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## Firmware Version 1.10.0L

Date: 2023/12/17

New Feature / System Release	Description
N/A	N/A
Update	Description
Port Statistics Alarm	Can't select "Rx Dropped Frames" for setting.
Port Statistics Alarm	Without select any counters, system still send alarm when trigger condition.
Port Statistics Alarm / WEB	When setup duplicate profile name on different rules, system need to blocking the setting.
Port Statistics Alarm / WEB	If the settings not do any change and press OK button, system will pap warning and can't setup.
Memory Statistics / SNMP	When setting time schedule, two groups and profiles can't set the same o'clock and enable.
Memory Statistics	If system free memory less than 15%, can't execute auto-provision feature.
Syslog / Port Statistics Alarm	Format of the port statistics alarm syslog message is incorrect.

## Firmware Version 1.10.0K

Date: 2023/11/10

New Feature / System Release	Description
Port Link Flap	Support new feature "Port Link Flap".
Port Statistics Alarm	Support new feature "Port Statistics Alarm".
System Memory	Support new feature "Memory Low".
Update	Description
N/A	N/A

## Firmware Version 1.10.0J ~ 1.10.0H

Date: 2023/11/09

New Feature / System Release	Description
N/A	N/A
Update	Description
N/A	Internal use.

## Firmware Version 1.10.0G

Date: 2023/11/01

New Feature / System Release	Description
CPU Loading	<ol style="list-style-type: none"> <li>1. Modify title name from "CPU &amp; Memory Statistics" to "CPU Loading".</li> <li>2. Modify calculation method of alarm notification – Judgement CPU loading usage (%).</li> <li>3. Support statistics – 1/24/72 hour averages (%).</li> </ol>
Memory Statistics	<ol style="list-style-type: none"> <li>1. Move to different page (System Memory) for display.</li> <li>2. Remove display "Buffers" and "Cached".</li> </ol>
Update	Description
N/A	N/A

## Firmware Version 1.10.0F

Date: 2023/10/23

New Feature / System Release	Description
N/A	N/A
Update	Description
DHCP Snooping	Unexpected DHCP packet with wrong format will crash DHCP process.

## Firmware Version 1.10.0E

Date: 2022/12/02

New Feature / System Release	Description
N/A	N/A
Update	Description
CLI	Fixed “\r\n” issue for specific tool login device. (Perl / Net::Telnet)
User Authentication / CLI	When multiple user login device at the same time, then will cause user privilege wrong.

## Firmware Version 1.10.0D

Date: 2022/09/23

New Feature / System Release	Description
CLI	Supports tab autocomplete.
Management Authentication	Support modify order of Authentication method.



System Information	System "Hostname" support can input 64 character.
<a href="#">Update</a>	<a href="#">Description</a>
User Account	When clicks the password field for edit via web, the content of the field should be cleared.
QoS Remarking	DSCP Remarking will keep previous behavior even it has been modified.
SNMP	After save then reboot, SNMP Server cannot use SNMPv3 USM User access DUT.
CLI	Input "show ip igmp filter" and "show ip igmp filter interface x" via CLI will find the error string. 1. Filter instead of Filiter 2. Profile instead of Prifole
WEB	Page "IGMP/MLD Filtering" display wrong character of title name. 1. Filter instead of Filiter
CLI	CLI will stuck when enter much times "show log <cr>".
SNMP	Execute snmpbulkwalk will cause device SNMP crash.

## Firmware Version 1.10.0C

Date: 2022/02/18

<a href="#">New Feature / System Release</a>	<a href="#">Description</a>
System Information	System "Hostname" support can input 64 character.
<a href="#">Update</a>	<a href="#">Description</a>
System / All port status	All ports status will display incorrectly after DUT works for some days, even though in actuality ports are all well connected and linked. [Notice] A workaround is used to fix this issue, so when the issue happens, all port status can display correctly, but local event log messages still will be auto cleared by the system, and be recorded again!

## Firmware Version 1.10.0B

Date: 2022/02/16

<a href="#">New Feature / System Release</a>	<a href="#">Description</a>
SNMP	Support standard MIB "ifspeed" & "ifhighspeed"
<a href="#">Update</a>	<a href="#">Description</a>
System	Improve view SFP information and state speed.

## Firmware Version 1.10.0A

Date: 2021/11/16

New Feature / System Release	Description
N/A	N/A
Update	Description
TACACS+	TACACS+ secret key cannot input symbol directly, it need add two symbol " on before and after the wanted symbol.

## Firmware Version 1.10.09

Date: 2021/11/14

New Feature / System Release	Description
Switch Configuration	Support can disable/enable "SFP Polling" function.
Update	Description
System / WEB	DUT won't announce configuration changed flag after first time adding a static multicast IP entry.
Static MAC Address	Create several static MAC entry, then set one of entry to another forward port, will cause some entry disappear.
LACP	Fixed that under LACP active mode, system will send LACP packet more accurate (Standard define of interval is 1 sec / Original is 1.02 sec)
LACP	Fixed that another side device will get LACP flap if FOS enable LACP function and aggregated successful.
DHCP Snooping	When DHCP server port receive DHCPv6 relay-reply and forward to client, behind of the packet will redundancy 4 byte 0.
System	Improve view "SFP state" speed.

## Firmware Version 1.10.08

Date: 2021/07/27

New Feature / System Release	Description
N/A	N/A
Update	Description
Firmware Copy	Fixed that when do FW copy via SNMP, the upgraded FW version still display old FW version.
Port Link Flap Log	Fixed that when port link flap log over 100 entries at a port, link up new

	entry of the port will not display the value of SFP RX.
MAC Address Table / LLDP	Modify LLDP packet will not be learnt on MAC address table, and it will not be dropped by RSTP/Fast Ringv2 blocked port.

## Firmware Version 1.10.07

Date: 2021/06/25

New Feature / System Release	Description
Port Link Flap / SNMP	Support can get the port flap counter for all ports via SNMP.
Update	Description
DHCP	When DHCPv6 client get IP, and then disable IPv6, DUT should send out release packet, but actually not.
DHCP	When DHCP client get IP, and disable IPv4, DUT may not send out release packet and always get IP again.
System	When the user executes the firmware copy, the fw_md5_chk.x file is still the md5 of the old firmware.
System	The distance on the SFP port information page shows an incorrect value. (Special SFP, SFP-31FC, LCS/1.25G/MM550m/85nm/D/T )
System Information	Add power status "N/A" of type and state on WEB GUI.

## Firmware Version 1.10.06

Date: 2020/12/17

New Feature / System Release	Description
N/A	N/A
Update	Description
Fast ring	Fixed that fast ring feature cannot use on trunk port.

## Firmware Version 1.10.05

Date: 2020/12/14

New Feature / System Release	Description
N/A	N/A
Update	Description
RSTP	Modify RSTP default value and config rules: < Original >





	<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.</li> </ul> <p>Config rule :</p> <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>
DNS server	Fixed that DNS will not work when syslog server set as URL.
Syslog server	Fixed that syslog server will not work when syslog buffer is full.
Fast redundancy / NTP	Fixed that when enable NTP, and doing topology change, the status of last change time & elapsed time is 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).
DHCP	Fixed the issue when in DHCP mode, device will send two DHCP discover packets when starting up.
Debug console	Fixed that login and terminal history's log will not send to debug console when syslog is enable.
System	Fixed the issue when enable ipv6 and LLDP port 1 will cause middle crash.
Restore configuration	Fixed the issue need long time to restore configuration file when configuration file has multiple VLAN config.

## Firmware Version 1.10.04

Date: 2020/07/06

New Feature / System Release	Description
N/A	N/A
Update	Description
SNMP / VLAN	Fixed the issue when set VLAN group to 1-4094 and will get specific SNMP OID failed (swh8021QTagVLAN, swh8021QTrunkVLAN).
SNMP / VLAN	Fixed that 8021QTrunkVLAN, 8021QPortVLANConfig will display incorrect entry.

## Firmware Version 1.10.03

Date: 2020/06/29

New Feature / System Release	Description
N/A	N/A
Update	Description
Syslog	Fixed that syslog is show incorrect warm-reload message.
Syslog server	Fixed that syslog server will crash when sending more than 1000 logs.
CLI / Static Mac address	Fixed that count is incorrect when show static mac address table.

## Firmware Version 1.10.02

Date: 2020/06/18

New Feature / System Release	Description
N/A	N/A
Update	Description
Syslog server	Fixed that when enable terminal history and port link up and down, sysylog server will crash..
Web / Firmware upgrade	Fixed that when doing firmware upgrade, GUI will pop out “upgrade firmware init” message.

## Firmware Version 1.10.01

Date: 2020/06/17

New Feature / System Release	Description
Public MIB	Support dot1dTpFdbTable.
Update	Description
Event Log	Disable Event Log Saved feature.
VLAN translation	Fixed the issue when VLAN translation rule full, CLI will pop out incorrect error message.
Web / port isolation	Fixed that after setup, click ”ok” button, GUI will not display anything.
Public MIB	Fixed that when MAC table have 16000 records, show MAC is empty.

## Firmware Version 1.10.00

Date: 2020/06/01

New Feature / System Release	Description
Web / Fast Redundancy Status	Add information as below:



	<ol style="list-style-type: none"> <li>1. Auto refresh button</li> <li>2. Topology Change Status</li> <li>3. Fast Redundancy Statistics</li> </ol>
SNMP / Fast Redundancy Status	Add Fast Redundancy Statistics.
Port Link Flap	Add Port Link Flap feature.
Port Link Flap Log	Add some information as below: <ol style="list-style-type: none"> <li>1. Local Time</li> <li>2. Total Port Flaps counter</li> <li>3. When Flapped</li> <li>4. Status Duration</li> <li>5. SFP RX Power(dBm)</li> </ol>
Warm Reload	Add Warm Reload feature.
Restore Configuration	"Restore configure file" can understand 'Unix', 'MAC' and 'Windows' format of jump line. (Before only can understand 'Unix' and 'Windows')
Reset Default	Add reset default function as below: <ol style="list-style-type: none"> <li>1. Reset all</li> <li>2. Expect IP</li> <li>3. Expect event log</li> <li>4. Expect IP and event log</li> </ol>
Static MAC Address / CLI	Support can display static MAC configure with specific port.
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) and alarm of snmp trap & syslog message.
CPU & Memory Statistics status	CPU Loading support to display with Usage (%).
SNMP	Support SNMPv3 functions.
SSH and Telnet	Support can use SSH and Telnet service at the same time. (Each support Max. 5 sessions)
System	Add blocking firmware downgrade feature.
Update	Description
Security Configuration / MAC	Modify when MAC limit action was drop, at this moment the status will



Limiters	display "--", not "Unlocked".
Event Log	Modify display sequence of lists (Top one is the newest)
HW Reset button	<p>Modify behavior of Reset Button (Status LED):</p> <p>[Original]</p> <p>[0~5 sec] Green light : No action</p> <p>[5~13 sec] Orange light : Reboot</p> <p>[13~20 sec] Orange light with blinking (0.5 sec on / 0.5 sec off) : Reset to supplier default</p> <p>[20~ sec] Orange light with blinking (0.1 sec on / 0.1 sec off) : Reset to factory default</p> <p>[New]</p> <p>[0~5 sec] Green light : No action</p> <p>[5~10 sec] Orange light : Reboot</p> <p>[10~20 sec] Orange light with blinking (0.5 sec on / 0.5 sec off) : Reset to factory default</p> <p>[20~ sec] Orange light with blinking (0.1 sec on / 0.1 sec off) : Reset to supplier default</p>
CPU Temperature Status	<p>Modify default of "Default High Temperature Threshold" and maximum of the parameter.</p> <p>Default value from 40 to 50.</p> <p>Maximum can input value from 60 to 70.</p>
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</p> <p>(3). PPPoE Configuration 、(4). Port Isolation</p> <p>(5). MAC Limiters 、(6). Loop Detection</p> <p>Modify button "Update" to "Refresh".</p> <p>(1). CPU and Memory Statistics 、(2). CPU Temperature Status</p> <p>(3). RSTP Bridge Overview 、(4). IGMP Snooping Status</p> <p>(5). IGMP Group Table 、(6). MLD Snooping Status</p> <p>(7). MLD Group Table 、(8). DHCP Snooping Table</p> <p>(9). MAC Limit Status 、(10). Layer 2 Protocol Tunnel Status</p> <p>(11). LLDP Status 、(12). Fast Redundancy Status</p> <p>Add "Refresh" button.</p> <p>(1). LACP Port Status 、(2). LACP Statistics</p> <p>(3). RSTP Port Status 、(4). RSTP Statistics</p> <p>(5). 802.1X Port Status 、(6). 802.1X Statistics</p> <p>(7). Loop Detection Status</p>



Syslog Message	When user reboot, login and logout can take User IP/Account for record.
Port Packet Error Statistics(Rate/Event)	Rename "RX Oversize Frames" to "RX Oversize(1518 Bytes) Frames".
MAC Limiter	Modify max range from 0-50 to 1-50 (Default = 1).
Port Configuration	Fixed that if input include symbol ',' to port configuration description will cause the character behind the symbol has disappeared.
Sticky MAC Address	Fixed that when enable and learn some sticky mac, manual to input new static mac will cause other sticky mac auto change to manual.
SSH	Fixed that when enable IP source binding, SSH will disconnection.
CLI / VLAN	Fixed that Dot1q tunnel ether type is show more special symbol":'".
CLI / ACL rate limit	Fixed that when input value from 1 to 15, DUT will not pop fail message.
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.
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.
Static IP Table Configuration	Fixed that Static IP table cannot set to IPv6 multicast IP, should be reject.
LLDP	Fixed that LLDP cannot display port 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.
DHCP snooping	Fixed the issue when DHCP snooping enable, then execute Test-Unrecognized Next Header in IPv6 Header (Multiple Values) will cause device reboot.
System / Memory	Fixed the issue when the interface link down then link up, it will make internal system wrong and cause memory leak.
LLDP	Fixed that when enter the "\$" symbol in the port description field to observe that the LLDP packet cannot be displayed correctly.
Front Console LED	Update front console LED behavior.



	Device boot-up initial stage: Console port had connected Terminal enabled : Off Light Terminal disabled : Off Light Console port without connected : Off Light Device Ready: Console port had connected Terminal enabled : Light Green Terminal disabled : Off Light Console port without connected : Off Light
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## Firmware Version 1.00.1E

Date: 2019/05/07

New Feature / System Release	Description
N/A	N/A
Update	Description
Loop Detect Issue	Fix kernel code issue

## Firmware Version 1.00.1D

Date: 2019/05/03

New Feature / System Release	Description
N/A	N/A
Update	Description
ARP Issue	Fix ARP issue, switch cannot response some ARP packets
IPv6 DUID Issue	Fix IPv6 wrong DUID information
SNMP Trap Destination	Cannot be set multicast IP address in SNMP trap destination
Memory Issue	Fix memory crashed issue

## Firmware Version 1.00.1C

Date: 2019/03/14

New Feature / System Release	Description
Maximum Telnet/SSH session	Modify maximum telnet/SSH session from 4 to 5
Update	Description



L2PT Tunnel	Fix L2TP tunnel issue, cannot remove VLAN tagged in L2PT tunnel
MIB File	Fix SNMP MIB issue, get event log via SNMP, about mac limits threshold message's event field was incorrect
Port Status	1-Fix issue port status cannot update status after enable/disable port over 1000 times 2-Fix issue, port status cannot works normal after use “shutdown” & “no shutdown” command in CLI

## Firmware Version 1.00.1B

Date: 2019/03/05

New Feature / System Release	Description
Sticky MAC Address	Auto add dynamic MAC address to static MAC address when enable sticky MAC address
Copy Image	Copy current running image to back image
Fast Ring v2	Support fast ring v2 & chain protocol and recovery time < 50ms
Device Power On Trap	Add “System Power Up” SNMP trap when device power on
Update	Description
CLI Connection	Fix CLI issue, cannot use SSH and telnet has wrong connection session, when configure device with console port and disable/enable CLI managed function
LACP	1-Fix web page link aggregation distribution rule item arrangement does not match CLI and SNMP. 2-Modify the CLI command, channel-group lacp role [active   passive]
LLDP	Fix LLDP issue will not work after reboot device
SFP	1-SFP State unit of TX/RX Power display wrong, current is dbm, should be dBm 2-modify voltage display of SFP in SNMP
SNMP Trap	Fix SNMP cannot send “power down” trap when disable SNMP trap destination
VLAN Translation	VLAN translation can't work when DHCP snooping enable with DHCP mode
DHCP Client	Fix DHCP client issue, switch will send incorrect management IP address if switch in DHCP mode.
NTP	Fix NTP issue, switch cannot send NTP packet when use IPv6 address in NTP server

## Firmware Version 1.00.1A

Date: 2018/08/10



New Feature / System Release	Description
N/A	N/A
Update	Description
QoS / Rate-Limit	Fixed that when enabled DHCP Snooping will cause QoS Rate-limit not working.
VLAN Translation	Update VLAN Translation can set from 20 rules to 44.

## Firmware Version 1.00.19

Date: 2018/05/24

New Feature / System Release	Description
N/A	N/A
Update	Description
Counter	Fixed that counter rate display wrong value with Traffic, Error, Analysis issue.
MAC address	Fixed that searching the MAC address can't work fine.
MAC address	Fixed that MAC address table is not the same with WEB page and CLI.

## Firmware Version 1.00.18

Date: 2018/05/23

New Feature / System Release	Description
N/A	N/A
Update	Description
System	Modified the default value of CPU Loading Threshold to 850 from 300.
SNMP	Fixed that IPv6 link-local address and global-address prefix can't be set issue.
Syslog	Fixed that the syslog message and the event log message for "fan fail" are incorrect issue.
WEB	Fixed that the word of "IEEE 802.1q Tag VLAN Table" on WEB is error.
SNMP	Fixed that management vlan can't be set issue via SNMP.
MAC	Fixed that the MAC address can't show the dynamic MAC addresses which it learns.
SNMP	Fixed that L2PT can't work fine issue.
Syslog	Fixed that if the CPU Temperature Trap is disabled, DUT can't send the





	CPU Temperature syslog messages to the syslog server issue.
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## Firmware Version 1.00.17

Date: 2018/05/22

New Feature / System Release	Description
N/A	N/A
Update	Description
CLI	Fixed that the CLI can't accept the IP address whose last byte is 0 for IP source binding.
CLI	Fixed that when enter "show running-config" or "backup config", the FW version always display image-1 version, even current is image-2.
CLI	Modified that when enter "show archive auto-backup", it should be able to show the "backup state" field and the "File Name" field.
Auto-Backup	Fixed that the backup state shows incomplete information issue when the auto-backup succeeds.
Auto-Backup	Fixed that the "backup state" field of auto-backup function does not have to show "auto backup initial".
DHCP	Fixed that packets of DHCP Client with Windows OS will not forward to DHCP server when enable DHCP snooping.
MAC address	Fixed that the mac address manual setup not check the format, the format should be the multicast only.
Syslog	Fixed that when use CLI to show syslog, the facility doesn't show "local" word.
Tacacs	Fixed that when enter "no user tacacs tacacs-port" via CLI, expect default is 49 instead of 1812.
Configuration Backup	Fixed that to create a backup config file. The first line of the backup config file is incorrect.
Configuration Backup	Fixed the config of CPU temperature status can't be backed up successfully.
L2PT	Fixed that L2PT function does not work.

## Firmware Version 1.00.16

Date: 2018/05/17

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.
WEB	Added that support CPU temperature function and alarm message.
Update	Description
DHCP	Fixed that setup IPv6 static ip fail issue when Change IPv6 DHCP mode to static mode.
SNMP	Fixed that SNMP can't change the VLAN dot1q tunnel ethertype of DUT.
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, snmp will pop unsuccessful. But, actually set success.
NTP	Modified that the NTP can't work fine for daylight saving time issue.
System	Modified that it can't login to DUT when use IPv6 global address.
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.
WEB	Fixed that the web page for the MAC address table should automatically update when users configure the VLAN table.

## Firmware Version 1.00.15

Date: 2017/10/24

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 fulls
Trap	Fixed that power 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.
System	Fixed that it can't be logged in DUT when use IPv6 global address.
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.
QoS	Fixed that QoS 802.1P remarking can't work.
MAC	Fixed that Lower layer size of static mac address is does not matching to the number of upper layer is 128.
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.
Auto-Backup	Fixed that DUT won't automatically update issue.
Tacacs	Fixed that the Tacacs configuration can only be modified by SNMP for no more than one row each time.
IGMP	Fixed that IGMP client port with LACP or port trunking will cause IGMP stream can't forward to client port.
IP address	Fixed that it can't set any IP address ending with .255 issue.

## Firmware Version 1.00.14

Date: 2017/04/17

New Feature / System Release	Description
N/A	N/A
Update	Description
WEB	Fixed that WEB can't configure CLI and WEB timeout issue.

## Firmware Version 1.00.13

Date: 2017/04/13

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.
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.

## Firmware Version 1.00.12

Date: 2017/03/01

New Feature / System Release	Description
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.
Update	Description
User Authentication	Modify all UI about MD5 hashed password title/command/desc.
WEB	Modify to remove the display of ip address in user log function within SSH mode
HTTP firmware upgrade	Fixed that use HTTP to do firmware upgrade and backup/restore config fail.
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.
Syslog	Fixed if enable the terminal history function and access DUT from SSH. The syslog messages sent by the switch are incorrect.
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.

## Firmware Version 1.00.11

Date: 2016/12/07

New Feature / System Release	Description
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 Address Table	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>
System check	If firmware upgrade fail ( kernel partition damage) then image version number on UI will display empty.
PPPoE server trust ports	Add new feature / PPPoE server trust ports
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
System Service	WEB UI / SSH service take out of drop down menu.
Security Configuration	Rename “Filter configuration” to “DHCP Snooping”.
Syslog Configuration	Rename “Mal-attempt Log configuration” to “Syslog Configuration”.
IGMP Snooping	Rename “IGMP/MLD snooping v3” to “IGMPv3/MLDv2 snooping”.
RSTP	Modify RSTP default config: System Priority from 4096 to 32768.



	Port Priority from 0 to 128.
DHCP Snooping / Option 82	Modify CLI set option 82 formatted commands Is “ip dhcp snooping remote formatted” instead of “ip dhcp snooping formatted”.
SNMP	Modify SNMP if-MIB (ifDescr / iName / ifAlias) display incorrect info.
Switch Port Status	Add show port description info.
IP Source Binding	Fixed that after enable IP source binding then cannot access DUT from front console port.
Configure file	Fixed that 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(manual/auto-provision).
Syslog	Fixed that DUT can't send syslog packet.
DHCP Snooping	Fixed that DHCP packet can't forwarding when enabled DHCP snooping.

## Firmware Version 1.00.10

Date: 2016/06/03

New Feature / System Release	Description
TACACS+	Support user authentication “TACACS+”
User authentication method	Support user authentication method MD5 hashed password function
System	Rewrite the process to avoid the issues of linux system or busybox
System	Auto-reboot system in case of out of memory suddenly
Update	Description
VLAN QinQ	CLI add commads about VLAN QinQ
LLDP	CLI modified show LLDP information title
ACL	CLI add command “action permit”
QoS	Fixed that access mode(User Priority) will only marking P-Bit and send out but QoS not work.
LED	Fixed that when Plug SFP-20TP/SFP-30TP WEB panel LED will blink show link-up even if not plug network line.
LED	Fixed that 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
Port link	Fixed that 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
FTP firmware upgrade	Fixed that UI use FTP to do firmware upgrade but only input user name without input password then upgrade will fail.
Backup Configure	Fixed that when enable loop-detection and detect port, and then backup configure, the configure file loop-detection function was disable.
CLI	Fixed that CLI can't set command "acl ingress-port any" successfully
CLI	CLI remove "quit" command.

## Firmware Version 1.00.0Z

Date: 2016/02/02

New Feature / System Release	Description
DHCP Option 82	DHCP OPT 82 Formatted function and related CLI
Update	Description
MLD Snooping Status	Change all UI "V2 Done" to "Done" in MLD Snooping Status table
MAC limit	Fixed MAC limit issues with wrong procedure
IGMP Snooping	Fixed IGMP snooping malfunction when receive IGMPv3 packet with illegal value (number of group record)
Copper port	Fixed the wrong status when change the port status
QinQ Vlan Configuration	Fixed the wrong behavior with error when ether type is 0X8100
IGMP Snooping	Fixed that when enable IGMP snooping and reboot the IGMP join packet can't pass through to server port.
DHCP	Fixed that DUT will have multiple dhcp clients when restore and enable DHCP configuration file
CLI	Fixed that the command "acl action permit" can't be entered

## Firmware Version 1.00.0Y

Date: 2016/01/13

New Feature / System Release	Description
N/A	N/A
Update	Description
MAC limit	Fixed MAC limit issues with wrong procedure





## Firmware Version 1.00.0X

Date: 2016/01/11

New Feature / System Release	Description
N/A	N/A
Update	Description
MAC limit	Fixed MAC limit issues with wrong procedure
DHCP Option 82	Fixed that it will fail when enable too much option 82 circuit port at the same time on web
Event Log	Fixed that when firmware upgrade error then event log will show invalid ip address

## Firmware Version 1.00.0W

Date: 2016/01/05

New Feature / System Release	Description
MAC limit	MAC limit per port in WEB and CLI
IGMPv3	Enable or Disable IGMPv3 function
Update	Description
Power Down trap	Modify that the power down trap send traps from 3 times/1min to 3 times/ 1 sec
IGMP Snooping	Fixed IGMP snooping malfunction when receive IGMPv3 packet with illegal value (number of group record)
ACL	Modify the related command about ACL function in CLI
MAC address table	Fixed that 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	Fixed that CLI/WEB/SNMP can't set broadcast MAC address in Static MAC address table.
IP address Table	Fixed that the entry in the Static IP Table Configuration can't be deleted by the telnet command
SNMP	Fixed that SNMP can't add IPv4 address into DHCP Snooping table.
802.1X	Fixed that The 802.1X statistics table can't be updated.
RSTP	Fixed that RSTP port can't be blocked when related port enable again and sent 1 pps packet from other port



## Firmware Version 1.00.0V

Date: 2015/11/17

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

## Firmware Version 1.00.0U

Date: 2015/11/17

New Feature / System Release	Description
N/A	N/A
Update	Description
Port Counter	Improve refresh port counter rate times
Switch Configuration	Modified the default configuration about "Statistics Polling Interval /Statistics Polling Ports" from 5 secs/5ports to 6 secs/12 ports
CLI	Fixed the command " <b>no ip sourceguard static-ip</b> " can't work

## Firmware Version 1.00.0T

Date: 2015/10/30

New Feature / System Release	Description
N/A	N/A
Update	Description
ACL	Make user configure ACL IPv4 source IP or Destination IP must in index
IGMP Snooping	Fixed IGMP snooping malfunction when receive IGMPv3 packet with illegal value (number of group record)



## Firmware Version 1.00.0S

Date: 2015/10/29

New Feature / System Release	Description
N/A	N/A
Update	Description
ACL	Fixed when config ACL “IPv4 source IP” and “IPv4 Destination IP” UI are not verify input IP address is validity or not.
IGPM Snooping	Fixed after restore config ,IGMP vlan setting will become default
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.
IGMP Snooping	Fixed IGMP snooping malfunction when receive IGMPv3 packet with illegal value (number of group record)

## Firmware Version 1.00.0Q

Date: 2015/10/23

New Feature / System Release	Description
N/A	N/A
Update	Description
IGMP snooping	Fixed IGMP snooping table suddenly empty issue.  Fixed when receive the same multicast channel join/leave from client port at the same time , it will cause the watch the same multicast channel's STB picture freezes.

## Firmware Version 1.00.0P

Date: 2015/10/15

New Feature / System Release	Description
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N/A	N/A
<a href="#">Update</a>	<a href="#">Description</a>
DHCP option 82	Fixed DHCP option 82 circuit-ID first byte value from “01” modify to “01”
IGMP snooping	Fixed IGMP snooping table suddenly empty issue.
DHCP option 82	Fixed WEB UI cannot show default DHCP option 82 remote-ID with MAC address issue.

## Firmware Version 1.00.0N

Date: 2015/10/05

<a href="#">New Feature / System Release</a>	<a href="#">Description</a>
N/A	N/A
<a href="#">Update</a>	<a href="#">Description</a>
IGMP snooping	Modify IGMP configuration “query response interval” value range from 1-6000 (1/10sec) to 1-255 (1/10sec)
IGMP snooping	Add IGMP configuration “query interval” parameters should bigger than “query response interval” parameters rule.
IGMP snooping	Change IGMP “query interval” default setting to be 125 sec
IGMP snooping	Change IGMP “query response interval” to 100 (1/10sec).
IGMP snooping	Fixed when configure IGMP query interval parameters over 256 sec , it will cause the parameters reset from “0” Ex: 256 seconds becomes 0, 257 becomes 1 etc.....
IGMP snooping	Fixed in WEB UI shows wrong query “response” interval string
STP,RSTP,LLDP,LACP	Fixed STP RSTP , LLDP , LACP cannot work on port-33-44.
DHCP option 82	Fixed DHCP option 82 when manual configure remote and circuit ID it will have wrong content format.
SSH	Fixed SSH function cannot work

## Firmware Version 1.00.0M

Date: 2015/10/05

<a href="#">New Feature / System Release</a>	<a href="#">Description</a>
MAC address table	CLI add new commands “show mac address table all” and “show mac address table top”
<a href="#">Update</a>	<a href="#">Description</a>
MAC address table	UI show MAC address in uppercase
MAC address table	Change CLI show MAC address table “VID” and “MAC” field location. (exchange VID and MAC filed location)
Combo port interface (port 45-48)	Fixed when combo port set to fiber then save config and reboot. It will cause port LED not blink when link up.



Network configuration	When change device IP address form DHCP to static IP, device cannot use the static IP to access.
Event log	Fixed in CLI UI event log will cut long message character issue.
Traffic forwarding	Fixed When enable IGMP snooping and DHCP snooping it will cause port 33 cannot forward DHCP offer packets and IGMP control packets.

## Firmware Version 1.00.0L

Date: 2015/8/21

New Feature / System Release	Description
N/A	N/A
Update	Description
Port isolation	Fixed Restore config port-isolation can not work successfully
CLI	Improve CLI “reload” command.
SFP port	Fixed some specified SFP transceiver cannot link up issue.

## Firmware Version 1.00.0K

Date: 2015/08/18

New Feature / System Release	Description
N/A	N/A
Update	Description
Port isolation	CLI cannot set port isolation config.

## Firmware Version 1.00.0J

Date: 2015/08/17

New Feature / System Release	Description
N/A	N/A
Update	Description
Port isolation	port-based vlan group name on UI from “Port Name” change to “Name”.
Port isolation	WEB UI port isolation page from “VLAN configuration” move to “Security Configuration” page.
Port isolation	CLI add new command “security port-isolation”



	“security port-isolation up-link-port” “show security port-isolation”
Loop detection	Fixed When loop happened the event log not show the complete event log message. eg.. some characters may be cut off.
IPv6	Fixed When use IPv6 with FTP protocol to upgrade firmware or auto-provision , it will unsuccessfully.
Loop detection	Fixed loop packet from other device under management VLAN would not block.
Loop detection	When port looped the loop detection cannot successfully lock port when it connected to another FOS-3148 loop detection enable port.

## Firmware Version 1.00.0I

Date: 2015/08/3

New Feature / System Release	Description
N/A	N/A
Update	Description
Port isolation	Improve Port based vlan must at least one index includes CPU port.

## Firmware Version 1.00.0H

Date: 2015/07/31

New Feature / System Release	Description
N/A	N/A
Update	Description
Port isolation	Add CPU can be include when configure Port Based VLAN.

## Firmware Version 1.00.0G

Date: 2015/07/24

New Feature / System Release	Description
N/A	N/A
Update	Description
SNMP	Fixed SNMP trap, event log and syslog display loop detection status words length over permissible range



## Firmware Version 1.00.0F

Date: 2015/07/24

New Feature / System Release	Description
N/A	N/A
Update	Description
VLAN	Fixed when Management VLAN port only trunk mode , after output config file it will lose Management port setting.

## Firmware Version 1.00.0E

Date: 2015/07/22

New Feature / System Release	Description
N/A	N/A
Update	Description
Telnet	Fixed Telnet timeout cannot set to disable.
Config restore	When device restore a config file with incorrect VLAN command content. It will cause device restore process fail.
SNMP	Fixed when receive get-next-request OID is 1.3.6.1.2.1.17.4.2.0(dot1dTp aging time) will cause SNMP service disable.-

## Firmware Version 1.00.0D

Date: 2015/07/17

New Feature / System Release	Description
System	New add show CPU utilization and memory usage rate function. CLI : Switch# show switch-info cpu-mem-statistic
Update	Description
Loop detection	Behavior change : 1.Looped port from “port shutdown” change to listening 2.Looped port LED will blink at a cycle of 2-second period (Orange



	light flash) 3.Unblock looped port situation under the looped port not receive loop detection packet.
Telnet	CLI can support maximum 4 sessions at the same time
SNMP	Increase device response SNMP port status and counter speed.
Port isolation	Separate Port based VLAN and VLAN isolation config
DHCP option 82	Fixed CLI cannot enter 63 characters in DHCP option 82 remote ID and circuit ID
IGMP/MLD snooping	Fixed IGMP/MLD VLAN ID cannot enable “snooping” and “Querying” function

## Firmware Version 1.00.0C

Date: 2015/06/05

New Feature / System Release	Description
N/A	N/A
Update	Description
System	Fixed after restore config then reboot , device will change to default setting
SFP port	When plug-in 100M UTP (RJ-45) type SFP, the link LED shows link-up (light) without connected UTP cable.
SNMP	Power down trap source IP are wrong

## Firmware Version 1.00.0B

Date: 2015/05/26

New Feature / System Release	Description
N/A	N/A
Update	Description
System	When save config will lead to CLI can not access.

## Firmware Version 1.00.0A

Date: 2015/05/04

New Feature / System Release	Description
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Firmware upgrade	WEB UI support HTTP firmware upgrade and config restore.
Update	Description
SNMP	Speed up show MIB counter.
SNMP	Fixed device not sent “cold-start” trap.

## Firmware Version 1.00.09

Date: 2015/05/04

New Feature / System Release	Description
N/A	N/A
Update	Description
MAC address table	Improve MAC address aging time can config up to 172800 seconds
System information	Improve FAN status display on show system information.
DHCP	Fixed device boot up and send DHCP DISCOVER packet before port link up.
System	Fixed when SFP slot insert Copper port SFP without link up , port of LED will show green light.
MAC address	Fixed show MAC address table by port will cause error.
SNMP	Fixed SNMP will send battery “Charge “ , “Discharge” trap twice.

## Firmware Version 1.00.08

Date: 2015/3/30

New Feature / System Release	Description
N/A	N/A
Update	Description
DHCP auto-provision	Fixed after device load to default factory setting , DHCP auto-provision cannot success update config file

## Firmware Version 1.00.07

Date: 2015/3/30



New Feature / System Release	Description
N/A	N/A
Update	Description
SNTP	Fixed show SNTP status typo “STNP”
SNMP	Fixed SNMP statistics polling interval time cannot set to 60 seconds.

## Firmware Version 1.00.06

Date: 2015/3/23

New Feature / System Release	Description
DHCP Snooping	Add DHCP option82 circuit and remote ID value can be manual configuration.
Update	Description
WEB UI	Fixed MAC address table no shows update information when press “Next” or “Top” button twice.
WEB UI	Fixed Port 25-28 when do port shutdown still shows link up status
SNMP	After device restore config and reboot , the SNMP can not modify any setting.
Default gateway	Allow default gateway IP can configurable to 0.0.0.0 IP address.
SNMP	Fixed SNMP allow config port under 1000M speed can working on half duplex mode.
Loop detection	Fixed loop detection did not correct block loop port.
LLDP	Fixed LLD system-name will lose config setting after device reboot.
LLDP	Fixed When config LLDP system-name over 55 characters it will overwrite LLDP system-description config characters.
Q-in-Q	Fixed Q-in-Q ISP port will not add S-tag under following situation. a.Q-in-Q client port enable DHCP snooping receive DHCP packet. b. IGMP control packet outgoing from Q-in-Q ISP port snooping enable when outgoing from Q-in-Q ISP port IGMP control packet
IGMP snooping	Fixed IGMP group table show empty value, when it receive IGMP join packet that out of 224~239.x.x.x multicast IP rage.
IGMP snooping	Fixed IGMP group table cannot remove 227.1.1.10 multicast group when it does not receive any IGMP join anymore.
Port counter	Modified port counter oversize packet as ‘over Max byte’.

## Firmware Version 1.00.05

Date: 2015/3/12

New Feature / System Release	Description
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N/A	N/A
<a href="#">Update</a>	<a href="#">Description</a>
System	Fixed when show 802.1x port status via SNMP , it will cause device slowly response SNMP polling and CLI malfunction.
WEB UI	Fixed ACL configuration page in WEB UI without delete button.
WEB UI	Improve ACL configuration page in WEB UI display.
IPv6	Solicit and Request not included DHCP vendor ID in DHCPv6 option on default value , but after change ID will include.
ACL	Improve ACL rule port deny ingress and permit behavior.
LLDP	Fixed LLDP cannot shows IPv6 address.

## Firmware Version 1.00.04

Date: 2015/3/07

<a href="#">New Feature / System Release</a>	<a href="#">Description</a>
N/A	N/A
<a href="#">Update</a>	<a href="#">Description</a>
Layer 2 BPDU packet filter	Fixed when enable layer 2 BPDU packets filter cannot filter LLDP packets.
Q-in-Q	Allow Q-in-Q ISP port can pass through Single Tag VLAN traffic.
IGMP snooping	Fixed When enable multiple VLAN on IGMP groups , it will cause snooping client cannot received IGMP query.

## Firmware Version 1.00.03

Date: 2015/3/07

<a href="#">New Feature / System Release</a>	<a href="#">Description</a>
N/A	N/A
<a href="#">Update</a>	<a href="#">Description</a>
WEB UI	Improve WEB UI Switch panel renew frequency.

## Firmware Version 1.00.02

Date: 2015/3/05



New Feature / System Release	Description
N/A	N/A
Update	Description
System	Fixed when IGMP snooping features enable for a period of time , device will automatically reboot.
IP source guard	Fixed when IP source guard enable and config to dhcp mode, it will cause the clients cannot get IPv6 address from DHCP server.

## Firmware Version 1.00.01

Date: 2015/1/23

New Feature / System Release	Description
N/A	N/A
Update	Description
N/A	N/A
RSTP	Reduce system resource usage when enable RSTP feature.
Packet forward	Fixed DHCPv6 cannot send SOLICIT packet.
IPv6	Fixed IPv6 global address will invalid when save config and reboot.