



**Firmware Release Note**

**ZyAIR G-2000PLUS v2**

**Release 3.60(AAF.0)C0**

**Date:** May 09, 2006  
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# **ZyXEL ZyAIR G-2000PLUS v2 Standard Version release 3.60(AAF.0)C0 Release Note**

**Date:** May 09, 2006

## **Supported Platforms:**

ZyXEL ZyAIR G-2000PLUS v2

## **Versions:**

ZyNOS Version: V3.60(AAF.0) | 05/09/2006 17:38:00

BootBase : V1.05 | 04/20/2004 10:36:26

## **Notes:**

1. If Wireless Port Control (SMT Menu 23.4) is “Authentication Required”, G-2000PLUS v2 will enable 802.1x/WPA/WPA-PSK user authentication mechanism, a wireless user must associate G-2000PLUS v2 successfully before accessing network service. If Wireless Port Control is “No Authentication Required”, G-2000PLUS v2 will allow all wireless users to access network service. If Wireless Port Control is “No Access Allowed”, G-2000PLUS v2 will not allow wireless user to access network service.
2. If the Key Management Protocol is “WPA/WPA2”, then you have to configure RADIUS server and the Authentication Databases will be “RADIUS only”.
3. G-2000PLUS v2 supports external and internal RADIUS server, both of them use the same setting page (SMT Menu 23.2). The internal RADIUS server use EAP-PEAP/MS-CHAP-V2 to authenticate the client. If internal RADIUS server is desired, the server address is “127.0.0.1”, and shared secret is “don’t care”. “Don’t care” means whatever user key in, if server address is “127.0.0.1”, G-2000PLUS v2 will use default shared secret “1234”. But leave blank is exception.
4. The Local User Database does not support key generation for 802.1x dynamic web key and WPA pairwise/group key.
5. As a wireless client roams from one wireless AP to another, it must perform a full 802.1X authentication with each wireless AP. WPA2 allows the wireless client and the wireless AP to cache the results of a full 802.1X authentication so that if a client roams back to a wireless AP with which it has previously authenticated, the wireless client needs to perform only the 4-way handshake and determine new pairwise transient keys. In the Association Request frame, the wireless client includes a PMK identifier that was determined during the initial authentication and stored with both the wireless client and wireless AP's PMK cache entries. PMK cache entries are stored for a finite amount of time, as configured on the wireless client and the wireless AP. So wireless client may reconnect to AP with error user name or password.

## **Known Issues:**

## CI Command List

### Features:

#### Modification in 3.60(AAF.0)C0 | 05/09/2006

1. [FEATURE CHANGED]  
Convert to FCS version.

#### Modification in 3.60(AAF.0)b4 | 05/03/2006

1. [BUG FIXED]  
Symptom: Wireless Power Saving issue.  
Condition: When wireless station (G-162, Intel 2200BG or Conexant-3890) power saving enable, and connect to G-2000plus v2 with no security mode, nothing to do (no ping no FTP no...), more than 20 minutes, the wireless station can't ping to DUT.  
SPRID: 60424865
2. [BUG FIXED]  
Symptom: Port change to check SNMP service works with Access setting (LAN & WAN / Disable / LAN / WAN) works failed.  
Condition: 1) Encapsulation is Ethernet, and disables Firewall.  
2) Remote MGMT/ SNMP service access = all.  
3) LAN & WAN host access G-2000plus v2 via SNMP port 161 successful.  
4) Change port 161 to 1610.  
5) LAN & WAN host access G-2000plus v2 via port 1610 failed.  
SPRID: 60425015
3. [BUG FIXED]  
Symptom: Spoof Mac addresses issue.  
Condition: In wizard, whether you use Ethernet/PPPoE/PPTP to make IP address, if you choose "spoof Mac address", the device will exception.  
SPRID: 60425978
4. [BUG FIXED]  
Symptom: Local database user account can pass the authentication when using RADIUS only.  
Condition: 1) In eWC->Advanced->Wireless: choose security as "802.1X+NO WEP" and authentication database as "RADIUS only".  
2) In eWC->Advanced->AUTH. Server->Trusted User: add one active user "1234".  
3) Wireless STA can use "1234" to pass the authentication.  
SPRID: 060310888
5. [BUG FIXED]  
Symptom: WPA2-PSK (WPA2) mixed mode with WPA-PSK (WPA) station issue. If G-2000plus v2 configure with WPA2-PSK (WPA2) mixed mode, and the station which configure with WPA2-PSK (WPA2) connect to device first, then the other station that configure with WPA-PSK (WPA) will not connection any more.  
Condition: 1) Load default first.  
2) Configure device with WPA2-PSK (WPA2) mixed mode, and STA1 (Intel 2200BG) configure with WPA2-PSK (WPA2) and connect to device first, then STA2 (Conexant wireless card) configure with WPA-PSK (WPA) try to connect with device, but STA2 always can't connect.

- SPRID: 60428284
6. [FEATURE ENHANCED]  
Extend share secrets of authentication and accounting from length 31 to 128.  
SPRID: 60426109
  7. [FEATURE ENHANCED]  
Add a rule of default server (0.0.0.0) in address mapping.  
SPRID: 60427229

**Modification in 3.60(AAF.0)b3 | 04/20/2006**

1. [BUG FIXED]  
Symptom: System crash when user telnet in and modify configuration.  
Condition: Copy a long character string (ex: 12345678901234567890123456789012), telnet to G-2000plus v2, then paste the string in any item (Ex System name or domain name), system will crash.  
SPRID: 60414066
2. [BUG FIXED]  
Symptom: Conexant chipset wireless client (Mixed mode) can't associate to G-2000plus v2 (802.11b only mode).  
Condition: In eWC->Advanced->Wireless: change 802.11 mode to 802.11b only, Setting Conexant STA 802.11 mode as b/g mixed mode, then STA can't associate to G-2000plus v2.  
SPRID: 60418320
3. [BUG FIXED]  
Symptom: Report function doesn't work.  
Condition: In eWC->Advanced->LOGS->Reports: press "Start Collection" to monitor "Web Site Hits", "LAN IP Address", and "Protocol/Port". Press "Refresh" to update the information, but nothing appears.  
SPRID: 60418347

**Modification in 3.60(AAF.0)b2 | 04/07/2006**

1. [BUG FIXED]  
Symptom: Mass 64 bytes packets will cause switch interrupt fail and doesn't receive packets.  
Condition: 1) Configure G-2000plus v2: NAT on, Firewall off, Quick Route 0x9bf2, Flow Control off.  
2) Configure LAN to WAN performance test for SmartBits.  
3) Under 64 bytes packets, Rx interrupt fail, and doesn't receive packets.  
SPRID: 060307557
2. [BUG FIXED]  
Symptom: WAN MAC Address Spoof failed.  
Condition: In eWC->Advanced->WAN->MAC: when choose "Spoof this computer's MAC Address - IP Address" and press applies, an error messages"Can not get the WAN MAC Address" occurred.  
SPRID: 060307559
3. [BUG FIXED]  
Symptom: ZyAIR G-100 can't associate with G-2000plus v2 when 802.11 mode is set to 802.11b only.  
Condition: 1) In eWC->Advanced->wireless: choose "802.11 mode" as "802.11b only".  
2) Because preamble setting doesn't match, some STA like "ZyAIR G-100" can't associate successfully.  
SPRID: 060309804
4. [BUG FIXED]  
Symptom: Local database user account can pass the authentication when using RADIUS only.  
Condition: 1) In eWC->Advanced->Wireless: choose security as "802.1X+NO WEP" and authentication database as "RADIUS only".

2) In eWC->Advanced->AUTH. Server->Trusted User: add one active user “1234”.

3) Wireless STA can use “1234” to pass the authentication.

SPRID: 060310888

5. [BUG FIXED]

Symptom: system reboot many times after overnight stress test. (16 STAs run FTP+HTTP data transmission)

Condition: The below two test cases can reproduce this issue.

1) Let 16 wireless clients associate to DUT at the same time, run the FTP and HTTP data transmission between eSTA and all wireless clients. After overnight test, DUT reboot many times.

2).DUT reboot when run WLAN throughput test for 64 WEP\128 WEP and WPA-PSK\WPA2-PSK.

SPRID: 060311932

6. [BUG FIXED]

Symptom: STA using wrong password and CA can still pass the WPA2 authentication once STA passed the WPA2 authentication before.

Condition: STA using wrong password and CA can still pass the WPA2 authentication once STA passed the WPA2 authentication before.

SPRID: 060313945

7. [FEATURE CHANGED]

-USA(255), Taiwan(238), Phillipine(216), India(214), Brazil(208) use 11 channels.

-Not Used(223, 251, 210), Morocco(239), Slovak(228), Slovenia(215), European CTR21(212),

ZyXEL(000) use 13 channels.

-Others (include Japan 234) use 13 channels.

**Modification in 3.60(AAF.0)b1 | 02/22/2006**

1. First firmware release

**CI Command List**

Command Class List Table		
<a href="#">System Related Command</a>	<a href="#">Exit Command</a>	<a href="#">Ethernet Related Command</a>
<a href="#">Wireless LAN Related Command</a>	<a href="#">IP Related Command</a>	<a href="#">Bridge Related Command</a>
<a href="#">Radius Related Command</a>	<a href="#">802.1x Related Command</a>	<a href="#">Certificates</a>
<a href="#">Radserv</a>		

**System Related Command**

[Home](#)

Command			Description
sys			
	Callhist		
		display	display call history
		remove	remove entry from call history
	countrycode	[countrycode]	set country code
	domainname		display domain name
	Edit	<filename>	edit a text file
	extraphnum		maintain extra phone numbers for outcalls
		add	add extra phone numbers
		<set 1-3> <1st phone num> [2nd phone num]	
		display	display extra phone numbers
		node	set all extend phone number to remote node <num>
		remove	remove extra phone numbers
		<set 1-3>	

		reset		reset flag and mask
	Feature			display feature bit
	Hostname		[hostname]	display system hostname
	Logs			
		Clear		clear log error
		Display		display log error
		Syslog		
			active [0:no/1:yes]	
			display <FacilityNo>	set/display syslog type flag
			facility [Local ID(1-7)]	set syslog facility
			server [domainName/IP]	set syslog server IP address
	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
	Trcdisp	parse, brief, disp		monitor packets
	Trclog			
	Trcpacket			
	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.

		tosctrl		
			destination	Display TOS destination hash
			incomplete	Display TOS incomplete List.
		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.
		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

[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
	breathLED		[0 1]	Turn off/on breath LED
	chid		[channel id]	set channel
	chgmod		<0: B+G, 1: B only, 3: G only>	
	essid		[ess id]	set ESS ID
	hideessid		<on, off>	
	intrabssblock		<0: Disable, 1: Enable>	
	preamble		<0: Dynamic, 1: Long>	
	removeSTA		<MAC ADDRESS>	Remove STA
	reset			Reset WLAN
	version			display WLAN version information

IP Related Command

[Home](#)

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 clinet 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](#)

Bridge		Command		Description
	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](#)

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

802.1x Related Command

[Home](#)

8021x		Command		Description
	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

Certificates Related Command

[Home](#)

certific ates		Command		Description
	my_cert	create	Self-signed request	
			Scep_enroll	
			Cmp_enroll	
		import		Import certificate.
		export	<name>	Export certificate.
		view	<name>	View certificate content.
		verify	<name> [timeout]	Verify certificate path.
		delete	<name>	Delete the specific certificate.
		list		List all my certificate.
		rename	<old name> <new name>	Rename the certificate.
		def_self_signed		Show the default self signed certificate name.
		replace_factory		Replace certificate to factory default.
	ca-trusted	Import	<name>	Import trust CA certificate.
		Export	<name>	Export trust CA certificate
		view	<name>	View trust CA certificate content
		Verify	<name> [timeout]	Verify trust CA certificate path.
		Delete	<name>	Delete the specific trust CA certificate.
		List		List all trust CA certificate.
		Rename	<old name> <new name>	Rename the trust CA certificate.
		Crl_issuer	<name> [on/off]	Check the crl of trust CA.
	Cert_manage	Reinit		Reinitialize the certificate manager.

	r			
	Debug_tools	Cm_reset		Reset the certificate manager.

Radserv Related Command

[Home](#)

		Command		Description
radserv				
	Time_out		<value(ms)>	Set radius server authenticate time out.
	authenticator	Set	<entry_no active [ip secret]>	Set trust AP.
		remove	<entry_no>	Remove trust AP.
		list		List trust AP.
	enable		<1 0>	Enable   disable internal RADIUS server.

## Internal Information:

### Known Issues:

1. Received more frames than were sent in SmartBits test.

### Features:

#### Modification in 3.60(AAF.0)C0 | 05/09/2006

1. [FEATURE CHANGED]  
Convert to FCS version.

#### Modification in 3.60(AAF.0)b4 | 05/03/2006

All changes are listed in external part.

#### Modification in 3.60(AAF.0)b3 | 04/20/2006

1. [FEATURE ENHANCED]  
Update ZD1212b wireless driver to v3.1.0.0 date 2006/04/20.

#### Modification in 3.60(AAF.0)b2 | 04/07/2006

2. [FEATURE ENHANCED]  
Change quick route configuration from 0x8bf2 to 0x9bf2 to support PPPOE of WAN encapsulation and firewall on.
3. [FEATURE ENHANCED]  
Update ZD1212b wireless driver to v3.1.0.0 date 2006/04/06.  
The main purpose is to support ZD1212B + AL2230S RF.  
Details please see driver release note "ZD1212x\_ReleaseNote\_ZyXEL\_CSM.doc".

#### Modification in 3.60(AAF.0)b1 | 02/22/2006

1. First firmware release

## 2. Manufactory Data in Bootbase

ZyNOS Version	: V3.60(AAF.0)   05/09/2006 17:38:00
Bootbase Version	: V1.05   04/20/2004 10:36:26
Vendor Name	: ZyXEL
Product Model	: G-2000PLUS v2
ZyNOS Code Model	: RAS G2000PLUSv2
HTP Code Model	: HTP_G2000PLUSv2
ZyNOS ROM address	: bfc20000
System Type	: 8
MAC Address	: 001349000001
Default Country Code	: FF
Boot Module Debug Flag	: 01
RomFile Version	: 5C
RomFile Checksum	: 73eb
ZyNOS Checksum	: e678
Core Checksum	: ef17

SNMP MIB level & OID	: 060102030405060708091011121314151617181920
Main Feature Bits	: C0
Other Feature Bits	:
	9F DF 00 00 00 00 00 00-00 00 00 00 00 00 00
	00 00 00 00 00 00 00 00-00 00 13 00 00 00

Notes:

- Debug Flag should be 0 after production. In our default release will be 1. Because in the manufacture process will need it to set the MAC address.
- Country code value will be change by production process. It will depend on the shipping country.
- MAC address will be change by production process. Only the fist 3 octets will be correct. The last 3 octets will depend on the production process.

### 3. Default ROM File Value Setting

· Menu 1 – General Setup

```
Menu 1 - General Setup

System Name= G-2000PLUSv2
Domain Name=

First System DNS Server= From ISP
IP Address= N/A
Second System DNS Server= From ISP
IP Address= N/A
Third System DNS Server= From ISP
IP Address= N/A
Edit Dynamic DNS= No

Press ENTER to Confirm or ESC to Cancel:
```

· Menu 1.1 – Configure Dynamic DNS

```
Menu 1.1 - Configure Dynamic DNS

Service Provider= WWW.DynDNS.ORG
Active= No
DDNS Type= DynamicDNS
Host Name 1=
Host Name 2=
Host Name 3=
Username=
Password= *****
Enable Wildcard Option= No
Enable Off Line Option= N/A
IP Address Update Policy:
  DDNS Server Auto Detect IP Address= No
  Use Specified IP Address= No
  Use IP Address= N/A

Press ENTER to Confirm or ESC to Cancel:
```

· Menu 2 – WAN Setup

```
Menu 2 - WAN Setup

MAC Address:
  Assigned By= Factory default
  IP Address= N/A

Press ENTER to Confirm or ESC to Cancel:
```

· Menu 3.1 – LAN Port Filter Setup

```
Menu 3.1 - LAN Port Filter Setup

Input Filter Sets:
  protocol filters=
  device filters=
Output Filter Sets:
  protocol filters=
  device filters=

Press ENTER to Confirm or ESC to Cancel:
```

· Menu 3.2 – TCP/IP and DHCP Ethernet Setup

```
Menu 3.2 - TCP/IP and DHCP Ethernet Setup

DHCP= Server          TCP/IP Setup:
Client IP Pool:
  Starting Address= 192.168.1.33  IP Address= 192.168.1.1
  Size of Client IP Pool= 32     IP Subnet Mask= 255.255.255.0
First DNS Server= From ISP      RIP Direction= Both
  IP Address= N/A              Version= RIP-1
Second DNS Server= From ISP     Multicast= None
  IP Address= N/A              Edit IP Alias= No
Third DNS Server= From ISP
  IP Address= N/A
DHCP Server Address= N/A

Press ENTER to Confirm or ESC to Cancel:
```

· Menu 3.2.1 – IP Alias Setup

```
Menu 3.2.1 - IP Alias Setup

IP Alias 1= No
  IP Address= N/A
  IP Subnet Mask= N/A
  RIP Direction= N/A
  Version= N/A
  Incoming protocol filters= N/A
  Outgoing protocol filters= N/A
IP Alias 2= No
  IP Address= N/A
  IP Subnet Mask= N/A
  RIP Direction= N/A
  Version= N/A
  Incoming protocol filters= N/A
  Outgoing protocol filters= N/A

Enter here to CONFIRM or ESC to CANCEL:
```

· Menu 3.5 – Wireless LAN Setup

```
Menu 3.5 - Wireless LAN Setup

ESSID= ZyXEL
Hide ESSID= No
Channel ID= CH06 2437MHz
RTS Threshold= 2432
Frag. Threshold= 2432
WEP Encryption= Disable

Edit MAC Address Filter= No
Edit Roaming Configuration= No
Breathing LED= Yes
Preamble= N/A
```

```
Default Key= N/A                802.11 Mode= Mixed
Key1= N/A
Key2= N/A                Block Intra-BSS Traffic= No
Key3= N/A
Key4= N/A
Authen. Method= N/A

Press ENTER to Confirm or ESC to Cancel:
```

• **Menu 3.5.1 – WLAN MAC Address Filter**

```
Menu 3.5.1 - WLAN MAC Address Filter

Active= No
Filter Action= Allowed Association
-----
1= 00:00:00:00:00:00  13= 00:00:00:00:00:00  25= 00:00:00:00:00:00
2= 00:00:00:00:00:00  14= 00:00:00:00:00:00  26= 00:00:00:00:00:00
3= 00:00:00:00:00:00  15= 00:00:00:00:00:00  27= 00:00:00:00:00:00
4= 00:00:00:00:00:00  16= 00:00:00:00:00:00  28= 00:00:00:00:00:00
5= 00:00:00:00:00:00  17= 00:00:00:00:00:00  29= 00:00:00:00:00:00
6= 00:00:00:00:00:00  18= 00:00:00:00:00:00  30= 00:00:00:00:00:00
7= 00:00:00:00:00:00  19= 00:00:00:00:00:00  31= 00:00:00:00:00:00
8= 00:00:00:00:00:00  20= 00:00:00:00:00:00  32= 00:00:00:00:00:00
9= 00:00:00:00:00:00  21= 00:00:00:00:00:00
10= 00:00:00:00:00:00  22= 00:00:00:00:00:00
11= 00:00:00:00:00:00  23= 00:00:00:00:00:00
12= 00:00:00:00:00:00  24= 00:00:00:00:00:00
-----

Enter here to CONFIRM or ESC to CANCEL:
```

• **Menu 3.5.2 –Roaming Configuration**

```
Menu 3.5.2 - Roaming Configuration

Active= No
Port #= N/A

Press ENTER to Confirm or ESC to Cancel:
```

• **Menu 4 - Internet Access Setup**

```
Menu 4 - Internet Access Setup

ISP's Name= ChangeMe
Encapsulation= Ethernet
Service Type= Standard
My Login= N/A
My Password= N/A
Retype to Confirm= N/A
Login Server= N/A
Relogin Every (min)= N/A
IP Address Assignment= Dynamic
IP Address= N/A
IP Subnet Mask= N/A
Gateway IP Address= N/A
Network Address Translation= SUA Only

Press ENTER to Confirm or ESC to Cancel:
```

· Menu 11.1 - Remote Node Profile

```
Menu 11.1 - Remote Node Profile

Rem Node Name= ChangeMe          Route= IP
Active= Yes

Encapsulation= Ethernet          Apply Alias= None
Service Type= Standard           Edit IP= No
Service Name= N/A                Session Options:
Outgoing:                         Edit Filter Sets= No
  My Login= N/A
  My Password= N/A
  Retype to Confirm= N/A
  Server= N/A
  Relogin Every (min)= N/A

Press ENTER to Confirm or ESC to Cancel:
```

· Menu 11.3 - Remote Node Network Layer Options

```
Menu 11.3 - Remote Node Network Layer Options

IP Address Assignment= Dynamic
IP Address= N/A
IP Subnet Mask= N/A
Gateway IP Addr= N/A

Network Address Translation= SUA Only
Metric= 1
Private= N/A
RIP Direction= None
  Version= N/A
Multicast= None

Enter here to CONFIRM or ESC to CANCEL:
```

· Menu 11.5 - Remote Node Filter

```
Menu 11.5 - Remote Node Filter

Input Filter Sets:
  protocol filters=
  device filters=
Output Filter Sets:
  protocol filters=
  device filters=

Enter here to CONFIRM or ESC to CANCEL:
```

· Menu 12 - IP Static Route Setup

```
Menu 12 - IP Static Route Setup

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____

Enter selection number:
```

· Menu 14 – Dial-in User Setup

```
Menu 14 - Dial-in User Setup

1. _____ 9. _____ 17. _____ 25. _____
2. _____ 10. _____ 18. _____ 26. _____
3. _____ 11. _____ 19. _____ 27. _____
4. _____ 12. _____ 20. _____ 28. _____
5. _____ 13. _____ 21. _____ 29. _____
6. _____ 14. _____ 22. _____ 30. _____
7. _____ 15. _____ 23. _____ 31. _____
8. _____ 16. _____ 24. _____ 32. _____

Enter Menu Selection Number:
```

· Menu 15.1.1 – Address Mapping Rules

```
Menu 15.1.1 - Address Mapping Rules

Set Name= DEFAULT

Idx Local Start IP Local End IP Global Start IP Global End IP Type
-----
1. 0.0.0.0 Server
2.
3.
4.
5.
6.
7.
8.
9.
10.

Action= None Select Rule= N/A

Press ENTER to Confirm or ESC to Cancel:
```

· Menu 15.1.1 – Address Mapping Rules

```
Menu 15.1.1 - Address Mapping Rules

Set Name= SUA

Idx Local Start IP Local End IP Global Start IP Global End IP Type
-----
1. 0.0.0.0 255.255.255.255 0.0.0.0 M-1
2. 0.0.0.0 Server
3.
4.
5.
6.
7.
8.
9.
10.

Action= None Select Rule= N/A

Press ENTER to Confirm or ESC to Cancel:
```

• **Menu 15.2 –Port Forwarding Setup**

Menu 15.2 - NAT Server Setup			
Rule	Start Port No.	End Port No.	IP Address
1.	Default	Default	0.0.0.0
2.	0	0	0.0.0.0
3.	0	0	0.0.0.0
4.	0	0	0.0.0.0
5.	0	0	0.0.0.0
6.	0	0	0.0.0.0
7.	0	0	0.0.0.0
8.	0	0	0.0.0.0
9.	0	0	0.0.0.0
10.	0	0	0.0.0.0
11.	0	0	0.0.0.0
12.	0	0	0.0.0.0

Press ENTER to Confirm or ESC to Cancel:

• **Menu 15.3 –Trigger Port Setup**

Menu 15.3 - Trigger Port Setup					
Rule	Name	Incoming		Trigger	
		Start Port	End Port	Start Port	End Port
1.		0	0	0	0
2.		0	0	0	0
3.		0	0	0	0
4.		0	0	0	0
5.		0	0	0	0
6.		0	0	0	0
7.		0	0	0	0
8.		0	0	0	0
9.		0	0	0	0
10.		0	0	0	0
11.		0	0	0	0
12.		0	0	0	0

Press ENTER to Confirm or ESC to Cancel:

• **Menu 21.1 – Filter Set Configuration**

Menu 21.1 - Filter Set Configuration			
Filter Set #	Comments	Filter Set #	Comments
1	_____	7	_____
2	_____	8	_____
3	_____	9	_____
4	_____	10	_____
5	_____	11	_____
6	_____	12	_____

```
Enter Filter Set Number to Configure= 0

Edit Comments= N/A

Press ENTER to Confirm or ESC to Cancel:
```

• **Menu 21.2 – Firewall Setup**

```
Menu 21.2 - Firewall Setup

The firewall protects against Denial of Service (DoS) attacks when
it is active.

Your network is vulnerable to attacks when the firewall is turned off.

Refer to the User's Guide for details about the firewall default
policies.

You may define additional Policy rules or modify existing ones but
please exercise extreme caution in doing so.

Active: Yes

You can use the Web Configurator to configure the firewall.

Press ENTER to Confirm or ESC to Cancel:
```

• **Menu 22 – SNMP Configuration**

```
Menu 22 - SNMP Configuration

SNMP:
Get Community= public
Set Community= public
Trusted Host= 0.0.0.0
Trap:
Community= public
Destination= 0.0.0.0

Press ENTER to Confirm or ESC to Cancel:
```

• **Menu 23.1 – System Security – Change Password**

```
Menu 23.1 - System Security - Change Password

Old Password= ?
New Password= ?
Retype to confirm= ?

Enter here to CONFIRM or ESC to CANCEL:
```

• **Menu 23.2 – System Security – RADIUS Server**

```
Menu 23.2 - System Security - RADIUS Server
```

```
Authentication Server:
Active= No
Server Address= 0.0.0.0
Port #= 1812
Shared Secret= *****

Accounting Server:
Active= No
Server Address= 0.0.0.0
Port #= 1813
Shared Secret= *****

Press ENTER to Confirm or ESC to Cancel:
```

· **Menu 23.4 – System Security – IEEE802.1X**

```
Menu 23.4 - System Security - IEEE802.1x

Wireless Port Control= No Authentication Required
ReAuthentication Timer (in second)= N/A
Idle Timeout (in second)= N/A

Key Management Protocol= N/A

PSK = N/A
WPA Compatible= N/A

WPA Broadcast/Multicast Key Update Timer= N/A

Authentication Databases= N/A

Press ENTER to Confirm or ESC to Cancel:
```

· **Menu 24.2.2 – System Maintenance - Change Console Port Speed**

```
Menu 24.2.2 - System Maintenance - Change Console Port Speed

Console Port Speed: 9600

Press ENTER to Confirm or ESC to Cancel:
```

· **Menu 24.3.2 – System Maintenance – UNIX Syslog**

```
Menu 24.3.2 - System Maintenance - UNIX Syslog

Syslog:
Active= No
Syslog IP Address= 0.0.0.0
Log Facility= Local 1

Press ENTER to Confirm or ESC to Cancel:
```

· **Menu 24.10 – System Maintenance – Time and Date Setting**

```
Menu 24.10 - System Maintenance - Time and Date Setting

Time Protocol= NTP (RFC-1305)
Time Server Address= 192.43.244.18

Current Time:                02 : 08 : 35
New Time (hh:mm:ss):        N/A  N/A  N/A

Current Date:                2000 - 01 - 01
New Date (yyyy-mm-dd):      N/A   N/A  N/A

Time Zone= GMT

Daylight Saving= No
Start Date (mm-nth-week-hr): Jan. - 1st - Sun.(02) - 00
End Date (mm-nth-week-hr):  Jan. - 1st - Sun.(02) - 00

Press ENTER to Confirm or ESC to Cancel:
```

· **Menu 24.11 – Remote Management Control**

```
Menu 24.11 - Remote Management Control

TELNET Server:   Port = 23      Access = LAN only
                  Secured Client IP = 0.0.0.0

FTP Server:      Port = 21      Access = LAN only
                  Secured Client IP = 0.0.0.0

Web Server:      Port = 80      Access = LAN only
                  Secured Client IP = 0.0.0.0

SNMP Service:    Port = 161     Access = LAN only
                  Secured Client IP = 0.0.0.0

DNS Service:     Port = 53      Access = LAN only
                  Secured Client IP = 0.0.0.0

Press ENTER to Confirm or ESC to Cancel:
```

· **Menu 26 – Schedule Setup**

```
Menu 26 - Schedule Setup

Schedule          Schedule
Set #            Name          Set #            Name
-----          -
1                _____  7                _____
2                _____  8                _____
3                _____  9                _____
4                _____  10               _____
5                _____  11               _____
6                _____  12               _____

Enter Schedule Set Number to Configure= 0
```

Edit Name= N/A

Press ENTER to Confirm or ESC to Cancel:

```
ras> sys view autoexec.net
ether driver qroute 9bf2
sys wdog cnt 600
ip adjmss 0
sys errctl 0
sys trcl level 5
sys trcl type 1180
sys trcl sw on
sys trcp cr 96 128
ip tcp limit 2
ip tcp irtt 65000
ip tcp ceiling 6000
ip tcp mss 1024
ip tcp window 4
ip rip activate
ip rip merge on
ppp ipcp com off
ip icmp disc enif0 off
bridge mode 1
sys mbuf debug off
sys wdog sw on
```