



Firmware Release Note

ZyAIR B-3000

Release 3.50(HC.4)C0

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ZyXEL ZyAIR B-3000 Standard Version release 3.50(HC.4)C0 Release Note

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Supported Platforms:

ZyXEL ZyAIR B-3000

Versions:

ZyNOS F/W Version : V3.50(HC.4) | 03/16/2004

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-3000 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-3000 is a country dependent product. Please setup correct country code before shipping.
3. This version supports EAP-TLS, EAP-TTLS and PEAP pass through.
4. When enabling WDS (Bridge) mode, the function of dynamic WEP key will disable automatically.
5. If WDS is active, the APs using the version of AP firmware lower than 3523 will send specified packets automatically to APs which enabling the WDS function. So shielded room must be used for testing.
6. In AP + bridge mode, the traffic of WDS links is always unencrypt, no matter the security settings of AP.
7. In bridge / repeater mode, user can enable the static WEP for WDS links by setting up the static WEP in SMT or eWC. If not, the traffic will be transferred in plaintext.

Known Issues:

1. WinXP supplicant doesn't work when it config 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 field set as WEP, it can not work with B-3000 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-3000.
3. In Multiple ESS mode, 802.1x with dynamic wep key cannot work when the VLAN

ID of multiple ESS is different from AP native VLAN ID.

CI Command List:

Features:

Modification in 3.50(HC.4)C0 | 3/16/2003.

- 1 [FEATURE CHANGE]
Modify to FCS version.

Modification in 3.50(HC.4)b5 | 3/9/2004.

- 2 [BUG FIXED]
Symptom: In eWC\ADVANCED\WIRELESS: When 'Operating Mode' is multiple ESS mode, the 'Edit', 'Apply' and 'Delete' buttons cannot work when 'Wireless Port Control' is changed to 'No Authentication Required'.
- 3 [BUG FIXED]
Symptom: Stations (with ZyAIR B-122 card) can pass WPA authentication without selecting WPA configuration.
- 4 [BUG FIXED]
Symptom: Ping stress test failed after overnight file transmit by FTP.
- 5 [FEATURE CHANGE]
In eWC\ADVANCED\WIRELESS, when using enable wireless port control, the default setting is WPA-PSK with empty PSK.
- 6 [FEATURE ENHANCED]
eWC online help is updated.

Modification in 3.50(HC.4)b4 | 2/25/2004.

- 7 [BUG FIXED]
Symptom: Abnormal packet delay caused FTP client disconnection when running 5 or 6 APs.
- 8 [BUG FIXED]
Symptom: eWC:Wireless LAN page disappear after changing operating mode to 'Multiple ESS' and press 'Edit' button on wireless tab when wpa / wpa-psk is set.
- 9 [BUG FIXED]
Symptom: SMT 3.5:Multiple ESS configuration shouldn't be edited when operating mode is 'Multiple ESS' and key management protocol is 'WPA' and 'WPA-PSK'.
- 10 [BUG FIXED]
Symptom: eWC\ADVANCE\LOGS\View Log\Wireless:The source and destination field lists cannot display data correctly.
- 11 [BUG FIXED]
Symptom: eWC\ ADVANCE\IP, "WAN IP Address Assignment" is not correct description.
- 12 [FEATURE CHANGE]
In eWC\ADVANCE\LOGS, the default Log Schedule should be set to 'None' instead of 'When Log is Full'.

- 13 [FEATURE ENHANCED]
Update to support delivering IAPP packets/frames through WDS links
- 14 [FEATURE ENHANCED]
eWC online help is updated.
- 15 [FEATURE ENHANCED]
Add WPA counter measure.

Modification in 3.50(HC.4)b3 | 2/9/2004.

- 1 [BUG FIXED]
Symptom: 802.1x cannot work when the VLAN ID of multiple ESS is different from AP native VLAN ID.
- 2 [BUG FIXED]
Symptom: In heavy traffic situation, system will reset by sw watchdog.
- 3 [BUG FIXED]
Symptom: When using duplicate system account login the eWC page, the warning message should appear.

Modification in 3.50(HC.4)b2 | 2/4/2004.

- 1 [BUG FIXED]
Symptom: In eWC Maintenance->configuration, when upload “restore configuration”, it doesn’t work.
- 2 [BUG FIXED]
Symptom: In eWC Maintenance page, the table in “Association List” and “Channel Usage” have no correct lines.
- 3 [BUG FIXED]
Symptom: In eWC AP+Bridge, Birdge/Reaper mode, after press “scan” bottom, the index number of WDS bridge table will disappear.
- 4 [BUG FIXED]
Symptom: In ip configuration page, the "ISP" should take off. And "My WAN ip address" should change to "Ip address".
- 5 [BUG FIXED]
Symptom: In 802.1x/WPA page, when set WPA/WPA-PSK mode, and turn to another page, than turn back, the “WPA Mixed Mode” choose button disappear.
- 6 [BUG FIXED]
Merge fixed bug from COE. Change rstp CI command under bridge. Modify the variable declaration of “pathCost” in spt.h.
- 7 [BUG FIXED]
Symptom: 802.1x cannot work when the VLAN ID of multiple ESS is different from AP native VLAN ID.
- 8 [BUG FIXED]
Symptom: WPA link disconnect issue after overnight stress testing.
- 9 [BUG FIXED]
Symptom: eWC \ ADVANCED \ LOGS \ View Log : wrong background color appear.
- 10 [FEATURE ENHANCED]
eWC online help is updated.

Modification in 3.50(HC.4)b1 | 12/31/2003.

1 [FEATURE CHANGED]

Support WPA/WPA-PSK, Multiple bridge link, AP+Bridge, and RSTP.

Modification in 3.50(HC.3)C0 | 12/23/2003.

Modification in 3.50(HC.3)b5 | 12/22/2003.

1. [BUG FIXED]

Once RADIUS changed to different Authentication protocol, station won't associate with AP successfully any more.

Modification in 3.50(HC.3)b4 | 12/04/2003.

1. [BUG FIXED]

Abnormal packet delay when WEP is enabled.

Modification in 3.50(HC.3)b3 | 10/30/2003.

2 [BUG FIXED]

“TThis is” should be “This is” in eWC/channel Usage/Help

3 [FEATURE CHANGED]

Modify the channel list of France and Singapore.

Modification in 3.50(HC.3)b2 | 09/22/2003

1. [FEATURE ENHANCED]

Support channel list of Romania.

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.

Modification in 3.50(HC.3)b1 | 09/15/2003

1. [BUG FIXED]

Symptom: The traffic is blocked after attaching the device to a large busy network with bridge mode.

Condition: Bridge a PC and a large busy network with 2 devices configured as bridge mode, the device connected with PC will stop transferring packets after a short period of time.

Modification in 3.50(HC.2)b1 | 09/01/2003

1. [FEATURE ENHANCED]

Support channel list of Israel

2. [FEATURE ENHANCED]
Add watch dog timer mechanism to restart the zd1201 chip and WLAN driver.

Modification in 3.50(HC.0)c0 | 08/08/2003

1. [BUG FIXED]
Symptom: Country code of India is not correct.
2. [BUG FIXED]
Symptom: After changing the WLAN configurations in wizard page in eWC, the corresponding WLAN configurations in SMT and wireless page in eWC are incorrect.
3. [BUG FIXED]
Symptom: Ping lost for Kendin KS8995 chip.

Modification in 3.50(HC.0)b5 | 08/01/2003

1. [BUG FIXED]
Symptom: Filtering by MAC address in multi-ESS mode does not function.

Modification in 3.50(HC.0)b4 | 07/31/2003

- 11 [BUG FIXED]
Symptom: Device cannot get IP address through WDS link.
- 12 [BUG FIXED]
Symptom: The default port number is 0 in the Roaming page of eWC.
- 13 [BUG FIXED]
Symptom: After pressing the SCAN bottom in the WIZARD SETUP page in eWC and the SCAN function is finished, the check box of the key disappeared.
- 14 [FEATURE CHANGED]
When refreshing the Channel Usage in the WIRELESS page of the MAINTAINANCE in the eWC, the status shown in the below of the page is Ready. It should be changed to "Please Wait...".
- 15 [FEATURE ENHANCED]
Add time zone page in eWC.
- 16 [FEATURE ENHANCED]
eWC online help is updated.

Modification in 3.50(HC.0)b3 | 06/23/2003

1. [FEATURE CHANGED]

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AP firmware is changed to v.3617 to improve the stability of wireless connection and fix MESSID issues..

2. [FEATURE ENHANCED]
eWC online help is updated.
3. [FEATURE CHANGED]
Add extra delay before AP firmware download.
4. [FEATURE CHANGED]
The bootbase is upgraded to 1.04

Modification in 3.50(HC.0)b2 | 05/28/2003

1. [FEATURE ENHANCED]
Bootbase is upgrade to version 1.02 to support ST FLASH.
2. [FEATURE CHANGED]
The default channel is changed to channel 6.

Modification in 3.50(HC.0)b1 | 05/09/2003

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
	diagnose			self-diagnostics
	essid		[ess id]	set ESS ID
	scan			scan wireless channels
	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
	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