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Firmware Release Note

ZyAIR G-1000

Release 3.50(HH.5)C0

Date: Aug 17, 2005
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ZyXEL ZyAIR G-1000 Standard Version release 3.50(HH.5)C0 Release Note

Date: August 17, 2005

Supported Platforms:

ZyXEL ZyAIR G-1000

Versions:

ZyNOS F/W Version : V3.50(HH.5) | 08/17/2005 13:48:10

Bootbase Version: V1.02 | 01/19/2004 15:04:00

Notes:

1. ZyAIR G-1000 is a country dependent product. Please setup correct country code before shipping.
2. uAP code is version 1.2.8.0.
3. G-1000 since v3.50(HH.3) support ROM convert to setup some default value. Note that please do not turn off the power when you upgrade new firmware to G-1000.

Known Issues:

1. After the station is disconnected from G-1000, the association list may not update immediately. The Wireless LAN card doesn't report disassociation event correctly.
2. SMT 24.6 "restore configuration" in platform S3C2510 is out of work.

CI Command List:

Features:

Modification in 3.50(HH.5)C0 | 08/17/2005

1. [FEATURE CHANGED]
Convert to FCS version.

Modification in 3.50(HH.5)b2 | 08/01/2005

1. [BUG FIXED]
Symptom: Different width of maintenance tags.
Condition: The widths of tags in eWC Maintenance are not the same.

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SPRID: 040329108

2. [BUG FIXED]
Symptom: No check time format for log.
Condition: eWC->Advance->logs->log setting, "Time for sending log" doesn't check if user key in correct time value.
SPRID: 050708423
3. [BUG FIXED]
Symptom: The representation of maximum system domain name length is different.
Condition: In Wizard the length is 30 chars; in System->General Setup the length is 32 and in SMT1 the length is 38.
SPRID: 050708427

Modification in 3.50(HH.5)b1 | 06/30/2005

1. [BUG FIXED]
Symptom: Disable WLAN, FreeQ error messages pop up.
Condition: Enter menu 24.8 and "wlan active 0", many error messages found in console as following.
"Error: Management FreeQ not enough entries, fragments: 0x01"
"Error: Management FreeQ not enough entries, fragments: 0x01"
2. [BUG FIXED]
Symptom: G-1000 WLAN interface will be down after working around 2 hours in their production network.
Condition: There are nine G-1000s, the WLAN interface goes off in turns. We still can access the AP via its Ethernet interface. The WLAN clients cannot find those APs by passive AP scanning. The APs cannot be accessed via Wireless and Ethernet media.
3. [BUG FIXED]
Symptom: G-1000 DHCP function can't work normally.
Condition:
(1) DHCP server (windows server) --- wired network --- G-1000 --- PC.
(2) If we set the IP address of the G-1000 AP to be in the same range as the DHCP network (10.1.99.x) then the PC will not get IP address
(3) If we leave the IP address to default (192.168.1.2) and the DHCP network is still the same (10.1.99.x) then there is no problem, we get DHCP address on the PC in very short time.
Note: The problem only happened when we change the settings by WEB GUI, if I change the settings by SMT menu, it works normally.
4. [FEATURE CHANGE]
Change Wireless ESSID from "wireless" to "ZyXEL".
5. [BUG FIXED]

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Symptom: Fragmentation Threshold should start from 800 bytes.

Condition:

- (1) In WEB GUI->wireless->wireless: the original boundary of fragmentation threshold is 256 ~ 2432, but the real boundary of wireless chip should be 800 ~ 2432.
- (2) In SMT 3.5, the same situation happened.

6. [BUG FIXED]

Symptom: Wireless station can pass the authentication and access network when enable accounting server that didn't exist.

Condition:

- (1) In WEB GUI->wireless->wireless: choose WPA or 802.1X for security.
- (2) Choose external RADIUS server.
- (3) Configure authentication server, and setting accounting server if need.
- (4) If accounting active is checked, but either the IP address or shared secret of accounting server or both are wrong. The wireless station can still pass the authentication and access network.

Modification in 3.50(HH.4)C0 | 08/02/2004

- 1 [FEATURE CHANGE]
Modify to FCS version.

Modification in 3.50(HH.4)b4 | 07/29/2004

1. [BUG FIXED]
Symptom: Traffic freeze while connection is still up after idle timeout in WPA mode.
2. [BUG FIXED]
Symptom: Station cannot connect to G-1000 successfully in the first time after station disable and enable network card.
Condition:
 - (1) Station connects to G-1000 with WPA-PSK mode.
 - (2) Station disables the wireless card.
 - (3) Station enables wireless card again.
 - (4) Station can only connect to G-1000 successfully in the second time.
3. [BUG FIXED]
Symptom: Station cannot connect to G1000 after running for several days.
Condition:
 - (1) Station connects to G1000.
 - (2) After about 5 days, stations can site survey G-1000, but cannot associate successfully.
4. [BUG FIXED]

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Symptom: Station with 802.1x+Dynamic key cannot connect to G1000 when the WPA mixed mode is enabled.

Modification in 3.50(HH.4)b3 | 06/04/2004

1. [BUG FIXED]
Symptom: Station cannot connect to G-1000 after roaming from other access point.
Condition:
 - (1) AP1 and AP2 connect to the same switch.
 - (2) Station first connects to AP1. AP1 than stop and station connects to AP2.
 - (3) AP1 is then started and AP2 is stopped, but the STA cannot connect with AP1 anymore.
2. [BUG FIXED]
Symptom: When more than two access points reboot at the same time, some access point will get the same IP address on WAN interface.
3. [BUG FIXED]
Symptom: 802.1x with dynamic WEP key cannot work when shared secret of accounting server is invalid.
Condition:
 - (1) Enable smt23.2 authenticator server and accounting server.
 - (2) 802.1x supplicant associate to AP with mode 802.1x dynamic wep key.
 - (3) Modify smt23.2 accounting server shared secret with a wrong value.
 - (4) 802.1x supplicant was prohibited by 802.1x module.

Modification in 3.50(HH.4)b2 | 05/11/2004

1. [BUG FIXED]
Symptom: In WPA mode, when changing setting of Block Intra-BSS Traffic from Yes to No, system will reboot and pop up "Error: Management FreeQ not enough entries, fragments: 0x01".
2. [BUG FIXED]
Symptom: In SMT23.4, when enable 'Dynamic WEP Key Exchange', user can change 'Authentication Database' to any mode in stead of fixing it at 'RADIUS Only'.
3. [BUG FIXED]
Symptom: SNMP trap function cannot work.

Modification in 3.50(HH.4)b1 | 04/15/2004

1. [FEATURE ENHANCED]

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Support intra-BSS traffic control.

2. [FEATURE CHANGE]
AP firmware is changed to v1.0.4.3.

Modification in 3.50(HH.3)C0 | 03/31/2004

- 2 [FEATURE CHANGE]
Modify to FCS version.

Modification in 3.50(HH.3)b3 | 03/31/2004

1. [BUG FIXED]
Symptom: Upload firmware via eWC, then system stop working or reboot.
2. [BUG FIXED]
Symptom: The “Max. Frame Burst” option can’t save the value 1800 in SMT menu.

Modification in 3.50(HH.3)b2 | 03/25/2004

1. [FEATURE ENHANCED]
Support WLAN quick bridge.
2. [BUG FIXED]
Symptom: System reset when user uses eWC to configure IP.
Condition:
 - (1) Enter eWC
 - (2) Go to IP page
 - (3) Setup IP address and apply the setting
 - (4) System reset
3. [BUG FIXED]
Symptom: Ping stress test failed after long time test.
Condition:
 - (1) Leave WDS or Ethernet port of AP unattached.
 - (2) Ping AP from STA
 - (3) The device cannot be reached any more after a period of time.
4. [BUG FIXED]
Symptom: eWC\WIRELESS: Preamble=‘Auto’ should be ‘Dynamic’.
5. [FEATURE ENHANCED]
eWC online help is updated.
6. [FEATURE CHANGE]
Add “sys wdog sw on” in autoexec.net

Modification in 3.50(HH.3)b1 | 03/02/2004

1. [FEATURE ENHANCED]
Support WPA, WPA-PSK.
2. [FEATURE ENHANCED]
Support preamble selection and Nitro mode max frame burst control.
3. [FEATURE CHANGED]
The default setting is changed to “WPA-PSK” after user enabled wireless port control.
4. [FEATURE CHANGED]
Default port of roaming is changed to 3517.

Modification in 3.50(HH.2)b2 | 12/19/2003

1. [BUG FIXED]
Symptom: AP can receive 64-bit WEP encrypted data after AP disabled the WEP function as long as the key match the previous setting of WEP keys.

Modification in 3.50(HH.2)b1 | 12/08/2003

3. [FEATURE ENHANCED]
Enhance bridge performance between Ethernet & WLAN when 802.1x is disabled.

Modification in 3.50(HH.1)c0 | 10/28/2003

1. [FEATURE CHANGED]
Enable system watchdog timer by default.

Modification in 3.50(HH.1)b2 | 09/24/2003

1. [BUG FIXED]
Symptom: Wireless not work after changing setting.
Condition: Using G100 to FTP , changing the setting of MAC Filter, then the Wireless does not work after applying .
2. [FEATURE ENHANCED]
Support Israel channel list
3. [FEATURE ENHANCED]
Support Romania channel list

Modification in 3.50(HH.0)b11 | 08/07/2003

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1. [BUG FIXED]
Symptom: Display debug messages on console when supplicant is deleted.

Modification in 3.50(HH.0)b10 | 08/06/2003

1. [BUG FIXED]
Symptom: WLAN interface doesn't work after applying some of the setting in eWC.
Condition: Launch a FTP transmission, and then change the configuration of roaming with eWC. The WLAN interface doesn't work after applying the setting.
2. [BUG FIXED]
Symptom: After upload firmware with eWC, sometimes it generates error messages in console.
3. [FEATURE CHANGED]
The default preamble setting is changed to "long preamble".

Modification in 3.50(HH.0)b9 | 08/04/2003

1. [BUG FIXED]
Symptom: System reboot while access eWC.
Condition: Access MAC filter page of eWC while busy traffic is transferred, the system reboot.
2. [BUG FIXED]
Symptom: Country code of India is incorrect.

Modification in 3.50(HH.0)b8 | 07/28/2003

1. [BUG FIXED]
Symptom: User can try the password via telnet without any limitations.
Condition: When user key-in wrong password over 3 times, the system didn't reject the attempts for 3 minutes.

Modification in 3.50(HH.0)b7 | 07/18/2003

1. [BUG FIXED]
Symptom: System stops working when change channel during FTP transmission.
Condition: Upload file from STA with FTP client and change the channel during FTP transmission. The system will stop working.

Modification in 3.50(HH.0)b6 | 07/17/2003

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1. [BUG FIXED]
Symptom: Upload firmware with eWC from WLAN STA will make WLAN interface down.
Condition: Upload firmware with eWC. The transmission will not complete and the WLAN interface will be shutdown.
2. [FEATURE ENHANCED]
Online help is updated.
3. [FEATURE CHANGED]
RTS/CTS and Fragmentation threshold checkboxes are removed in eWC.

Modification in 3.50(HH.0)b5 | 07/11/2003

1. [BUG FIXED]
Symptom: WLAN interface is shutdown unexpectedly when user access eWC with simultaneously FTP transmission.
2. [FEATURE CHANGED]
The default setting of DNS in System page is changed to "None".

Modification in 3.50(HH.0)b3 | 06/26/2003

3. [FEATURE ENHANCED]
uAP is upgraded to version 1.0.2.0
4. [FEATURE ENHANCED]
Online help is updated.

Modification in 3.50(HH.0)b2 | 06/13/2003

1. First release for C3 firmware

Annex A CI Command List

Command Class List Table		
System Related Command	Exit Command	Ethernet Related Command
Wireless LAN Related Command	IP Related Command	Bridge Related Command
802.1x Related Command		

System Related Command

[Home](#)

Command			Description
sys			
	atmu		Show MultiBoot Client version
	adjtime		retrive date and time from Internet
	callhist		
	display		display call history
	remove	<index>	remove entry from call history
	countrycode	[countrycode]	set country code
	date	[year month date]	set/display date
	domainname		display domain name
	edit	<filename>	edit a text file
	extraphnum		maintain extra phone numbers for outcalls
	add	<set 1-3> <1st phone num> [2nd phone num]	add extra phone numbers
	display		display extra phone numbers
	node	<num>	set all extend phone number to remote node <num>
	remove	<set 1-3>	remove extra phone numbers
	reset		reset flag and mask
	feature		display feature bit
	hostname	[hostname]	display system hostname
	log		
	clear		clear log error
	disp		display log error
	online	[on/off]	turn on/off error log online display
	rn		
	load	<entry no.>	load remote node information
	disp	<entry no.>(0:working buffer)	display remote node information
	nat	<none sua full feature>	config remote node nat
	nailup	<no yes>	config remote node nailup
	save	[entry no.]	save remote node information
	stdio	[second]	change terminal timeout value
	systemname	[system name]	Change system name
	time	[hour [min [sec]]]	display/set system time
	trcdisp	parse, brief, disp	monitor packets
	trclog		
	trcpacket		
	syslog		
	server	[destIP]	set syslog server IP address
	facility	<FacilityNo>	set syslog facility
	type	[type]	set/display syslog type flag
	mode	[on/off]	set syslog mode
	version		display RAS code and driver version
	view	<filename>	view a text file

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	wdog			
		switch	[on/off]	set on/off wdog
		cnt	[value]	display watchdog counts value: 0-34463
	romreset			restore default romfile
	socket			display system socket information
	filter			
		netbios		
	cpu			
		display		display CPU utilization

Exit Command

[Home](#)

Command			Description
exit			exit smt menu

Ethernet Related Command

[Home](#)

Command			Description
ether			
	config		display LAN configuration information
	driver		
		cnt	
		disp <name>	display ether driver counters
		ioctl <ch name>	Useless in this stage.
		status <ch name>	see LAN status
	version		see ethernet device type
	edit		
		load <ether no.>	load ether data from spt
		save	save ether data to spt

Wireless LAN Related Command

[Home](#)

Command			Description
wlan			
	active	[on/off]	set on/off wlan
	association		display association list
	version		display WLAN version information

IP Related Command

[Home](#)

Command			Description
ip			
	address	[addr]	display host ip address
	arp		
		status <iface>	display ip arp status
	dhcp	<iface>	
		client	
		release	release DHCP client IP
		renew	renew DHCP client IP
		status [option]	show dhcp status
	dns		
		query	
		stats	
	httpd		
	icmp		
		status	display icmp statistic counter
		discovery <iface> [on/off]	set icmp router discovery flag

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	ifconfig		[iface] [ipaddr] [broadcast <addr> mtu <value> dynamic]	configure network interface
	ping		<hostid>	ping remote host
	route			
		status	[if]	display routing table
		add	<dest_addr default>[/<bits>] <gateway> [<metric>]	add route
		addiface	<dest_addr default>[/<bits>] <gateway> [<metric>]	add an entry to the routing table to iface
		addprivate	<dest_addr default>[/<bits>] <gateway> [<metric>]	add private route
		drop	<host addr> [/<bits>]	drop a route
	status			display ip statistic counters
	udp			
		status		display udp status
	rip			
	tcp			
		status	[tcbl] [<interval>]	display TCP statistic counters
	telnet		<host> [port]	execute telnet client command
	tftp			
	tracert		<host> [ttl] [wait] [queries]	send probes to trace route of a remote host
	xparent			
		join	<iface1> [<iface2>]	join iface2 to iface1 group
		break	<iface>	break iface to leave ipxparent group

Bridge Related Command

[Home](#)

Command			Description
Bridge			
	cnt		related to bridge routing statistic table
		disp	display bridge route counter
		clear	clear bridge route counter
	stat		related to bridge packet statistic table
		disp	display bridge route packet counter
		clear	clear bridge route packet counter

802.1x Related Command

[Home](#)

Command			Description
8021x			
	radius	authentication	Show show current radius authentication server configuration
		accounting	Show show current radius accounting server configuration
	debug	reauth	<0:off 1:on> set IEEE802.1x reauthentication method
		level	[debug level] set ieee802.1x debug message level
		trace	show all supplications in the supplication table
		user	[username] show the specified user status in the supplicant table