ZyXEL

Firmware Release Note

Prestige P660RU-T1
Standard Version

Release 3.40(ST.3)C0

Date:	**June.8, 2005**
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Supported Platforms:

ZyXEL Prestige 660RU-T1

Versions:

ZyNOS Version   : V3.40(ST.3) | 06/08/2005 17:05:29
Bootbase Version   : V1.02 | 08/31/2004 16:54:52

Notes:
P660R/RU-T1/T3/T7 is next generation of ZyXEL P623R series with higher speed of
ADSL2, ADSL2+ technology, speed up to 12Mbps (ADSL2) and 24 Mbps (ADSL2+).
With dual interface of USB and Ethernet, P660R/RU-61/63/67 offers the flexible way to
access the Internet.

Features:
Modification in V3.40(ST.3)C0 | 06/08/2005
1. Change to FCS
Modification in V3.40(ST.3)b2 | 06/01/2005
1.   [BUG FIX] SPRID: 050525640
    Symptom: Use backup function in GUI will make LAN pc and DUT WAN can not get
ip.
    Condition: Step1 enter eWC->maintenance->configuration->backup.
              Step2 backup current configuration.
              Step3 in LAN pc can not get ip from DUT and DUT WAN can not get
dynamic ip.
2.   [BUG FIX] SPRID: 050524562
    Symptom: A problem about can't get ip(enet encap/llc/dynamic)
    Condition: 1. Use"sys romreset"in SMT 24.8
              2. Go to WEB wizard or SMT 4, use enet encap/LLC/dynamic ip, set the
vpi/vci=0/33, then the device can't get ip (use other vpi/vci is ok, our AUT-C set vpi/vci is
0/33).
3.   [BUG FIX] SPRID: 050516864
    Symptom: Use ax/4000 test UBR have problem
    Condition: Set menu 4 ATM QoS Type= UBR, Peak Cell Rate (PCR) = 1000, Sustain
Cell Rate (SCR) = 500, Maximum Burst Size (MBS) =500, The traffic do not restrict by

the PCR, it can up to 1600 cells/s.
4. [FEATURE ENHENCE]
    Routing Throughput Enhancement.
5. Change Default Rom-file
    Add new rule into VC hunting table: VPI/VCI: 0/38 Encapsulation: PPPOA
Multiplexing: VC

Modification in V3.40(ST.3)b1 | 05/19/2005
1. [Bug Fix] SPRID: 050505225
    Symptom: While use "Full Feature" mode in NAT in GUI, and configure rule in "Full
    Feature", but this NAT rule can not work. Then reboot DUT, this rule can works
    properly.
    Condition: Step1: In GUI/Advanced Setup/NAT, choose "Full Feature".
                Step2: In "Full Feature", configure a NAT rule (For example: One-to-One,
     or Many-to-One……).
                Step3: While complete the setting, this NAT "Full Feature" rule can not
    work. Then reboot DUT, this rule can works properly.
                Step4: In SMT, it has no this issue.
2. [Bug Fix] SPRID: 050506301
    Symptom: use pppoe encapsulation，get rom-t file from LAN pc change some
    configuration and put the rom-t file, then pppoe login password will be change.
    Condition: step1: use pppoe encapsulation, get rom-t file from LAN pc change some
    configuration(such as system name->1234)
                step2: put rom-t file from LAN pc ,after the DUT reboot, pppoe can not dial
    up.
                 step3: change the pppoe login password then can dial up.
3. [Bug Fix] SPRID: 050310555
    Symptom: in eWC can set DUT LAN ip to 0.0.0.0, in SMT menu3.2 when set it, it
    warning "0.0.0.0 is not a valid IP address" they are not match.
    Condition: N/A
4. [Bug Fix] SPRID: 050310549
    Symptom: When 2 PCs visit eWC of DUT, the priority have some problem .
    Condition: N/A
5. [Bug Fix] SPRID: 041222143
    Symptom: in menu 24.11, leave the telnet server port default, upload firmware using
    tftp from lan side pc, it always fails; but if telnet server port is changed to 23, the
    function works well.
    Condition: N/A
6. [Bug Fix] SPRID: 041124036
    Symptom: 1.In Menu 24.8 typing "ip ping 192.168.8.1" (the ip address from which you
    can get response".the default times of ping is three.
                2.when the device get response in the first time or the second
    time.type"ctrl+c".then type the Up key and Enter quickly.the system will crash and
    reboot.
    Condition: N/A
7. [Bug Fix] SPRID: 050506307

Symptom: two LAN pc connect to DUT with anyip have problem.
Codition: step1 : use CI command "ip anyip enable yes" turn on DUT anyip
                step2: LAN two pc set any ip out of DUT dhcp ip pool.
                step3 when one LAN pc ping access DUT then another pc can not ping
access unless change the static ip.
8. [Bug Fix]
   Symptom: there is always show testing on Web although Auto VC hunt finished and
failed.
   Condition: N/A
9.[FETURE ENHANCE]
   Supporting rom file back/restore via GUI .
10.[FETURE ENHANCE]
   Modifying the 'Reset System' button (Maintenance→ diagnostic→General) to 'Restart
the Device'.
Modification in V3.40(ST.2)C0 | 04/19/2005
1.   Change to FCS firmware version.
Modification in V3.40(ST.2)b3 | 04/13/2005
2.   [FEATURE CHANGE]
     Symptom: Add Mbuf_Cache size for throughput improvement,
3.   [FEATURE CHANGE]
     Symptom: Add FTP_MALLOC.
4.   [Bug Fix]
     Symptom: VC-hunt causes sys exception.
5.   [Bug Fix]
     Symptom: The UPnP shows wrong link speed on WinXP PC.
6.   [Bug Fix]
     Symptom: Dialing messages shows up on console during VC-Hunt with PPPOE and
     PPPOA
7.   [Bug Fix]
     Symptom: If we unplug ADSL line right after the ADSL just entered "wait for init
     state" than ADSL will hold on this state and doesn't switch to down state, the CPU
     loading is about 20% at the same time.

Modification in V3.40(ST.2)b2 | 03/17/2005
8.   [FEATURE CHANGE]
     Symptom: Add Mbuf_Cache to improve the throughput.
9.   [Bug Fix]
     Symptom: ATM Priority (UBR vs. CBR) scenario not correct.
10. [Bug Fix]
     Symptom: In web wizard - LAN page. Change LAN IP for 192.168.1.1 to
     192.168.181.1, the PC gets IP from the device but can't use IE to access device.
11. [Bug Fix]
     Symptom: NAT_RuleList page display error in Mozilla.
12. [Bug Fix]
     Symptom: In Lan page if type "255.255.248.0" in IP Subnet Mask will show "Subnet
     Mask error".

13. [Bug Fix]
    Symptom: Apply policy route rule to menu 3.2 or 11.3, the packet from LAN or WAN can't route to gateway set in policy rule.
14. [Bug Fix]
    Symptom: Set the MIB object "sysName" fail, this object doesn't change but prompt name of CI changed as what it set.
15. [Bug Fix]
    Symptom: ATU-R can't link up after run the Loop test script for a spell.
16. [Bug Fix]
    Symptom: Attainable downstream rate is 0 in ADSL2/ ADSL2+ mode, but it's normal in ADSL1 mode.
17. [Bug Fix]
    Symptom: ADSL sync up mode reset to default (ADSL2+) while sync up again.

Modification in V3.40(ST.2)b1 | 02/21/2005
1. [FEATURE CHANGE]
    Symptom: Change DMT code form v3.0.10.3_A_TC to 3.0.11.22_A_TC for supporting ADSL2/2+
Modification in V3.40(ST.1)b1 | 12/23/2004
2. [FEATURE CHANGE]
    Symptom: Change default ROM file to disable UPNP.
3. [FEATURE CHANGE]
    Symptom: Change the messages display format in CI Command "wan adsl chandata" while the link up mode is ADSL2 and ADSL2+.
Modification in 3.40(ST.0)b1|10/22/2004
1. [FEATURE CHANGED]
    Firmware downloads mechanism in Bootext is ready.
Modification in 3.40(ST.0)a2| 09/11/2004
2. [FEATURE CHANGED]
    Symptom: Remove the centralize log and cli-for-smt for more system free memory.
Modification in 3.40(ST.0)a1 | 07/27/2004
1. Create this project.

Annex A CI Command List

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

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
	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
	logs			
		category		
			access [0:none/1:log]	record the access control logs
			attack [0:none/1:log/2:alert/3:both]	record and alert the firewall attack logs
			display	display the category setting
			error [0:none/1:log/2:alert/3:both]	record and alert the system error logs
			ipsec [0:none/1:log]	record the access control 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
		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
				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
			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

Command				Description
exit				exit smt menu

Ethernet Related Command

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 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

Command				Description
wan	Adsl			
		chandata		ADSL channel data, line rate
		close		Close ADSL line
		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
			Glite	
			T1.413	
			Gdmt	
			multimode	

			adsl2	
			adsl2plus	
		opmode		Show the operational mode
		rateadap	[on|off]	Turn on/off rate adaptive mechanism
		perfdata		Show performance information,CRC,FEC, error seconds..
		reset		Reset ADSL modem, and must reload the modem code again
		Status		ADSL status (ex: up, down or wait for init)
		errorsecond		
			sendes	Send current error second information immediately
		targetnoise	[value]	Adjust target noise offset
wan	atm	vchunt		
			Add <remoteNodeIndex> <vpi> <vci> <service bit(hex)>	Add a entry to hunting pool <remote node> : input the remote node index 1-8 <vpi> : vpi value <vci> : vci value <service>: it's a hex value, bit0:PPPoE/VC (1), bit1:PPPoE/LLC (2) , bit2:PPPoA/VC (4), bit3:PPPoA/LLC (8), bit4:Enet/VC (16), bit5 :Enet/LLC (32) For examples: If you need service PPPoE/LLC and Enet/LLC then the service bits will be 2+32 = 34 (decimal) = 22 (hex), you must input 22 Need to perform save after this command
			Remove <removeNodeId> <vpi> <vci>	Input remote node ID and vpi, vci value to remove the specific entry. System will save automatically.
			Active <yes|no>	Enable VC auto hunting featurer
			display	Display the hunt pool
			Clear	Clear the configure buffer
			Save	Save current setting into ROM file
			timer	The waiting time before checking the hunting table result
			Send	Send VC hunt pattern again
			result	Check the result of VC auto hunting
	hwsar	disp		Display hwsar packets incoming/outgoing information
		clear		Clear hwsar packets information
	Zero	Status		Display status of Zero configuration
		On		Turn on Zero configuration
		Off		Turn off Zero configuration
		Flags	<disable (1:zeroCfh / 2:auto-hunt / 4:password / 7:all)>	
		debug	1:enable / 0:disable	Display debug messages

USB Related Command

Command				Description
usb				

	dump	descp		Display Tx/Rx descriptors
		reg		Display registers
		cnt		Display driver's counters
	debug	[on|off]		Turn on/off debug messages
	dbg	[dbgflag]		Set Debug flags
	Lpbk	[on|off]		Turn on/off loopback mode.

IP Related Command

Command				Description
ip				
	address		[addr]	display host ip address
	loopbackaddr		<IP1> [IP2]	Set loopback address.
	alias		<iface>	alias iface
	aliasdis		<0|1>	disable alias
	arp			
		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 dicp 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
		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
	extping		<target address>	
			[-t]	Continue to send ECHO_REQ until Ctrl-C input
			[-c]	Validate the reply data
			[-d] [Data]	Data pattern. The maximum length of data is 255 characters.
			[-f]	Set DF flag.
			[-l] [Data size]	Datagram size in bytes (with 28 bytes Header).
			[-v] [TOS value]	Specify the value of TOS flag.
			[-n] [Repeat value]	The number of times to send ECHO_REQ packet.
			[-w] [Timeout value]	Specify the value of Timeout in seconds.
			[-o] [IP address/IFace]	To specify one IP address or interface to be the Source IP address.
			[-p] [Min MTU] [Max MTU] [Interval size]	Sweep range of sizes.
	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
		errcnt		
			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 uninet
	tftp			
		support		pritn if tfpt 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
			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

Bridge Related Command   Home

Command				Description
bridge				
	mode		<1/0> (enable/disable)	turn on/off (1/0) LAN promiscious 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