ZyXEL

Firmware Release Note

P650R-31

Standard version

Release 3.40(GT.4)C1

Date:	**Feb 28, 2005**
Author:	**Keil Chu**

ZyXEL P650-R31 Standard Version release 3.40(GT.4)C1 Release Note

Date: Feb 28, 2005

Supported Platforms:

ZyXEL P650R-31

Versions:

ZyNOS Version : V3.40(GT.4) | 12/12/2003 18:58:54
Bootbase Version : V1.11t | 1/19/2005 12:01:51

Notes:

Known Issues:

Features:

Modifications in V 3.40(GT.4)C1 | 02/28/2005
1. update bootbase to change MAC OUI from 00A0C5 to 001349(short term solution)

Modifications in V 3.40(GT.4)C0 | 12/12/2003
1. Change to FCS

Modifications in V 3.40(GT.4)b1 | 10/30/2003
2. [BUG FIXED]
   Symptom: VPN can't pass through router with NAT Traversal turns on
   Condition: Setup a VPN connection with NAT Traversal turns on and establish a connection. It will be failed.
3. [BUG FIXED]
   Symptom: The bp->extFlags is not cleared, so the wrong flag will affect the packet flow.
4. [BUG FIXED]
   Symptom: PPPOE can't be dialed quickly more than 30 seconds after idle timeout.
   Condition: Only use CHT real line can reproduce this problem.

Modifications in V 3.40(GT.3) | 9/09/2003
1. Change FCS version

Modifications in V 3.40(GT.3)b2 | 8/29/2003
1. [FEATURE ENHANCED]

340GT4C1.rtf

Symptom: Merge VC auto hunting feature
2. [FEATURE ENHANCED]
Symptom: Add CI command "ip adjmss [<mss>]" to adjust TCP mss value
3. [FEATURE EHANCED]
Symptom: Enhance SPTGEN feature
Condition:
   1) Add RIP direction and version for SMT menu4.
   2) Add active and protocol option for SMT menu15 (NAT).
   3) Extend filter set from 1 to 2 set.
   4) Support ADSL opencmd function.
4. [BUG FIX]
Symptom : Can't play XBox Live via NAT router.
5. [BUG FIXED]
Symptom: If the traffic for Polycom camera pass our router, the router would be reboot.
6. [BUG FIXED]
Symptom: The system will reboot in 10M half-duplex mode under big traffic

Modifications in V 3.40(GT.3)b1 | 5/28/2003
1. [FEATURE ENHANCED] Add Time Zone web-page in Advanced Setup panel.
2. [BUG FIXED]
Symptom: Web Diagnostic Bug
Condition: In Diagnostic page input IP Address, then press "Enter" system will reset to default romfile.
3. [BUG FIXED]
Symptom: If setting 1483/Router at ATUR and 1483/Bridge at ATUC and ping the ATUR wan IP from ATUC, the system would reboot.
Condition: If setting 1483/Router at ATUR and 1483/Bridge at ATUC and ping the ATUR wan IP from ATUC, the system would reboot.
4. [FEATURE ENHANCED] Add/modify 4 CI commands:
1)sys romreset <1:reboot|2:no reboot>
2)sys atsh /* add Flash and DRAM size */
3)sys atwe <mac address> <country code> <debug flag> <feature bits> < 1:reboot|0:no reboot>
4)sys stdio 0 [seconds]

Modifications in V 3.40(GT.2)C0 | 5/19/2003
1. Change FCS version

Modifications in V 3.40(GT.2)b1 | 5/7/2003
1. Update modem code to 3.9.122
2. [FEATURE CHANGED] Use AT command "atld" without enabled debug flag
3. [FEATURE ENHANCED] Add WAN feature (in Advance Panel) and improve wizard configuration in web-pages.
4. [BUG FIXED]
Symptom: Protected "rom-0" file, when user no login.
Condition: Protected "rom-0" file, when user no login.

5. [BUG FIXED]
   Symptom: DHCP client doesn't release the IP address when the IP address is expired
   Condition: System is configured in "enet encap" (DHCP client), and sometimes DHCP server doesn't response in a period of time, when the lease time is expired system should release WAN IP address

Modifications in V 3.40(GT.1)C0 | 12/2/2002
1. [BUG FIXED]
   Symptom: Bad DNS packets cause system reboot.
   Condition: Bad DNS packets cause system reboot.
2. [BUG FIXED]
   Symptom: LAN external loopback failed in HTP.
   Condition: LAN external loopback failed in HTP.

Modifications in V 3.40(GT.1)b4 | 11/22/2002
1. [BUG FIXED]
   Symptom: Cell lost at the upstream.
   Condition: Cell lost at the upstream.

Modifications in V 3.40(GT.1)b3 | 11/19/2002
1. [BUG FIXED]
   Symptom: Ping and TFTP functions sometimes do not work.
   Condition: Ping and TFTP functions sometimes do not work.
2. [BUG FIXED]
   Symptom: We can not save CBR/VBR setting in the web configuration.
   Condition: We can not save CBR/VBR setting in the web configuration.

Modifications in V 3.40(GT.1)b2 | 11/7/2002
1. [BUG FIXED]
   Symptom: 8 VCs bridge mode does not work.
   Condition: When we send the 1518 bytes packets from AX4000 in 8 VCs bridge mode, the system can't transmit and receive any packets.
2. [BUG FIXED]
   Symptom: When you set PPPoA/PPPoE nailed-up mode and change the encapsulation mode, you will not dial out again.
   Condition: When you set PPPoA/PPPoE nailed-up mode and change the encapsulation mode like PPPoA/LLC -> PPPoA/VC, you will not dial out again.
3. [BUG FIXED]
   Symptom: DDNS does not work at 1483 mode.
   Condition: When the encapsulation is 1483 and we change the ip setting for this channel, the ddns would not change the ip address for this domain name.

Modifications in V 3.40(GT.1)b1 | 10/31/2002
1. [FEATURE ENHANCED] Add UPNP Feature.
2. [FEATURE ENHANCED] Add Traffic Redirection Feature (detected by ADSL Line)
3. [BUG FIXED]

Symptom: The command "atba5" does not work in debug mode.
Condition: The command "atba5" does not work in debug mode.
4. [BUG FIXED]
Symptom: When we change the console baud rate, the system will display garbage.
Condition: Change the console baud rate in the debug mode.
4. [BUG FIXED]
Symptom: **We** cannot configure DDNS in SMT.
Condition: We cannot find any field to configure DDNS in SMT.
5. [FEATURE ENHANCED] Add the Core Checksum function.
6. [FEATURE ENHANCED] Add the PPPoA idle timeout function.
7. [BUG FIXED]
Symptom: The web page displays the incorrect modem code version.
Condition: The web page displays the incorrect modem code version.
8. [BUG FIXED]
Symptom: ATM loopback test fail in web configuration.
Condition: ATM loopback test fail in web configuration.
9. [FEATURE CHANGED] Modify the default rom file for standard version.

Modifications in V 3.40(GT.0)c0 | 10/09/2002
1.   Rename version from 3.40(GT.0)b9.

Modifications in V 3.40(GT.0)b9 | 10/04/2002
1.   [BUG FIXED] The Web ATM status error display.
2.   [BUG FIXED] No prompt to clear error log in TELNET session and could lead user
      not to clear log.
3.   [BUG FIXED] Can't perform ATM loopback in Web diagnostic page.

Modifications in V 3.40(GT.0)b8 | 09/25/2002
1.   [FEATURE CHANGED] Add no logo request for China.
2.   [FEATURE CHANGED] Add dying gasp recover that if dying gasp exceeds
      specified counter, system will reset.
3.   [BUG FIXED] Create default romfile to correct some wrong settings.
4.   [BUG FIXED] Fix f/w upload problem through Web configuration.
5.   [BUG FIXED] Fix bug that the first letter of string "My Password=" is covered by
      exceeded length of the previous field in SMT4.
6.   [BUG FIXED] The system may reset from fatal error log when line link up, the cause
      is due to double free data buffer.
7.   [BUG FIXED] Change the PPP encapsulation to PPPoA.
8.   [BUG FIXED] Modify "sys romreset" to query user if want to restore default romfile.
9.   [BUG FIXED] Add Web help pages.

Modifications in V 3.40(GT.0)b7 | 09/13/2002
1.   [BUG FIXED] Fix HTP SAR loopback test problem which no DMA can be
      triggered.

Modifications in V 3.40(GT.0)b6 | 09/12/2002
1. [BUG FIXED] In PPPoE connection, if the dynamic WAN IP address is different from the previous one, the ping packet to WAN could not get reply for the source IP address is still the previous one.

Modifications in V 3.40(GT.0)b5 | 09/11/2002
1. [BUG FIXED] When power on router, the exception occasionally happens due to periodical SAR timeout reset in case of cell rate calculation by zero speed before line link up.

Modifications in V 3.40(GT.0)b4 | 09/04/2002
1. [BUG FIXED] ADSL link up/down cause mbuf buffer leakage and no data can be transferred.
2. [BUG FIXED] Web configuration could cause system crash.
3. [BUG FIXED] HTP Ctrle initialization fail problem.
4. [BUG FIXED] ADSL link up/down cause mbuf buffer leakage and no data can be transferred.
5. [BUG FIXED].Can't open multiple VC connections in routing mode.
6. [FEATURE CHANGED] Add SAR reassembly timeout to prevent affecting throughput while cell lost occurs.
7. [FEATURE CHANGED] HTP UART internal loopback testing.

Modifications in V 3.40(GT.0)b3 | 08/19/2002
1. [BUG FIXED] SAR reassembly big packet problem which could cause system crash.
2. [BUG FIXED] MAC reset problem which could cause FTP throughput degradation and discontinuous PING.

Modifications in V 3.40(GT.0)b2 | 08/15/2002
1. [FEATURE CHANGED] Change modem code from 3.8.164 to 3.8.163 for line quality verification.
2. [FEATURE CHANGED] Adjust gain values in autoexec.net after system reboot. User should update rom file.
3. [BUG FIXED] SAR Rx DMA problem that results in no packet received.

Modifications in V 3.40(GT.0)b1 | 08/08/2002
1. [FEATURE CHANGED] Add dying gasp support.
2. [FEATURE CHANGED] Add PPPoE connection LED indication.
3. [FEATURE CHANGED] Add Reset Botton implementation.
4. [FEATURE CHANGED] CI command to display SAR MIB counter.
5. [BUG FIXED] Check rate adaption when Ctrl-E responses signal lost, it causes line to drop immediately.
6. [BUG FIXED] Can't get the correct modem version.
7. [BUG FIXED] DHCP can't work if we setup DHCP service.
8. [BUG FIXED] Can't telnet from PC to P650R-31 * PCE OS WIN98, WIN2000, or WINXP , when key the password then the link will be break off.
9. [BUG FIXED] Occasionally user can't ping router successfully in Win2000/XP. The

bug could cause ether driver can't send packet.

Modifications in V 3.40(GT.0)a1 | 07/12/2002
1. [NEW FEATUER] Add VBR support in SMT menu4 and menu11.6.

Annex A CI Command List

Command Class List Table		
System Related Command	Exit Command	Ethernet Related Command
WAN Related Command	IP Related Command	Bridge Related Command

System Related Command   Home

Command				Description
sys				
	adjtime			retrive date and time from Internet
	atsh			display MRD field
	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
	stdio	[minute]	[second]	change terminal timeout value
	time		[hour [min [sec]]]	display/set system time
	trcdisp	parse, brief, disp		monitor packets
	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	[1:reboot|2:no reboot]		restore default romfile
	socket			display system socket information
	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
	xmodemmode	[crc|checksum]		select xmodem mode

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
		status	<ch_name>	see LAN status
		config	[0|1=auto|normal] [0|1=10|100] [0|1=hd|fd] <ch-name>	Configure LAN Settings Auto/Normal, 100/10 Mbps, Half/Full Duplex
	version			see ethernet device type

WAN Related Command   Home

Command				Description
wan	adsl	bert		ADSL ber
		chandata		ADSL channel data, line rate
		close		Close ADSL line
		coding		ADSL standard current
		ctrleint		ADSL CTRLE response command
		defbitmap		ADSL defect bitmap status
		dyinggasp		Send ADSL dyinggasp
		fwav		Test the ADSL F/W available ping
		fwdl		Download modem code, but must reset first
		linedata		
		linedata	near	Show ADSL near end noise margin
		linedata	far	Show ADSL far end noise margin
		open		Open ADSL line
		opencmd		Open ADSL line with specific standard
		opmode		Show the operational mode
		perfdata		Show performance information,CRC,FEC, error seconds..
		rdata	[start] [length]	Read DSP CTRLE registers 512 bytes
		reset		Reset ADSL modem, and must reload the modem

				code again
		selftest		
		selftest	long	ADSL long loop test
		selftest	short	ADSL short loop test
		status		ADSL status (ex: up, down or wait for init)
		version		ADSL version information
		vendorid		ADSL vendor information
		utopia		Show ADSL utopia information
		cellcnt		Show ADSL cell counter
		display		
		display	shutdown	Show the counter of rate adaptive mechanism happening
		display	rateup	Show real status that rate adaptive mechanism happened
		rateadap	[on|off]	Turn on/off rate adaptive mechanism
		dumpcondition	[on|off]	Turn on/off online debug information of rate adaptive mechanism
		sampletime	[mins]	Tune the sample time of rate adaptive mechanism
		noisegt	[db]	if noise margin is 3db greater than before, and rate is worse than before, then system will do "L1 shutdown RA3", default is 3db
		noisemargin	[db]	if noise margin is greater than this value, and rate is worse than before, then system will do "L1 shutdown RA3", default is 8db
		persisttime	[time]	when the adaptive condition is matched system will continue to monitor the time period "persisttime" before doing "L1 shutdown RA3", default is 30 seconds
		timeinterval	[mins]	when "L1 shutdown RA3" is done twice, and still can't reach the max rate which system recorded, it will delay a time period that the period base time is"timeinterval" before starting again. The time-based default is 2 hrs
		defectcheck	[on|off]	Turn on/off detect table checking, default is on
		txgain	[value]	Set the CTRLE register (0xc3), the value is from 0xfa to 0x06
		targetnoise	[value]	Set the CTRLE register (0xc4), the value is from 0xfa to 0x06
		maxtonelimit	[value]	Set the CTRLE register (0xc5), the value is from 0xfa to 0x06
		rxgain	[value]	Set the CTRLE register (0xc6), the value is from 0xfa to 0x06
		txoutputpwr	[value]	Set the CTRLE register (0xc7), the value is from 0xfa to 0x06
		rxoutputpwr	[value]	Set the CTRLE register (0xc8), the value is from 0xfa to 0x06
		maxoutputpwr	[value]	Set the CTRLE register (0xc9), the value is from 0xfa to 0x06
		errorsecond		
		errorsecond	switch [1|0]	Turn on/off error sending to DSLAM side
		errorsecond	sendes	Send current error second information immediately
		dygasprecover		
		dygasprecover	level [value]	By default is 100, after receiving 100 dying gasp

				system will reboot
		dygasprecover	active [on|off]	Turn on/off this mechanism
		rsploss	[1|0]	Turn on means to response signal loss of CTRLE immediately, default is off
		watchdog	[1|0]	Watchdog for DSP
	atm	test	[fix|rand|period|oam|loopback]	Generate ATM traffic
wan	hwsar	disp		Display hwsar packets incoming/outgoing information
		clear		Clear hwsar packets information
		sendoam		Send OAM packets: <vpi> <vci> <f5> <end-to-end> <type:0(AIS) 1(RDI) 2(LoopBack)>
wan	atm	vchunt	add <remotenodeindex> <vpi> <vci>	add new vchunt entry
			remove <remotenodeindex> <vpi> <vci>	remove vchunt entry
			active <yes|no>	active vchunt feature
			display	display the setting
			clear	clear the setting buffer
			save	save the setting
			timer <timetocheckoam>	change the time interval
			send	start vchunt
			debug <1|0: on|of>	debug tools turn on

IP Related Command

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		
		stats		
			clear	clear dns statistics
			disp	display dns statistics
	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>]	add private route

				<gateway> [<metric>]	
			drop	<host addr> [/<bits>]	drop a route
	status				display ip statistic counters
	udp				
		status			display udp status
	tcp				
		status		[tcb] [<interval>]	display TCP statistic counters
	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

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

Internal Information:

1. Modification.

Modifications in V 3.40(GT.3)b2 | 8/29/2003
1.   This FW is the same code-base with 3.40(IX.3)b3 (P650R-31 for Switzerland)

Modifications in V 3.40(GT.2)b1 | 5/7/2003
1.   [FEATURE ENHANCED] Upgrade bootbase 1.11

Modifications in V 3.40(GT.1)b2 | 11/7/2002
1.   [FEATURE ENHANCED] Upgrade bootbase 1.05 to support SHARP flash and 100MHz platform.

2. Manufactory Data in Bootbase

```
ZyNOS Version          : V3.40(GT.4) | 12/12/2003 18:58:54
Bootbase Version       : V1.11t | 1/19/2005 12:01:51
Vendor Name            : ZyXEL Communications Corp.
Product Model          : Prestige 650R-31
ZyNOS Code Model       : P650R-31 ATU-R
HTP Code Model         : HTP_P650 V 0.07
ZyNOS ROM address      : bfc08000
System Type            : 7
MAC Address            : 001349000001
Default Country Code   : FF
Boot Module Debug Flag : 01
RomFile Version        : 23
RomFile Checksum       : e883
ZyNOS Checksum         : ca14
Core Checksum          : d064
SNMP MIB level & OID   : 060102030405060708091011121314151617181920
Main Feature Bits      : 86
Other Feature Bits     :
        93 02 00 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.
- MAC address will be changed 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= ?
                         Location=
                         Contact Person's Name=
                         Domain Name=
                         Edit Dynamic DNS= No

                         Route IP= Yes
                         Bridge= 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
  Host=
  EMAIL=
  USER=
  Password= ********
  Enable Wildcard= No


                  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 Setup

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

                  DHCP Setup
                    DHCP= Server
                    Client IP Pool Starting Address= 192.168.1.33
                    Size of Client IP Pool= 32
                    Primary DNS Server= 0.0.0.0
                    Secondary DNS Server= 0.0.0.0
                    Remote DHCP Server= N/A
                  TCP/IP Setup:
                    IP Address= 192.168.1.1
                    IP Subnet Mask= 255.255.255.0
                    RIP Direction= Both
                      Version= RIP-2B
                    Multicast= None
                    IP Policies=
                    Edit IP Alias= No
```

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

· Menu 4 Internet Access Setup

```
                        Menu 4 - Internet Access Setup

              ISP's Name= MyISP
              Encapsulation= ENET ENCAP
              Multiplexing= LLC-based
              VPI #= 8
              VCI #= 35
              ATM QoS Type= UBR
                Peak Cell Rate (PCR)= 0
                Sustain Cell Rate (SCR)= 0
                Maximum Burst Size (MBS)= 0
              My Login= N/A
              My Password= N/A
              Idle Timeout (sec)= N/A
              IP Address Assignment= Dynamic
                IP Address= N/A
              Network Address Translation= SUA Only
                Address Mapping Set= N/A


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

• Menu 11 Remote Node Setup

```
                     Menu 11 - Remote Node Setup

              1. MyISP (ISP, SUA)
              2. _____
              3. _____
              4. _____
              5. _____
              6. _____
              7. _____
              8. _____



                     Enter Node # to Edit:
```

· Menu 11.1 Remote Node Profile

```
                     Menu 11.1 - Remote Node Profile

      Rem Node Name= MyISP                 Route= IP
      Active= Yes                          Bridge= No

      Encapsulation= ENET ENCAP            Edit IP/Bridge= No
      Multiplexing= LLC-based              Edit ATM Options= No
      Service Name= N/A
      Incoming:                            Telco Option:
        Rem Login= N/A                       Allocated Budget(min)= N/A
        Rem Password= N/A                    Period(hr)= N/A
      Outgoing:                              Schedule Sets= N/A
        My Login= N/A                        Nailed-Up Connection= N/A
        My Password= N/A                   Session Options:
        Authen= N/A                          Edit Filter Sets= No
                                             Idle Timeout(sec)= N/A
                                           Edit Traffic Redirect= No

                     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 Options:                          Bridge Options:
      IP Address Assignment= Dynamic       Ethernet Addr Timeout(min)= N/A
      Rem IP Addr= 0.0.0.0
      Rem Subnet Mask= 0.0.0.0
      My WAN Addr= N/A
      NAT= SUA Only
        Address Mapping Set= N/A
      Metric= 2
      Private= No
      RIP Direction= None
        Version= RIP-1
      Multicast= None
      IP Policies=

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

● Menu 11.6 Remote Node ATM Layer Options

```
              Menu 11.6 - Remote Node ATM Layer Options
              VPI/VCI (LLC-Multiplexing or PPP-Encapsulation)

                     VPI #= 8
                     VCI #= 35
                     ATM QoS Type= UBR
                     Peak Cell Rate (PCR)= 0
                     Sustain Cell Rate (SCR)= 0
                     Maximum Burst Size (MBS)= 0

                 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= 12, 11
                 device filters=
             Output Filter Sets:
               protocol filters=
                 device filters=

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

· Menu 11.7 Traffic Redirect Setup

```
                  Menu 11.7 - Traffic Redirect Setup

             Active= No
             Configuration:
               Backup Gateway IP Address= 0.0.0.0
               Metric= 15

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

· Menu 12.1 IP Static Route Setup

```
                  Menu 12.1 - IP Static Route Setup

             1. _____
             2. _____
             3. _____
```

```
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____
11. _____
12. _____
13. _____
14. _____
15. _____
16. _____
          Enter selection number:
```

·   Menu 12.1.1 Edit IP Static Route

```
        Menu 12.1.1 - Edit IP Static Route

Route #: 1
Route Name= ?
Active= No
Destination IP Address= ?
IP Subnet Mask= ?
Gateway IP Address= ?
Metric= 2
Private= No


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

●   Menu 12.3 Bridge Static Route Setup

```
         Menu 12.3 - Bridge Static Route Setup

1. _____
2. _____
3. _____
4. _____

Enter selection number:
```

·   Menu 12.3.1 - Edit Bridge Static Route

```
        Menu 12.3.1 - Edit Bridge Static Route

Route #: 1
Route Name= ?
Active= No
Ether Address= ?
IP Address=
Gateway Node= 1

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

·   Menu 15 - NAT Setup

```
             Menu 15 - NAT Setup

1. Address Mapping Sets
2. NAT Server Sets


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

· Menu 15.1 - Address Mapping Sets

```
                  Menu 15.1 - Address Mapping Sets

                 1.
                 2.
                 3.
                 4.
                 5.
                 6.
                 7.
                 8.
               255. SUA (read only)


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

· Menu 15.1.1 – Address Mapping Rules

```
                   Menu 15.1.1 - Address Mapping Rules

  Set Name= ?

 Idx  Local Start IP   Local End IP    Global Start IP  Global End IP   Type
 ---  --------------- --------------- --------------- --------------- ------
  1.
  2.
  3.
  4.
  5.
  6.
  7.
  8.
  9.
 10.
                    Action= None         Select Rule= N/A

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

● Menu 15.2 – NAT Server Sets

```
                      Menu 15.2 - NAT Server Sets

                1. Server Set 1 (Used for SUA Only)
                2. Server Set 2
                3. Server Set 3
                4. Server Set 4
                5. Server Set 5
                6. Server Set 6
                7. Server Set 7
                8. Server Set 8
                9. Server Set 9
               10. Server Set 10



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

· Menu 15.2 –NAT Server Setup (Used for SUA Only)

```
                   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 21 Filter Set Configuration

```
               Menu 21 - Filter Set Configuration

     Filter                              Filter
     Set #       Comments                Set #       Comments
     ------   -----------------          ------   -----------------
       1       NetBIOS_WAN                 7       _____
       2       NetBIOS_LAN                 8       _____
       3       TELNET_WAN                  9       _____
       4       PPPoE                      10       _____
       5       FTP_WAN                    11       WebSet1
       6       _____           12       WebSet2


                  Enter Filter Set Number to Configure= 0

                  Edit Comments= N/A

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

● Menu 21.1 Filter Rules Summary (for NetBIOS_WAN)

```
                   Menu 21.1 - Filter Rules Summary

  # A Type                  Filter Rules                     M m n
  - - ---- --------------------------------------------------- - - -
  1 Y IP   Pr=6, SA=0.0.0.0, DA=0.0.0.0, DP=137              N D N
  2 Y IP   Pr=6, SA=0.0.0.0, DA=0.0.0.0, DP=138              N D N
  3 Y IP   Pr=6, SA=0.0.0.0, DA=0.0.0.0, DP=139              N D N
  4 Y IP   Pr=17, SA=0.0.0.0, DA=0.0.0.0, DP=137             N D N
  5 Y IP   Pr=17, SA=0.0.0.0, DA=0.0.0.0, DP=138             N D N
  6 Y IP   Pr=17, SA=0.0.0.0, DA=0.0.0.0, DP=139             N D F




                 Enter Filter Rule Number (1-6) to Configure:
```

· Menu 21.2 Filter Rules Summary (for NetBIOS_LAN)

```
                   Menu 21.2 - Filter Rules Summary

  # A Type                  Filter Rules                     M m n
  - - ---- --------------------------------------------------- - - -
  1 Y IP   Pr=17, SA=0.0.0.0, SP=137, DA=0.0.0.0, DP=53      N D F
  2 N
```

```
 3 N
 4 N
 5 N
 6 N


                     Enter Filter Rule Number (1-6) to Configure:
```

- Menu 21.3 Filter Rules Summary (for TELNET_WAN)

```
                       Menu 21.3 - Filter Rules Summary

 # A Type                      Filter Rules                            M m n
 - - ---- ------------------------------------------------------------ - - -
 1 Y IP   Pr=6, SA=0.0.0.0, DA=0.0.0.0, DP=23                          N D F
 2 N
 3 N
 4 N
 5 N
 6 N


                     Enter Filter Rule Number (1-6) to Configure:
```

· Menu 21.4 Filter Rules Summary (for PPPoE)

```
                       Menu 21.4 - Filter Rules Summary

 # A Type                      Filter Rules                            M m n
 - - ---- ------------------------------------------------------------ - - -
 1 Y Gen  Off=12, Len=2, Mask=ffff, Value=8863                         N F N
 2 Y Gen  Off=12, Len=2, Mask=ffff, Value=8864                         N F D
 3 N
 4 N
 5 N
 6 N


                     Enter Filter Rule Number (1-6) to Configure:
```

· Menu 21.5 Filter Rules Summary (for FTP_WAN)

```
                       Menu 21.5 - Filter Rules Summary

 # A Type                      Filter Rules                            M m n
 - - ---- ------------------------------------------------------------ - - -
 1 Y IP   Pr=6, SA=0.0.0.0, DA=0.0.0.0, DP=21                          N D F
 2 N
 3 N
 4 N
 5 N
 6 N


                     Enter Filter Rule Number (1-6) to Configure:
```

- Menu 21.11 Filter Rules Summary (for WebSet1)

```
                       Menu 21.11 - Filter Rules Summary

 # A Type                      Filter Rules                            M m n
 - - ---- ------------------------------------------------------------ - - -
 1 Y IP   Pr=17, SA=0.0.0.0, DA=0.0.0.0, DP=161                        N D N
 2 Y IP   Pr=17, SA=0.0.0.0, DA=0.0.0.0, DP=162                        N D F
 3 N
 4 N
```

```
 5 N
 6 N

                  Enter Filter Rule Number (1-6) to Configure:
```

- Menu 21.12 Filter Rules Summary (for WebSet2)

```
                     Menu 21.12 - Filter Rules Summary

 # A Type                  Filter Rules                       M m n
 - - ---- --------------------------------------------------- - - -
 1 Y IP   Pr=6, SA=0.0.0.0, DA=0.0.0.0, DP=23               N D N
 2 Y IP   Pr=6, SA=0.0.0.0, DA=0.0.0.0, DP=21               N D N
 3 Y IP   Pr=17, SA=0.0.0.0, DA=0.0.0.0, DP=69              N D N
 4 Y IP   Pr=6, SA=0.0.0.0, DA=0.0.0.0, DP=80               N D N
 5 N
 6 N


                  Enter Filter Rule Number (1-6) to Configure:
```

· 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 – System Password:

```
                     Menu 23 - System Password

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

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

· Menu 24.2.1: System Maintenance - Information

```
             Menu 24.2.1 - System Maintenance - Information

              Name:
              Routing: IP
              ZyNOS F/W Version: V3.40(GT.4) | 12/12/2003
              ADSL Chipset Vendor:  Alcatel, Version  3.9.122
              Standard: Multi-Mode

              LAN
                Ethernet Address: 00:13:49:00:00:01
                IP Address: 192.168.1.1
                IP Mask: 255.255.255.0
                DHCP: Server
```

```
                         Press ESC or RETURN to Exit:
```

· 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

                     UNIX Syslog:
                       Active= No
                       Syslog IP Address= ?
                       Log Facility= Local 1

                     Types:
                       CDR= No
                       Packet triggered= No
                       Filter log= No
                       PPP log= No


                     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

        Use Time Server when Bootup= None
        Time Server Address= N/A

        Current Time:                       00 : 01 : 01
        New Time (hh:mm:ss):                00 : 01 : 01

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

        Time Zone= GMT

        Daylight Saving= No
        Start Date (mm-dd):                        01 - 00
        End Date (mm-dd):                          01 - 00



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

• Menu 24.11: System Maintenance – Remote Management Control

```
                    Menu 24.11 - Remote Management Control

      TELNET Server:
        Server Port = 23                 Server Access = Lan Only
        Secured Client IP = 0.0.0.0

      FTP Server:
        Server Port = 21                 Server Access = Lan Only
        Secured Client IP = 0.0.0.0
```

```
     Web Server:
       Server Port = 80                       Server Access = Lan Only
       Secured Client IP = 0.0.0.0


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

·   ras> sys view autoexec.net
        sys errctl 0
        sys trcl level 5
        sys trcl type 1180
        sys trcp cr 64 96
        sys trcl sw off
        sys trcp sw off
        ip tcp mss 512
        ip tcp limit 2
        ip tcp irtt 65000
        ip tcp window 2
        ip tcp ceiling 6000
        ip rip activate
        ip rip merge on
        ip icmp discovery enif0 off
        ppp ipcp compress off
        sys wdog sw on
        sys quick enable
        wan adsl rateadap off

ras> wan adsl txgain
usage: gain value should be >= 0xfa or <= 0x06
current value:0

ras> wan adsl rxgain
usage: gain value should be >= 0xfa or <= 0x06
current value:0

ras> wan adsl targetnoise
usage: gain value should be >= 0xfa or <= 0x06
current value:0

UPNP is inactive.