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Zyxel GS2210 series V4.50(Axxx.2)C0

Release Note/Manual Supplement

Date: Feb. 27, 2018

This document describes the features in the GS2210 series product for its V4.50(Axxx.2)C0 release.

Support Models:

- Zyxel GS2210-48HP
- Zyxel GS2210-48
- Zyxel GS2210-24HP
- Zyxel GS2210-24
- Zyxel GS2210-24LP
- Zyxel GS2210-8HP
- Zyxel GS2210-8

Version:

Model	Firmware Version	Boot Version
Zyxel GS2210-48HP	V4.50(AAHW.2) | 02/27/2018	V1.05 | 12/19/2013
Zyxel GS2210-48	V4.50(AAHV.2) | 02/27/2018	V1.05 | 12/19/2013
Zyxel GS2210-24HP	V4.50(AANE.2) | 02/27/2018	V1.00 | 12/18/2013
Zyxel GS2210-24	V4.50(AAND.2) | 02/27/2018	V1.00 | 12/18/2013
Zyxel GS2210-24LP	V4.50(ABEO.2) | 02/27/2018	V1.00 | 04/14/2016
Zyxel GS2210-8HP	V4.50(AASQ.2) | 02/27/2018	V1.00 | 07/22/2014
Zyxel GS2210-8	V4.50(AASP.2) | 02/27/2018	V1.00 | 07/22/2014

Enhanced Features:

V4.50(Axxx.2)C0:

1. VLAN mapping
2. DHCP Auto configuration
3. CLV Command
4. NTP Server supports DNS format
5. Enhanced dual image resilience
6. SHA2
7. Loop guard enhancement
8. Show IPv6 socket
9. Logout all current user access after changing the device management IP
10. Display port utilization
11. Use [Ctrl+C] to escape when executing "show running config, show log"
12. Time sync (NTP) over IPv6
13. Cable diagnostic MIB
14. Syslog setup for IPv6 and UDP port
15. ZDP v1.8.3
16. Time stamp for save configuration
17. POE default mode change to consumption mode, and the default config will show consumption mode setting.(POE model only)
18. Web login warning page
19. 802.1x EAPOL flooding
20. IGMP snooping leave-proxy
21. Custom Default configuration
22. Smart fan (designed to automatically adjust speed based on device temperature)
23. Improve the bandwidth control accuracy under lower rate, especially for ISP application
24. Enhanced GUI with new Zyxel logo
25. Avoid multicast group cannot be added while mac collision happens

Bug Fix:

V4.50(Axxx.2)C0:

1. eITS#151100702
   [DHCP] When switch enable ARP inspection and DHCP snooping, it will cause DHCP packets be flooded to other ports.
2. eITS#151200455/ 170200710
   [LLDP] particular Cisco IP phone may release IP (DHCP mode) after every 180 seconds.
3. eITS#151201303
   [SNMP] SNMP GETBULK produces incorrect results when max-repetition is set greater than 55.
4. eITS#160101145
   [EAPOL] The switch cannot flood the EAPOL packets when 802.1x is disabled.
5. eITS#160200247
   [Log] Displayed port speed value is triple the actual speed for both TX and RX.
6. eITS#160300698
   [VLAN] Partial configuration loss occurs after configuring private VLAN via web GUI and rebooting switch.
7. eITS#160501171
   [MSTP] Switch cannot forward IGMP query when using MSTP.
8. eITS#161000919
   [WEB] Web GUI session does not timeout properly if user does not close the browser.
9. eITS#170100698
   [RSTP] The switch cannot auto adjust RSTP path cost according to the port speed.
10. eITS#170300428
    [PING] Switch has high ping latency periodically due to the routine runtime task.
11. eITS#170400423
    [BOOT] No longer boot up after firmware uploaded. (Only for GS2210-24LP)
12. eITS#170500473
    [MGMT] Prevent unexpected reboot caused by Avast antivirus software.
13. eITS#170500522
    [ACL] The switch may reboot unexpectedly after changing the current settings of classifiers.

14. eITS#170500863
    [SYSTEM] Switch may encounter unexpectedly reboot under a large IP network environment.
15. eITS#170600557
    [IGMP] Floods an IGMP query every time when switch receives an IGMP Leave.
16. eITS#170801018
    [SNMP] Sometimes SNMP agent returns incorrect gateway MAC address.
17. eITS#170900439
    [POE] Switch does not provide PoE power when the time range is very closed to NTP synctime.
18. eITS#171000095
    [SNMP] The SNMP ifHCInOctets/IfHCOutOctets(counter 64) cannot count exceed 2^32.
19. eITS#171000116
    [SNMP] Operator cannot modify the syslog server level via SNMP while Syslog server is activated.
20. eITS#171200272
    [IPSG/Port Security] Client traffic is unexpectedly discarded after MAC address aging time when IPSG and port security are enabled.
21. eITS# 180100999
    [Maintenance] Switch may miss configuration if upgrades to new firmware.
22. eITS# 180200048
    [WEB] Web GUI may display Syntax error when restoring configuration.
23. **[MGMT]** Enhance the UX with MacBook by changing the ASCII of the backspace to follow the industrial standard.
24. **[WEB/CLI]** Switch can't be managed via WEB/CLI smoothly when there are a lot of broadcast/multicast traffics in the network environment.

Known Issue:

1. **[Bandwidth Control]** Ingress rate limit of TCP traffic might have inaccuracy with some criteria.
2. **[Security]** Fake IP traffic cannot be filtered when a static IP binding existed.
3. **[DIAG]** The cable length resolution of Cable Diagnostic is about +-15 meter.
4. **[DIAG]** The fault distance of Cable Diagnostic is less than 1 meter without cable inserted.

5. **[MGMT]** GS2210 is cluster manager and the cluster member won't upgrade firmware via FTP if firmware size over than 4.8MB.
6. **[BPDU Guard]** Port status inconsistent when enable BPDU Guard on one port then enable link aggregation.
7. **[ZULD]** Switch doesn't receive OAM packet from neighbor device but the ZULD status keep at "Probe" status when enable error recovery.
8. **[VLAN]** The incoming traffic from specific port that does not match VLAN Mapping cannot be dropped.

Limitation of Settings:

1.	802.1Q Static VLANs	1K
2.	Static MAC forwarding entry	256
3.	MAC filtering entry	256
4.	Cluster member	24
5.	Protocol based VLAN entries per port	7
6.	Port-security max address-limit number	16K
7.	Syslog server entry	4
8.	IP source guard entry	512
9.	IP subnet based VLAN entry	16
10.	DHCP snooping binding table	16K
11.	Multicast group	1024
12.	ACL	256
13.	DHCP relay Entry	16
14.	Trunk groups	5 (8 ports)/ 14(24 ports)/ 16(48 ports)
15.	Per trunk group port number	8
16.	MSTP instance	0-15
17.	MAC-based VLAN	10(8 ports)/ 28(24 ports)/ 50(48 ports)
18.	Voice VLAN OUI entry	6
19.	ZON neighbor per-port maximum clients	10

Change History:

- V4.50(Axxx.2) | 02/27/2018
- V4.30(Axxx.0) | 09/07/2015
- V4.10(Axxx.0) | 10/03/2013

Firmware Upgrade:

The GS2210 series use FTP to upgrade firmware in run-time through its built-in FTP server. You can use any FTP client (for example, ftp.exe in Windows) to upgrade GS2210 series. The upgrade procedure is as follows:

C:\> ftp <GS2210 series IP address>
User : admin
Password: 1234
230 Logged in
ftp> put 450Axxx2C0.bin ras-0
ftp> bye

Where

- User name: the management user name, admin by default.
- Password: the management password, 1234 by default.
- 450Axxx2C0.bin: the name of firmware file you want to upgrade.
- ras-0: the internal firmware name in GS2210 series (store at first flash).
- ras-1: the internal firmware name in GS2210 series (store at second flash).

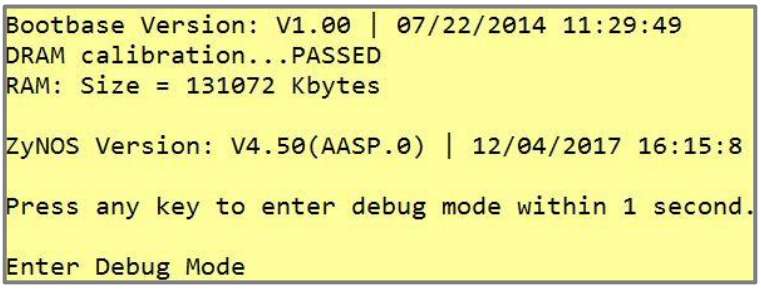
Reset switch to factory-default setting:

When users forget the login profile or password, they're unable to login the switch again. The only way to login to the switch is to reset the switch to default and use the default login profile and password to login.

Procedure to reset switch to factory-default login profile:

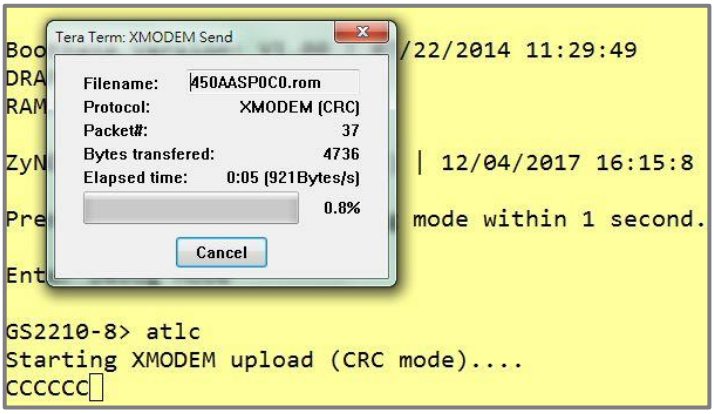
1. Connect the switch with a PC via console cable and set the baud rate as 9600.

2. Power on the switch and press any key to break the boot initiation when you see the log pattern as below:

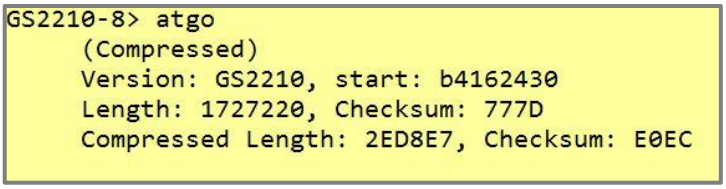


3. Type "atba 5" to set the switch console baud rate as 115200 and you need to configure the terminal program baud rate as 115200.

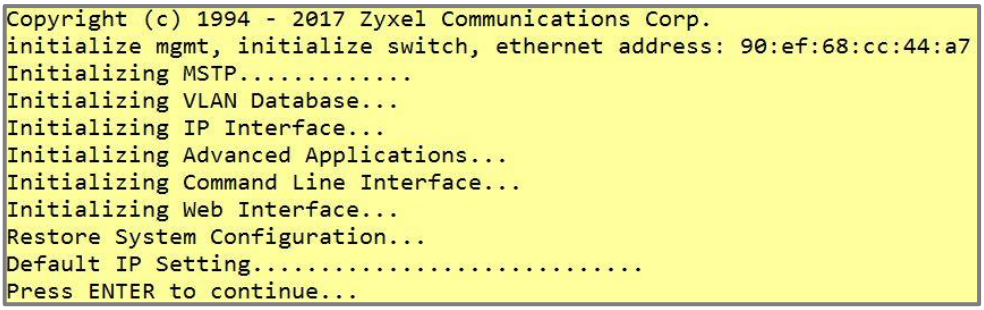
4. Type "atlc" and use XMODEM to send the latest ROM file. (File > Transfer > XMODEM > Send)



5. After re-loading the ROM file, please type "atgo" to reboot the switch. Then the switch's console baud rate will change to 9600.



6. Set your terminal program baud rate as 9600, and wait for boot initialization,



7. User can now login with default user-name and password.