



**Firmware Release Note**

**Prestige 660R-61C**

**Standard version**

**Release 3.40(UH.2)C0**

<b>Date:</b>	<b>May 09, 2005</b>
<b>Author:</b>	<b>Richard</b>

# **ZyXEL Prestige 660R-61C Standard Version**

## **Release 3.40(UH.2)C0**

### **Release Note**

**Date:** May 9, 2005

#### **Supported Platforms:**

ZyXEL Prestige 660R-61C

#### **Versions:**

ZyNOS Version : V3.40(UH.2) | 05/09/2005 16:26:32

Bootbase Version : V1.05 | 02/27/2003 02:00:00

#### **Notes:**

The Prestige 660R-61C, is 4th generation of Zyxel ADSL product family. It is a high performance ADSL/ADSL2/ADSL2+ router for small/medium office to have Internet access and LAN-to-LAN application over the existing copper line. P660R-61C takes advantage of much higher data rate than ADSL, speed up to 12Mbps (ADSL2) or 26Mbps (ADSL2+), greater reach, faster start-up, advanced diagnostics and better power management. This high performance ADSL router is a rich features router to meet the demand of next generation ADSL market.

P660R-61C provides one auto-detection 10/100BASE-T Ethernet port for connection to the user's local network, and a single RJ-11/RJ-45 port for connection to ADSL/ADSL2/ADSL2+ line.

The version of TI AR7 modem code is [03.02.06.00](#).

#### **Known Issues:**

1. CLI command list is not finished.
2. Currently, QoS of VBR function can't work fine. This issue is TI chipset known issue.
3. Saw shaped throughput plot is observed from AX4000 traffic analyzer when doing FTP test.
4. Only Windows messenger 4.7 is supported. Windows messenger 5.0 has some issue.
5. Use ENET ENCAP mode, Traffic Redirect function does not work.
6. AX4000 OAM F4 loopback test can't pass.
- 7 the ADSL2+ throughput and Loop & Reach test are failed

#### **Features:**

**Modification in 3.40(UH.2)C0 | 05/09/2005**

1 change to FCS

**Modification in 3.40(UH.2)b1 | 04/18/2005**

1 [BUG FIXED]

Symptom: VC auto hunt can not work

Condition: N/A

2 change modem code to ADSL 2+ 3.2.6

3 [Feature change]

adsl CI command change format as request

4 support multi boot server V2

5 chang HTP for ADSL 2+

6 long term solution change default MAC 00:13:49:00:00:01.

7 [BUG FIXED]

Symptom: When we get rom-t from lan side by FTP , and modified it, then put rom-t ,the device will show not enough memory.

Condition:N/A.

8[BUG FIXED]

Symptom: Setting in eWC/WAN will change vchunt acitve to inactive.

Condition: step1 active vchunt in menu 24.8 and save

step2 enter eWC/WAN to do some change, for example, change VPI/VCi 0/33 to 0/34

step3 enter SMT menu 24.8 to check VC hunt status, you will find it have been inactive.

9 [BUG FIXED]

Symptom: TFTP cannot work when telnet port change.

Condition: step1 enter menu 24.11 to change Tenlet port

step2 telnet DUT use the changed port

step3 you will find TFTP ”cannot work.

10[BUG FIXED]

Symptom: In LAN side pc, type ”http://192.168.1.1/zCfgTestFail.html” as the url, a error dialogue is prompted. So as ”http://192.168.1.1/zCfgFinish.html” and ”http://192.168.1.1/zCfgWaitTestFrame.html”.

Condition:N/A.

11 [BUG FIXED]

Symptom: Connect DUT to lan port of zywall via IES, the wan port of zywall connect to internet; DUT get ip address and dns server from zywall lan dhcp server; when primary dns server is unreachable, secondary dns server doesn’t work either.

Condition: N/A.

12[BUG FIXED]

Symptom: In menu 24.2.1,show Standard :Multi-Mode,but in eWC Maintenance->System Status,Standard :ADSL\_G.dmt .

Condition: N/A.

13[BUGFIXED]

Symptom: it,but failed to login eWC when input 31 characters

Condition: When set 31 characters password on eWC,DUT will accept.

14[BUGFIXED]

**ZyXEL Confidential**

Symptom: The IP routing Policy don't work properly

Condition:N/A

15[BUGFIXED]

Symptom: the device will hang or reboot

Condition: if a link request is given in IE can hang/reboot the ZyXEL-device.

http://192.168.1.1/Forms/rpAuth\_1?ZyXEL%20ZyWALL%20Series<script>top.location.pathname=%20"</script>

16[BUGFIXED]

Symptom:,the device won't accept the new rom-t. (Just only use ultraedit modify rom-t, the DUT can accept it, but while use other utilities--DOS Edit/Word/Notepad/WordPad modify the rom-t, the DUT can not accept it.)

Condition: When we get rom-t from LAN side by FTP , and modified it, then put rom-t

17 [BUG FIXED]

Symptom: using wordpad edit the rom-t file, the PPPoE password will be changed unexpected.

Condition: (1)In SMT menu4, set encapsulation to PPPoE mode and make sure the DUT can dial up.

(2) Get rom-t and use wordpad to edit it, change the sysname to "hehe" and save.

(3) upload the edited file to the DUT, and the DUT can't dial up PPPoE password is changed to correct one.(use notepad and UltraEdit have no problem)

18[BUG FIXED]

SPRID:050301058, 050310508

Symptom: In smt21.1 IP filter, IP=\*.\*.\*, mask=255.255.255.0, it can save... the correct mask is 255.255.255.255. or IP=\*.\*.\*.0, mask=255.255.255.0

Condition: N/A

19[BUGFIXED]

SPRID: 050310549

symptom: we can not set device ip 0.0.0.0 in SMT ,but we can set it in eWC  
condition: N/A

20 [Feature Change]

We can not delete menu 4.

21[BUG FIXED]

Symptom: Special URL will cause system crash.

Condition: Form LAN site, enter

http://192.168.1.1/Forms/rpAuth\_1?ZyXEL%20ZyWALL%20Seriescript>top.location.pathname=%20"</script> on browser, the device will crash.

22[BUGFIXED]

SPRID:050329394, 050307379

Symptom: When 2 PCs visit eWC of DUT, the priority have some problem

Condition: Step1 The first PC visit the eWC of DUT, and keep login status

Step2 Then the second PC temp to access the eWC of DUT, and show the page of password entry Step3 Clicking login make the first PC logout automatically, although

the second PC also can not login eWC

**ZyXEL Confidential**

23[BUG FIXED]

SPRID: 050107337

Symptom: in eWC NAT can not work correctly if I change the Server Mapping Set.

Condition:

Step1: in eWC =>Advanced Setup=>NAT,choose Full Feature and Edit the Rule 1;

Step2: choose the Type as Server mode,and set the Globle IP as the Wan ip of the DUT;

Step3: Server Mapping Set choose 2,and Edit Details,and add the Port 2121 forward to the LAN PC "10.0.0.2";

Step3: using an PC in the Wan to access the ftp(port 2121) server on the LAN PC.This must be successful;

Step4: then choose the Server Mapping Set 3, and Edit Details to add the Port 23 forward to the LAN PC. then Apply.

ftp from the WAN to the LAN also can successful, but telnet from WAN to LAN can not work.

Then reboot the DUT, the Server Mapping Set 3 can work, but the details shows the error information.

24[BUGFIXED]

Symptom: ping can not continue

Condition: if you set enet encap, and then ping a ip to wan , and then pull off wan, pull on it again .

25[BUG FIXED]

Symptom: Device will Crash

Condition: In smt ,ip ping and Ctrl+c repeat quickly

26[BUG FIXED]

Symptom: device will crash

Condition: we ftp to device and then change to http in IE browser

27[Bug FIXED]

SPRID: 041028829

Symptom :You can not modify firewall rule, Nat - address mapping rule does not show in the appropiate / exact colum

Condition :if using other web browsers like Mozilla 1.7.5.

28[BUG FIXED]

Symptom:when remote node change from ENET ENCAP with static IP to ENET ENCAP dynamic or PPPoE, the static routing entry added before will still exist.

Condition: N/A

29[Feature Update]

In Web redirect page , We note customer that PPPoE username and Password is wrong wite RED colour

30[Bug Fixed]

Symptom: it will come out an warning "Subnet Mask Format Error!!!".

Condition: . When you access the Prestige through Web GUI, if you try to change the LAN subnet mask to 255.255.248.0

31[BUG Fixed]

Symptom: Change to bridge mode from GUI Wizard, the SMT menu1 do not change to bridge and LAN pc can't get ip

**ZyXEL Confidential**

Condition:

Step1 enter GUI wizard change route mode to bridge mode

Step2 enter SMT menu1 Route IP= Yes; Bridge= No(it don't change)

Step3 reboot DUT the LAN pc can not get ip and can not get out via DUT

**Modification in 3.40(UH.1)C0 | 11/23/2004**

1. Change to FCS version.

**Modification in 3.40(UH.1)b1 | 11/16/2004**

1. [BUG FIXED]

Symptom :Using MultiBootSrv upload firmware, when it finish, system will auto reboot.

Condition: N/A

2. Delete UART External loopback test in HTP.

**Modification in 3.40(UH.0)C0 | 10/26/2004**

1. Change to FCS version.

**Modification in 3.40(UH.0)b2 | 10/20/2004**

1. [BUG FIXED]

Symptom: When set PPPoE pass-through,can't ping device LAN IP address.

Condition: When we set PPPoE pass-through in Menu 11.8, the LAN side PC can dynamic get the IP address, but can not get reply from ping the LAN IP address.

2. [BUG FIXED]

Symptom: Use bridge mode, PC can't get reply from ping 192.168.1.1.

Condition: Use bridge mode,RFC 1483,open DHCP,the LAN side PC can not get reply from ping 192.168.1.1.

3. [BUG FIXED]

Symptom: Save DNS server in menu 3.2,if we don't reset, it can't work.

Condition: We save DNS server in menu 3.2 after reset default rom file and if we don't reset system and issue "ip ping www.hinet.net" that it can not be work and it must reboot.

4. [BUG FIXED]

Symptom: ping traffic is blocked from the WAN also block LAN to WAN.

Condition: When we enable "ping traffic is blocked from the WAN " function that it will also block LAN->WAN.

5. [BUG FIXED]

Symptom: ZyXEL Prestige Router Discloses Portions of Memory Content.

Condition: ZyXEL Prestige Router Discloses Portions of Memory Contents to Remote Users. send icmp packet with less data than normal so remote interface padd , ping -l 0 router.

6. [BUG FIXED]

Symptom&Condition: When set Nail up=Yes,schedule set from force down to force on,the PPPoE can not up unless reboot.

7. [BUG FIXED]

## ZyXEL Confidential

Symptom: eWC will hang when UPNP feature of our device is enabled.

Condition:(1) install windows xp service packet 2 in PC

(2)enable firewall of windows xp and also enable UPNP framework pass through or disable firewall of windows XP.

(3) login in P660HW via eWC and enable UPNP, eWC will not be able to access.

(4)the bug doesn't occur every time, but most time it will occur.

8. [BUG FIXED]

Symptom:. SIP pass through can't work.

Condition: The SIP ALG do not process the "SIP INFO" message. And some of the fields in SIP message do not be transferred by ALG.

9. [BUG FIXED]

Symptom :Bug fix incompletely: in eWC, Advanced Setup >> NAT Edit Address Mapping Rule, click "Edit Details". Information will be save.

Condition: N/A

10. [BUG FIXED]

Symptom: Menu 15.1 the info "Enter Menu selection number" is showed duplicate .

Condition : Menu 15.1 the info "Enter Menu selection number" is showed duplicate .

11. [BUG FIXED]

Symptom: Using DoS tool "Bonk.exe", do DoS attack from LAN to WAN, device get exception or Hang.

Condition : Device crashed (exception) or hang when a client PC ran a port scan tool.

PC ---- P660HW-61 ---- Internet ---- ZyWALL 70,Ran a port scan AP

(BONK) on PC to attack ZyWALL 70.parameter(bonk <IP> -p 7 -d 10).

P660HW-61 will crashed with exception log after few mins (4000+ counts of port scan).

## **Modification in 3.40(UH.0)b1 | 9/30/2004**

1. Create this project.

## **Annex A 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="#">WAN Related Command</a>	<a href="#">IP Related Command</a>	<a href="#">PPP Related Command</a>
<a href="#">Bridge Related Command</a>		

### System Related Command

[Home](#)

Command				Description
sys				
	adjtime			retrive date and time from Internet
	cbuf			
	display	[a/f/u]		display cbuf a: all f: free u: used
	cnt			cbuf static
		Display		display cbuf static
		Clear		clear cbuf static
	baud		<1..5>	change console speed

**ZyXEL Confidential**

	callhist			
		display		display call history
		remove	<index>	remove entry from call history
	clear			clear the counters in GUI status menu
	countrycode		[countrycode]	set country code
	date		[year month date]	set/display date
	domainname			display domain name
	edit		<filename>	edit a text file
	enhanced			return OK if commands are supported for PWC purposes
	errctl		[level]	set the error control level 0:crash no save,not in debug mode (default) 1:crash no save,in debug mode 2:crash save,not in debug mode 3:crash save,in debug mode
	event			
		display		display tag flags information
		trace		display system event information
			Display	display trace event
			clear <num>	clear trace event
	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
	fid			
		display		display function id list
	firmware			display ISDN firmware type
	hostname		[hostname]	display system hostname
	iface			
		disp	[#]	display iface list
	isr		[all used free]	display interrupt service routine
	interrupt			display interrupt status
	log			
		category		
			access [0:none/1:log]	record the access control logs
			Display	display the category setting
			error [0:none/1:log/2:alert/3:both]	record and alert the system error logs
			mten [0:none/1:log]	record the system maintenance logs
			upnp [0:none/1:log]	record upnp logs
			Urlblocked [0:none/1:log/2:alert/3:both]	record and alert the web blocked logs
			urlforward [0:none/1:log]	record web forward logs
		clear		clear log
		display		display all logs
		errlog		
			Clear	display log error
			Disp	clear log error
			Online	turn on/off error log online display
		load		load the log setting buffer



**ZyXEL Confidential**

		mail		
			alertAddr [mail address]	send alerts to this mail address
			Display	display mail setting
			logAddr [mail address]	send logs to this mail address
			schedule display	display mail schedule
			schedule hour [0-23]	hour time to send the logs
			schedule minute [0-59]	minute time to send the logs
			schedule policy [0:full/1:hourly/2:daily/3:weekly/4:none]	mail schedule policy
			schedule week [0:sun/1:mon/2:tue/3:wed/4:thu/5:fri/6:sat]	weekly time to send the logs
			server [domainName/IP]	mail server to send the logs
			Subject [mail subject]	mail subject
		save		save the log setting buffer
		syslog		
			active [0:no/1:yes]	active to enable unix syslog
			Display	display syslog setting
			facility [Local ID(1-7)]	log the messages to different files
			server [domainName/IP]	syslog server to send the logs
	mbuf			
		cnt		
			Disp	display system mbuf count
			Clear	clear system mbuf count
		link	Link	list system mbuf link
		pool	<id> [type]	list system mbuf pool
		status		display system mbuf status
		disp	<address>	display mbuf status
		debug	[on/off]	
	memory		<address> <length>	display memory content
	memwrite		<address> <len> [data list ...]	write some data to memory at <address>
	memwl		<address>	write long word to memory at <address>
	memrl		<address>	read long word at <address>
	memutil			
		usage		display memory allocate and heap status
		mqueue	<address> <len>	display memory queues
		mcell	mid [f u]	display memory cells by given ID
		msecs	[a f u]	display memory sections
		mtstart	<n-mcell>	start memory test
		mtstop		stop memory test
		mtalloc	<size> [n-mcell]	allocate memory for testing
		mtfree	<start-idx> [end-idx]	free the test memory
	model			display server model name
	proc			
		display		display all process information
		stack	[tag]	display process's stack by a give TAG
		pstatus		display process's status by a give TAG
	queue			
		display	[a f u] [start#] [end#]	display queue by given status and range numbers
		ndisp	[qid]	display a queue by a given number
	quit			quit CI command mode
	reboot		[code]	reboot system

**ZyXEL Confidential**

				code = 0 cold boot, = 1 immediately boot = 2 bootModule debug mode
	reslog			
		disp		display resources trace
		clear		clear resources trace
	stdio		[second]	change terminal timeout value
	time		[hour [min [sec]]]	display/set system time
	timer			
		disp		display timer cell
		trace	[on off]	set/display timer information online
		start	[tmValue]	start a timer
		stop	<ID>	stop a timer
	trcdisp			monitor packets
	trclog			
		switch	[on off]	set system trace log
		online	[on off]	set on/off trace log online
		level	[level]	set trace level of trace log #:1-10
		type	<bitmap>	set trace type of trace log
		disp		display trace log
		clear		clear trace
		call		display call event
		encapmask	[mask]	set/display tracelog encapsulation mask
	trcpacket			
		create	<entry> <size>	create packet trace buffer
		destroy		packet trace related commands
		channel	<name> [none incoming outgoing bothway]	<channel name>=enet0,sdsl00, fr0 set packet trace direction for a given channel
		string		enable smt trace log
		switch	[on off]	turn on/off the packet trace
		disp		display packet trace
		udp		send packet trace to other system
			switch [on off]	set tracepacket upd switch
			addr <addr>	send trace packet to remote udp address
			port <port>	set tracepacket udp port
		parse	[[start idx], end idx]	parse packet content
		brief		display packet content briefly
	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
	server			
		access	<telnet ftp web icmp snmp dns> <value>	set server access type
		load		load server information
		disp		display server information
		port	<telnet ftp web snmp> <port>	set server port
		save		save server information
		secureip	<telnet ftp web icmp snmp dns> <ip>	set server secure ip addr
	spt			
		dump		dump spt raw data
			Root	dump spt root data

**ZyXEL Confidential**

			Rn	dump spt remote node data
			User	dump spt user data
			Slot	dump spt slot data
		save		save spt data
		size		display spt record size
		clear		clear spt data
	cmgr			
		trace		
			disp <ch-name>	show the connection trace of this channel
			clear <ch-name>	clear the connection trace of this channel
		cnt	<ch-name>	show channel connection related counter
	socket			display system socket information
	filter			
		clear		clear filter statistic counter
		disp		display filter statistic counters
		sw	[on off]	set filter status switch
		set	<set>	display filter rule
		netbios		
			Disp	display netbios filter status
			config <0:LAN to WAN, 1:WAN to LAN, 2:LAN to DMZ, 3:IPSec passthrough, 4:Trigger Dial> <on off>	config netbios filter
	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

## 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
			clear <name>	clear ether driver counters
		iface	<ch_name> <num>	send driver iface
		ioctl	<ch_name>	Useless in this stage.
		mac	<ch_name> <mac_addr>	Set LAN Mac address
		reg	<ch_name>	display LAN hardware related registers
		rxmod	<ch_name> <mode>	set LAN receive mode. mode: 1: turn off receiving 2: receive only packets of this interface 3: mode 2+ broadcast

**ZyXEL Confidential**

				5: mode 2 + multicast 6: all packets
		status	<ch_name>	see LAN status
		init	<ch_name>	initialize LAN
	version			see ethernet device type
	pkttest			
		disp		
			packet <level>	set ether test packet display level
			event <ch> [on/off]	turn on/off ether test event display
		sap	[ch_name]	send sap packet
		arp	<ch_name> <ip-addr>	send arp packet to ip-addr
		mem	<addr> <data> [type]	write memory data in address
	test		<ch_id> <test_id> [arg3] [arg4]	do LAN test
	pncconfig		<ch_name>	do pnc config
	mac		<src_ch> <dest_ch> <ipaddr>	fake mac address

## 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 CTRL 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		
			Near	Show ADSL near end noise margin
			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 CTRL registers 512 bytes
		reset		Reset ADSL modem, and must reload the modem code again
		selftest		
			Long	ADSL long loop test
			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		
			shutdown	Show the counter of rate adaptive mechanism happening
			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

**ZyXEL Confidential**

				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 CTRL register (0xc3), the value is from 0xfa to 0x06
		targetnoise	[value]	Set the CTRL register (0xc4), the value is from 0xfa to 0x06
		maxtonelimit	[value]	Set the CTRL register (0xc5), the value is from 0xfa to 0x06
		rxgain	[value]	Set the CTRL register (0xc6), the value is from 0xfa to 0x06
		txoutputpwr	[value]	Set the CTRL register (0xc7), the value is from 0xfa to 0x06
		rxoutputpwr	[value]	Set the CTRL register (0xc8), the value is from 0xfa to 0x06
		maxoutputpwr	[value]	Set the CTRL register (0xc9), the value is from 0xfa to 0x06
		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 CTRL immediately, default is off
	atm	test	[fix rand period oam loopback]	Generate ATM traffic
	hwsar	disp		Display hwsar packets incoming/outgoing information
		clear		Clear hwsar packets information

IP Related Command

[Home](#)

Command				Description
ip				
	address		[addr]	display host ip address
	<a href="#">loopbackaddr</a>		<IP1> [IP2]	<a href="#">Set loopback address.</a>
	alias		<iface>	alias iface
	aliasdis		<0 1>	disable alias
	arp			

**ZyXEL Confidential**

		status	<iface>	display ip arp status
		add	<hostid> ether <ether addr>	add arp information
		resolve	<hostid>	resolve ip-addr
		drop	<hostid> [hardware]	drop arp
		flush		flush arp table
		publish		add proxy arp
	dhcp		<iface>	
		client		
			release	release DHCP client IP
			Renew	renew DHCP client IP
		mode	<server relay none client>	set dhcp mode
		relay	server <serverIP>	set dhcp relay server ip-addr
		reset		reset dhcp table
		server		
			probecount <num>	set dhcp probe count
			dnsserver <IP1> [IP2] [IP3]	set dns server ip-addr
			winsserver <winsIP1> [<winsIP2>]	set wins server ip-addr
			gateway <gatewayIP>	set gateway
			hostname <hostname>	set hostname
			initialize	fills in DHCP parameters and initializes (for PWC purposes)
			leasetime <period>	set dhcp leasetime
			netmask <netmask>	set dhcp netmask
			pool <startIP> <numIP>	set dhcp ip pool
			renewaltime <period>	set dhcp renew time
			rebindtime <period>	set dhcp rebind time
			reset	reset dhcp table
			server <serverIP>	set dhcp server ip for relay
			dnsorder [router isp]	set dhcp dns order
		status	[option]	show dhcp status
		static		
			delete <num> all	delete static dhcp mac table
			display	display static dhcp mac table
			update <num> <mac> <ip>	update static dhcp mac table
	dns			
		query		
			address <ipaddr> [timeout]	resolve ip-addr to name
			debug <num>	enable dns debug value
			name <hostname> [timeout]	resolve name to ip-addr
			status	display dns query status
			table	display dns query table
		server	<primary> [secondary] [third]	set dns server
		stats		
			clear	clear dns statistics
			disp	display dns statistics
		table		display dns table
	httpd			
		debug	[on off]	set http debug flag
	icmp			
		echo	[on off]	set icmp echo response flag
		data	<option>	select general data type
		status		display icmp statistic counter
		trace	[on off]	turn on/off trace for debugging

**ZyXEL Confidential**

		discovery	<iface> [on/off]	set icmp router discovery flag
	ifconfig		[iface] [ipaddr] [broadcast <addr> [mtu <value>]dynamic]	configure network interface
	ifdrop		<iface>	chaek if iface is available.
	ping		<hostid>	ping remote host
	pong		<hostid> [<size> <time-interval>]	pong 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
		flush		flush route table
		lookup	<addr>	find a route to the destination
		errent		
			disp	display routing statistic counters
			clear	clear routing statistic counters
	status			display ip statistic counters
	adjTcp		<iface> [<mss>]	adjust the TCP mss of iface
	udp			
		status		display udp status
	rip			
		accept	<gateway>	drop an entry from the RIP refuse list
		activate		enable rip
		merge	[on/off]	set RIP merge flag
		refuse	<gateway>	add an entry to the rip refuse list
		request	<addr> [port]	send rip request to some address and port
		reverse	[on/off]	RIP Poisoned Reverse
		status		display rip statistic counters
		trace		enable debug rip trace
		mode		
			<iface> in [mode]	set rip in mode
			<iface> out [mode]	set rip out mode
		dialin user	[show/in/out/both/none]	show dialin user rip direction
	tcp			
		ceiling	[value]	TCP maximum round trip time
		floor	[value]	TCP minimum rtt
		irtt	[value]	TCP default init rtt
		kick	<tcb>	kick tcb
		limit	[value]	set tcp output window limit
		max-incomplete	[number]	Set the maximum number of TCP incomplete connection.
		mss	[value]	TCP input MSS
		reset	<tcb>	reset tcb
		rtt	<tcb> <value>	set round trip time for tcb
		status	[tcb] [<interval>]	display TCP statistic counters
		syndata	[on/off]	TCP syndata piggyback
		trace	[on/off]	turn on/off trace for debugging
		window	[tcb]	TCP input window size
	samenet		<iface1> [<iface2>]	display the ifaces that in the same net
	uninet		<iface>	set the iface to uninnet

**ZyXEL Confidential**

	tftp			
		support		prtn if tftp is support
		stats		display tftp status
	xparent			
		join	<iface1> [<iface2>]	join iface2 to iface1 group
		break	<iface>	break iface to leave ipxparent group
	antiprobe		<0 1> 1:yes 0:no	set ip anti-probe flag
	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
	pr			
		clear		clear ip pr table counter information
		disp		dump ip pr table counter information
		switch		turn on/off ip pr table counter flag
	nat			
		timeout		
			gre [timeout]	set nat gre timeout value
			iamt [timeout]	set nat iamt timeout value
			generic [timeout]	set nat generic timeout value
			reset [timeout]	set nat reset timeout value
			tcp [timeout]	set nat tcp timeout value
			tcpother [timeout]	set nat tcp other timeout value
		update		create nat system information from spSysParam
		iamt		display nat iamt information
		iface	<iface>	show nat status of an interface
		lookup	<rule set>	display nat lookup rule
		new-lookup	<rule set>	display new nat lookup rule
		loopback	[on/off]	turn on/off nat loopback flag
		reset	<iface>	reset nat table of an iface
		server		
			disp	display nat server table
			load <set id>	load nat server information from ROM
			save	save nat server information to ROM
			clear <set id>	clear nat server information
			edit active <yes no>	set nat server edit active flag
			edit svrport <start port> [end port]	set nat server server port
			edit intport <start port> [end port]	set nat server forward port
			edit remotehost <start ip> [end ip]	set nat server remote host ip
			edit leasetime [time]	set nat server lease time
			edit rulename [name]	set nat server rule name



**ZyXEL Confidential**

			edit forwardip [ip]	set nat server server ip
			edit protocol [protocol id]	set nat server protocol
		service		
			irc [on/off]	turn on/off irc flag
		resetport		reset all nat server table entries
		incikeport	[on/off]	turn on/off increase ike port flag

PPP Related Command

[Home](#)

Command				Description
ppp				
	autotrigger			
		on	<remoteNodeIndex>	turn on packet trigger, default is enable
		off	<remoteNodeIndex>	turn off packet trigger
		status		show autotrigger status
	Retry		<interval>	adjust PPP retrial interval

Bridge Related Command

[Home](#)

Command				Description
bridge				
	mode		<1/0> (enable/disable)	turn on/off (1/0) LAN promiscuous mode
	Blt			related to bridge local table
		disp	<channel>	display blt data
		reset	<channel>	reset blt data
		traffic		display local LAN traffic table
		monitor	[on/off]	turn on/off traffice monotor. Default is off.
		time	<sec>	set blt re-init interval
	Brt			related to bridge route table
		disp	[id]	display brt data
		reset	[id]	reset brt data
	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
	Disp			display bridge source table