



Firmware Release Note

ZyAIR B-1000 v.2

Release 3.50(HD.2)C0

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ZyXEL ZyAIR B-1000 v.2 Standard Version release 3.50(HD.2)C0 Release Note

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Supported Platforms:

ZyXEL ZyAIR B-1000 v.2

Versions:

ZyNOS Version : V3.50(HD.2) | 03/11/2004 13:38:06
Bootbase Version : V1.04 | 06/19/2003 10:22:37

Notes:

1. If the roaming is active, the wireless STA will not be able to associate with B-1000 v.2 unless the Ethernet port is connected and the IP is gotten from DHCP server while the IP assignment is configured as "Dynamic".
2. ZyAIR B-1000 v.2 is a country dependent product. Please setup correct country code before shipping.
3. The AP firmware version is v.3n28.

Known Issues:

1. WinXP supplicant doesn't work when it configure as 802.1x authentication with static wep key.
2. WPA interoperability issue: When centrino station configure as WPA (or WPA_PSK) mode and data encryption filed set as WEP, it can not work with B-1000v2 under WPA(or WPA-PSK) mode and using WEP as group key. In this case, user must configure the data encryption field as TKIP then stations will automatic switch the group key cipher as WEP after it received the WPA information element from B-1000v2.

CI Command List:

Features:

Modification in 3.50(HD.2)C0 | 3/11/2004

Modification in 3.50(HD.2)b7 | 3/10/2004

1. [BUG FIXED]

Symptom: eWC: WPA-PSK pre-shared key warning message show word “shared” as capital letter.

2. [BUG FIXED]

Symptom: eWC: On Microsoft windows English version platform, when configure illegal alphabet to WPA Group Key update timer, the warning message show one strange character at the end.

Modification in 3.50(HD.2)B6 | 2/11/2004

1. [FEATURE CHANGED]

Update the country dependent channel list.

Modification in 3.50(HD.2)B5 | 2/4/2004

2. [FEATURE ENHANCED]

Add Wlan De-authenticate User command.

3. [BUG FIXED]

WPA connection fails after overnight stress test.

4. [BUG FIXED]

In heavy traffic situation, system will be reset by software watchdog.

Modification in 3.50(HD.2)B4 | 12/29/2003

1. [BUG FIXED]

System software watch dog will reboot the system when system in heavy network traffic.

2. [BUG FIXED]

When decryption WPA packet, we decrypt IV32 in tkip header in reverse byte order and it will cause MIC error.

Modification in 3.50(HD.2)B3 | 12/24/2003

1. [BUG FIXED]

[Symptom] display error

[Condition] In eWC, when you select ADVANCED/WIRELESS/LocalDataBase, It should be "Wireless" instead of "Drahtloses" in the left tab.

Modification in 3.50(HD.2)B2 | 12/15/2003

5. [FEATURE ENHANCED]

WPA driver debug mechanism.

6. [FEATURE ENHANCED]

Add MIC attack command.

7. [FEATURE ENHANCED]

WPA driver support WLAN common API.

8. [FEATURE CHANGED]
Apply firmware ver. 3n28.

Modification in 3.50(HD.2)B1 | 10/27/2003

9. [[FEATURE ENHANCED]
WPA driver support.

Modification in 3.50(HD.1)C0 | 10/9/2003

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

Modification in 3.50(HD.1)b3 | 9/24/2003

2. [BUG FIXED]
Symptom: After applying the MAC filter settings in eWC, the associated STA number will be changed to '0'.
3. [FEATURE ENHANCED]
Support Romania channel list

Modification in 3.50(HD.1)b2 | 9/3/2003

1. [BUG FIXED]
Symptom: PING lost with Russia HUB.
2. [BUG FIXED]
Symptom: WLAN cannot received any more packets after connecting with CISCO card for a while.
3. [FEATURE CHANGED]
Apply firmware ver. 3828.
4. [FEATURE ENHANCED]
Support WLAN watchdog timer.

Modification in 3.50(HD.1)b1 | 8/18/2003

1. [FEATURE ENHANCED]
Support channel list of Israel.

Modification in 3.50(HD.0)c0 | 8/8/2003

1. [BUG FIXED]
Symptom: Default port number for IAPP is shown 0 in eWC
Condition: Go to roaming page in eWC the default port number is 0.
2. [BUG FIXED]
Correct the country code of India.

3. [BUG FIXED]
Symptom: After configuration with Wizard, the client number is changed to 144 and cause SMT to reboot the system.
4. [FEATURE CHANGED]
The model name is changed to "B-1000 v.2", and both bootbase and romfile are modified.
5. [FEATURE ENHANCED]
Online help are updated.

Modification in 3.50(HD.0)b7 | 07/09/2003

1. [BUG FIXED]
Symptom: User cannot login with eWC for a while after the IP address is changed by eWC.
Condition: Change the IP address and then login with eWC, the device will show a security error html message.
2. [BUG FIXED]
Symptom: User must login the eWC twice.
3. [BUG FIXED]
Symptom: PING lost occurs when the size is 3000.
4. [FEATURE CHANGED]
Support timezone configuration in eWC.
5. [FEATURE CHANGED]
Multiple ESS and VLAN support is removed.

Modification in 3.50(HD.0)b6 | 06/19/2003

1. [BUG FIXED]
Symptom: The MESSID connection is not stable.
Condition: When MESSID is enabled, the connection between STAs may be disturbed by a new incoming STAs.
2. [FEATURE CHANGED]
The LED control is changed, SYS LED will blink with red light when the device is booting and turn off while the device is ready.

Modification in 3.50(HD.0)b5 | 06/13/2003

1. [BUG FIXED]
Symptom: Block Intra-BSS Traffic fail in Multi ESSID
Condition: Even the "Block Intra-BSS Traffic" does not enable, the Intra-BSS Traffic still be blocked in Multi ESSID mode.

2. [BUG FIXED]
Symptom: Multi ESSID and VLAN function is buggy.
Condition: The Multi ESSID with VLAN function does not work.
3. [BUG FIXED]
Symptom: 6% ping packet lost with 10M/Full Duplex Ethernet card. The test packet size is 1518 bytes
4. [FEATURE CHANGED]
AP firmware is changed to v.3613 to improve the stability of wireless connection.
5. [FEATURE ENHANCED]
eWC online help is updated.

Modification in 3.50(HD.0)b4 | 05/27/2003

1. [BUG FIXED]
Symptom: Handover function doesn't work
Condition: After the STA roams to another BSS, the STAs in original BSS can not ping the roamed out STA unless the STA ping the STAs in original BSS first.
2. [BUG FIXED]
Symptom: Block-Intra BSS does not work Condition: The function "Block-Intra BSS" does not work, but it works in 350HD0b1.
3. [BUG FIXED]
Symptom: NTP calibrate fail Condition: in menu 24.10, the time calibrated by NTP server is not correct.
4. [BUG FIXED]
Symptom: reboot in Menu 24.2.1.
Condition: set Menu 3.2 Dynamic IP. Then go to menu 24.2.1 , the system will reboot.
5. [BUG FIXED]
Symptom: ping lost in 10/half Ethernet.
Condition: When the traffic of Ethernet (10/half) port is heavy, B1020 has 25% ping lose (use CI Command "ip ping").
6. [BUG FIXED]
Symptom: Station cannot associate with device while roaming is enabled unless user reset wireless LAN.
Condition: When station is turned on before the roaming enabled device is turned on, the station cannot associate the device unless the user reset the wireless LAN by re-configure the wireless setting or issue "wlan reset".
7. [FEATURE ENHANCED]
Support output power control.
8. [FEATURE ENHANCED]
Web helps are integrated.
9. [FEATURE CHANGED]
The BSS number reported by CI command "wlan association" is started from "1".

10. [FEATURE CHANGED]
The default channel is changed to channel 6.

Modification in 3.50(HD.0)b3 | 04/23/2003

1. [BUG FIXED]
Symptom: can NOT receive VLAN-tagged packets with size of 1522
Condition: Enable VLAN and issue ping request frame with size larger than 1468, it can NOT receive the ping reply.

Modification in 3.50(HD.0)b2 | 04/17/2003

1. [FEATURE ENHANCED] WEP configuration in eWC will show the format depends on your latest choice for input type (ASCII or HEX).
2. [FEATURE CHANGED] Dynamic WEP key exchange in SMT 23.4 revise to three options – Disable, 64-bit WEP and 128-bit WEP. B-1020 will generate broadcast key automatically.
3. [BUG FIXED]
Symptom: "Ed" of "Edit Roaming configuration= No" disappear
Condition: In Menu 3.5, when you are changing the ESSID, the "Ed" of "Edit Roaming configuration= No" will disappear.
4. [BUG FIXED]
Symptom: eWC wizard setup does not enable single ESS mode
Condition: wizard setup is only for Single ESS mode. When B1020 is in Multiple ESS mode, run wizard setup will not change the state from Multiple ESS mode to Single ESS mode.
5. [BUG FIXED]
Symptom: wrong font size of Maintenance page
Condition: the font size of Maintenance page is not the same with other page
6. [BUG FIXED]
Symptom: wrong description of WEP key
Condition: in wizard setup\Wireless lan setup.
wrong :
"64-bit WEP: Enter 5 characters or 10 digit ("0-9", "A-F") for each Key(1-4).
128-bit WEP: Enter 13 characters or 26 digit ("0-9", "A-F") for each Key(1-4)."
right :
"64-bit WEP: Enter 5 ASCII characters or 10 hexadecimal characters ("0-9", "A-F") for each Key(1-4)."
128-bit WEP: Enter 13 ASCII characters or 26 hexadecimal characters ("0-9", "A-F") for each Key(1-4). "
7. [BUG FIXED]
Symptom: display error of VLAN page
Condition: in Advanced\VLAN page, the <hr> is too long !
8. [BUG FIXED]
Symptom: display error of WLAN Association
Condition: in maintenance\wireless, the number of associated is wrong in Single ESS mode. for example, there are two sta associating the A.P, but it shows one !

- and CI Command "wlan ass" is correct.
9. [BUG FIXED]
Symptom: edit ess page can not back to wireless.
Condition: after edit ess, it can not be back to previous page.

Modification in 3.50(HD.0)b1 | 04/02/2003

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				
	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
	treddisp	parse, brief, disp		monitor packets
	trelog			
	trepacket			
	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			

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		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
	chid		[channel id]	set channel
	essid		[ess id]	set ESS ID
	scan			scan wireless channels
	version			display WLAN version information
	tkip			
		micsendattack		Ap will set next one out going packet with wrong MIC.
		micrcvattack		Ap will set next one incoming packet with wrong MIC.
		debug	level [debug level]	Set WPA driver debug message level.
	deauthUser	[xx xx xx xx xx xx](mac address where x is hex)		Deauthenticate an user.

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
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

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
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