



**Firmware Release Note**

## **ZyAIR G-4100**

**Release v1.00(ZB.4)C0**

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## **ZyXEL ZyAIR G-4100 Standard Version release v1.00(ZB.4)C0 Release Note**

**Date:** Jan 4th, 2006

### **Supported Platforms:**

ZyAIR G-4100

### **Versions:**

Firmware : v1.00(ZB.4)C0

### **Known Issues:**

1. Printout account's font will become bigger than normal in one account print out. Only one printout will have this issue, the next print out account will be normal.
2. Together with the formal release of v1.00(ZB.3)C0, a boot code v1.03 is also be released. To update the latest Boot code v1.03, user have to upgrade the firmware to v1.00(ZB.3)C0 first and access to System Tool/Boot Code.
3. The issue of WPA-PSK mode Tx throughput below 18Mbps (Real result is 16~17Mbps) mentioned by Zyxel PQA, is still do not improve in this firmware. The improve is unable to be supported with short period, due to the new function and bug fix is more urgent than Tx throughput problem, we do rise up the priority for this issue.

### **Features:**

**Modification v1.00(ZB.4)C0 / Jan 3rd ,2006      **Formal Release****

[Modified:]

1. Change the beta firmware v1.00(ZB.4)b7 to formal release firmware v1.00(ZB.4)C0

**Modification v1.00(ZB.4)b7 / Dec 22th ,2005**

[Fixed Bugs]

1. (588) proxy user use 53 port and doesn't need to authentication.
2. (1754) DUT will reboot if radius account is longer than 6 characters.
3. Wireless issue: Enable secure remote , system will ask to reboot, press apply button, system reboot, after system reboot, the wireless client can not establish the

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connect with the device, need to power on/off the device then become normal.

**Modification v1.00(ZB.4)b6 / Dec 1st ,2005**

**[Fixed Bugs:]**

- 1.(1734) Cgi command problem.

**Modification v1.00(ZB.4)b5 / Nov 30th ,2005**

**[Fixed Bugs:]**

- 1.(1732) Remote client behind PPTP server cannot enter UI while DUT enable SSL security.
- 2.(1734) Cgi command problem.

**Modification v1.00(ZB.4)b4 / Nov 23th ,2005**

**[Fixed Bugs:]**

- 1.(1716)G4100 credit card configuration restore issue.

**[New features:]**

1. CGI command Export/Import/Reboot.
2. Secure Remote.

**[Modified:]**

1. Wall Garden increase to 32 entries.
2. Update the new flash driver.
3. Database mechanism fine-tuning.

**Modification v1.00(ZB.4)b3 / Nov 9th ,2005**

**[Fixed Bugs:]**

- 1.(1650)Redirect login problem.
- 2.(1692)Redirect login page configuration will cause device reboot.

**Modification v1.00(ZB.4)b2 / Oct 28th ,2005**

**[Fixed Bugs:]**

- 1.(1439)DDNS Function of ChangeIP.com supporting issue.
- 2.(1585)Redirect User Agreement page keep reloading over and over.
- 3.(1638)Expired, Finished accounts disappear issue.
- 4.(1650)Redirect login problem.
- 5.(1666)Wrong version number in system page.
- 6.(1668)Can't delete pass through table when using Delete All button.

**Modification v1.00(ZB.4)b1 / Oct 24th ,2005**

**[Fixed Bugs:]**

- 1.(1423)Web server cannot browser.
- 2.(1620)Web Server crash issue.

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4.(1502)The system reboots with big size packets.

**Modification v1.00(ZB.3)C0 / Oct 5th ,2005**

[Modified:]

1. Change the beta firmware v1.00(ZB.3)b5 to formal release firmware v1.00(ZB.3)C0

*Note: At the same time, a new Boot code v1.03 also released.*

*(The release of v1.03 Boot code is to fix the bug, when WAN port is connected, sometime the device can not be rebooted normally.)*

**Modification v1.00(ZB.3)b5 / SEP 16 ,2005**

[Fixed Bugs:]

- 1.(1585)Redirect User Agreement page keep reloading over and over.
- 2.(1632)Syslog function doesn't send system-up message.
- 3.(1635)Accumulation account cannot be replenish by using WorldPay.
- 4.(1637)strange account issue again.

[Modified:]

1. Modify request of "Information Windows" by Zyxel.

**Modification v1.00(ZB.3)b4 / SEP 12 ,2005**

[Fixed Bugs:]

- 1.(1588)WorldPay Credit Card Payment issue.
- 2.(1601)strange account in account list page.
- 3.(1611)In-use account disappeared in account list issue.
- 4.(1621)The G4100 ESSID can't be recongize by intel wireless 2200 BG in 802.11b mode.
- 5.(1622)WorldPay Credit Card Payment issue.
- 6.(1623)WorldPay Credit Card Payment Mail issue.
- 7.(1626)UAP SSL enable/disable issue.
- 8.(1628)client cannot get IP if DUT enable bandwidth management.

**Modification v1.00(ZB.3)b3 / SEP 2nd ,2005**

[Fixed Bugs:]

- 1.(1607)WorldPay Credit Card account issue.
- 2.(1608)Proxy user cannot use WorldPay Credit Card payment.
- 3.(1611)In-use account disappeared in account list issue.

**Modification v1.00(ZB.3)b2 / Aug 26th ,2005**

[Fixed Bugs:]

- 1.(1577)Accumulation account issue .
- 2.(1578)ASCII WEP key printout issue.
- 3.(1587)G4100 billing error.

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- 4.(1596)WorldPay credit card payment process make DUT crash.
- 5.(1600)Worldpay Credit Card account issue.

**Modification v1.00(ZB.3)b1 / Aug 12th ,2005**

[New features:]

- 1. Un-used account expiration spec. change.
- 2. Bandwidth Management(Fair Share for each client).
- 3. WorldPay Credit Card interface.
- 4. add Boot Code upgrade interface.

[Fixed Bugs:]

- 1.(1385)The traffic of proxy user can not be limited when enable bandwidth function.
- 2.(1553)ICMP attack will crash DUT.

**Modification v1.00(ZB.2)C0 / Aug 2 ,2005 (Formal Release)**

[Modify]

- 1. Change f/w name from V1.00(ZB.2)b3 to v1.00(ZB.2)C0

**Modification v1.00(ZB.2)b3 / July 13 ,2005**

[Fixed Bugs:]

- 1.(1499)DDNS blank setting update issue.
- 2.(1501)User Login Page Customization Fullfill issue.

**Modification v1.00(ZB.2)b2 / July 8 ,2005**

[Fixed Bugs:]

- 1.(1430)Radius accounting issue.
- 2.(1439)DDNS Function of ChangeIP.com supporting issue.
- 3.(1468)DUT can't establish the PPTP connection (WAN port PPTP mode).
- 4.(1487)WPA-PEAP issue.
- 5.(1459)LAN device issue for wireless IP Camera.
- 6.Passthrough timer task will make the device crash.

**Modification v1.00(ZB.2)b1 / Jun 27 ,2005**

[Modification]

- 1. Change firmware name v1.00(ZB.1)C0-010605 to v1.00(ZB.2)b1

[Fixed Bugs:]

- 1.(1240)low average throughput issue.
- 2.(1250)Set client DNS server as DUT LAN port IP will make DUT crash.
- 3.(1257)dhcp fail issue.
- 4.(881)WPA function fail!

**Modification v1.00(ZB.1)C0-010605 / Jun 2 ,2005**

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[Fixed Bugs]

1. Configuration will be reset to factory default setting.

**Modification v1.00(ZB.1)C0-130505 / May 13 ,2005**

[Fixed Bugs]

1. "Logo" on SSL subscriber login page will cause the DUT reboot issue.

**Modification v1.00(ZB.1)C0 / Mar 16 ,2005 (Formal Release)**

[Modify]

1. Change f/w name to V1.00(ZB.1)C0 for formal release.

**Modification v1.00(ZB.1)b7 / Mar 8 ,2005**

[Fixed Bugs]

1. The WLAN default ESSID should be "ZyXEL"

**Modification v1.00(ZB.1)b6 / Mar 8 ,2005**

[Fixed Bugs]

1. The WLAN default ESSID should be "ZyXEL"
2. WPA-TLS Failed. WiFi will treat any device as pure AP so that they connect the RADIUS server to LAN port, not WAN port.
3. AP out of box setting doesn't follow Basic Rate Set #1  
(5.5 and 11 Mbps should be considered basic rates as defined in 802.11).
4. When you key in 64 characters Pre-Shared Key, system should reject and show some warning message.
5. WPA-PSK cannot associate successfully when using IBM R51  
(Intel(R) PRO/Wireless 2200BG Network connection).

**Modification v1.00(ZB.1)b5 / Feb 17 ,2005**

[Fixed Bugs:]

1. (Bug 1081) No message shown after finishing WIZARD
2. (Bug 1196) user SSL Login Page fail in authentication mode

**Modification v1.00(ZB.1)b4 / Feb 1 ,2005**

[Fixed Bugs:]

1. Zyxel's ADSL modem PPTP connection support(RFC 1483)
2. (Bug 1082) Multicast issue
3. (Bug 1174) DHCP Server's Primary DNS setting
4. (Bug 1183) The value of expiration only can accept first 3 digit.

[Modified]

1. Update AP firmware from V1.0.4.3 to V1.2.8.0.

**Modification in v1.00(ZB.1)b3 / Nov 30, 2004**

[Fixed Bugs:]

1. System Status -> Current User page issue a. Index No. always be 1
2. Session trace record shows VLANID but environment doesn't have any

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VLANID setting.

**Modification in v1.00(ZB.1)b2 / Nov 26, 2004**

[Fixed Bugs:]

1. Https Port can be customizable, and can be select that Https only

**Modification in v1.00(ZB.1)b1 / Nov 25, 2004**

[New features:]

1. Combo Function (Radius Client)
2. Session Trace Record
3. Customizable Standard Login Page
4. Https Port can be customizable, and can be select that Https only
5. File path field should keep setting

[Fixed Bugs:]

1. The clients (B or G) can't connect to G-4100 when use windows utility in WPA-PSK mode.

**Modification in v1.00(ZB.0)C0 / Nov 8, 2004 (Formal Release)**

[Modified]

1. Change firmware name from v1.00(ZB.0)b26 to v1.00(ZB.0)C0

**Modification in v1.00(ZB.0)b26 / Nov 2, 2004**

[Fixed Bugs]

1. Low transfer throughput (TX) occurred when G-STA associated only.
2. 64/128 WEP key can be printout when disable security on wireless page.
3. Printout speed cannot run smoothly.

**Modification in v1.00(ZB.0)b25 / Oct 18, 2004**

[Fixed Bugs]

1. LAN to WAN ftp get throughput only has 1.4 Mbps!
2. WPA-PSK will fail on odesy client.

**Modification in v1.00(ZB.0)b24 / Oct 18, 2004**

[Fixed Bugs]

1. Extra field for printer receipt, 4 line on top, 10 line on bottom
2. (960) account generate printer printout issue
3. Wall Garden import problem
4. (969) import configuration file will make DUT reset
5. RL Dram has data abort problem.

Situation Note: While doing firmware upgrade, subscriber cannot get ip from DUT after reboot. This situation happens randomly.

**Modification in v1.00(ZB.0)b23 / Oct 16, 2004**

**[Fixed Bugs]**

1. (Bug 960)account generate printer printout issue
2. (Bug 964)Network connection fail for every 10 minutes
3. (Bug 965)configuration import error
4. (Bug 967)Wall Garden URL length overflow while import config file
5. (Bug 969)import configuration file will make DUT reset
6. (Bug 970)Import problem
7. (Bug 971)credit card problem
8. (Bug 972)WPA enterprise mode wireless subscriber fail get ip address!
9. (Bug 973)typing mistake in lan device alert message

**Modification in v1.00(ZB.0)b22 / Oct 14, 2004**

**[Fixed Bugs]**

1. Extra field for printer receipt, 4 line on top, 10 line on bottom  
(B-4000 already have)
2. Add description on "Ping" command page and fix the bug. Example  
description "This feature tests your Internet connection, so the  
destination IP address must be on the WAN.  
Do not use a LAN IP address."(B-4000 already have)
3. (Bug 959)upgrade firmware will make system unstable
4. (Bug 960)account generate printer printout issue
5. (Bug 961)Wireless Encryption status shown error in QuickView
6. (Bug 962)Date/time format issue in Post Paid Preview
7. (Bug 963)Tax/Total field default input couldn't be changed
8. Transfer throughput is too low when G-STA associated only.

**Modification in v1.00(ZB.0)b21 / Oct 8, 2004**

**[Fixed Bugs]**

1. (Bug 882)account printout preview date/time error.
2. (Bug 895)pre-shared key length doesn't check.
3. Wireless Beacon Interval always is 100 msec
4. Preamble Type always is Dynamic mode
5. Enter space \n (B-4000 already have)
6. User Session Limit (B-4000 already have)
7. WEP-ASCII key print out problem (B-4000 already fixed)
8. Extra field for printer receipt, 4 line on top, 10 line on bottom  
(B-4000 already have)
9. Add description on "Ping" command page and fix the bug. Example  
description "This feature tests your Internet connection, so the  
destination IP address must be on the WAN.  
Do not use a LAN IP address."(B-4000 already have)
10. Customize printout for ',','/' in Germany to handle 1,16 and in



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- another country to handle 1.16 (B-4000 already have)
11. Add customizable item. in Previews and printouts there comes still partly English example "Accumulation" you see "Please finish your usage time within 3 months after your first login" and you cannot customize this (B-4000 already have)
  12. add the common date format DD.MM.YYYY (B-4000 already have)
  13. Change account list "in-used" to "in-use" (B-4000 already fixed)
  14. Unused account time change unit to "minute" range 30~120 (B-4000 already have)
  15. Ethernet AP user remove to wireless interface problem (B-4000 already fixed)
  16. Tax calculation mistake (B-4000 already fixed)
  17. eWC\ADVANCED\wireless\Beacon interval is set to available range(1-1000) but beacon interval always keep 102400 microseconds.
  18. RTS Threshold: When a data frame exceeds the RTS/CTS value you set, DUT doesn't send an RTS message to STA.
  19. eWC\QUICK VIEW\Traffic: Each field of TxData, RxData, TxError and RxError data should add border.
  20. Fragmentation threshold: When a data frame exceeds the fragmentation threshold value you set, DUT doesn't fragment this data frame.
  21. Customer report no matter ASCII or HEX are used on GUI as WEP key the AG-100 printer will always print the KEY in HEX.
  22. Use the 'ping' function from G-4100 GUI caused the G-4100 no ICMP response.

**Modification in v1.00(ZB.0)b20 / Sep 21, 2004**

[Fixed Bugs]:

1. (Bug 891) wireless configuration setting function fail

**Modification in v1.00(ZB.0)b19 / Sep 19, 2004**

[Fixed Bugs]:

1. (Bug 890) wireless 128 bit WEP key security function fail.
2. Help pages issues.

**Modification in v1.00(ZB.0)b18 / Sep 14, 2004**

[Fixed Bugs]:

1. (Bug 872) The logout function failed.
2. (Bug 873) Location Information problem
3. (Bug 880) System Boot Notice log wouldn't be sent to syslog server.
4. (Bug 881) WPA function fail!

**Modification in v1.00(ZB.0)b17 / Sep 09, 2004**

[Feature enhance]:

1. Add ZyXEL help pages.

**Modification in v1.00(ZB.0)b16 / Aug 31, 2004**

[Fixed Bugs]:

1. (Bug 819)The preview message is wrong.
2. (Bug 822)account printout error

**Modification in v1.00(ZB.0)b15 / Aug 30, 2004**

[Fixed Bugs]:

1. (Bug 737)system hang problem
2. (Bug 780)g-4100 system hang!
3. (Bug 818)system hang problem happened when perform WPA function test!
4. Watchdog issue.
5. WPA PSK doesn't show in all preview pages and printout of AG.
6. There is no WPA Encryption setting inWIZARD->ACCOUNTING->Customize printout text.

**Modification in v1.00(ZB.0)b14 / Aug 27, 2004**

[Fixed Bugs]:

1. (Bug 783)change the wan mac would make DUT crash
2. (Bug 809)system hang problem
3. (Bug 810)DUT crash after reboot two or three times
4. When the administrator changes the radius server configuration (change to another radius server), the client PC need pop up a window for username and password automatically.
5. MIC COUNTER MEASURE issue

**Modification in v1.00(ZB.0)b13 / Aug 20, 2004**

[Fixed Bugs]:

1. (Bug 737)system hang problem.
2. (Bug 780)g-4100 system hang!
3. (Bug 782)NTP problem!
4. (Bug 783)change the wan mac would make DUT crash

**Modification in v1.00(ZB.0)b12 / Aug 05, 2004**

[Fixed Bugs]:

- 1.(Bug 775) WPA rekeying function doesn't work. Re-designed the rekeying operation.
2. 802.11b channel 6 problem resolved.
3. DUT hangs when WPA is clicked often is resolved.

**Modification in v1.00(ZB.0)b11 / Aug 03, 2004**

[Fixed Bugs]:

1. Wireless client can't get ip from DUT in WPA mode.
2. [Bug 775] WPA rekeying function doesn't work.
3. WPA MIC Counter Measures on receiving MIC failure is added.

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**Modification in v1.00(ZB.0)b10 / Jul 22, 2004**

[Fixed Bugs]:

1. System hang problem.
2. printing problem using sp-200

[New features]:

1. Firmware Upgrade Status Information.

**Modification in v1.00(ZB.0)b9 / Jul 6, 2004**

[Fixed Bugs]:

1. The wireless channel setting UI just support channel 1 to channel 11.

**Modification in v1.00(ZB.0)b8 / Jul 1, 2004**

[Fixed Bugs]:

1. (Bug 656)when perform firmware download, the web page display abnormal.
2. (Bug 660)Proxy user cause dut crash (no authentication).
3. (Bug 669)the pass-through page sometimes show wrong page!
4. (Bug 713)Credit Card CP Version error.
5. (Bug 714)SYN Flood attacking decrease DUT's networking performance.  
(compare with B-4000).
6. (Bug 732)No Wireless Association Information and Wireless traffic shows  
in syslog.
7. After DUT downloads the Synchronization Check File to check , DUT doesn't  
download the firmware ,no matter if the filename is b4000.bin (default) or  
g4100.bin (we modified)

**Modification in v1.00(ZB.0)b7 / Jun 28, 2004**

[Fixed Bugs]:

1. (Bug 725)wireless traffic column has no information displayed!
2. (Bug 726)wireless service fail problem!
3. (Bug 728)wireless throughput issue!
4. (Bug 729)wireless client dhcp problem!
5. After DUT downloads the Synchronization Check File to check , DUT doesn't  
download the firmware ,no matter if the filename is b4000.bin (default) or  
g4100.bin (we modified)

**Modification in v1.00(ZB.0)b6 / Jun 24, 2004**

[Fixed Bugs]:

1. (Bug 673)configure walled garden page, the status bar always show "ready"!
2. (Bug 710)wireless function fail.
3. (Bug 712)WPA-PSK cause the DUT networking fail.
4. (Bug 715)DUT as PPTP client function fail.
5. (Bug 716)Configuration Restore function fail.
- 6.(Bug718)Customization Information Windows screen "Warming/Alarmmessage"  
Warming should be warning.
7. (Bug 720)Reset button can't work properly.
8. (Bug 722)Web server port is always 80.

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9. The sample synchronization check file still shows b4000 instead of g4100.
10. After pressing apply, the page sometimes shows management UI login page.

**Modification in v1.00(ZB.0)b5 / Jun 14, 2004**

**[Fixed Bugs]:**

1. (Bug 667)VPN connection can be established through DUT without authentication.
2. (Bug 670)lay 2 isolation function not work!
3. (Bug 675)DHCP pool size only 253 not 1024.
4. (Bug 676)DDNS "Update Status Now" function fail when using dyndns.
5. (Bug 678)DDNS status display and Update Status Now button error.

**Modification in v1.00(ZB.0)b4 / May 19, 2004**

**[Fixed Bugs]:**

1. (Bug 655)Detailed system information/ network traffic doesn't have information.
2. (Bug 659)upload the logo to DUT and preview will cause the DUT reboot immediately!
3. (Bug 671)configuration backup restore fail!
4. (Bug 672)syslog function seems not work!
5. (Bug 677)download CA into DUT cause the system rebooting continually!

**Modification in v1.00(ZB.0)b3 / May 17, 2004**

**[Fixed Bugs]:**

1. The system will crash When the accounting back function is enabled.
2. It will cause system crash to add pass through url in "PASS THROUGH" page.

**Modification in v1.00(ZB.0)b2 / May 14, 2004**

**[Fixed Bugs]:**

1. (Bug 653)User Agreement authentication can't work.
2. Can't setup the lease time of DHCP server on Advance\server page.