

ZyXEL

Firmware Release Note

P-660R-D1

Standard version

Release 3.40(AGE.1)C0

Date: Feb 27, 2006
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ZyXEL P-660R-D1 Standard Version Release 3.40(AGE.1)C0 Release Note

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Supported Platforms:

ZyXEL P-660R-D1

Versions:

ZyNOS Version : V3.40(AGE.1) | 02/27/2006 15:00:05
Bootbase Version : V1.04 | 08/11/2005 03:15:00

Notes:

The P-660R-D1 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. P-660R-D1 takes advantage of much higher data rate than ADSL, speed up to 12Mbps (ADSL2) or 24Mbps (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.

P-660R-D1 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 05.01.03.00

Features:

Modification in 3.40(AGE.1)C0 | 02/27/2006

1. Change to FCS
2. Change default romfile.

Modification in 3.40(AGE.1)b3 | 02/22/2006

1. [BUG FIX]

SPRID: 060222003

Symptom: set a filter, when apply it use CI command in WAN, it must fill 4 parameter, but apply it in LAN it need not to fill 4 parameter, it can be save when it have only 1 parameter.

condition: set a filter, when apply it use CI command in WAN, it must fill 4

parameter, but apply it in LAN it need not to fill 4 parameter, it can be save when it have only 1 parameter.

2. [BUG FIX]

SPRID: 060222004

Symptom: when do chamber test DSL will link down an then up in one second .
condition: when do chamber test DSL will link down an then up in one second .

3. [BUG FIX]

SPRID: 060124210

Symptom: run FTP file download about 1 hours, the device will reboot.
condition: run FTP file download about 1 hours, the device will reboot. use Acaltel UD
adsl2+, sync up rate: up 1179kbps, down 23458kbps. file download rate: 2105kB/s

Modification in 3.40(AGE.1)b2 | 01/11/2006

1. [BUG FIX]

SPRID: 060111445

Symptom: set a schedule, when apply it use CI command “wan node callsch”
it must fill 4 parameter, that is to say, you must type like
this “wan node callsch 1 0 0 0”, but not like “wan node callsch 1”.
condition: set a schedule, when apply it use CI command “wan node callsch”
it must fill 4 parameter, that is to say, you must type like
this “wan node callsch 1 0 0 0”, but not like “wan node callsch 1”.

2. [BUG FIX]

SPRID: 060111447

Symptom: Set NAT rule, the DUT will crash. set 10 rules in menu 15.1.1, then set rules
one by one in menu 15.1.2, when you set the 9th rule, DUT will crash

Condition: N/A

3. [BUG FIX]

SPRID: 060111455

Symptom: Prestige can not be managed from WAN side in RFC1483bridge mode.

Condition: N/A

4. [BUG FIX]

SPRID: 060105234

Symptom: Turn on vc hunt debug flag when DUT is hunting, DUT will show the debug
information continually. And after a while, DUT will crash.

Condition: 1. Turn on vc hunt debug flag when DUT is hunting, DUT will show the debug
information continually. And after a while, DUT will crash.
2. The phenomenon will happen sometimes.

5. [BUG FIX]

SPRID: 060105237

Symptom: In GUI, NAT Full Feature can not work normally.

Condition: In GUI, NAT Full Feature, “one-to-one”, “many-to-one”, “many-to-many
overload”, “server”, correct rules can’t be saved.

6. [BUG FIX]

SPRID: 060105238

Symptom: Release note has a mistake.

Condition: The release note show [Feature Change]: Change modem code to 5.0.5.0.

But the correct modem code is 5.1.3.0.

7.[ENHANCEMENT CHANGE]

Add Multi-boot V2.3

Modification in 3.40(AGE.1)b1 | 12/26/2005

1. [BUG FIX]

SPRID: 051227463

Symptom: Upload wrong romfile by SMT Restore Configuration may cause device crash.

Condition: If the upload romfile is text format or wrong content binary image, after restore from

SMT 24.6, the device may crash.

2. [BUG FIX]

SPRID: 051227464

Symptom: Change the LAN IP or subnet mask,IE can't access device.

Condition: 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.

3. [BUG FIX]

SPRID: 051227465

Symptom: CI command "sys stdio" does not follow the spec.

Condition: Enter "sys stdio 4 30", it will set the timeout to 30 seconds.

4. [BUG FIX]

SPRID: 051227466

Symptom: In “many to many no overload” mode, IGA and ILA does not match, but it can save in EWC.

Condition: Step 1: In the SMT menu 15.1.1, edit one rule, choose the type “many to many no

overload”, if the number of local IP is not equal to the number of global IP, there is

error information “IGA and ILA does not match” and the setting can’t be saved.

Step 2: In the GUI setting, if the number of local IP is not equal to the number of

global IP, there is no error, and in the SMT menu 15 the setting has been saved.

5. [BUG FIX]

SPRID: 051227467

Symptom: The “Connection testing” page will change to “connection testing fail” Page for only one browser.

Condition: 1. If there are no correct PVC in hunting table.

2. Page will return to “Auto_Hunt_Fail”.

3. If there are two or more browsers, only one page will display “Auto_Hunt_Fail”, the other pages will also display “Connection testing”.

6. [BUG FIX]

SPRID: 051227468

symptom:device will be crash

condition: 1.set default romfile

2.in vc hunt table have vpi/vci=0/33

3.turn on vc hunt debug flag

7. [BUG FIX]

SPRID: 051227469

Symptom: SMT24.2.1 always show Multi-mode and GUI always show Multi-mode when change

dsl standard to others(for example:adsl2,adsl2+)

Condition:

1. Set operation mode as ADSL2 use "wan adsl opencmd adsl2.

2. In smt 24.2.1 it will show Multi-mode.

3. when sync up GUI still show Multi-mode

8. [BUG FIXED]

SPRID: 051227470

Symptom: eWC time out but can reset DUT to the factory default.

Condition: Step1 enter eWC->maintenance->firmware

Step2 enter SMT menu 24.8 CI command"sys reboot"

Step3 after DUT startup click the reset button in eWC then can reset

DUT to the factory

default

9. [BUG FIX]

SPRID: 051227471

Symptom: eWC timeout but telnet port still can save change.

Condition: step1.eWC in remote management.

step2.change telnet port 23 to 23023 and wait time out.

step3.apply it.

step4 turn on login face and login step5.in remote management the telnet port have changed frome23 to 23023.

10. [BUG FIX]

SPRID: 051227473

Symptom: choose PPPoA encapsulation to sync up,when need to retype username and password

the IE url show "ZCfgPPPoE.html" webpage

Condition:choose PPPoA encapsulation to sync up,when need to retype username and password

the IE url show "ZCfgPPPoE.html" webpage

11.[BUG FIX]

SPRID: 051227474

Symptom: Chariot testing fail if simultaneously select multiple Chariot script.

Condition: Topology: EndPoint1--660R--DSLAM--BRAS--Endpoint2

Selecting all 10 internet standard scripts(\netiq\chariot\script\internet\") run at

the same time for a long continuous time, error with the number 0245 in Chariot will occur and it will stop the test.

12. [BUG FIX]

SPRID: 051227475

Symptom: It can't escape SMT24.1

Condition: When performing vc-hunt process

13. [ENHANCEMENT CHANGE] (Quick Route update)

update to qroute.c(1.3),according to PM and TE ,remove debug information.

14. [FEATURE CHANGED]

Symptom: Change modem code to 5.1.3.0.

Modification in 3.40(AGE.0)C0 | 12/02/2005

1.Change to FCS.

Modification in 3.40(AGE.0)b4 | 11/10/2005

1. [BUG FIX]

SPRID: 051108425

Symptom: In SMT menu 4 and menu3.5 the ISP's name and ESSID can not accept special characters such as #\$\$%^, but in eWC can accept it, they are not accordant.

Condition: In SMT menu 4 and menu3.5 the ISP's name and ESSID can not accept special characters such as #\$\$%^, but in eWC can accept it, they are not accordant.

2. [BUG FIX]

SPRID: 051101010

Symptom: When reset default romfile, set Encapsulation=RFC1483 or EAET Encap+LLC+Static IP, In CI command,ping 192.168.8.1,It Can not ping 192.168.8.1,if ping many times,DUT will crash.

Condition: step1:In menu 24.8 to reset default romfile.

step2:set Encapsulation=RFC1483 or EAET Encap+LLC+static IP.

step3:In CI Command>Edit "ip ping 192.168.8.1".it can not ping.

step4:if ping many times,DUT will crash.

But set Encapsulation=PPPOA or PPPoE,it can ping successfully,this time,change Encapsulation=RFC1483,it can ping successfully.

3. [BUG FIX]

SPRID: 051102108

Symptom: Multiboot can not support Upload the F/W to DUT with SMT debug mode.

Condition: step1:PC connect to DUT LAN side, and set the PC as a random static IP.

step2:Open MultiBootSrv.exe in PC. Click "BootBase File", and click "Browse", set the path of F/W bm file. Click "ROM File", and click "Browse", set the path of F/W rom file. Click "RAS File" , and click "Browse", set the path of F/W bin file. Click "Enable engineer debug".

step3:Click "Start", then reboot DUT, the upload F/W will in process in

SMT debug mode, The F/W upload can not't success through MultiBootSrv.exe.

4. [Feature Enhancement]
Add reset button test Function
5. [Feature Enhancement]
Add quick route

Modification in 3.40(AGE.0)b3 | 10/27/2005

1. [Feature Enhancement]
TI Throughput Enhance

Modification in 3.40(AGE.0)b2 | 10/11/2005

1. [BUG FIX]
SPRID: 050921873
Symptom: The cell rate can't be limited by the setting of ATM QoS
Condition: Step1: The DUT and AX/4000 run under route mode. in menu4, set PCR=1000, SCR=500, MBS=500
Step2: ATM QoS Type=UBR/VBR/CBR, refer to the AX/4000 test result, the cell rate of the three type are almost the same and are larger than 1000 cell/s.
Step3: The DUT and AX/4000 run under bridge mode. in menu4, set PCR=1000, SCR=500, MBS=500
Step4: when ATM QoS Type=UBR /CBR, refer to the AX/4000 test result, the cell rate of the two type are almost the same and are larger than 1000 cell/s. And when ATM QoS Type=VBR, the cell rate is half of which when ATM QoS Type=CBR, but larger than 500.
2. [BUG FIX]
SPRID: 050921864
Symptom: When we enable "ping traffic is blocked from the WAN " function that it will also block LAN->WAN
Condition: When we enable "ping traffic is blocked from the WAN " function that it will also block LAN->WAN
3. [BUG FIX]
SPRID: 050915640
Symptom: The DSL LED Flash at 1 Hz with a 50% duty cycle during all training course ;it can't meet the PS.
Condition: 1.Power on and connect the DSLAM.
2.Measure the frequency with oscilloscope when training course.
4. [BUG FIX]
SPRID: 050921869
Symptom: While set the DUT LAN "Client IP Pool Starting Address" and "Size of Client IP Pool" which are not match the "IP Subnet Mask", but this can be saved in GUI\Wizard Setup and rom-t. In SMT and GUI\Advanced Setup have no this issue.
Condition: While set the DUT LAN "Client IP Pool Starting Address" and "Size of Client IP Pool" which are not match the "IP Subnet Mask", but this can be

saved in GUI\Wizard Setup and rom-t. In SMT and GUI\Advanced Setup have no this issue.

5. [Feature Enhancement]

Ftp malloc

6. [Feature Enhancement]

TI Enhance

7. [BUG FIX]

SPRID: 051012013

Symptom: subnet mask error

Condition: Procedure to reproduce the problem

1. Log into the device via WEB GUI

2. Config Static WAN IP Address

3. Enter subnet mask "255.255.248.0"

Then it will pop up a message shows "subnet mask error". However, "255.255.248.0" is a valid subnet

Modification in 3.40(AGE.0)b1 | 09/13/2005

1. Create this project. For more details, please refer to P-660R-D1 external specification.

Annex A CI Command List

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

System Related Command

[Home](#)

Command			Description
sys			
	adjtime		retrieve 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
	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
		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:non	mail schedule policy

		e]	
		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			

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	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
trepacket			
	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

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		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>
		clear <name>
	iface	<ch_name> <num>
	ioctl	<ch_name>
	mac	<ch_name> <mac_addr>
	reg	<ch_name>
	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>
	init	<ch_name>
version		see ethernet device type
pkttest		
	disp	
		packet <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

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Command			Description
wan	adsl	bert	ADSL ber
		chadata	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	
		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]
		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]
		dumpcondition	[on off]
		sampletime	[mins]
		noisegt	[dB]
		noisemargin	[dB]
		persisttime	[time]

				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		
			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
	atm	test	[fix rand period oam loopback]	Generate ATM traffic
	hwsar	disp		Display hwsar packets incoming/outgoing information
		clear		Clear hwsar packets information
	tr069	load		load TR069 setting before configure
		active	[1 0]	Enable/Disable TR069 feature
		acsUrl	string	The URL of ACS
		periodicEnable	[1 0]	Enable/Disable periodically inform method call
		informInterval	[value]	Set periodic inform method call interval
		informTime	[value]	Set an absolute time for each day to send an inform method call
		reset		Reset TR069
		debug	[on off]	Enable/Disable TR069 debug mode
		username	string	The username used to authenticate the CPE when making a connection to the ACS using the TR-069
		password	string	The password used to authenticate the CPE when making a connection to the ACS using the TR-069
		requsername	string	The username used to authenticate an ACS making a Connection Request to the CPE
		reqpassword	string	The password used to authenticate an ACS making a Connection Request to the CPE

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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>	check 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
	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		print 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
		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 traffic monitor. 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