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## Firmware Version 1.10.05

Date: 2020/12/17

New Feature / System Release	Description
N/A	N/A
Update	Description
Fast Ring v2	Fixed the issue of Fast Ring function can't apply on trunk port.

## Firmware Version 1.10.04

Date: 2020/12/11

New Feature / System Release	Description
CLI	Add show bootloader version showing command "show bootloader-info".
Update	Description
CLI	Fixed the issue when use command "show log terminal-length [1-500] <cr>", can't input range.
Event log	Fixed the issue when after restore config, will cause event log page has no any warm start log.
Event log	Fixed the issue when choose Oldest to Newest index 1 and entries 1, the Max. number of pages is incorrect.

## Firmware Version 1.10.03

Date: 2020/12/03

New Feature / System Release	Description
N/A	N/A
Update	Description
Web	Fixed the issue when setting VLAN 1~2048 then backup configuration, will cause display error page.

## Firmware Version 1.10.02

Date: 2020/12/01

New Feature / System Release	Description
N/A	N/A
Update	Description



Event log	Fixed the issue when use CLI to clear event log then show log, it will not display event log table title.
Event log	Fixed the issue when use CLI to clear event log, then show log will still index from 500.
Event log	Fixed the issue when use SNMP event log display sequence item from “newest to oldest” change to “oldest to newest”, sequence still show “newest to oldest”.
System / Memory	Fixed the issue Event log save feature will cause memory leak.

## Firmware Version 1.10.01

Date: 2020/11/11

New Feature / System Release	Description
N/A	N/A
Update	Description
VLAN dot1q	Fixed the issue can't display single vlan information when used vlan dot1q vlan's show command.

## Firmware Version 1.10.00

Date: 2020/10/29

New Feature / System Release	Description
Configuration file	Support that MAC OS's line wrap format.
System	Add blocking firmware downgrade feature (1.10.00 or above → below 1.10.00) with new chipset which H/W version has “M” text (e.g. A03M).
Event Log	Add search feature.
Update	Description
RSTP	<p>Modify RSTP default value and config rules:</p> <p>&lt;Original&gt;</p> <ul style="list-style-type: none"> <li>● RSTP default parameter: Max Age = 6, Hello Time = 1, Forward Delay = 4. Max Age Range is 6-200.</li> </ul> <p>&lt;New&gt;</p> <ul style="list-style-type: none"> <li>● RSTP default parameter: Max Age = 20, Hello Time = 2, Forward Delay = 15. Max Age Range is 6-40. Config rule :</li> </ul>



	<ul style="list-style-type: none"> <li>➤ <math>2 * (\text{Forward\_Delay} - 1.0 \text{ seconds}) \geq \text{Max\_Age}</math></li> <li>➤ <math>\text{Max\_Age} \geq 2 * (\text{Hello\_Time} + 1.0 \text{ seconds})</math></li> </ul>
DHCP snooping	Fixed the issue when DHCP snooping enable, then execute Test-Unrecognized Next Header in IPv6 Header (Multiple Values) will cause device reboot.
VLAN translation	Fixed the issue when VLAN translation rule full, CLI will pop out incorrect error message.
SNMP / VLAN	Fixed the issue when set VLAN group to 1-4094 and will get specific SNMP OID failed (swh8021QTagVLAN, swh8021QTrunkVLAN).
Fast Redundancy / Status	Fixed the issue when enabled NTP and the topology has changed, status of "Last Change Time" will display incorrect.
Network Management / Network Configuration	Fixed the issue when set IPv6 link-local or global address via web UI, if without input prefix length, will set to 0, should be use 64 instead 0.
DHCP	Fixed the issue when in DHCP mode, device will send two DHCP discover packets when starting up.
Restore configuration	Fixed the issue need long time to restore configuration file when configuration file has multiple VLAN config.
Syslog Server	Fixed the issue when DNS server active/inactive/active then will cause syslog cannot send related message.
System	Fixed the issue when enable ipv6 and LLDP port 1 will cause middle crash.
System / Memory	Fixed the issue when the interface link down then link up, it will make internal system wrong and cause memory leak.

## Firmware Version 1.00.0R

Date: 2020/2/24

New Feature / System Release	Description
N/A	N/A
Update	Description
SNMP	Fixed that when FAN 1 and FAN 2 no working, snmp only show "FAN 2 failed" issue.
Trap/WEB	Fixed that when voltage Num=0, Trap configuration page not show "System Voltage trap" item issue.
SNMP Trap	Fixed that when FAN is on, but SNMP trap send fan failed issue.



## Firmware Version 1.00.0P

Date: 2019/12/26

New Feature / System Release	Description
N/A	N/A
Update	Description
Event Log	<ol style="list-style-type: none"><li>1. Remove Event Log's record option(Enable/Disable), change to always enabled.</li><li>2. Display prompt "Maximum event log (displayed and recorded) is 500 entries."</li></ol>

## Firmware Version 1.00.0N

Date: 2019/12/20

New Feature / System Release	Description
Reset Default	Add reset default function as below: <ol style="list-style-type: none"><li>a. Reset all</li><li>b. Expect IP</li><li>c. Expect event log</li><li>d. Expect IP and event log</li></ol>
Update	Description
DHCP	Fixed that when BOOTP option with length 254 is carried, DHCP packet lead to DHCP snooping function busy in infinite loop.
IP Source Binding	Fixed that when set IP source binding with IPv6 multicast via web UI will not successful, but don't pop error message.

## Firmware Version 1.00.0M

Date: 2019/11/06

New Feature / System Release	Description
N/A	N/A
Update	Description
CPU Temperature Status	Modify default of "Default High Temperature Threshold" and maximum of the parameter. Default value from 40 to 50. Maximum can input value from 60 to 70.
Switch Information / FAN State	Modify that if FAN-1 and FAN-2 not working, web will display "FAN 1,FAN 2 Failed".



Switch Information / FAN State	Modify when FAN state is warning, syslog server and SNMP server will only send one time log message and trap. (Before will keep send)
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## Firmware Version 1.00.0L

Date: 2019/10/31

New Feature / System Release	Description
Life Time Monitor	Support can monitor "Temperature", "Voltage" and "Fan Speed". Note: Hardware need support related sensors (Version: B01).
Update	Description
Storm Control / SNMP	Fixed that when set storm control via SNMP, the configuration can set success but still not working.
LLDP	Fixed that when enter the "\$" symbol in the port description field to observe that the LLDP packet cannot be displayed correctly.

## Firmware Version 1.00.0K

Date: 2019/09/23

New Feature / System Release	Description
N/A	N/A
Update	Description
HW Reset Button	Update reset default behavior: [Original] 0 ~ 5 sec → no action (Light Green) 5 ~ 13 sec → reboot (Light Orange) 13 ~ 20 sec → reset to supplier default (Light Orange with blink / each 0.5 sec) Over 20 sec → reset to factory default and clean supplier default's configure file (Light Orange with blink / each 0.1 sec)  [New] 0 ~ 5 sec → no action (Light Green) 5 ~ 10 sec → reboot (Light Orange) 10 ~ 20 sec → reset to factory default and clean supplier default's configure file (Light Orange with blink and Green with blink by each 0.25 sec) Over 20 sec → reset to supplier default (Light Orange with blink and Green with blink by each 0.25 sec)
DNS / Syslog	Fixed that when DUT boot up, if one of syslog server receive DNS response, but other two don't received, may cause some syslog missing.



DNS / Syslog and SNMP Trap	Fixed that when syslog or trap set domain name, will cause syslog or trap show event interval become long.
IGMP Snooping	Fixed that the default Query interval is 125, but input "no ip igmp snooping query-interval" will find the default value become 100.
Static IP Table Configuration	Fixed that Static IP table cannot set to IPv6 multicast IP, should be reject.
DNS / NTP and SNMP Trap	Fixed that when only enabled IPv4 or IPv6, NTP and SNMP Trap with DNS can't work.
MAC Limiter	Fixed that limited type will consider static and dynamic.
Management / IPv6	Fixed that when management IPv6 address not enabled, then use ping tool via SNMP method with warm reload will be successful in some situation.
LLDP / Port Description	Fixed that LLDP packets cannot take correct port description info, should be same as Port Configuration's Description value.
MAC Limiter	Fixed that when enable MAC limiters and set the limit to 50 and action set to shutdown, then use IXIA to send 100 different MAC address packets, some ports will not be locked.

## Firmware Version 1.00.0J

Date: 2019/09/02

New Feature / System Release	Description
Sticky MAC Address	Support Sticky MAC Address feature.
Port Linkup Delay	Support Port Linkup Delay feature. When device boot-up, specify port will judgment condition then link.
Static MAC Address / CLI	Support can display static MAC configure with specific port.
Port Link Flap (Log)	Support Port Link Flap feature. Log each port's link down/up status and reason.
Storm Control	Support can per port settings rate and action with drop/shutdown.
HTTPs	Support HTTPs management service.
DNS	Support DNS feature for "Syslog", "NTP" and "SNMP Trap". Notes: 3 DNS Server IP address can be set.
SFP Threshold (Alarm)	Support SFP threshold feature. TX/RX Power(dBm) 、 Temperature(C) 、 Voltage(V)
SNMP	Support SNMPv3 functions.
SSH and Telnet	Support can use SSH and Telnet service at the same time. (Each support Max. 5 sessions)
Warm Reload	Support Warm Reload feature.





Firmware Copy	Support Firmware Copy feature. Copy current running image to backup image.
Fast Ring v2	Support Fast Ring v2 feature.
Event Log	Support can save the event log even device do reboot.
Update	Description
WEB GUI	<p>Global enable/disable change from checkbox to drop-down menu method.</p> <p>(1). 802.1X System Configuration 、(2). DHCP Opt82Option37 Settings (3). PPPoE Configuration 、(4). Port Isolation (5). MAC Limiters 、(6). Loop Detection</p> <p>Modify button "Update" to "Refresh".</p> <p>(1). CPU and Memory Statistics 、(2). CPU Temperature Status (3). RSTP Bridge Overview 、(4). IGMP Snooping Status (5). IGMP Group Table 、(6). MLD Snooping Status (7). MLD Group Table 、(8). DHCP Snooping Table (9). MAC Limit Status 、(10). Layer 2 Protocol Tunnel Status (11). LLDP Status 、(12). Fast Redundancy Status</p> <p>Add "Refresh" button.</p> <p>(1). LACP Port Status 、(2). LACP Statistics (3). RSTP Port Status 、(4). RSTP Statistics (5). 802.1X Port Status 、(6). 802.1X Statistics (7). Loop Detection Status</p>
Syslog message	When user reboot, login and logout can take User IP/Account for record.
CPU & Memory Statistics status	CPU Loading support to display with Usage (%).
Port Packet Error Statistics	Rename "RX Oversize Frames" to "RX Oversize(1518 Bytes) Frames".
MAC Limiter	Modify max range from 0-50 to 1-50 (Default = 1).
Event Log	Modify display sort, newest list will put on top row.
IP Source Binding	<p>Fixed that when enabled and set IP Source Binding feature, through SSH method to access DUT with specified steps will connection failed.</p> <p>Steps:</p> <ol style="list-style-type: none"><li>1. The IP source binding function is enabled.</li><li>2. Access DUT with PC#1, the PC#1's IP is not exist on IP source binding list.</li></ol> <p>After step 2, PC#1 can't access DUT.</p>



	<p>3. Access DUT with PC#2, the PC#2's IP is exist on IP source binding list.</p> <p>After step 3, PC#2 should be access DUT, but PC#2 can't access DUT.</p>
SNMP Trap	Modify SNMP trap timer tick unit to 10ms.
ACL / CLI	Fixed that when set ACL rate limit via CLI, when input value from 1 to 15, DUT will not pop fail message.
MAC Address Table	Fixed that when input "show mac static-mac all(or interface)", when total input over 13 times will cause CLI and web UI disconnect.
Link Aggregation / Port Trunking	Fixed that if input include symbol ',' to port trunking group name will cause the character behind the symbol has disappeared.
VLAN Translation	Fixed that if input include symbol ',' to VLAN translation name will cause set config incorrect.
IGMP Snooping / CLI	Fixed that when input "ip igmp filter profile x" via CLI interface layer, always fail(Full entries) and do restore config will not successful.
Front Console LED	<p>Update front console LED behavior.</p> <p>Device boot-up initial stage:</p> <p>Console port had connected</p> <p>Terminal enabled : Off Light</p> <p>Terminal disabled : Off Light</p> <p>Console port without connected : Off Light</p> <p>Device Ready:</p> <p>Console port had connected</p> <p>Terminal enabled : Light Green</p> <p>Terminal disabled : Off Light</p> <p>Console port without connected : Off Light</p>

## Firmware Version 1.00.0I

Date: 2019/05/30

New Feature / System Release	Description
SNMP Trap	Support "System Up" and "System Power Up" trap when device power on. (System Up – Warm Start ; System Power Up – Cold Start)
Telnet/SSH	Support maximum session from 4 to 5.
Update	Description
VLAN Translation	Fixed that VLAN translation can't work when DHCP snooping enable



	with DHCP mode.
VLAN Translation	Modify VLAN translation max number from 20 to 44 (actually must be 44).
System / CLI	Fixed that when a user already using Telnet, then other one user close Telnet will cause SSH cannot use anymore and Telnet session will lost one.
LACP	Fixed that the web page for link aggregation distribution rule item arrangement doesn't match CLI and SNMP.
LACP / CLI	Fixed that LACP configuration role value items should be adjusted to disable, active and passive.
Syslog Message / Warm reboot	Fixed that when DHCP mode do warm reboot DUT from all UIs, system cannot send "The system is going down NOW!" syslog message out.
LLDP	Fixed that when setup LLDP then save and reboot, the LLDP function will not work.
SFP information	Modified that SFP state unit of TX/RX power should be displayed dBm.
SNMP	Modified that the voltage unit should be show "V" in SNMP.
SFP State	Fixed that when dynamic plug SFP will cause SFP DMI information display wrong.
SNMP / Trap Destination	Fixed that even trap Destination not enable system still will send dying gasp ARP.
System Information / Host Name	Fixed that when user#1 login device via telnet, and at this moment user#2 modify system host name then user#1 still can see the system host name still the old one.
IGMP Snooping / ARP	Fixed that when enabled IGMP Snooping, system cannot forward ARP packets with "ff" format out.
Network Configuration / IPv6	Fixed that IPv6 DUID display wrong (last 6 numbers should be device's MAC address).
System / Memory	Fixed that when modify configure and will consume continuously system memory until 0.

## Firmware Version 1.00.0H

Date: 2018/07/20

New Feature / System Release	Description
N/A	N/A
Update	Description
WEB	Fixed that the MAC address table "VLAN name" search function can't work fine.

## Firmware Version 1.00.0G

Date: 2018/07/19

New Feature / System Release	Description
N/A	N/A
Update	Description
CLI	Fixed that the “show mac address-table <cr>” command is lost.

## Firmware Version 1.00.0F

Date: 2018/07/18

New Feature / System Release	Description
N/A	N/A
Update	Description
VLAN	Fixed that when VLAN VID is "2500", it will cause WEB page MAC address table "Update and Clear" button overlap.
IGMP	Fixed that IGMP snooping table total display not correctly.
SNMP Trap	Fixed that when get trap via SNMP, should not has battery mode item.

## Firmware Version 1.00.0E

Date: 2018/06/14

New Feature / System Release	Description
N/A	N/A
Update	Description
N/A	N/A

## Firmware Version 1.00.0D

Date: 2018/05/21

New Feature / System Release	Description
N/A	N/A
Update	Description
DHCP	Fixed that packets of DHCP Client with Windows OS will not forward to DHCP server issue when enable DHCP snooping.
CLI	Fixed that when use CLI to show running-config interface 6,10 ,but result did not show vlan id 4094.



## Firmware Version 1.00.0C

Date: 2018/05/08

New Feature / System Release	Description
WEB	Modified that WEB will automatically change to login page when logout from WEB page.
WEB	Modified that WEB will automatically change URL when change the ip address.
Firmware Upgrade	Modified that when update firmware on web, the default of upgrade image option should be another.
MAC	Added that MAC address table can search more ports at the same time.
Log	Added Mal-attempt Log configuration.
L2PT	Release L2PT function.
SNMP	Modify Syslog and SNMP trap message format
VLAN	Added VLAN translation.
VLAN table	Added that to support show VLAN table without member, port and VID.
CLI	Modified that the “show running configure” can support to search with a specific word.
SNMP	Added that SNMP polling if set 2secs one time, sometime cannot get value and get burst value(max 100mbps, but can get 288mbps), cannot get real time.
DHCP	Modified that when port status sequence is link up -> link down ->link up then send DHCP release package and discover package.(DHCP recycle)
ARP	Support to show ARP table.
Console port	Modified that more security for console port to avoid crack attack.
Update	Description
DHCP	Fixed that setup IPv6 static ip fail issue when Change IPv6 DHCP mode to static mode.
Telnet	Fixed that Telnet maximum sessions do not match SSH issue.
CLI	Fixed that the command line of the interface level security is disappear.
Security / Console	Fixed that when set management console fail retry times via CLI, if input value between 11 to 1440 will not pop fail message.
Security / Console	Fixed that when console login fail block time not inaccurate situation.
Security / Console	Fixed that when over failed retry times then send syslog to server, but the message was wrong.



SSH	Fixed that when access switch by SSH, it will take long time to wait ask first page (around 6 ~ more than 10 secs)
Syslog	Fixed that when DUT get time from ntp server, it can't sent out the message as syslog.
SNMP	Fixed that when setting IPv6 link-local address and global-address prefix =64, but the prefix will be changed to zero.
SNMP	Modified that when using snmpc to assign management vlan, after press set, snmpc will pop unsuccessful. But, actually set success.
NTP	Modified that the NTP can't work fine for daylight saving time issue.
LLAG	Fixed that there should only be 14 LLAG group in the "RSTP Port Status" table (SNMP/WEB/CLI), but there are 16.
Ping	Fixed that when using ping function, sometime press CTRL+C cannot success to stop ping, need wait all counts finish.
Ping	Fixed that ping function can't be work fine.
Traceroute	Modified that traceroute option command.
CLI	Modified that vid's name is the same with other vid's name.
Syslog	Fixed that when auto backup successfully, syslog sent the wrong message.
Log	Fixed that the log message for the network is error, when the auto-backup fails for the wrong user name or password.
Auto Backup	Fixed that the auto backup can't work fine.
Ping / Parameter	Remove ping function parameter -t(timeout) (chipset not support).
CLI	Fixed that the reminder description for config restore or back up is incorrect in CLI.

## Firmware Version 1.00.0B

Date: 2017/10/25

New Feature / System Release	Description
VLAN	Support Dot1q vlan tunnel function and remove QinQ page and commands.
SNMP/Syslog	Added that when MAC limit and Storm control over threshold then send SNMP trap and syslog
Auto-Backup	Support Auto-Backup function.
VLAN	Modified that the VLAN config/table name and behavior.
LED	Modified that the reset button behavior and status LED light for ROM-D function.
ROM-D function	Support the ROM-D function and CLI command.



Update	Description
SSH	Fixed that when change system service from Telnet to SSH, then enter right username and password, sometime will happen that it can't key-in anything anymore.
SSH	Fixed that when first session login failed by SSH, then second time SSH even use right username & password, it will pop session full.
Trap	Fixed that wpwer down trap with IPv6 package format of "type" and "length" value are wrong.
QoS	Fixed that 802.1p QoS will not work if the packets enter DUT from trunk ports.
SSH	Fixed that the SSH can't work fine issue.
CLI	Modified that it can use the "Tab" button to complete the whole commands when you type a part of command.
IP address	Fixed that it can't set any IP address ending with .255 issue.
Ping	Fixed that when ping from switch to client, it will take long time even response time < 1ms.
Ping	Fixed that it can't ping from switch to itself, it will fail.
MAC	Fixed that Lower layer size of static mac address is does not matching to the number of upper layer is 128.
Tacacs	Fixed that the Tacacs configuration can only be modified by SNMP for no more than one row each time.
QoS	Fixed that QoS 802.1P remarking can't work.
IGMP	Fixed that IGMP client port with LACP or port trunking will cause IGMP stream can't forward to client port.

## Firmware Version 1.00.0A

Date: 2017/04/18

New Feature / System Release	Description
System	Added that the time out can support the range from 1 to 1440 and the time (sec, minute) for console, SSH, Telnet.
System Service	SNMP trap & syslog can support CPU load.
Syslog	Support more detail only on syslog such as STP/LACP status change.
Port Counter	Port counter allow to clear per port counter.
Syslog Configuration	Add new feature / User log function. (Enable/Disable record user keying CLI commands) CLI commands: syslog logging-type terminal-history.



	no syslog logging-type terminal-history.
Update	Description
WEB	Modified that the time zone replaces GMT with UTC.
User log	Fixed that it can't show IP address of user on ssh mode issue.
VLAN QinQ	Fixed that it can't support double tag on packet when enable QinQ mode with ether type is 8100.
DHCP snooping	Fixed that it will crash when it receives a DHCP offer with a 9100 single vlan tag.
DHCP snooping	Fixed that it will crash when enabled DHCP snooping and server trust port receiving DHCPv6 packet with empty value.
SSH	Fixed that when using Putty or SecureCRT to access device via SSH in the first time will see "login as" then change to "Username" issue.
SSH	Modified that the user login count limitation to 3.
SSH	Fixed that it can't work fine issue.
DHCPv6	Fixed that when client port receives DHCPv6 confirm packet, it always will not forward to server trust port.
User Authentication	Modify all UI about MD5 hashed password title/command/desc.
Load Factory Settings	Fixed that when execute "Load Factory Settings Except Network Configuration" will resend dhcpv6 Solicit packet.
SNMP	Fixed that if port is link down but use SNMP to show port status also have speed value, after modified it is display zero now.
LLDP	Fixed that when enable lldp port config before lldp initial delay complete, should not cause first lldp packet sent out after 2 min ; LLDP packet will send out in 5 secs now.
User Authentication	Fixed that user can to see the other user's password in "User Authentication" in html.
DHCP	Fixed that when receive double tag DHCP packet from Server Trust port(snooping enable/QinQ disable) then DHCP Snooping program will be die.
CLI	Fixed that when enter "show switch-info cpu-mem-statistics" display wrong title with "Statistics".
WEB	Fixed that if the Static MAC Table is Broadcast MAC address then will pop message but pop wrong word "Broadcast".





## Firmware Version 1.00.09

Date: 2016/09/30

New Feature / System Release	Description
System	If config partition (Cimage) damage(or not completely) in system bootup lead to DUT can't access then will auto recovery config data
CLI / Terminal length	CLI add new commands for show show running-config 、 show default-config 、 show start-up-config can specify length: terminal length [0-512] <cr> no terminal length <cr> show terminal <cr>
MAC Table Address	CLI add show MAC table with sorting and counting functions: Add: show mac address-table interface [port] <cr> show mac address-table mac [mac-addr] <cr> show mac address-table vlan [vlan_id] <cr> Remove: show mac address-table top <cr> Keep: show mac address-table all <cr>
Firmware Upgrade	If firmware upgrade fail ( kernel partition damage) then check that image version number on UI after DUT bootup in another image, it should be null.
Security / PPPoE	PPPoE server trust ports
Update	Description
DHCP Snooping	Modify Security Configuration – “Filter configuration” change name to “DHCP snooping”
Syslog	Modify “Mal-attempt Log configuration” change name to “Syslog Configuration”
IGMP Snooping	Modify WEB UI IGMP snooping title "IGMP/MLD snooping v3" --> "IGMPv3 / MLD v2 snooping".
RSTP	Modify RSTP default configure: ■ System Priority from 4096 to 32768 ■ Port Priority from 0 to 128
System information	Modify UI show switch information about firmware version title



	Current Boot Image Configured Boot Image Image-1 Version Image-2 Version
ACL / CLI	CLI add acl command “action permit”
ACL / CLI	CLI can't set command "acl ingress-port any" successfully.
DHCP Snooping / Option82 / CLI	CLI set option 82 formatted commands is “ip dhcp snooping remote formatted” instead of “ip dhcp snooping formatted”
CLI	CLI remove "quit" command.
SNMP / MIB	Fixed that SNMP IF-MIB (ifDescr / iName / ifAlias) display incorrect info
Port Status	Fixed that CLI support show port description but WEB UI "port status" page not show port description
IP Source Binding	Fixed that after enable IP source binding then we cannot access DUT from front console port
Image info.	When do "show running-config" or "backup config", title of FW version always display image-1 version, even current is image-2.
DHCP	Fixed that device will send 2 different DHCP session after restore configure
Syslog	Fixed that DUT can't send syslog packet
DHCP Snooping	Fixed that DHCP packet can't forward to DHCP clients when enabled DHCP snooping

## Firmware Version 1.00.08

Date: 2016/05/30

New Feature / System Release	Description
System	Rewrite the process to avoid the issues of linux system or busybox
System	Auto-reboot system in case of out of memory suddenly
MAC limit	MAC limit per port in WEB, CLI and SNMP
IGMPv3	Enable or Disable IGMPv3 function
DHCP Option 82	DHCP OPT 82 Formatted function and related CLI
TACACS+	Support user authentication “TACACS+”
User authentication method	Support user authentication method MD5 hashed password function
Update	Description
SNMP / trap	Power down trap(dying_gasp) send trap frequency from 3times/1min to 3times/1sec
Firmware Upgrade	Restricted FOS firmware upgrade can only to a corrupted partition if it exists
IGMP Snooping	When IGMP Query interval is less than Query Response interval , after reboot or restore config it will make IGMP query interval value change.



IGMP Snooping	Modify IGMP query response interval parameter config range: From 1-6000 change to 1-255
IGMP Snooping	Fixed IGMP snooping table not clear under Query interval less than response interval.
VLAN QinQ	CLI add commads about VLAN QinQ
LLDP	CLI modified show LLDP information title
ACL	CLI add new command “acl action deny”
ACL	Change CLI command “acl no action” config from “deny” to “permit”
ACL	Remove CLI command “acl action permit”
ACL	Modify CLI show configure
DHCP Option 82 Remote-ID	Fixed the wrong packet content for remote id user manual string.
SSH	SSH function can't not work.
DHCP Option 82 Circuit-ID	When default value with Option82_Circuit-ID, the packet of first byte should be display "00", but it display "01"
IGMP Snooping	Fixed that IPTV will freeze and IGMP table sudently empty
DHCP Option 82 Remote-ID	Fixed that WEB can't show default DHCP OPT82 remote-id with MAC address
DHCP	After change vender id DUT not send DHCP release packet.
IGMP Snooping	Multicast stream lost while client join/leave to same group lead to IPTV freezes
SNMP / Event log	SNMP can not display the IPv4 address of the login user in the event log table correctly
Restore configure / IGMP	After restore config igmp vlan id config would be set to default value even the igmp vlan id config is empty
IGMP Snooping	Fix the issue that igmp snooping receive igmpv3 packet with illegal value (number of group record) cause program crash.
IGMP Snooping	Fix issue that group record number in igmpv3 packet be changed by igmp snooping module
SNMP / Trap	When DUT is GB version but SNMP trap object ID is same as CTS version
DHCP Snooping	Switch a port from unlimit to DHCP of IP sourceguard. Then it will drop DHCPv6 renew packets until it receives a DHCPv6 solicit
MAC Address Table	When all UI set same MAC address and same VID at different port in Static MAC Address Table, system not pop warning message even setting not success
MAC Address Table	CLI/WEB/SNMP can't set broadcast MAC address in Static MAC table now
Static IP Table	The entry in the Static IP Table Configuration can not be deleted by the



	telnet command
DHCP Snooping	SNMPc can not add IPv4 address into DHCP Snooping table successfully. And the original IPv6 address doesn't disappear and will be transformed
SNMP / NTP	Check from the SNMP server. The "SNTP status" is "Enabled". Check from web and telnet. The SNTP status is "Disabled"
802.1X	The 802.1X statistics table can not be updated
System / RSTP	Plug out one forward port and plug in again, than sent 1 pps forwarding packet from other port, RSTP port will can't blocked
IGMP Snooping	Fixed that when a port leave a group before , in the next time other ports leave specify group that port will affected
Event Log	When firmware upgrade error then event log will show invalid ip address.
IGMP Snooping	When set the IGMP snooping to enable then reboot DUT , the first IGMP join packet can't pass through to server port
Network DHCP	After restore with enable DHCP config file DUT will have two dhcp clients
NTP	When IPv4 can't get ip and gateway address from DHCP server then NTP will not send IPv6 address packet
QinQ	Enable QinQ and set ether type to 0x8100, VLAN behavior will error, (0x8100)tag packet will be remove tag by DUT then drop
QoS	If set a port is ingress port and access mode(User Priority) will only marking P-Bit and send out but QoS not work
Port link / LED	Plug SFP-20TP/SFP-30TP WEB panel LED will blink show link-up even if not plug network line
Port link / LED	When change combo-port config from copper to fiber manual 1000M and plug SFP-20TP/SFP-30TP HW LED will always light even if not plug network line(about continue 2mins to 3mins)
Port link	If fiber port link-up in bootup then DUT will not bootup completely
RSTP	Fixed UI show RSTP statistics page RSTP received number place in STP received
Firmware Upgrade / FTP	UI use FTP to do firmware upgrade but only input user name without input password then upgrade will fail
Restore configure / Loop-detection	When enable loop-detection and detect port, and then backup configure, the configure file loop-detection function was disable

## Firmware Version 1.00.07

Date: 2015/11/20

New Feature / System Release	Description
N/A	N/A
Update	Description
Port link / LED	Port link-up to speed 100M then LED maybe can't blink.

## Firmware Version 1.00.06

Date: 2015/11/17

New Feature / System Release	Description
N/A	N/A
Update	Description
ACL configure	UI set ACL "IPv4 Source IP" and "IPv4 Destination IP" configuration will not verify input IP address is validity or not.
System / Port Statistics	Improve refresh port counter rate times.
Switch configure	Modified default config about "Statistics Polling Interval /Statistics Polling Ports" from 5 secs/5ports to 6 secs/12 ports.
IGMP Snooping	If IGMP Query Interval value is smaller than Query Response Interval due to bootup from old config or restore old config then convert query interval value to a new value.
IGMP Snooping	If IGMP Query Response Interval is over 255 due to bootup from old config or restore old config then convert query interval value to 255.
IGMP Snooping	UI can't set Query interval smaller than Response interval but if Query interval is not bigger than Response interval(1/10) 5secs. then will not clear IGMP snooping table even not join packet.
IGMP Snooping	Fix the issue that igmp snooping receive igmpv3 packet with illegal value (number of group record) cause program crash
IGMP Snooping	Fix issue that group record number in igmpv3 packet be changed by igmp snooping module.
ACL configure	Set ACL configure of IPv4 Source IP or Destination IP must in index 1-128 but UI show wrong message.
IGMP Snooping	Let igmp snooping drop igmpv3 packets.
CLI / DHCP Snooping	CLI command "no ip sourceguard static-ip" can't work.



## Firmware Version 1.00.05

Date: 2015/10/27

New Feature / System Release	Description
N/A	N/A
Update	Description
MAC Address	UI show MAC address in uppercase.
MAC Address Table	CLI show mac address table change place of “VID” and “MAC Address”.
IGMP Snooping	IGMP configuration “Query Response Interval” value range is 1-255 (1/10sec)
IGMP Snooping	IGMP configuration “Query interval” value should bigger than “Query Response Interval”
CLI / ACL configure	Change CLI command “acl no action” config from “deny” to “permit” and add command “acl action deny”
MAC Address Table	CLI add new commands “show mac address table all”
MAC Address Table	CLI add new commands “show mac address table top
Network configure	When change network mode from DHCP to Static mode, it will lose IP address (cannot access).
DHCP Snooping / Option 82 / Remote-ID	Fix the wrong packet content for remote id user manual string.
SSH	SSH function can’t not work.
DHCP Snooping / Option 82 / Circuit –ID	When default value with Option82_Circuit-ID, the packet of first byte should be display "00", but it display "01"
IGMP Snooping	IPTV will freeze and IGMP table suddenly empty.
DHCP Snooping / Option 82 / Remote-ID	WEB can’t show default DHCP OPT82 remote-id with MAC address.
Network DHCP	When change vender id DUT not send DHCP release packet.
IGMP Snooping	Multicast stream lost while client join/leave to same group lead to IPTV freezes.
SNMP / Event log	SNMP can not display the IPv4 address of the login user in the event log table correctly.
Restore configure / IGMP	After restore config igmp vlan id config would be set to default value even the igmp vlan id config is empty.

## Firmware Version 1.00.04

Date: 2015/08/20

New Feature / System Release	Description
N/A	N/A
Update	Description
CLI / Port isolation	When CLI enable port-isolation then note will display “Port Isolation, Port Based vlan is automatically invalid.”
Restore configure / Port isolation	Restore config port-isolation can’t work successfully.
Port configuration	Fixed when combo port set to fiber then save config and reboot but that port will not blink when link-up.

## Firmware Version 1.00.03

Date: 2015/08/19

New Feature / System Release	Description
N/A	N/A
Update	Description
WEB / Port isolation	UI modified port isolation config page/commands.
WEB / Port-based VLAN	UI display Port-based vlan group name from “Port Name” to “Name”.

## Firmware Version 1.00.02

Date: 2015/08/12

New Feature / System Release	Description
N/A	N/A
Update	Description
Loop-detection	Fixed issue that loop detect packet from other device under management VLAN would be received by module.
Loop-detection	Fixed issue that loop detect settings in module might be incorrect in some setting order.
Loop-detection	After a system loop happens, loop detection cannot successfully lock ports which the physical loop happen on.
Loop-detection	When loop-detection happened but LED blink frequency as normal link status.



## Firmware Version 1.00.01

Date: 2015/08/10

New Feature / System Release	Description
Loop Detection	Loop detection behavior change 1.1 “Block” port instead of “shut-down” port whenever the port is detected as looped-port. 1.2 Keep sending and “listening” loop-detection packet on the looped-port 1.3 Let the LED of looped-port blink at a cycle of 2-second period (1-second light, 1-second dark) 1.4 “Unblock” port whenever the system does not receive loop-detection packet on the looped-port for a period of “un-lock interval verification-period”
Update	Description
System / CLI session	CLI can support maximum 4 sessions in the same time.
System / SNMP	SNMP port status and port counter polling let it speed up.
Port-isolation	Port-isolation independence from port-based VLAN.
Loop Detection	Loop detection status if the port with trunk vlan id 7 then will display “Tagged-VLAN 7” otherwise it will only display “Untagged” when that port is access vlan.
Switch system	Telnet timeout can only set to 5-300 seconds but can’t set to disable now.
VLAN	In WEB/CLI/SNMP port based vlan includes CPU port option.