



Firmware Release Note

ZyAIR G-2000

Release 3.60(HI.3)C0

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ZyXEL ZyAIR G-2000 Standard Version release 3.60(HI.3)C0 Release Note

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Supported Platforms:

ZyXEL ZyAIR G-2000

Versions:

ZyNOS Version: V3.60(HI.3) | 09/09/2004 13:05:25

BootBase : V1.01 | 05/15/2003 10:53:02

Notes:

1. If Wireless Port Control (SMT Menu 23.4) is “Authentication Required”, ZyAIR will enable 802.1x/WPA/WPA-PSK user authentication mechanism, a wireless user must login the ZyAIR successfully before accessing network service. If Wireless Port Control is “No Authentication Required”, ZyAIR will allow all wireless users to access network service. If Wireless Port Control is “No Access Allowed”, ZyAIR will not allow wireless user to access network service.
2. If the Key Management Protocol is “WPA”, then you have to configure RADIUS server and the Authentication Databases should be “RADIUS Only”.
3. The Local User Database does not support key generation for 802.1x dynamic web key and WPA pairwise/group key.

Known Issues:

1. CNM Wireless LAN configuration is not ready.
2. LAN PC ftp to Linux ftp server will wait about 30 seconds.
3. When change WAN configuration from dynamic IP to static IP, the DDNS client can't send the changed IP to DDNS server automatically. User must apply the DDNS function again, and then the DDNS sends the static IP to DDNS sever and update the domain IP.

CI Command List

Features:

Modification in 3.60(HI.3)C0 | 09/09/2004

1. [FEATURE CHANGED]

Convert to FCS version.

Modification in 3.60(HI.3)b2 | 09/02/2004

2. [BUG FIXED]

Symptom : DNS "Connection specific suffix" does not work until apply SMT menu 1.

Condition : DNS "Connection specific suffix" does not work until apply SMT menu 1 DNS setting.

Modification in 3.60(HI.3)b1 | 08/19/2004

3. [BUG FIXED]

Symptom : Console shows unreadable symbols.

Condition : Enter debug mode, under baud rate 9600, using ATWE to change MAC address. If successful, system will print "OK", but show unreadable symbols.

4. [BUG FIXED]

Symptom : DNS "Connection specific suffix" does not work.

Condition : WAN DHCP client get domain name information, but does not put it in SPT, so LAN DHCP server will not transfer domain name information to client PC.

5. [BUG FIXED]

Symptom : The command " IP NAT INCIKEPORT " appears not to work.

Condition : In CI command mode, "IP NAT INCIKEPORT" show error help message and out of function.

Modification in 3.60(HI.2)C0 | 08/02/2004

6. [FEATURE CHANGED]

Convert to FCS version.

Modification in 3.60(HI.2)b4 | 07/27/2004

1. [BUG FIXED]

Symptom : WPA-PSK authenticating twice.

Condition : In WPA-PSK mode, G2000 will authenticate station twice.

Modification in 3.60(HI.2)b3 | 07/13/2004

1. [BUG FIXED]

Symptom : Wireless station can not connect G2000 after enabling roaming

Condition : 1. Enable roaming 2. Change ESSID 3. User can see ESSID after SiteSurvey but can not connect it.

2. [FEATURE CHANGED]

Hide the group key privacy function of WPA in eWC.

3. [BUG FIXED]

Symptom : WPA-PSK authenticating twice.

Condition : In WPA-PSK mode, G2000 will authenticate station twice.

4. [BUG FIXED]

Symptom : Netgear and Cisco station update group key fail.

Condition : In WPA, WPA-PSK mode, station can connect G2000, but can not transfer data.

Modification in 3.60(HI.2)b2 | 06/24/2004

1. [BUG FIXED]

Symptom : System reboot and pop up "Error: Management FreeQ not enough entries, fragments: 0x01" in WPA-PSK mode.

Condition : In WPA-PSK mode, use G-200 to connect G-2000, system reboot and pop up "Error:

Management FreeQ not enough entries, fragments: 0x01".

2. [BUG FIXED]

Symptom : Can not management control web page through wan port.

Condition : In SMT 24.11 web server item, change access to wan only or all, then user can not management control web page through wan port.

Modification in 3.60(HI.2)b1 | 05/13/2004

1. [BUG FIXED]

Symptom : Hardware watchdog trigger.

Condition : Under Smartbit test, hardware watchdog will be triggered.

2. [FEATURE ENHANCED]

Add AT command "atld" to upload ROM file and write default ROM file to flash.

Modification in 3.60(HI.1)C0 | 04/30/2004

1. [FEATURE CHANGED]

Convert to FCS version.

Modification in 3.60(HI.1)b1 | 04/23/2004

1. [BUG FIXED]

Symptom : PPPoE connection sometimes fails in France.

Condition : Since France Telecom changes their core network setup to BRAS, PPPoE connection on authentication phase most of the time fails.

Modification in 3.60(HI.0)C0 | 02/27/2004

1. [BUG FIXED]

Symptom : Typo error.

Condition : In the ADVANCE->WIRELESS->802.1x/WPA page, select WPA-PSK as key management protocol and type more than 63 or less than 8 Pre-Shared Key, then click apply, the Status (wrong message) should be "The Pre-Shared Key ..." instead of "The Pre-SHared Key"

2. [BUG FIXED]

Symptom : The WAN MAC cloning function can not work in eWC.

Condition : In the ADVANCE->WAN->MAC page, select "Spoof this computer's MAC Address - IP Address" and type IP address, the WAN MAC can not be changed instantly. (See the change from SMT24.1)

3. [BUG FIXED]

Symptom : Wrong firewall default setting.

Condition : After resetting to default configuration, the check box of "Day to Block" in ADVANCE->FIREWALL->Filter page is checked. It should not be checked.

Modification in 3.60(HI.0)b7 | 02/20/2004

1. [FEATURE CHANGED]

Modify DDNS mechanism to meet the requirement of dyndns.org

2. [BUG FIXED]

Symptom : The saved configuration for DDNS in SMT and eWC are different.

Condition : After setting the SMT 1.1 (or System -> DDNS page in eWC), the System -> DDNS page in eWC (or SMT 1.1) can not show the saved configuration.

3. [FEATURE CHANGED]

Modify the channel list of Israel.

4. [FEATURE CHANGED]

Default Log Schedule should be set to 'None' instead of 'When Log is Full'.

5. [BUG FIXED]

Symptom : After resetting to default romfile, the domain is "zyxel.com.tw" and will be distributed via DHCP to LAN clients.

Condition : After resetting to default romfile, the domain is "zyxel.com.tw" and will be distributed via DHCP to LAN clients. This should be blank.

6. [FEATURE CHANGED]
The WEP related setting in SMT 3.5 (or Wireless page in eWC) will be N/A when WPA, WPA-PSK, or dynamic WEP key is selected as key management protocol in SMT 23.4 (or 802.1x/WPA page in eWC).
7. [FEATURE CHANGED]
The warning message in 802.1x/WPA page changed to "The Pre-Shared Key must be between 8 and 63 characters long."
8. [FEATURE CHANGED]
Update DDNS and Roaming online help in eWC.
9. [FEATURE ENHANCED]
Support WPA countermeasure.

Modification in 3.60(HI.0)b6 | 01/19/2004

1. [BUG FIXED]
Fix the bug that abnormal packet lost occurs when resetting Ethernet chip inappropriately.

Modification in 3.60(HI.0)b5 | 12/12/2003

2. [BUG FIXED]
Fix Menu 15.1.1 - Address Mapping Rules does not auto-configure firewall rules. The following type of Address Mapping Rule should be auto-configured firewall rules: One-to-One and Many-One-to-One.

Modification in 3.60(HI.0)b4 | 12/04/2003

1. [BUG FIXED]
Fix the broadcast packets problem. LAN broadcast packets will not send to WAN. WAN broadcast packets will not send to LAN.
2. [BUG FIXED]
Fix WPA EAP authentication problem. The first EAP identity response from supplicant will not trigger backend server state machine.

Modification in 3.60(HI.0)b3 | 11/27/2003

1. [BUG FIXED]
Fix Telia login for the username and password are sent only the 3 first characters.
2. [FEATURE CHANGE]
Firewall generated packets (TCP RST) do not reset remote node (PPPoE/PPTP) idle timer and do not trigger remote node dial. This feature change solves "PPPoE + Firewall + e-mule = always on" problem.
3. [BUG FIXED]
ResolveName check name is NULL or empty string, or "0.0.0.0".
4. [BUG FIXED]
Symptom : Fake MAC has bug.
Condition : After SMT 2 configuration, the LAN PC with IP address as SMT configuration can not ping internet.
5. [BUG FIXED]
Symptom : WPA/WPA-PSK can not work with station (B-220).
Condition : B-220 connect to G-2000 (Windows XP/Odyssey with WPA/WPA-PSK configuration), it will fail.

6. [BUG FIXED]
Symptom : Supplicant (G-100/B-200) uses AEGIS client software can not login successfully.
Condition : Supplicant (G-100/B-200) uses AEGIS client software (WPA/WPA-PSK mode) can not login successfully.
7. [BUG FIXED]
Symptom : When we config SMT 23.4, it will show error message.
Condition : When we config SMT 23.4, it will show error message: Management FreeQ not enough entries, fragments: 0x0121;27HEnter.
8. [BUG FIXED]
Config the Administrator Inactivity Timer as "0" , then reboot the system, the timer back to default "5".
9. [BUG FIXED]
When I ftped(upload) from lan to a ftp server in wan, exception happened. ..\src\enet_itf.c:2707 sysreset().
10. [BUG FIXED]
NT 4.0 DHCP client hangs the router.
11. [BUG FIXED]
Fix IAPP bug.
12. [BUG FIXED]
Fix an exception problem when WLAN command is interrupt by data transmission.
13. [BUG FIXED]
Fix WLAN mbuf double free problem.

Modification in 3.60(HI.0)b2 | 10/24/2003

1. [BUG FIXED]
Symptom : After SMT15.2 or SMT24.11 configuration, the configuration can not be saved.
Condition : After your SMT 15.2 or SMT 24.11 configuration, you enter to save the configuration, but the configuration can not be saved.
2. [BUG FIXED]
Symptom : Fix WPA/WPA-PSK broadcast/multicast key problem.
Condition : After WPA/WPA-PSK client authenticated/authorized, the broadcast/multicast packets can not be understood by AP and client.
3. [FEATURE ENHANCED]
Update WEB help page.

Modification in 3.60(HI.0)b1 | 10/09/2003

1. [BUG FIXED]
Symptom : Boot up the device will fail without wireless card.
Condition : Remove wireless card from the device, the system can not boot up successfully.
2. [BUG FIXED]
Symptom : The first WPA-PSK configuration will generate incorrect hash value.
Condition : Reset the system back to default romfile. After the system boots up then configure WPA-PSK, WPA-PSK users with same pre-shared key can not be authenticated successfully.
3. [BUG FIXED]
Symptom : LAN LEDs are blinking incorrectly.
Condition : Attached more 2 PCs to the LAN ports, one PC has WAN traffic and the other PCs do not have any traffic, all attached LAN ports' LED are blinking.
4. [BUG FIXED]

Symptom : WEB content filter configuration has some problem.

Condition : Configure content filter setting through WEB, content filter does not work well.

5. [FEATURE CHANGED]

Change France and Singapore channel to CH01 ~ CH13.

Modification in 3.60(HI.0)b0 | 9/23/2003

Release ZyAIR G-2000 Standard Version baseline firmware 3.60(HI.0)b0.

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
Radius Related Command	802.1x Related Command	

System Related Command

[Home](#)

Command				Description
sys				
	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
	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		
	roadrunner			
		debug	<level>	enable/disable roadrunner service 0: diable <default> 1: enable
		display	<iface name>	display roadrunner information iface-name: enif0, wanif0
		restart	<iface name>	restart roadrunner
	Ddns			
		debug	<level>	enable/disable ddns service
		display	<iface name>	display ddns information
		restart	<iface name>	restart ddns
		logout	<iface name>	logout ddns
	Cpu			
		display		display CPU utilization
	Firewall			
		acl		
			disp	Display specific ACL set # rule #, or all ACLs.
			delete	Delete specific ACL set # rule #.
		active	<yes/no>	Active firewall or deactivate firewall
		clear		Clear firewall log
		cnt		
			disp	Display firewall log type and count.
			clear	Clear firewall log count.
		debug		Set firewall debug level.
		disp		Display firewall log
		init		### nothing. ###
		mailsubject		
			disp	Display mail setting which is used to mail alert.
			edit	Edit mail setting.

		online		Set firewall log online.
		pktdump		Dump the 64 bytes of dropped packet by firewall
		tos		
			delete	Delete specific TOS session.
			display	Display TOS sessions.
			status	Display TOS sessions' status.
			dump	Dump TOS.
		tosctrl		
			destination	Display TOS destination hash
			incomplete	Display TOS incomplete List.
		update		Update firewall
		dynamicrule		
			display	Display firewall dynamic rules
		tcprst		
			rst	Set TCP reset sending on/off.
			rst113	Set TCP reset sending for port 113 on/off.
			display	Display TCP reset sending setting.
		icmp		
			block_code3	Set ICMP block code3 on/off
			display	Display ICMP block code3 setting.
		dos		
			smtp	Set SMTP DoS defender on/off
			display	Display SMTP DoS defender setting.
			ignore	Set if firewall ignore DoS in lan/wan/dmz/wlan
		ignore		
			dos	Set if firewall ignore DoS in lan/wan/dmz/wlan
			triangle	Set if firewall ignore triangle route in lan/wan/dmz/wlan

Exit Command

[Home](#)

Command				Description
exit				exit smt menu

Ethernet Related Command

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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
	chid		[channel id]	set channel
	diagnose			self-diagnostics

	essid		[ess id]	set ESS ID
	scan			scan wireless channels
	version			display WLAN version information

IP Related Command

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Command				Description
ip				
	address		[addr]	display host ip address
	alias		<iface>	alias iface
	aliasdis		<0 1>	disable alias
	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		
		server	<primary> [secondary] [third]	set dns server
		stats		
		default		set default DNS server
	httpd			
	icmp			
		status		display icmp statistic counter
		discovery	<iface> [on/off]	set icmp router discovery flag
	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	[tcb] [<interval>	display TCP statistic counters
	telnet		<host> [port]	execute telnet client command
	tftp			
	traceroute		<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
	igmp			
		debug	[level]	set igmp debug level
		forwardall	[on/off]	turn on/off igmp forward to all interfaces flag
		querier	[on/off]	turn on/off igmp stop query flag

		iface		
			<iface> grouptm <timeout>	set igmp group timeout
			<iface> interval <interval>	set igmp query interval
			<iface> join <group>	join a group on iface
			<iface> leave <group>	leave a group on iface
			<iface> query	send query on iface
			<iface> rsptime [time]	set igmp response time
			<iface> start	turn on of igmp on iface
			<iface> stop	turn off of igmp on iface
			<iface> ttl <threshold>	set ttl threshold
			<iface> v1compat [on/off]	turn on/off v1compat on iface
		robustness	<num>	set igmp robustness variable
		status		dump igmp status

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

Radius Related Command

[Home](#)

Command				Description
Radius				
	auth			show current radius authentication server configuration
	acct			show current radius accounting server configuration

802.1x Related Command

[Home](#)

Command				Description
8021x				
	debug	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