Netgear prosafe gs110tp user manual

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Easily locate Netgear GS110TP - ProSafe Gigabit Smart Switch driver and firmware links available at DriverOwl.com. We keep our list of direct Netgear GS110TP - ProSafe Gigabit Smart Switch driver and firmware links up-to-date so they are easy to find when you need them. Quick and easy solutions are available for you in the NETGEAR
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coverage further and get access to experts you trust. Protect your investment from the hassle of unexpected repairs and expenses Connect with experienced NETGEAR experts who know your product the best Resolve issues faster with 24/7 service Learn More NETGEAR experts who know your product the best Resolve issues faster with 24/7 service Learn More NETGEAR experts who know your product the best Resolve issues faster with 24/7 service Learn More NETGEAR experts who know your product the best Resolve issues faster with 24/7 service Learn More NETGEAR experts who know your product the best Resolve issues faster with 24/7 service Learn More NETGEAR experts who know your product the best Resolve issues faster with 24/7 service Learn More NETGEAR experts who know your product the best Resolve issues faster with 24/7 service Learn More NETGEAR experts who know your product the best Resolve issues faster with 24/7 service Learn More NETGEAR experts who know your product the best Resolve issues faster with 24/7 service Learn More NETGEAR experts who know your product the best Resolve issues faster with 24/7 service Learn More NETGEAR experts who know your product the best Resolve issues faster with 24/7 service Learn More NETGEAR experts who know your product the best Resolve issues faster with 24/7 service Learn More NETGEAR experts who know your product the best Resolve issues faster with 24/7 service Learn More NETGEAR experts who know your product the best Resolve issues faster with 24/7 service Learn More NETGEAR experts who know your product the best Resolve issues faster who know your product the best Resolve issues faster with 24/7 service Learn More NETGEAR experts who know your product the best Resolve issues faster who know your product the best Resolve issues faster who know your product the best Resolve issues faster who know your product the best Resolve issues faster who know your product the best Resolve is the best Resolve issues faster who have the best Resolve is the best Resolve is the best Resolve is
support and warranty entitlements. NETGEAR offers a variety of ProSupport for Business services that allow you to access NETGEAR's expertise in a way that best meets your needs: Product Installation Professional Wireless Site Survey Defective Drive Retention (DDR) Service Learn More Please wait... Please wait... Velcome to Guided Assistance
This step-by-step support wizard will easily and rapidly help you troubleshoot your NETGEAR Business device and present you with all the support options available. The serial number is already registered to you. Your is already registered to you with all the support options available.
team at customer.service@netgear.com for further assistance. You can find more information in your MyNETGEAR account to view warranty information, open support cases, and participate in the NETGEAR account to view warranty information, open support cases, and participate in the NETGEAR account to view warranty information in your MyNETGEAR account to view warranty information in your many account to view warranty information in your many account 
fiber SFP GS110TPStart HereFollow these instructions to set up your smart switch. Before proceeding with the contents of the Resource CD, especially the reference manuals on your Resource CD, especially the reference manuals on your Resource CD, especially the reference manuals on your Resource CD. First, Verify Package Contents of the Resource CD, especially the reference manuals on your Resource CD. First, Verify Package Contents of the Resource CD, especially the reference manuals on your Resource CD. First, Verify Package Contents of the Resource CD. First, Verify Package CD. First, Verify Pack
installation • Power cord • 48V/1.25A power adapter • Wall-mount kit • Installation Guide • Smart Switch Resource CD.) • Warranty/Support
Information Card. Then, Prepare to Install Your Smart SwitchPrepare a PC with an Ethernet adapter and a CD ROM drive. Next, Install the NETGEAR Device Manager Utility (Smart Control Center) on a PC1. Insert the Resource CD into your CD drive. Next, Install the NETGEAR Device Manager Utility (Smart Control Center) on a PC1. Insert the Resource CD into your CD drive. Next, Install the NETGEAR Device Manager Utility (Smart Control Center) on a PC1. Insert the Resource CD into your CD drive. Next, Install the NETGEAR Device Manager Utility (Smart Control Center) on a PC1. Insert the Resource CD into your CD drive. Next, Install the NETGEAR Device Manager Utility (Smart Control Center) on a PC1. Insert the Resource CD into your CD drive. Next, Install the NETGEAR Device Manager Utility (Smart Control Center) on a PC1. Insert the Resource CD into your CD drive. Next, Install the NETGEAR Device Manager Utility (Smart Control Center) on a PC1. Insert the Resource CD into your CD drive. Next, Install the NETGEAR Device Manager Utility (Smart Control Center) on a PC1. Insert the Resource CD into your CD drive. Next, Install the NETGEAR Device Manager Utility (Smart Control Center) on a PC1. Insert the Resource CD into your CD drive. Next, Install the NETGEAR Device Manager Utility (Smart Control Center) on a PC1. Insert the Next, Install the NETGEAR Device Manager Utility (Smart Center) on a PC1. Insert the Next, Install the Next, Install
guide you through the installation. Next, Connect Your Smart Switch in the Correct OrderThese instructions assume you are using DHCP in your network. In the absence of a DHCP server, the switch will default to 192.168.0.239
for its IP address. To configure the switch before connecting it to your network: 1. Set up the PC to the switch front panel. Use category 5 (Cat5) unshielded
twisted-pair (UTP) cable terminated with an RJ-45 connector to make these connections. Servers Computers PrintersSmart Switch GS110TPGS110TPPowerPoE MaxLink/Act 10FLink/Act 1
switch to your network.4. Power on the switch. 5. Verify that the PC with the Smart Control Center utility is on the same subnet as the switch with the NETGEAR Device Manager Utility (Smart Control Center) 1. Double-click the Smart Control Center icon on your desktop or in Windows Start menu Programs to run the
utility and view this screen.2. Click Discover to find your switch in the European Union Directive 2002/96 on the Waste Electrical and Electronic Equipment (the WEEE Directive). If disposed of within the European Union,
this product should be treated and recycled in accordance with the laws of your jurisdiction implementing the WEEE Directive. © 2010 by NETGEAR, Inc. and the United States and/or other countries. Other brand and product names are trademarks or
registered trademarks of their respective holders. Information is subject to change without notice. February 2010The Smart Control Center utility finds the switch and displays its MAC Address, and model number. If you cannot configure your switch, verify that the cable connections are secure, that the IP address, and model number. If you cannot configure your switch, verify that the cable connections are secure, that the IP address, and model number.
is in the same subnet as the switch, and click the Discover button. 3. Click to select the line displaying the details of your switch. If there are multiple switches in your network, be sure to select the line displaying the details of your switch. If there are multiple switches in your network, be sure to select the line displaying the details of your switch.
and click Login. The switch will display the switch for your network. Consult the Reference Manual on the Resource CD or the online help in the switch for your network. Consult the Reference Manual on the Resource CD or the online help in the switch for your network.
configure your switch. Troubleshooting TipsHere are some tips for correcting simple problems you may have. Turn on the computer. First, turn on the switch and wait two minutes. Next, turn on the computer. Make sure the Ethernet cables are securely
plugged in. For each powered on computer connected to the switch with a securely plugged in Ethernet cable, the corresponding Smart Switch port status light will be lit. Make sure the network settings of the computer are correct. In most cases, computers should be configured to obtain an IP address automatically via DHCP. For help with this,
refer to the GS110TP Software Administration Manual; a link to the online Reference Manual is on the Resource CD.If your network uses static IP addresses, be sure the switch and computer are configured with valid IP addresses, be sure the switch and computer are configured with valid IP addresses.
setup, locate the serial number on the bottom label of your product, and use it to register your product at . Registration is required before you can use our telephone support. For Warranty and Regional Customer Support information, see the
Resource CD that came with your product.GS110TP IG 8Feb10.fm Page 2 Tuesday, February 9, 2010 7:15 PM Page 1 GS108T and GS110TP Smart Switch Software Administration Manual 350 East Plumeria Drive San Jose, CA 95134 November 2010 202-10603-03 v2.0... NETGEAR, Inc. Technical Support Thank you for choosing NETGEAR. To
register your product, get the latest product updates, or get support online, visit us at . Table of Contents Chapter 1 Getting Started Witch Management Interface .........10 Connecting the Switch to the Network. Page 4 GS108T and GS110TP Smart Switch Software
Administration Manual LLDP-MED Port Settings ........64 Local Information . Page 5 GS108T and GS110TP Smart Switch Software Administration Manual MAC Binding
GS110TP Smart Switch Software Administration Manual describes how to configure and operate the GS108T and GS110TP Gigabit Smart Switches by using the Web-based graphical user interface (GUI). This manual describes the software configure and explains the options available within those procedures. Getting Started with the
GS108T and GS110TP Gigabit Smart Switch and accessing the user interface. It also leads you through the steps to use the Smart Control Center provides an overview of starting your NETGEAR switch discovery, the Smart Control Center provides several
utilities to help you maintain the NETGEAR switches on your network, such as password management, firmware upgrade, and configuration file backup. For more information, see on page 18. GS108T and GS110TP Smart Switch software Administration Manual Connecting the Switch to the Network To enable remote management of the switch
through a Web browser or SNMP, you must connect the switch to the network and configure it with network information (an IP address, subnet mask, and default gateway). GS108T and GS110TP Smart Switch Software Administration Manual Switch Discovery in a Network with a DHCP Server This section describes how to set up your switch in a
network that has a DHCP server. The DHCP client on the switch is enabled by default. When you connect it to your network, the DHCP server will automatically assign an IP address to your switch. Page 13 GS108T and GS110TP Smart Switch Software Administration Manual Make a note of 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 Smart Control Center). GS108T and GS110TP Smart Switch in a network without a DHCP Server This section describes how to use the Smart Control Center to set up your switch in a network without a DHCP Server This section describes how to use the Smart Control Center to set up your switch in a network without a DHCP Server This section describes how to use the Smart Control Center to set up your switch in a network without a DHCP Server This section describes how to use the Smart Control Center to set up your switch in a network without a DHCP Server This section describes how to use the Smart Control Center).
server. If your network has no DHCP service, you must enter the current password every time you use the Smart Tip: Control Center to update the switch setting. The default password is password is password every time you use the Smart Tip: Control Center to update the switch setting. The default password is password is password every time you use the Smart Tip: Control Center to update the switch setting.
the switch are in the same subnet. Make a note of these settings for later use. Page 16 GS108T and GS110TP Smart Switch Software Administrative system, you will loose your connection to the rest of the network. Be sure to write down your current network address settings
before you change them. GS108T and GS110TP Smart Switch Software Administration Manual Web Access To access the GS108T or GS110TP management interface, use one of the following methods: From the Smart Control Center, select the switch in the
address field. •... GS108T and GS110TP Smart Switch Software Administration Manual Smart Control Center utilities: on page 18 •... GS108T and
GS110TP Smart Switch Software Administration Manual Changing the Switch Password in the Current Password field. The default password for the switch is password. Type the new password in the New Password and Confirm Password field.
fields. Page 20 GS108T and GS110TP Smart Switch Software Administration Manual Click OK. Enter the switch password and click Apply. The file is uploaded to the administrative computer as a *.cfg file. You can open it and view the configuration to a previously saved version: Click the Maintenance tab and click Apply. The file is uploaded to the administrative computer as a *.cfg file. You can open it and view the configuration to a previously saved version: Click the Maintenance tab and click Apply.
select the device with the configuration to restore. GS108T and GS110TP Smart Switch Software for the GS108T and GS110TP Smart Switches is upgradeable, enabling your switch to take advantage of improvements and additional features as they become available. The upgrade
procedure and the required equipment are described in this section. Secondary Storage option. To prevent the switch from using the download option is clear. NETGEAR recommends that you download the same image as the Note: primary and secondary image for
redundancy. Page 23 GS108T and GS110TP Smart Switch Software Administration Manual The following list describes the command buttons that are specific to the Tasks page: Delete Task—Remove a completed or schedule—Change the schedule—Change the schedule date and time for a pending firmware upgrade or ... GS108T and
GS110TP Smart Switch Software Administration Manual Understanding the User Interfaces The switch software includes a set of comprehensive management functions for configuring and monitoring the system by using one of the following methods: Web user interfaces The switch software includes a set of comprehensive management functions for configuring and monitoring the system by using one of the following methods: Web user interfaces The switch software includes a set of comprehensive management functions for configuring and monitoring the system by using one of the following methods: Web user interfaces The switch software includes a set of comprehensive management functions for configuring and monitoring the system by using one of the following methods: Web user interfaces The switch software includes a set of comprehensive management functions for configuring and monitoring the system by using one of the following methods: Web user interfaces The switch software includes a set of comprehensive management functions for configuring and monitoring the system by using one of the following methods: Web user interfaces The switch software includes a set of comprehensive management functions for configuring and monitoring the system by using one of the following methods: Web user interfaces a set of comprehensive management functions for configuring and monitoring the system of the syste
GS110TP Smart Switch Software Administration Manual Navigation Tab Feature Link Help LInk Logout Button Help Page Menu Configuration Status and Options Figure 3. Administrative Page Layout Navigation Tabs, Feature Links, and Page Menu Configuration Status and Options Figure 3. Administrative Page Layout Navigation Tabs, Feature Links, and Page Menu Configuration Status and Options Figure 3. Administrative Page Layout Navigation Tabs, Feature Links, and Page Menu Configuration Status and Options Figure 3. Administrative Page Layout Navigation Tabs, Feature Links, and Page Menu Configuration Status and Options Figure 3. Administrative Page Layout Navigation Tabs, Feature Links, and Page Menu Configuration Status and Options Figure 3. Administrative Page Layout Navigation Tabs, Feature Links, and Page Menu Configuration Status and Options Figure 3. Administrative Page Layout Navigation Tabs, Feature Links, and Page Menu Configuration Status and Options Figure 3. Administrative Page Layout Navigation Tabs, Feature Links, and Page Menu Configuration Status and Options Figure 3. Administrative Page Layout Navigation Tabs, Feature Links, and Page Menu Configuration Status and Options Figure 3. Administrative Page Layout Navigation Tabs, Feature Links, and Page Menu Configuration Status and Options Figure 3. Administrative Page Layout Navigation Tabs, and Page Menu Configuration Status Administrative Page Menu Configuration Status A
switch functions. GS108T and GS110TP Smart Switch Software Administration Manual Page Link Configuration and Monitoring Options The area directly under the feature links and to the right of the page menu displays the configuration information or status for the page you select. On pages that
contain configuration options, you can input information into fields or select options from drop-down menus. Page 27 GS108T and GS110TP Smart Switch Software Administration Manual The following figure shows the Device View of the GS110TP. Click the port you want to view or
configure to see a menu that displays statistics and configuration options. Page 28 GS108T and GS110TP Smart Switch Software Administration Manual If you click the graphic, but do not click a specific port, the main menu appears, as the following figure shows. This menu contains the same option as the navigation tabs at the top of the page.
GS108T and GS110TP Smart Switch Software Administration Manual Using SNMP The switch software supports the configuration of SNMP agent generates. switch switches use both standard public MIBs for standard functionality and private MIBs that support additional switch functionality
GS108T and GS110TP Smart Switch Software Administration Manual Interfaces are identified by their type and the interfaces are identified by the identified by the interfaces are identified by the interface
Administration Manual Chapter 1: Getting Started | 31... Configuring System tab contains links to the following features: on page 48 • PoE (GS110TP Only) on page 54 •... GS108T and GS110TP Smart Switch
Software Administration Manual Management This section describes how to display the switch status and Specify some basic switch information. From the Management link, you can access the following pages: on page 33 •... GS108T and GS110TP Smart
Switch Software Administration Manual System Location. Enter the location of this switch. You may use up to 31 • ... Page 35 GS108T and GS110TP Smart Switch Software Administration Manual To configure the
network information for the management interface: Select the appropriate radio button to determine how to configure the network information for the switch must obtain the IP address •... GS108T and GS110TP Smart Switch Software Administration Manual port VLAN ID
(PVID) of the port to be connected in that management VLAN be the same as the management VLAN in the management VL
following time levels: T1: Time at which the original request was sent by the client. • T2: Time at which the original request was received by the server. •... Page 38 GS108T and GS110TP Smart Switch Software Administration Manual To configure the time by using the CPU clock cycle as the source: From the Clock Source field, select Local. In the
Date field, enter the date in the DD/MM/YYYY format. In the Time field, enter the date and time, the switch will calculate the date Note: and time using the CPU's clock cycle. GS108T and GS110TP Smart Switch will calculate the date and time, the switch will calculate the date and time using the CPU's clock cycle.
of the last SNTP request or unsolicited message for both unicast mode. If no message has been received from a server, a status of Other is displayed. Page 40 GS108T and GS110TP Smart Switch Software Administration Manual To configure a new SNTP server: Enter the appropriate SNTP server information in the available fields: Server Type.
Specifies whether the address for the SNTP server is an IP address • (IPv4) or hostname (DNS). Address. Page 41 GS108T and GS110TP Smart Switch Software Administration Manual The SNTP Server Status table displays status information about the SNTP server Status table displays status information about the SNTP server Status table displays status information about the SNTP server Status table displays status information about the SNTP server Status table displays status information about the SNTP server Status table displays status information about the SNTP server Status table displays status information about the SNTP server Status table displays status information about the SNTP server Status table displays status information about the SNTP server Status table displays status information about the SNTP server Status table displays status information about the SNTP server Status table displays status information about the SNTP server Status table displays status information about the SNTP server Status table displays status information about the SNTP server Status table displays status information about the SNTP server Status table displays status information about the SNTP server Status table displays status information about the SNTP server Status table displays status information about the SNTP server Status table displays status information about the SNTP server Status table displays status information about the SNTP server Status table displays status information about the SNTP server Status table displays status information about the SNTP server Status table displays status information about the SNTP server Status table displays status information about the SNTP server Status table displays status information about the SNTP server Status table displays status table displays status table displays status about the SNTP server Status table displays status abo
fields. Field Description Address Specifies all the existing Server Addresses. If no Server configuration exists, a message saying "No SNTP server exists"... GS108T and GS110TP Smart Switch software provides support for
classifying and blocking specific types of DoS attacks. You can configure your system to monitor and block six types of attacks: SIP=DIP: Source IP address = Destination The DoS Configuration page lets you to select which types of DoS
attacks for the switch to monitor and block. To access the DoS Configuration page, click System Management Denial of Service > DoS Configuration Manual drop packets that have TCP flag SYN set and TCP source port less than 1024 or TCP control flags set to 0 and TCP sequence
netgear.com and the user enters test, then test is changed to test.netgear.com to resolve the name). Page 46 GS108T and GS110TP Smart Switch Software Administration Manual To add a static entry to the local DNS table: Specify the static host name to add. Enter up to 158 characters. Specify the IP address in standard IPv4 dot notation to
configure the Green Ethernet feature: Enable or disable the Short Cable Mode. GS108T and GS110TP Smart Switch Software Administration Manual PoE (GS110TP Only) Ports g1-g8 on the GS110TP only) Ports g1-g8 on the GS110TP only) Ports g1-g8 on the GS110TP only Ports g1-g8 on the GS110TP Only) Ports g1-g8 on the GS110TP only Ports g1-g8 on the GS110TP Only) Ports g1-g8 on the GS110TP Only Ports g1-g8 on the GS110TP
(PD). The GS110TP can provide a total of 46W of power to all connected devices. You can configure per-port priority settings, timers, and power limits to manage the power supplied to the connected PDs and to ensure that the GS110TP power budget is used effectively. GS108T and GS110TP Smart Switch Software Administration Manual To
Administration Manual User: Select this option to base the power limit on the value configured in the • Power Limit field. Power Limit Set the maximum amount of power that can be delivered by a port. •... GS108T and GS110TP Smart Switch Software Administration Manual To configure global timer settings: To add a timer, enter a name in the
schedule created on the Timer Global Configuration page. Specify the time to turn off power. The time to turn off power by clicking the date. GS108T and GS110TP Smart Switch Software Administration Manual SNMP From SNMP link under the System tab, you can
configure SNMP settings for SNMP V1/V2 and SNMPv3. From the SNMP link, you can access the following pages: on page 57 •... GS108T and GS110TP Smart Switch Software Administration Manual To configure SNMP communities: To add a new SNMP community, enter community information in the available fields
below, and then click Add. Recipients IP. The address in x.x.x.x format to receive SNMP traps from this device. •... GS108T and GS110TP Smart Switch Software Administration Manual Trap Flags page to
enable or disable traps the switch can send to an SNMP manager. GS108T and GS110TP Smart Switch Software Administration Manual SNMP v3. To access this page, click System SNMP v3. To access this pag
and detect bad configurations on the LAN. Page 60 GS108T and GS110TP Smart Switch Software Administration Manual To configure global LLDP properties. TLV Advertised Interval. Specify the interval at which frames are transmitted. The • default is 30 seconds, and the valid range is 1–32768 seconds. Holder the following LLDP properties.
Multiplier. GS108T and GS110TP Smart Switch Software Administration Manual LLDP Port Settings use the LLDP Port Settings page to specify LLDP parameters that are applied to a specific interface. To display the LLDP Port Settings page to specify LLDP parameters that are applied to a specific interface. To display the LLDP Port Settings page to specify LLDP parameters that are applied to a specific interface.
Administration Manual Optional TLV(s). Enable or disable the transmission of optional type-length value • (TLV) information from the interface. The TLV information includes the system name, system description, system capabilities, and port description. To configure the System Name, see on page 33. Page 63 GS108T and GS110TP Smart Switch
Software Administration Manual From the Interface menu, select the interface menu, select the information to view. The following table describes the policy number. Application Specifies the media application type associated with the
policy, which can be one of the following:... GS108T and GS110TP Smart Switch Software Administration Manual LLDP-MED port Settings Use this page to enable LLDP-MED mode on an interface and configure its properties. To display this page to enable LLDP-MED mode on an interface and configure LLDP-MED settings for a port:
From the Port field, select the port to configure. GS108T and GS110TP Smart Switch Software Administration Manual Local Information page to view the data that each port advertises through LLDP. To display the LLDP Local Information page to view the data that each port advertises through LLDP.
table describes the LLDP local information that displays for each port. Field Description Interface... Page 66 GS108T and GS110TP Smart Switch Software Administration Manual A popup window displays information for the selected port. The following table describes the detailed local information that displays for the selected port. Field Description
Managed Address Address SubType Displays the MED capabilities Supported Displays the MED capabilities enabled on the port. Current Capabilities Displays the TLVs advertised by
the port. Device Class Network Connectivity indicates the device is a network connectivity device. Network Policies Application Type Specifies the media application Type associated with the policy. Page 68 GS108T and GS110TP Smart Switch Software Administration Manual The following table describes the information that displays for all LLDP
neighbors that have been discovered. Field Description MSAP Entry Displays the Media Service Access Point (MSAP) entry number for the remote device. Local Port Displays the interface on the local system that received LLDP information from a remote system. Page 69 GS108T and GS110TP Smart Switch Software Administration Manual Field
Description Port Details Local Port Displays the Media Service Access Point (MSAP) entry Displays the Media Service Access Point (MSAP) en
Capabilities Supported Specifies the supported capabilities that were received in MED TLV from the device. Page 71 GS108T and GS110TP Smart Switch Software Administration Manual Field Description Network Policies Application Types and GS110TP Smart Switch Software Administration Manual Field Description Network Policies Application Types and GS110TP Smart Switch Software Administration Manual Field Description Network Policies Application Types and GS110TP Smart Switch Software Administration Manual Field Description Network Policies Application Types and GS110TP Smart Switch Software Administration Manual Field Description Network Policies Application Types and GS110TP Smart Switch Software Administration Manual Field Description Network Policies Application Types and GS110TP Smart Switch Software Administration Manual Field Description Network Policies Application Types and GS110TP Smart Switch Software Administration Manual Field Description Network Policies Application Types and GS110TP Smart Switch Software Administration Manual Field Description Network Policies Application Types and GS110TP Smart Switch S
Specifies the media application type associated with the policy advertised by the remote device. VLAN ID Specifies the VLAN ID associated with the policy. VLAN Type Specifies whether the VLAN associated with the policy is tagged or untagged. GS108T and GS110TP Smart Switch Software Administration Manual Services — DHCP Filtering DHCP
Software Administration Manual Interface Configuration Use the DHCP responses received on a trusted port are forwarded. If a port is configure each port as a trusted or untrusted, any DHCP (or BootP) responses received on a trusted port are discarded. Page 74
GS108T and GS110TP Smart Switch Software Administration Manual 74 | Chapter 2: Configuring System Information... Configuring Switching Information Use the features: on page 9 • Ports on page 12 • Link Aggregation Groups on page 17 •
VLANs on page 22 •... GS108T and GS110TP Smart Switch Software Administration Manual Ports The pages on the Ports tab allow you to view and monitor the physical port information for the ports available on the switch. From the Ports tab allow you to view and monitor the physical port information for the ports available on the switch.
Administration Manual Port Speed. Use the menu to select the port's speed and duplex mode and speed will be set by the auto-negotiation process. The port's maximum capability (full duplex and 1000 Mbps) will be advertised. Otherwise, your selection will determine the port's duplex mode and transmission
rate. GS108T and GS110TP Smart Switch Software Administration Manual Flow Control IEEE 802.3x flow control works by pausing a port when the port becomes oversubscribed and dropping all traffic for small bursts of time during the congestion condition. This can lead to high-priority and/or network control traffic loss. GS108T and GS110TP
Smart Switch Software Administration Manual Link Aggregation Groups Link aggregation groups (LAGs), which are also known as port-channels, allow you to combine multiple full-duplex Ethernet links into a single logical link. Network devices treat the aggregation as if it were a single link, which increases fault tolerance and provides load sharing
Page 80 GS108T and GS110TP Smart Switch Software Administration Manual Select the check box in the heading row to apply the same settings to all interfaces. Select the check box in the heading row to apply the same settings to all interfaces. Select the check box in the heading row to apply the same settings to all interfaces. Select the check box in the heading row to apply the same settings to all interfaces.
GS108T and GS110TP Smart Switch Software Administration Manual LAG Membership Use the LAG Membership use to select two or more full-duplex Ethernet links to be aggregated together to form a link aggregation group (LAG), which is also known as a port-channel. GS108T and GS110TP Smart Switch Software Administration Manual LACP
Configuration To display the LACP Configuration page, click Switching LAG Advanced LACP Configuration. To configure tache ends of the links on which link aggregation is enabled. GS108T and GS110TP Smart Switch Software
Administration Manual LACP Port Configuration To display the LACP Port Configuration page, click Switching LAG Advanced LACP Port Configuration. To configure LACP Port Configuration To display the same setting to all selected ports. GS108T and GS110TP Smart
Switch Software Administration Manual VLANs Adding Virtual LAN (VLAN) support to a Layer 2 switch offers some of the benefits of both bridging and routing. Like a bridge, a VLAN switch forwards traffic based on the Layer 2 header, which is fast, and like a router, it partitions the network into logical segments, which provides better
administration, security and management of multicast traffic. Page 85 GS108T and GS110TP Smart Switch Software Administration Manual To configure VLAN Identifier for the new VLAN. (You can only enter data in •... GS108T and GS110TP Smart Switch Software Administration Manual To configure VLAN Identifier for the new VLAN. (You can only enter data in •... GS108T and GS110TP Smart Switch Software Administration Manual To configure VLAN Identifier for the new VLAN. (You can only enter data in •... GS108T and GS110TP Smart Switch Software Administration Manual To configure VLAN Identifier for the new VLAN.
Smart Switch Software Administration Manual VLAN Membership Configuration Use this page to configure VLAN Membership for a particular VLAN Membership Configuration Use this page. To display the VLAN Membership for a particular VLAN Membership for a particular VLAN Membership Configuration Use this page.
Switch Software Administration Manual Use the Group Operations field to select all the ports and configure eVID information: To configure eVID information: To configure eVID information on this VLAN will be •... Page 88 GS108T and GS110TP Smart Switch Software Administration Manual Use the Group Operations field to select all the ports and configure eVID information: To configure eVID information on this VLAN will be •... Page 88 GS108T and GS110TP Smart Switch Software Administration Manual Use the Group Operations field to select all the ports and configure eVID information on the select all the ports of the Group Operation of the select all the ports of the Group Operation of the select all the ports of the Group Operation of the Group Operation of the select all the ports of the Group Operation of the Group Oper
PVID settings for a physical port, click PORTS. To configure PVID settings for a Link Aggregation Group (LAG), click LAGS. To configure the check box next to the interfaces to configure. GS108T and GS110TP Smart Switch Software Administration Manual Voice VLAN Configure the
Voice VLAN settings for ports that carry traffic from IP phones. The Voice VLAN feature can help ensure that the sound quality of an IP phone is safeguarded from deteriorating when the data traffic on the port is high. GS108T and GS110TP Smart Switch Software Administration Manual Click Cancel to cancel the configuration on the screen and
reset the data on the screen to the latest value of the switch. If you make any changes to this page, click Apply to send the updated configuration to the switch. GS108T and GS110TP Smart Switch Software Administration Manual Voice VLAN OUI The Organizational Unique Identifies the IP phone manufacturer. The switch comes
preconfigured with the following OUIs: 00:01:E3: SIEMENS • 00:03:6B: CISCO1 • 00:07:E2: H3C • ... Page 92 GS108T and GS110TP Smart Switch Software Administration Manual To modify information for an entry in the OUI list, select the check box next to the OUI prefix, update the OUI prefix or description, and then click
Apply. Click Cancel to cancel the configuration on the screen and GS110TP Smart Switch Software Administration Manual Auto-VoIP automatically makes sure that time-sensitive voice traffic is given priority over data traffic on ports that have this feature
a network, eliminating loops. Spanning tree versions supported include Common STP, Multiple STP, and Rapid STP. Classic STP provides a single path between end stations, avoiding and eliminating loops. GS108T and GS110TP Smart Switch Configuration/Status
page contains fields for enabling STP on the switch. To display the Spanning Tree Switch Configuration. To configure STP Settings on the switch. Page 96 GS108T and
Configuration Use the Spanning Tree CST Configuration page, click Switching > STP > Advanced CST Configuration. GS108T and GS110TP Smart Switch Software Administration Manual state before
forwarding packets. The value must be greater or equal to (Bridge Max Age / 2) + 1. The time range is from 4 seconds to 30 seconds. The default value is 15. Spanning Tree Maximum Hops. Page 99 GS108T and GS110TP Smart Switch Software Administration Manual To configure CST port settings: To configure CST settings for a physical port, click
PORTS. To configure CST settings for a Link Aggregation Group (LAG), click LAGS. To configure CST settings for both physical ports and LAGs, click ALL. Select the check box next to the port or LAG to configure. GS108T and GS110TP Smart Switch Hello time, which indicates the
amount of time in • seconds a port waits between configuration messages. The value is fixed at 2 seconds. Click Cancel the configuration on the screen and reset the data on the screen and reset the data on the screen to the latest value of the switch. GS108T and GS110TP Smart Switch Software Administration Manual Field Description Designated Cost Displays cost of the
port participating in the STP topology. Ports with a lower cost are less likely to be blocked if STP detects loops. Designated Bridge Bridge Identifier of the bridge with the Designated Port. It is made up using the bridge priority and the base MAC address of the bridge with the Designated Bridge Identifier of the bridge with the Designated Port. It is made up using the bridge priority and the bridge priority and the bridge Bridge Identifier of the bridge with the Designated Bridge Identifier of the bridge with the Designated Bridge Identifier of the bridge priority and the bridge Identifier of the bridge Identifier of the bridge Bridge Identifier of the bridge Identifier of Identifie
table describes the Rapid STP Status information displayed on the screen. Field Description Interface associated with VLANs associated with the CST. Role Each MST Bridge Port that is enabled is assigned a Port Role for each spanning tree. The port role will be one of the following values: Root Port, Designated
Port, Alternate Port, Backup Port, Master Port, or Disabled Port. Page 103 GS108T and GS110TP Smart Switch Software Administration Manual lowest priority that is not a multiple of 4096, the priority is a multiple of 4096. If you specify a priority that is
a multiple of 4096. GS108T and GS110TP Smart Switch Software Administration Manual MST Port Configuration Use the Spanning Tree (MST) settings on a specific port on the switch. To display the Spanning Tree MST Port Status page, click Switching STP Advanced
MST Port Configuration. Page 105 GS108T and GS110TP Smart Switch Software Administration Manual To configure MST settings for both physical ports and LAGs, click ALL. Select the check box next to the port or LAG to configure. You can select multiple ports and LAGs to apply the same setting to the selected interfaces. Select the check box in
the heading row to apply the same settings to all interfaces. GS108T and GS110TP Smart Switch Software Administration Manual Field Description Port Role Each MST Bridge Port, Alternate Port, Backup Po
selected port. STP BPDUs Transmitted Number of STP BPDUs transmitted from the selected port. GS108T and GS110TP Smart Switch Software Administration Manual Multicast IP traffic is traffic that is destined to a host group. Host group are identified by class D IP addresses, which range from 224.0.0.0 to 239.255.255. From the selected port.
Multicast link, you can access the following pages: on page 41 •... GS108T and GS110TP Smart Switch to forward multicast traffic intelligently on the switch. Multicast IP traffic is traffic that is destined to a host
group. Host groups are identified by class D IP addresses, which range from 224.0.0.0 to 239.255.255. Page 110 GS108T and GS110TP Smart Switch Software Administration Manual To configure IGMP Snooping: Enable or disable IGMP Snooping on the switch. Enable. The switch snoops all IGMP packets it receives to determine which
segments should receive packets directed to the group address. Disable. GS108T and GS110TP Smart Switch Software Administration Manual The following table displays information about the global IGMP snooping status and statistics on the page. Field Description Multicast Control Frame Displays the number of multicast control frames that have
been processed Count by the CPU. GS108T and GS110TP Smart Switch Software IGMP Snooping settings for a Link Aggregation Group (LAG), click LAGS. To configure IGMP Snooping settings for a physical port, click PORTS. To configure IGMP Snooping settings for a physical port, click PORTS.
and/or filtering information. The format is 6 two-digit hexadecimal numbers that are separated by colons, for example, 01:00:5e:45:67:89. Page 114 GS108T and GS110TP Smart Switch Software Administration Manual When a packet enters the switch, the destination MAC address is combined with the VLAN ID and a search is performed in the Layer
2 Multicast Forwarding Database. If no match is found, then the packet is either flooded to all ports in the VLAN or discarded, depending on the switch Software Administration Manual Field Description The text description of this multicast table entry. Possible values are Management
MFDB Table Entries Displays the maximum number of entries that the Multicast Forwarding Database table can hold. Most MFDB Entries Since The largest number of entries that the Multicast Forwarding Database table can hold. Most MFDB Entries Since The largest number of entries that the Multicast Forwarding Database table can hold. Most MFDB Entries Since The largest number of entries that the Multicast Forwarding Database table can hold.
connected to the same layer 2 LAN port but were still interested in receiving multicast traffic directed to that group. Also, fast-leave processing is supported only with IGMP Snooping Querier Configuration Use this page to enable or disable theat group. Also, fast-leave processing is supported only with IGMP Snooping Querier Configuration Use this page to enable or disable theat group.
the network. To access this page, click Switching Multicast IGMP Snooping Querier VLAN Status Use this page to view the operational state and other information for IGMP snooping queriers for VLANs on the network. To
forwarding database entries to determine how to forward a received frame. The Address Table folder contains links to the following features: on page 54 •... Page 122 GS108T and GS110TP Smart Switch Software Administration Manual MAC Address in two-digital features.
groups separated by colons, then click Go. If the address exists, that entry will be displayed. An exact match is required. VLAN ID: Select VLAN ID from the menu, enter the VLAN ID from the Menu and enter the VLAN ID from the Menu and enter the VLAN ID from the Menu and enter the VLAN ID from the
amount of time to keep a learned MAC address entry in the forwarding database. The forwarding database contains static entries, which are never aged out, and dynamically learned entries, which are removed if they are not updated within a given time. GS108T and GS110TP Smart Switch Software Administration Manual Static MAC Address Use
the Static MAC Address Configuration page to configure and view static MAC addresses on an interface. To access the Static MAC Address Configure and view static MAC Address Configure and view static MAC addresses on an interface. To access the Static MAC Address Configure and view static MAC addresses on an interface and view static MAC address Configuration page to configure and view static MAC address Configure and view static MAC address Configuration page to configure and view static MAC address Configure and view static MAC address Configuration page to configure and view static MAC address Configure and view static MAC address Configuration page to configure and view static MAC address Configure and view static MAC address Configuration page to configure and view static MAC address Configuration and view static MAC address Configuration and view static MAC address Configure and view static MAC address Configuration and view static MAC address Configure and view 
links to the following features: on page 126 • Class of Service on page 133 •... GS108T and GS110TP Smart Switch Software Administration Manual Class of Service (CoS) queueing feature lets you directly configure certain aspects of switch queueing. This provides the desired QoS behavior for different types of network traffic
                        exities of DiffServ are not required. The priority of a packet arriving at an interface can be used to steer the packet to the appropriate outbound CoS queue through a mapp
                                                                                                                                                                                                                                                                                      ing table. Page 127 GS108T and GS110TP Smart Switch Software Administration Manual To configure global CoS settings: Select the Global radio button to
configure the trust mode settings that apply to all interfaces. Alternatively, you can select the Interface configuration Use the CoS Interface Configuration Use the CoS Interface Configuration page to apply an interface shaping rate to all
interfaces or to a specific interface. To display the CoS Interface Configuration page, click the QoS CoS tab, and then click the Advanced ... GS108T and GS110TP Smart Switch Software Administration Manual From the Interface Shaping Rate field, specify the maximum bandwidth allowed on the selected interface(s). This setting is typically used to
shape the outbound transmission rate in increments of 64 kbps. This value is controlled independently of any per-queue maximum bandwidth configure CoS queue settings for both physical ports and LAGs, click ALL. Select the check box next to the port or LAG to
configure. You can select multiple ports and LAGs to apply the same setting to the selected interfaces. Select the check box in the heading row to apply a trust mode or rate to all interfaces. Select the Global radio button to apply the same 802.1p
priority mapping to all CoS configurable interfaces or select the Interface radio button to apply 802.1p priority mapping to on a per-interface basis. Page 132 GS108T and GS110TP Smart Switch Software Administration Manual To map DSCP values to queues: For each DSCP value, select a hardware queue to associate with the value. The traffic class
is the hardware queue for a port. Higher traffic class values indicate a higher queue position. GS108T and GS110TP Smart Switch Software Administration Manual Differentiated Services (DiffServ) support that allows traffic to be classified into streams and given certain QoS treatment in accordance
with defined per-hop behaviors. Standard IP-based networks are designed to provide "best effort" data delivery service. "Best effort" and GS110TP Smart Switch Software Administration Manual Diffserv Configuration Use the Diffserv Configuration Use 
administrative mode setting as well as the current and maximum number of rows in each of the main DiffServ private MIB tables. To display the page, click QoS ... GS108T and GS110TP Smart Switch Software Administration Manual Field Description Policy Instance
table. Policy Attributes Table Displays the current and maximum number of rows of the policy attributes table. Page 136 GS108T and GS110TP Smart Switch Software Administration Manual Click Cancel to cancel the configuration on the screen and reset the data on the screen to the latest value of the switch. After creating a Class, click the class
link to the Class page. To configure the class match criteria: Click the class match criteria to associate with a DiffServ class. Reference Class. Selects a class to start referencing for criteria. A specified class • can reference at most one other
class of the same type. Class of Service. GS108T and GS110TP Smart Switch Software Administration Manual based. If you select Other, the screen refreshes and a Port ID by which packets are matched to the rule. IP DSCP. Matches the packet's DSCP to the class criteria's when selected. Select the •... Page
139 GS108T and GS110TP Smart Switch Software Administration Manual The available policy type is In, which indicates the type is specific to inbound traffic. This field is not configured class, update the fields, and click Apply. Page
140 GS108T and GS110TP Smart Switch Software Administration Manual The policy name is a hyperlink. The following figure shows the configuration fields for the policy attributes:. Drop. Page 141 GS108T and GS110TP Smart Switch Software
Administration Manual Simple Policy. Use this attribute to establish the traffic policy command uses a single data rate and burst size, resulting in two outcomes: confirm and violate. If you select the Simple Policy attribute, you can configure the following fields: Color Mode. GS108T and
GS110TP Smart Switch Software Administration to the switch. If you change any of the switch. GS108T and GS110TP Smart Switch Software Administration to the switch.
Manual Service Statistics Use the Service Statistics Use the Service Statistics link. Page 144 GS108T and GS110TP Smart Switch Software Administration Manual 144 |
Chapter 4: Configuring Quality of Service... Managing Device Security Use the features available from the Security tab to configure management security tab contains links to the following features: on page 146 • Management security Settings on page 157 •... GS108T and GS110TP Smart
Switch Software Administration Manual Management Security Settings From the Management Security Settings, and authentication lists. To display the page, click the
Security ... GS108T and GS110TP Smart Switch Software Administration Manual If you make changes to the page, click Apply to apply the changes to the page, click Apply to apply the changes to the system. In the case of a lost password, press the Factory Default Reset Note: button on the front panel for more than one second to restore the factory default. GS108T and GS110TP Smart Switch
Software Administration Manual The Current Server IP Address field is blank if no servers are configured (see RADIUS servers are configured as the primary server. Page 149 GS108T
and GS110TP Smart Switch Software Administration Manual To configure a RADIUS server, specify the Following list describes, and click Add. In the Server Address field, specify the settings the following list describes, and click Add. In the Server Address field, specify the IP address of the RADIUS server to add. •... Page 150 GS108T and GS110TP Smart Switch Software Administration Manual Field
Description Access Requests The number of RADIUS Access-Request packets retransmissions. Access Retransmissions The number of RADIUS Access-Request packets, including both valid and invalid packets,
that were received from this server. Page 151 GS108T and GS110TP Smart Switch Software Administration Manual To configure the RADIUS accounting server to add. In the Port field, specify the UDP port number the server uses to verify the RADIUS
accounting server authentication. Page 152 GS108T and GS110TP Smart Switch Software Administration Manual The following table describes RADIUS accounting server statistics available on the page. Field Description Accounting Server Address Displays
the time interval, in hundredths of a second, between the most recent Accounting-Response and the Accounting-Response and the Accounting-Response and the Accounting Server. GS108T and GS110TP Smart Switch Software Administration Manual Configuring TACACS+ TACACS+ provides a centralized user management system, while still retaining
consistency with RADIUS and other authentication processes. TACACS+ provides the following services: Authentication during login and via user names and •... Page 154 GS108T and GS110TP Smart Switch Software Administration Manual Click Cancel to cancel the configuration on the screen and reset the data on the
screen to the latest value of the switch. If you make any changes to the page, click Apply to apply the new settings to the system. TACACS+ Server Configuration Use the TACACS+ Server Configuratio
Manual In the Priority field, specify the order in which the TACACS+ servers are used. A value of 0 is the highest priority. In the Port field, specify the authentication port number through which the TACACS+ servers are used. A value of 0 is the highest priority. In the Port field, specify the authentication port number through which the TACACS+ servers are used. A value of 0 is the highest priority. In the Port field, specify the authentication port number through which the TACACS+ servers are used. A value of 0 is the highest priority. In the Port field, specify the authentication port number through which the TACACS+ servers are used. A value of 0 is the highest priority. In the Port field, specify the authentication port number through which the TACACS+ servers are used. A value of 0 is the highest priority. In the Port field, specify the authentication port number through which the TACACS+ servers are used. A value of 0 is the highest priority. In the Port field, specify the authentication port number through which the TACACS+ servers are used. A value of 0 is the highest priority.
select the authentication method that should appear first in the selected authentication login list. If you select a method will be tried, even if you have specified more than one method. GS108T and GS110TP Smart Switch Software Administration Manual Configuring
Management Access From the Access From the Access From the Access Rules. The Security ... GS108T and GS110TP smart Switch Software Administration Manual In the HTTP Session Hard Timeout field, specify the
hard timeout for HTTP sessions. This timeout is unaffected by the activity level of the session. The value is 24 hours, GS108T and GS110TP Smart Switch Software Administration Manual The currently configured value is shown when the Web
page is displayed. The default value is Disable. You can only download SSL certificates when the HTTPS Admin mode is disabled. Use the radio buttons in the SSL Version 3.0. Page 160 GS108T and GS110TP Smart Switch Software Administration Manual To configure the certificate download
settings for HTTPS sessions: From the File Type menu, select the type of SSL certificate File (PEM •... GS108T and GS110TP Smart Switch Software Administration Manual Access Profile Configuration Use the Access Profile
Configuration page to configure settings that control management access to the switch. Access profile configuration page to create an access profile must be deactivated, which is the default setting. GS108T and GS110TP Smart Switch Software
Administration Manual The Profile Summary table shows the rules that are configured for the profile, as the following table describes. Field Description Rule Type Identifies the action the rule takes, which is either Permit or Deny. Service Type Displays the type of service to allow or prohibit from accessing the switch management interface:... Page
163 GS108T and GS110TP Smart Switch Software Administration Manual Before you create access profile exists. • The access profile rule, configure the following settings and click Add. Rule Type: Specify whether the rule permits or denies access
to the GS108T or •... GS108T and GS110TP Smart Switch Software Administration Manual Port Authentication mode, when 802.1X is enabled globally and on the port results in all users being able to use the port without restrictions. At any given time,
only one supplicant is allowed to attempt authentication on a port in this mode. GS108T and GS110TP Smart Switch Software Administration Manual To configure global 802.1X administrative mode on the switch. Enable. Port-based
authentication is permitted on the switch. •... Page 166 GS108T and GS110TP Smart Switch Software Administration Manual To configure. You can also select multiple check box settings for the same settings to the select ports, or select the check box in the heading row to
apply the same settings to all ports. Page 167 GS108T and GS110TP Smart Switch Software Administration Manual For the selected port(s), specify the following settings: Port Control. Defines the port authorization state. The control mode is only set if the • link status of the port is link up. The possible field values are: Auto: Automatically detects the
mode of the interface. Page 168 GS108T and GS110TP Smart Switch Software Administration Manual Server Timeout. Defines the amount of time that lapses before the switch resends a • request to the authentication server. The field value is in seconds. The range is 1–65535, and the field default is 30 seconds. Control Direction. GS108T and
GS110TP Smart Switch Software Administration Manual Click Initialize to begin the initialization sequence on the selectable, it will be grayed out. When this button is clicked, the action is immediate. Page 170 GS108T and GS110TP Smart Switch Software
Administration Manual The following table describes the fields on the Port Summary page. Field Description Port The port authorization state. The control mode is only set if the link status of the port is link up. GS108T and GS110TP Smart Switch Software
Administration Manual Traffic Control From the Traffic Control From the
Software Administration Manual To configure MAC filter settings: To configure a new MAC filter settings: To configure d, this is the only option available. b. GS108T and GS110TP Smart Switch Software Administration Manual MAC Filter Summary Use the MAC Filter Summary page to
view the MAC filters that are configured on the system. To display the MAC Filter Summary page, click Security Traffic Control, and then click the MAC Filter ... GS108T and GS110TP Smart Switch Software Administration Manual Storm Control A broadcast storm is the result of an excessive number of broadcast messages simultaneously
transmitted across a network by a single port. Forwarded message responses can overload network resources and/or cause the network to time out. The switch measures the incoming broadcast/multicast/unknown unicast packet rate per port and discards packets when the rate exceeds the defined value. GS108T and GS110TP Smart Switch Software
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Administration Manual Unknown Unicast. If the rate of unknown L2 unicast (destination lookup failure) • traffic ingressing on an interface increases •... GS108T and GS110TP Smart Switch Software

Administration Manual The Port Security Violation table shows information about violations that are enabled for port security. The following table describes the port security Violation table. Field Description Port Identifies the port security Violation table shows information about violations that are enabled for port security. The following table describes the port security. The following table describes the port security Settings for a violation table. Field Description Port Identifies the port security Settings for a violation table shows information about violation table. Field Description Port Identifies the port security. The following table describes the port security Settings for a violation table shows information about violation table. Field Description Port Identifies the port security Settings for a violation table shows information about violation table shows information about violation table are enabled for port security. The following table describes the port security Settings for a violation occurred. Page 177 GS108T and GS110TP Smart Switch Security Settings for a violation table shows information about violation table are enabled for port security Settings for a violation table shows information about violation about violation table shows information about violation about violation about violation table shows information about violation abou

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Switch Software Administration Manual Protected Ports Membership If a port is configured as protected ports. Use the Protected Ports Membership page to configure the ports as protected or unprotected ports. Use the Protected Ports Membership page to configure the ports as protected ports. Use the Protected Ports Membership If a port is configured as protected ports. Use the Protected Ports Membership page to configure the ports as protected ports. Use the Protected Ports Membership page to configure the ports as protected ports. Use the Protected Ports Membership page to configure the ports as protected ports. Use the Protected Ports Membership page to configure the ports as protected ports. Use the Protected Ports Membership page to configure the ports as protected ports. Use the Protected Ports Membership page to configure the ports as protected ports. Use the Protected Ports Membership page to configure the ports as protected ports. Use the Protected Ports Membership page to configure the ports as protected ports. Use the Protected Ports Membership page to configure the ports as protected ports. Use the Protected Ports Membership page to configure the ports as protected ports. Use the Protected Ports Membership page to configure the ports as protected ports. Use the Protected Ports Membership page to configure the ports as protected ports. Use the Protected Ports Membership page to configure the ports as protected ports. Use the Protected Ports Membership page to configure the ports as protected ports. Use the Protected Ports Membership page to configure the ports as protected ports. Use the Protected Ports Membership page to configure the ports as protected ports. Use the Protected Ports Membership page to configure the ports as protected ports. Use the Protected Ports Membership page to configure the Protected Por
Switch Software Administration Manual Configuring Access Control Lists Access Control Lists (ACLs) ensure that only authorized users have access to specific resources while blocking off any unwarranted attempts to reach network resources. ACLs are used to provide traffic flow control, restrict contents of routing updates, decide which types of
traffic are forwarded or blocked, and above all provide security for the network. GS108T and GS110TP Smart Switch Software Administration Manual To use the ACL, or extended IP ACL. To permit or deny traffic based on the Source MAC Address, create a MAC
ACL. •... GS108T and GS110TP Smart Switch Software Administration Manual MAC ACL A MAC ACL consists of a set of rules which are matched sequentially against a packet meets the match criteria of a rule, the specified rule action (Permit/Deny) is taken and the additional rules are not checked for a match. GS108T and GS110TP
Smart Switch Software Administration Manual Click Cancel to cancel the configuration on the screen and reset the data on the screen to the latest value of the switch. MAC Rules page to define rules for MAC-based ACLs. The access list definition includes rules that specify whether traffic matching the criteria is forwarded
Key. Page 185 GS108T and GS110TP Smart Switch Software Administration Manual To configure MAC ACL interface bindings: Select an existing MAC ACL interface bindings in the select and select an existing MAC ACL interface bindings in the select and select an existing MAC ACL interface bindings in the select and select an existing MAC ACL interface bindings in the select and select an existing MAC ACL interface bindings in the select and select an existing MAC ACL interface bindings in the select and select an existing MAC ACL interface bindings in the select and select an existing MAC ACL interface bindings in the select and select an existing MAC ACL interface bindings in the select and select an existing MAC ACL interface bindings in the select and select an existing MAC ACL interface bindings in the select and select an existing MAC ACL interface bindings in 
the order of this access list relative to other access lists already assigned to this interface and direction. GS108T and GS110TP Smart Switch Software Administration Manual MAC Binding Table use the MAC Binding Table page to view or delete the MAC Bindings. To display the MAC Binding Table, click Security ACL, then click the Basic
Binding Table link. GS108T and GS110TP Smart Switch Software Administration Manual IP ACL IP ACLs allow network managers to define classification actions and rules for specific ingress ports. Packets can be filtered on ingress (inbound) ports only. If the filter rules match, then some actions can be taken, including dropping the packet or
disabling the port. GS108T and GS110TP Smart Switch Software Administration Manual To delete an IP ACL, select the check box next to the IP ACL ID field, update the name, then click Apply. GS108T and GS110TP Smart Switch Software
Administration Manual Assign Queue ID. Specifies the hardware egress queue identifier used to handle all • packets matching this ACL rule. Enter an identifying number from 0-3 in the appropriate field. Match Every. Requires a packet to match the criteria of this ACL. Select True or •... Page 190 GS108T and GS110TP Smart Switch Software
Administration Manual To configure rules for an IP ACL: To add an IP ACL rule, select the ACL ID to add the rule to, select the ACL ID to add the rule to, select the check box in the Extended ACL Rule Configuration fields, as the following figure shows. Page 191 GS108T and GS110TP Smart Switch Software Administration
Manual Action. Selects the ACL forwarding action, which is one of the following: • Permit. Forwards packets which meet the ACL criteria. • Deny. Drops packets which meet the ACL criteria. • Deny. Drops packets which meet the ACL criteria. • Deny. Drops packets which meet the ACL criteria. • Deny. Drops packets which meet the ACL criteria. • Deny. Drops packets which meet the ACL criteria. • Deny. Drops packets which meet the ACL criteria. • Deny. Drops packets which meet the ACL criteria. • Deny. Drops packets which meet the ACL criteria. • Deny. Drops packets which meet the ACL criteria. • Deny. Drops packets which meet the ACL criteria. • Deny. Drops packets which meet the ACL criteria. • Deny. Drops packets which meet the ACL criteria. • Deny. Drops packets which meet the ACL criteria. • Deny. Drops packets which meet the ACL criteria. • Deny. Drops packets which meet the ACL criteria. • Deny. Drops packets which meet the ACL criteria. • Deny. Drops packets which meet the ACL criteria. • Deny. Drops packets which meet the ACL criteria. • Deny. Drops packets which meet the ACL criteria. • Deny. Drops packets which meet the ACL criteria. • Deny. Drops packets which meet the ACL criteria. • Deny. Drops packets which meet the ACL criteria. • Deny. Drops packets which meet the ACL criteria. • Deny. Drops packets which meet the ACL criteria.
Manual Destination L4 Port Number: If the destination L4 keyword is Other, enter a • user-defined Port ID by which packets are matched to the rule. Service Type match conditions for the extended IP •... GS108T and GS110TP Smart Switch Software Administration Manual IP Binding Configuration When an ACL is
bound to an interface, all the rules that have been defined are applied to the selected interfaces. Use the IP Binding Table use the IP Binding Ta
display the IP Binding Table, click Security ACL, then click the Advanced Binding Table link The following table describes the information displayed in the MAC Binding Table. Monitoring table to view a variety of information about the switch and its ports and to configure how the switch
monitors events. The Monitoring tab contains links to the following features: on page 196 •... GS108T and GS110TP Smart Switch Software Administration Manual Ports link contain a variety of information about the number and type of traffic transmitted from and received on the switch. From the Ports link, you
can access the following pages: on page 196 •... Page 197 GS108T and GS110TP Smart Switch Software Administration Manual The following table describes the ifIndex of the interface table entry associated with the processor of this switch. Octets Received
The total number of octets of data received by the processor (excluding framing bits, but including FCS octets). GS108T and GS110TP Smart Switch since the Used last reboot. Static VLAN Entries The number of vLANs that have been active on this switch since the Used last reboot. Static VLAN Entries The number of vLANs that have been active on this switch since the Used last reboot. Static VLAN Entries The number of vLANs that have been active on this switch since the Used last reboot.
of presently active VLAN entries on this switch that have been created statically. GS108T and GS110TP Smart Switch Software Administration Manual The following table describes the per-port statistics displayed on the screen. Field Description Interface Lists the ports on the system. Total Packets Received The total number of packets received that
were without errors. Without Errors Packets Received With Error The number of inbound packets that contained errors preventing them from being deliverable to a higher layer protocol. Page 200 GS108T and GS110TP Smart Switch Software Administration Manual The following table describes the detailed port information displayed on the screen.
To view information about a different port, select the interface menu. Field Description Interface menu to select the interface for which data is to be displayed or configured. Page 201 GS108T and GS110TP Smart Switch Software Administration Manual Field Description Port Type For most ports this field is
blank. Otherwise the possible values are: Mirrored: Indicates that the port has been configured as a monitoring port on page 216. Page 202 GS108T and GS110TP Smart Switch Software Administration Manual Field
Description Link Trap This object determines whether or not to send a trap when link status of the factory default is Enable. Enable: Specifies that the system sends a trap when link status of packets are the factory default is Enable. Enable: Specifies that the system sends a trap when link status of packets are the factory default is Enable. Enable: Specifies that the system sends a trap when link status of packets are the factory default is Enable. Enable: Specifies that the system sends a trap when link status of packets are the factory default is Enable. Enable: Specifies that the system sends a trap when link status of packets are the factory default is Enable. Enable: Specifies that the system sends a trap when link status of packets are the factory default is Enable. Enable: Specifies that the system sends a trap when link status of packets are the factory default is Enable. Enable: Specifies that the system sends a trap when link status of packets are the factory default is Enable. Enable: Specifies that the system sends a trap when link status of packets are the factory default is Enable. Enable: Specifies that the system sends a trap when link status of packets are the factory default is Enable. Enable: Specifies that the system sends a trap when link status of packets are the factory default is Enable. Enable is the factory default is Enable. Enable is the factory default is Enable is the factory default is Enable. Enable is the factory default is Enable is the factory default is Enable is the factory default is Enable. Enable is the factory default is Enable is the factory default is Enable is the factory default is Enable. Enable is the factory default is Enable is the fact
(including bad packets) received that were 512-1023 Octets between 512 and 1023 octets in length including FCS octets). Packets Received that were 1024-1518 Octets... Page 204 GS108T and GS110TP Smart Switch Software Administration Manual
Field Description Local Traffic Frames The total number of frames dropped in the forwarding process because the destination address was located off of this port. 802.3x Pause Frames A count of MAC Control frames received on this interface with an opcode Received indicating the PAUSE operation. Page 205 GS108T and GS110TP Smart Switch
Software Administration Manual Field Description Packets (including framing bits but including FCS octets). Total Packets Transmitted The number of frames that have been transmitted by this
port to its segment. GS108T and GS110TP Smart Switch Software Administration Manual Field Description 802.3x Pause Frames A count of MAC Control frames transmitted on this interface with an opcode Transmitted indicating the PAUSE operation. This counter does not increment when the interface is operating in half-duplex mode. EAPOL
Frames Received The number of valid EAPOL frames of any type that have been received by this authenticator. Page 207 GS108T and GS110TP Smart Switch Software Administration Manual The following table describes the EAP statistics displayed on the screen. Field Description Ports Specifies the interface which is polled for statistics. Frames
Received Displays the number of valid EAPOL frames received on the port. Frames Transmitted Displays the number of EAPOL frames transmitted through the port. GS108T and GS110TP Smart Switch may generate messages in response to events, faults, or errors occurring on the platform as
well as changes in configuration or other occurrences. These messages are stored locally and can be forwarded to one or more centralized points of collection for monitoring purposes or long term archival storage. Page 209 GS108T and GS110TP Smart Switch Software Administration Manual To configure the Memory Log settings: Use the radio
buttons in the Admin Status field to determine whether to log messages. •... GS108T and GS110TP Smart Switch Software Administration Manual Use the buttons at the bottom of the page to perform the following actions: Click Clear to clear the messages out of
the buffered log in the memory. • Click Refresh to update the page with the latest messages in the log. •... Page 211 GS108T and GS110TP Smart Switch Software Administration Manual To configure the FLASH Log settings: Use the radio buttons in the Admin Status field to determine whether to log messages to persistent storage. Enables
persistent logging. • Disable: Prevents the system from logging messages in persistent storage. •... GS108T and GS110TP Smart Switch to send log messages to the remote logging hosts configuration Use the Server Log Configuration Disable: Prevents the system from logging messages in persistent storage.
Log Configuration page, click the Monitoring Logs tab, and then click the Server Log link. Page 213 GS108T and GS110TP Smart Switch Software Administration Manual To configure a remote log server To add a remote syslog host (log server), specify the settings in the following list and click Add. Host Address. Specify the IP address or hostname
of the host configured for syslog. •... GS108T and GS110TP Smart Switch Software Administration Manual Trap Logs page to view information about the SNMP traps generated on the switch. To access the Trap Logs page, click the Monitoring Logs tab, and then click the Trap Logs link. GS108T and GS110TP Smart Switch
Software Administration Manual Click Clear Counters to clear all the counters. This resets all statistics for the trap logs to the default values. Event Log page to display the event log, which is used to hold error messages for catastrophic events. GS108T and GS110TP Smart Switch Software Administration Manual Port Mirroring
The page under the Mirroring link allows you to view and configure port mirroring on the system. Multiple Port Mirroring selects the network traffic for analysis by a network t
menu, select the mode for port mirroring on the selected port. Enable. Multiple Port Mirroring is active on the selected port. Disable. Port mirroring is not active on the selected port. Multiple Port Mirroring is not active on the selected port.
Maintaining the System Use the features available from the Maintenance tab to help you manage the switch on page 220 • Reset o
links to the following options: on page 220 • Device Reboot on page 221 • Factory Default Device Reboot to page to resort the Device Reboot on page 221 • Factory Default Device Reboot Device Reboot Device Reboot on page 221 • Factory Default Device Reboot De
the system configuration to the factory default values. If you reset the switch to the default configuration, the IP address is Note: reset to 192.168.0.239, and the DHCP client is enabled. If you reset the switch to the factory default values. If you reset the switch to the factory default values. If you reset the switch to the factory default values. If you reset the switch to the factory default values. If you reset the switch to the factory default values. If you reset the switch to the factory default values. If you reset the switch to the factory default values. If you reset the switch to the factory default values. If you reset the switch to the factory default values. If you reset the switch to the factory default values. If you reset the switch to the factory default values. If you reset the switch to the factory default values. If you reset the switch to the factory default values. If you reset the switch to the factory default values. If you reset the switch to the factory default values. If you reset the switch to the factory default values are the switch to the factory default values. If you reset the switch to the factory default values are the switch to the factory default values. If you reset the switch to the factory default values are the switch to the factory default values. If you reset the switch to the factory default values are the switch to the factory default values. If you reset the switch to the factory default values are the switch to the factory default values. If you reset the switch to the factory default values are the switch to the factory default values. If you reset the switch to the factory default values are the switch to the factory default values are the switch to the factory default values. If you reset the switch to the factory default values are the switch to the switc
Manual Upload File From Switch Use the File Upload page, click Maintenance Upload File Upload a file from the switch to the TFTP server. To display the File Upload page, click Maintenance Upload File Upload Fil
upload: Code: Uploads a stored code image. GS108T and GS110TP Smart Switch Software Administration Manual In the Transfer fails if you do not specify a file name. For a code transfer, use an .stk file extension. Page 224 GS108T
and GS110TP Smart Switch Software Administration Manual Before you download a file to the switch, the following conditions must be true: The file is in the correct format. •... GS108T and GS110TP Smart Switch Software Administration Manual active image.
From the Server Address Type filed, specify the format for the address in dotted-decimal format, •... Page 226 GS108T and GS110TP Smart Switch Software Administration Manual To download a file to the switch from by using HTTP: From the File
Type menu, Specify what type of file you want to download to the switch: Code: The code is the system software Administration Manual Click the Apply button to initiate the file download. After a file transfer is started, please wait until the page
refreshes. Note: When the page refreshes, the Select File option will be blanked out. This indicates that the file transfer is done. GS108T and GS110TP Smart Switch Software in permanent storage. One image is the active image, and the
second image is the backup image. The active image is loaded during subsequent switch restarts. This feature reduces switch down time when upgrading or downgrading the GS108T and GS110TP Smart Switch Software Administration Manual To set the selected image as the active image, select the Active Image check
box. After activating an image, you must perform a system reset of the Note: switch in order to run the new code. To remove the selected image from permanent storage on the switch, select the Delete Image check box. Page 230 GS108T and GS110TP Smart Switch in order to run the new code. To remove the selected image from permanent storage on the switch, select the Delete Image check box. Page 230 GS108T and GS110TP Smart Switch in order to run the new code. To remove the selected image from permanent storage on the switch, select the Delete Image check box. Page 230 GS108T and GS110TP Smart Switch in order to run the new code.
Dual Image Status page. Field Description Unit The unit ID of the switch is always 1. Image1 Ver Displays the version of the image2 code file. GS108T and GS110TP Smart Switch Software Administration Manual Troubleshooting The Troubleshooting menu contains links to the following
options: on page 231 • Ping on page 232 • Traceroute Ping Use the Ping page to tell the switch to send a Ping request to a specified IP address. You can use this feature to check whether the switch to send the ping. The
switch sends the number of pings specified in the Count field, and the results are displayed below the configurable data in the Ping area. If successful, you will see "Reply From IP/Host: icmp seq = 0. time = xx usec. Tx = x, •... Page 233 GS108T and GS110TP Smart Switch Software Administration Manual MaxFail. Specify the maximum number of
failures allowed in the session. The valid • range is 0-255. Interval. Specify the UDP destination port in probe packets. The valid range is 1-65535. •... Page 234 GS108T and GS110TP Smart Switch Software Administration Manual 234 | Chapter 7: Maintaining the System.
Use the Support page to connect to the Online Support site at netgear.com. To access the GS108T and GS110TP Smart Switch Software Administration
Manual (the guide you are now reading) that is available on the NETGEAR Website. To access the User Guide page, click Help User Guide page, click Help User Guide. Page 237 GS108T and GS110TP Gigabit Smart Switches
Specifications The GS108T and GS110TP Gigabit Smart Switches conform to the TCP/IP, UDP, HTTP, ICMP, TFTP, DHCP, IEEE 802.1D, IEEE 802.
Manual GS108T and GS110TP Switch Performance Feature Value Switching capacity Non-Blocking Full WireSpeed on all packet sizes Forwarding method Store and Forward Packet forwarding rate 10M:14,880 pps/ 100M:148,810 pps/ 100M:148,
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