing System Settings v1.



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0, November 2007 3-17 GS700TP Smart Switch Software Administration Manual Engine ID The SNMPv3 Engine ID screen allows network managers to define the SNMP Engine ID and to assign the default parameters to SNMP. To define the Local Engine ID: 1. Click System > SNMP > SNMPv3 > Engine ID. The SNMPv3 Engine ID screen displays: Figure 3-11 The SNMPv3 Engine ID screen contains the following fields: · Local Engine ID (10-64 Characters) Enter the local device Engine ID. The field value is a hexadecimal string. Each byte in hexadecimal character strings is two hexadecimal digits. Each byte digit can be separated by a period or a colon. The Engine ID must be defined before SNMPv3 is enabled.

Use Default Check the box to use the device-generated Engine ID. The default Engine ID is based on the device MAC address and is defined per standard as: First 4 octets First bit = 1, the rest is the IANA Enterprise number. Fifth octet Set to 3 to indicate the MAC address that follows. Last 6 octets MAC address of the device. · 2.

Specify the Local Engine ID field or check Use Default to use the device-generated Engine ID (Checking Use Default will override any entry in the Local Engine ID field). 3. Click Apply to update the device. 3-18 v1.0, December 2007 Managing System Settings GS700TP Smart Switch Software Administration Manual View Name The SNMPv3 View Name screen allows the network managers to define SNMPv3 View Names.

SNMPv3 views provide or block access to device features or portions of features. To define SNMPv3 view names: 1. Click System > SNMP > SNMPv3 > View Name. The SNMPv3 View Name screen displays: Figure 3-12 The SNMPv3 View Name screen contains the following field: · View Name Enter the user-defined view name. The view name can contain a maximum of 30 alphanumeric characters. 2. Select the entry. 3. Enter the View Name field in the first row. 4. Click Apply to update the device. To add a new SNMP View Name: 1. Click System > SNMP > SNMPv3 > View Name. The SNMPv3 View Name screen displays. 2. Enter the View Name field in the first row. 3. Click Add to update the device. To remove an SNMP View Name: 1. Click System > SNMP > SNMPv3 > View Name.

The SNMPv3 View Name screen displays. 2. Select the entry to be removed. Managing System Settings v1.0, November 2007 3-19 GS700TP Smart Switch Software Administration Manual 3.

Click Delete to remove the entry. View Content SNMP views provide or block access to device features or portions of features. For example, a view can be defined to provide a view that SNMP group A has Read Only (R/O) access to Multicast groups, while SNMP group B has Read-Write (R/W) access to Multicast groups. Feature access is granted via the MIB name or MIB Object ID. To define the SNMP View Content: 1. Click System > SNMP > SNMPv3 > View Content. The SNMPv3 View Content screen displays: Figure 3-13 The SNMPv3 View Content screen contains the following fields: Views · · · View Name Select the user-defined view name. The view name can contain a maximum of 30 alphanumeric characters. Object ID Subtree Enter the device feature OID. View Type Select whether the defined OID branch will be included in or excluded from the selected SNMP view. The possible field values are: Included The OID is included in the SNMP view. Excluded The OID is excluded from the SNMP view. 2. Select the View Name from the list in the provided field in the Views table. 3.

Enter the Object ID Subtree in the provided field in the first row. 3-20 v1.0, December 2007 Managing System Settings GS700TP Smart Switch Software Administration Manual 4. Select either Included or Excluded from the View Type provided field in the first row. 5. Click Apply to update the device. To add a new SNMP OID entry: 1. Click System > SNMP > SNMPv3 > View Content. The SNMPv3 View Content screen displays. 2. Select the View Name from the list in the provided field in the Views table. 3. Enter the Object ID Subtree in the provided field in the first row. 4. Select either Included or Excluded from the View Type provided field in the first row.

5. Click Add to update the device. To remove an SNMP OID entry: 1. Click System > SNMP > SNMPv3 > View Content. The SNMPv3 View Content screen displays. 2. Select the View Name from the list in the provided field in the Views table. 3. Select the OID entry to be removed. 4. Click Delete to remove the entry.

Community Configuration Access rights are managed by defining communities in the Community Configuration screen. When community names are changed, access rights are also changed. Managing System Settings v1.0, November 2007 3-21 GS700TP Smart Switch Software Administration Manual To define SNMPv3 communities: 1.

Click System > SNMP > SNMPv3 > Community Configuration. The SNMPv3 Community Configuration screen displays: Figure 3-14 The SNMPv3 Community Configuration screen contains the following fields: · · · Management Station Enter the management station IP address for which the basic SNMP community is defined. Community String Enter the password used to authenticate the management station to the device. Group Name Select the SNMP group from a list of SNMP groups defined in the SNMP Group Configuration screen. 2. Select the SNMP community entry. 3. Enter the Management Station and Community String in the provided fields. 4. Select the Group Name from the list.

5. Click Apply to update the device. To add a new SNMPv3 community: 1. Click System > SNMP > SNMPv3 > Community Configuration. The SNMPv3 Community Configuration screen displays.

2. Enter the Management Station and Community String in the provided fields in the first row. 3. Select the Group Name from the list in the provided field in the first row. 4. Click Add to update the device. 3-22 v1.0, December 2007 Managing System Settings GS700TP Smart Switch Software Administration Manual To remove an SNMPv3 community: 1. Click System > SNMP > SNMPv3 > Community Configuration. The SNMPv3 Community Configuration screen displays. 2. Select the community entry. 3. Click Delete to remove the entry. Group Configuration The SNMPv3 Groups screen provides information for creating SNMP groups and assigning SNMP access control privileges to SNMP groups.

Groups allow network managers to assign access rights to specific device features or feature aspects. To define an SNMP group: 1. Click System > SNMP > SNMPv3 > Group Configuration. The SNMPv3 Groups screen displays: Figure 3-15 The SNMPv3 Groups screen contains the following fields: · · Group Name Enter the user-defined group to which access control rules are applied. The field range is up to 30 characters. Security Model Select the SNMP version associated with the group. The possible field values are: SNMPv1 SNMPv1 is defined for the group.



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