

ZyXEL

Firmware Release Note

P-660HW-T1 Standard Version

Release 3.40(ACI.7)C0

Date:
Author:

Oct 18, 2006
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Supported Platforms:

ZyXEL P-660HW-T1

Versions:

ZyNOS Version: V3.40(ACI.7) | 10/18/2006 14:33:26

Bootbase Version: V1.06 | 01/11/2006 10:26:03

Notes:

The P-660HW-T1, 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-660HW-T1 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 high integrated advanced Firewall, Bandwidth Management and IEEE 802.11g wireless features to meet the demand of high-end market.

P-660HW-T1 provides an embedded mini-PCI module for 802.11g Wireless LAN connectivity, four single auto-sensing, auto-detection 10/100BASE-T Ethernet ports for connection to the user's local network, and a single RJ-11/RJ-45 port for connection to ADSL/ADSL2/ADSL2+ line.

1. Support Multiboot client V2.3
2. Support ADSL2+ by TrendChip modem code 3.4.1.0

Features:

Modification in 3.40(ACI.7)C0| 10/18/2006

1. Change to FCS.

Modification in 3.40(ACI.7)b2| 10/09/2006

- 1.[Feature Update]
Support ZD1212B chip

Modification in 3.40(ACI.7)b1| 09/18/2006

- 1.[Feature Enhancement]
Support ZD1212B chip

Modification in 3.40(ACI.6)C0| 05/08/2006

1.change to FCS

Modification in 3.40(ACI.6)b2| 04/18/2006

1. [Feature Enhancement]

Support Aoriha 2230S

2. [Feature Enhancement]

Modify Bootbase HW version, older f/w can't upload to current Bootbase.

Modification in 3.40(ACI.6)b1| 04/09/2006

1.[Bug Fix] SPRID: 060409452

Problem Symptom: In SMT and GUI, timezone miss some items such as: GMT+9.5
(Adelaide, Central Australian Standard Time)The number of missed items is 50. The total should be 75 just like WinXP.

Problem Condition: In SMT and GUI, timezone miss some items such as: GMT+9.5
(Adelaide, Central Australian Standard Time) The number of missed items is 50. The total should be 75 just like WinXP.

2.[Bug Fix] SPRID: 060409453

Problem Symptom: Issue CI command “sys stdio 0”,then issue CI command “exit”, the DUT will hang

Problem Condition: Issue CI command “sys stdio 0”,then issue CI command “exit”, the DUT will hang

3.[Bug Fix] SPRID: 060409454

Problem Symptom: The RIP via IP alias 1 and IP alias 2 can not works correctly.

Problem Condition: Step1.in GUI, config the IP alias 1 and IP alias 2, set the RIP direction = Both or In only, the RIP Version = RIP-2B or RIP-2M.

Step2.in LAN PC use tool generate RIP packet, the DUT can't receive the RIP packet.

Step3.use CI commands setup, have the same issue.

4.[Bug Fix] SPRID: 060409455

Problem Symptom: We config system name = 30 characters via SMT and use WPA in wireless security. If the wireless client try to associate to Router via WPA, then Router exception.

Problem Condition: We config system name = 30 characters via SMT and use WPA in wireless security. If the wireless client try to associate to Router via WPA, then Router exception.

5.[Bug Fix] SPRID: 060409456

Problem 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.

Problem 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.

6.[Bug Fix] SPRID: 060409457

Problem Symptom: The packet which is from lan and processed by quickroute is not counted.

Problem Condition: 1. Make sure quick route is activated.
2. Dial up one remote node and make sure PC in LAN side can access WAN side.
3. Ping wan side IP in PC .
4. We can see :PC can ping wan IP, but the counter number in smt24.1 for ethernet RX packets does not increase .

7.[Bug Fix] SPRID: 060409458

Problem 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”.

Problem 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”.

8.[Bug Fix] SPRID: 060409459

Problem Symptom: In Enet Encap routing mode, Lan PC can access internet. After enable tripleplay without any portmapping group set, ping url will fail.

Problem Condition: 1. Configure a routing remote node that will access internet.
2. Just enable tripleplay without any portmapping group set.
3. Ping url will fail, but ping ip address would success.

9.[Bug Fix] SPRID: 060409460

Problem Symptom: After enable triple-play, the traffic from LAN to WAN will blocked in our device every time there is a MAC connected to the device

Problem Condition: 1. Enable triple-play
2. Bound LAN ports 1,2,3 and wireless port to PVC 1 which uses NAT and PPPoE encapsulation
3. Bound LAN port 4 to PVC 2 for voice
4. Just connect a PC to device, it works great. And then connect a MAC to the device, the traffic dies, you can not access the Internet any more.

10.[Bug Fix] SPRID: 060409461

Problem Symptom: CI command “wlan scan” can’t work properly, signal power always shows”0%”

Problem Condition: CI command “wlan scan” can’t work properly, signal power always shows”0%”

11. [Feature Enhancement]

- Support SDRAM test in HTP
- 12. [Change default rom file]
 - Remove “wan adsl errorsecond shutdown 30” in autoexec.net
- 13. [Change default rom file]
 - Add “wan dmt2 db tlb10” in autoexec.net
- 14. [Change default rom file]
 - Add “ip nat sess 512” in autoexec.net
- 15. [Feature Enhancement]
 - Change wlan channel setting fellow FCC
- 16. [Feature Enhancement]
 - Support AD id for ADM6996i
- 17. [Feature Enhancement]
 - Change modem code to 3.4.1.0

Modification in 3.40(ACI.5)C0| 02/27/2006

- 1.change to FCS

Modification in 3.40(ACI.5)b1| 02/27/2006

- 1.[Feature Enhancement]
 - Support Samsung flash
- 2. [Feature Enhancement]
 - Airoha AL2230 frequency will shift in several minutes after device boot

Modification in 3.40(ACI.4)C0| 12/26/2005

- 1.change to FCS

Modification in 3.40(ACI.4)b3| 12/19/2005

- 1.[Bug Fix] SPRID: 051118176
 - [Symptom]Run FPT file transfer over night have problem
 - [Condition]Run ftp file transfer, after several hours(run 7 times ,the longest time is 8hrs)it will stop.when it stop ,the lan pc can't ping to the wan pc's ip address(the ftp server)
- 2.[Bug Fix] SPRID: 051216065
 - [Symptom] P660H/HW-T1 WEB GUI allow no changement when two pvc have been edited in SMT
 - [Condition]1.edit two remote modes in SMT menu 11.1 and 11.2.
 - 2.go to WEB GUI and can't change any parameters then.
- 3.[Bug Fix] SPRID: 051216066
 - [Symptom] ADSL can't sync up if ADSL line is pulled out and plugged when eMule and BT runs on the PC connected to LAN.
 - [Condition] ADSL can't sync up if ADSL line is pulled out and plugged when eMule and BT runs on the PC connected to LAN.
- 4.[Bug Fix] SPRID: 051216067
 - [Symptom] It can't escape SMT24.1
 - [Condition] When performing vc-hunt process, press ESC can't escape SMT24.1
- 5.[Bug Fix] SPRID: 051219098

[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: 051219099

[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 3 minutes.

step3.apply it.

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

7.[Bug Fix] SPRID: 051219100

[Symptom] the content filter feature still work while disable it.

[Condition] the content filter feature still work while disable it.

8.[Bug Fix] SPRID: 051219101

[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.

Modification in 3.40(ACI.4)b2| 11/8/2005

1.[Bug Fix] SPRID: 050822919

[Symptom] DUT will reboot automatically when DUT is initialing and the programs of multicast server is enable.

[Condition] mulicast server is 192.168.100.1,DUT is192.168.100.2.

step1.In SMT menu 3.2,enable multicast(IGMPV2)

step2.In SMT menu 4,set gateway ip is 192.168.100.1,wan ip is 192.168.100.2.

step3.go to SMT menu 24.1,wait for a moment then it will reboot automatically.

2.[Bug Fix] SPRID: 051026865

[Symptom] Wlan port can't communicate with ethernet port.(Rom file is in default status,trippleplay disable)

[Condition] Wlan port can't communicate with ethernet port.(Rom file is in default status,trippleplay disable)

3.[Bug Fix] SPRID: 051026867

[Symptom] Ethernet ports in different vlans can communicate with each other.(trippleplay enable)

[Condition] Ethernet ports in different vlans can communicate with each other.(trippleplay enable)

4.[Bug Fix] SPRID: 051107348

[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

5.[Bug Fix] SPRID: 051108423

[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

6.[Bug Fix] SPRID: 051108424

[Symptom] Configure firewall will cause DUT crash

[Condition] Step1 enter GUI->advanced setup->firewall->rule summary, create a rule and apply it

Step2 enter the rule and delete it

Step3 click back button in IE column and apply it again, then the DUT will crash

7. [Feature Enhancement]

Remove CI command: wan adsl txgain

wan adsl targetnoise

8. [Feature Enhancement]

Reset button test

9. [Feature Enhancement]

Throughput Enhancement: Quick route

10.[Change default rom file]

Add CI command in autoexec.net:

ether driver qroute 2

Modification in 3.40(ACI.4)b1| 10/17/2005

1. [Feature Enhancement]

Triple play port mapping.

2.[Bug Fix] SPRID: 051017256

[Symptom] subnet mask error

[Condition] 1. Log into the device via WEB GUI

2. Config Static IP via Wizard or Advanced Setup LAN/WAN.

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

3.[Bug Fix] SPRID: 051017257

[Symptom] Configure client and establish the connection of client to DUT, Set the DUT to make the WLAN function is disable,then set DUT to make the WLAN function is enable,sometimes it can't work normally

[Condition] step1:Configure client and establish the connection of client to DUT,then

Set the DUT to make the WLAN function is disable.

step2:set DUT to make the WLAN function is enable.

step3.1:sometimes the wlan LED flash.

step3.2:sometimes the client can't searching the AP,and other client

(which can't connect to the AP before disable the wlan function)also can't searching the AP.

4.[Bug Fix] SPRID: 051017261

[Symptom] WIFI- test MCA2 fails.

[Condition] step1:Connect PC1 to P660HW-T3(LAN side);
step2:Connect PC2 and PC3 to P660HW-T3 through WLAN(using WPA-PSK);
step3:Run Chariot console on PC1, using script "realaud.scr" to send multicast traffic from PC1 to PC2 and PC3,
step4:Chariot always shows error.

5. change modem code to 3.2.0.7

Modification in 3.40(ACI.3)C0| 08/23/2005

1.change to FCS

Modification in 3.40(ACI.3)b1| 08/18/2005

1. [Bug Fix]

Fix the WLAN mask margin issue.

2.[Bug Fix] SPRID: 050728329

[Symptom] Whiteboard(WAN to LAN) can't work well when UPNP is enable.

[Condition] Whiteboard(WAN to LAN) can't work well in all of the following conditions.

2. OS is based on WinXP;
3. enable UPNP and "Allow users to make configuration changes through UPnP" in GUI-UPNP;
4. make sure that wan should be first to ask for whiteboard;
5. MSN6.2-MSN6.2;MSN7.0-MSN6.2;MSN6.2-MSN7.0;MSN7.0-MSN7.0.

3.[Bug Fix]

If run multicast stream(s) with throughput less than 5.5Mbit then it works fine. But if the stream speed goes up to 6Mb or higher then the device is not able to keep up and the multicast stream starts to get choppy and it gets unviewable

Modification in 3.40(ACI.2)C0| 07/26/2005

1. change to FCS.

Modification in 3.40(ACI.2)b1 | 07/26/2005

2. [Feature Enhancement]

Block the traffics between WLAN and LAN.

2. [Feature Enhancement]

Add WPA2 feature

3. [Bug Fixed]

In GUT/Advanced Setup/NAT/Full Feature, while click "Delete" button to delete one rule, this button can not work.

4.[Bug Fixed]

[Symptom]WPA2-PSK function in DUT/GUI,DUT require to active the RADIUS at first

[Condition]Step1 Go to GUI/Wireless, try to use WPA2-PSK

Step2 DUT require to active the RADIUS at first

Step3 While in SMT, don't need to do so

Modification in 3.40(ACI.1)C0 | 07/12/2005

1. fix the wireless power control issue.
2. fix the ADM6996I-AC version Ethernet switch IOP issue

Modification in 3.40(ACI.0)C0 | 07/04/2005

1. change to FCS.

Modification in 3.40(ACI.0)b2 | 07/04/2005

1. build the f/w from 3.40(UU.0)C0.

Modification in 3.40(ACI.0)b1 | 05/17/2005

1. Create this project.

Annex A CI Command List

Command Class List Table		
System Related Command	Exit Command	Ethernet Related Command
WAN Related Command	WLAN Related Command	IP Related Command
Bridge Related Command	Radius Related Command	8021x Related Command
Bandwidth Management		

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
	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:non e]	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
tripleplay				
		portbase		
		enable		enable port mapping
		disable		disable port mapping
		set <eportid> <pvcid disable>		set port map to pvc or disable
		disp		display the port mapping table
		save		save configue
		groupset [groupid] [LAN PVC] [index] [WLAN]		set mapping group
		groupadd [groupid] [LAN PVC] [index] [WLAN]		add mapping in a group
		groupdel [groupid] [ALL LAN PVC] [index] [WLAN]		delete mapping in a group
	igmpsnp			
		enable		enable igmp snooping
		disable		disable igmp snooping
		maxresptime [value]		set SP_MaxResponseTime
		queryinterval [value]		set SP_QueryInterval
		robust [value]		set SP_Robustness
		disp		display current group status
		debug [value]		open debug flag
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
		manageip	<1-16> <ip>	set server managed 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
tripleplay			
	portbase		
		enable	Enable triple-play service
		disable	Disable triple-play service
		set <eportid> <pvcid disable>	Set triple-play service
		save	Save triple-play service
		disp	display triple-play information
8021p			
	enable		Enable 802.1p
	disable		Disable 802.1p
	set	<LanPort> <priority>	Set priority per LAN Port
	disp		Show 802.1p settings
	save		Save the settings to FLASH ROM
8021q			
	enable		Enable 802.1q
	disable		Disable 802.1q
	set	<Group#> vid <VlanId> lanPort <LanPort #1> ... [LanPort #4] wanPort <RemoteNode #1> ... [RemoteNode #8]	Set VLAN Group information, include VLAN, LAN port mapping, and Remote Node mapping. where, <Group#>: 1~4 <VlanId>: 1~4094, 0=>Disable this group settings, 4095=>Reserved <LanPort#>: 1~4 <RemoteNode#>: 1~8
	setlan	<LanPort#> <Group#>	Join LAN Port ID into group <LanPort#>: 1~4 <Group#>: 1~4, 0=>remove from the group
	setwan	<RemoteNode#> <Group#>	Join Remote Node ID into group <RemoteNode#>: 1~8 <Group#>: 1~4, 0=>remove from the group
	disp		Show 802.1q settings

		save		Save the settings to FLASH ROM
		clear	<Group#>	Clear the group settings <Group#>: 1~4

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>
	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>
		set ether test packet display level
		event <ch> [on off]
		turn on/off ether test event display
	sap	[ch_name]
	arp	<ch_name> <ip-addr>
	mem	<addr> <data> [type]
test		<ch_id> <test_id> [arg3] [arg4]
pncconfig		<ch_name>
mac		<src_ch> <dest_ch> <ipaddr>
switch		
	speedDuplex	<portID> [a m =auto manual] [10 100] [h f =half/full-duplex]
		Set speed/duplex mode portID: all 1 2 3 4
	status	Show Ethernet port link speed/duplex status

WAN Related Command

[Home](#)

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
		perfdta		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
wan	atm	vchunt		
			Add <remoteNodeIndex> <vpi> <vci> <service bit(hex)>	<p>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</p> <p>Need to perform save after this command</p>
			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

WLAN Related Command

[Home](#)

Command				Description
Wlan				
	active	[on off]	[0 1]	Turn on/off wireless lan
	association			Show association list
	load			Load WLAN configuration into buffer.
	Display			Display WLAN configuration data.
	chid			Configure channel ID
	essid			Configure ESSID
	hiddenssid		[on/off]	Enable/Disable hidden SSID
	threshold			
		rts	<RTS threshold value>	Set threshold rts value
		Fragment	<Fragment threshold value>	Set threshold fragmentation value
	wep			
		type	<none 64 128 256>	Set WEP key to 64, 128 or 256 bits.
		Key	Set <set> <value>	Set WEP key value per set
		Key	Default <set>	Set WEP default key set
	macfilter			
		Enable		Enable macfilter
		Disable		Disable macfilter
		Action	<allow deny>	When action match, allow or deny this mac
		Set	<Set#> <MAC Address>	Set mac address by set
	Clear			Clear all WLAN configuration data.
	Save			Save WLAN configuration working buffer to Rom file.
	filter			
		[incoming outgoing]	<generic>[set#1][set#2][set#3][set#4]	To set generic filter for wireless channel
	version			

IP Related Command

[Home](#)

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
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		print 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
	snoop			
		enable		Enable IGMP Snooping
		disable		Disable IGMP Snooping
		status		Show IGMP Snooping 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 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

Radius Related Command

[Home](#)

Command				Description
radius				
	auth			show current radius authentication server configuration
	acco			show current radius accounting server configuration

8021x Related Command

[Home](#)

Command				Description
8021x				
	debug	level	[debug level]	set ieee802.1x debug message level
		trace		show all supplications in the supplication table
		user	[username]	show the specified user status in the supplicant table

Bandwidth management Related Command

[Home](#)

Command				Description
bm				

	interface	lan	enable	<bandwidth xxx>		Enable bandwidth management in LAN with bandwidth xxx bps. If the user doesn't set the bandwidth, the default value is 100Mbps.
				<wrr prr>		Select fairness-based(WRR) or priority-based(PPR) mechanism. the default value is fairness-based.
				<efficient>		Enable work-conserving feature.
				<marktos xx>		Mark TOS value.
			disable			Disable bandwidth management in LAN
	wlan	enable		<bandwidth xxx>		Enable bandwidth management in WLAN with bandwidth xxx bps. If the user doesn't set the bandwidth, the default value is 100Mbps.
				<wrr prr>		Select fairness-based(WRR) or priority-based(PPR) mechanism. the default value is fairness-based.
				<efficient>		Enable work-conserving feature.
				<marktos xx>		Mark TOS value.
			disable			Disable bandwidth management in WLAN
	mpoa[00~07]	enable		<bandwidth xxx>		Enable bandwidth management in WAN with bandwidth xxx bps. If the user doesn't set the bandwidth, the default value is 100Mbps.
				<wrr prr>		Select fairness-based(WRR) or priority-based(PPR) mechanism. the default value is fairness-based.
				<efficient>		Enable work-conserving feature.
				<marktos xx>		Mark TOS value.
			disable			Disable bandwidth management in WAN
class	lan	add #	bandwidth xxx	<name xxx>		Add a class with bandwidth xxx bps in LAN. The name is for users' information.
				<priority x>		Set the class' priority. The range is between 0 (the lowest) to 7 (the highest). The default value is 3.
				<borrow on off>		The class can borrow bandwidth from its parent class when the borrow is set on, and vice versa. The default value is off.
				<marktos xx>		Mark TOS value.
		mod #	<bandwidth xxx>			Modify the parameters of the class in LAN. The bandwidth is unchanged if the user doesn't set a new value.
				<name xxx>		Set the class' name.
				<priority x>		Set the class' priority. The range is between 0 (the lowest) to 7 (the highest). The priority is unchanged if the user doesn't set a new value.
				<borrow on off>		The class can borrow bandwidth from its parent class when the borrow is set on, and vice versa. The borrow is unchanged if the user doesn't set a new value.
				<marktos xx>		Mark TOS value.
		del #				Delete the class # and its filter and all its children class and their filters in LAN.
	wlan	add #	bandwidth xxx	<name xxx>		Add a class with bandwidth xxx bps in WLAN. The name is for users' information.
				<priority x>		Set the class' priority. The range is between 0 (the lowest) to 7 (the highest). The default value

					is 3.
				<borrow on off>	The class can borrow bandwidth from its parent class when the borrow is set on, and vice versa. The default value is off.
				<marktos xx>	Mark TOS value.
		mod #	<bandwidth xxx>		Modify the parameters of the class in WLAN. The bandwidth is unchanged if the user doesn't set a new value.
			<name xxx>		Set the class' name.
			<priority x>		Set the class' priority. The range is between 0 (the lowest) to 7 (the highest). The priority is unchanged if the user doesn't set a new value.
			<borrow on off>		The class can borrow bandwidth from its parent class when the borrow is set on, and vice versa. The borrow is unchanged if the user doesn't set a new value.
			<marktos xx>		Mark TOS value.
		del #			Delete the class # and its filter and all its children class and their filters in WLAN.
	mpoa[00~07]	add #	bandwidth xxx	<name xxx>	Add a class with bandwidth xxx bps in WAN. The name is for users' information.
				<priority x>	Set the class' priority. The range is between 0 (the lowest) to 7 (the highest). The default value is 3.
				<borrow on off>	The class can borrow bandwidth from its parent class when the borrow is set on, and vice versa. The default value is off.
				<marktos xx>	Mark TOS value.
		mod #	<bandwidth xxx>		Modify the parameters of the class in WAN. The bandwidth is unchanged if the user doesn't set a new value.
			<name xxx>		Set the class' name.
			<priority x>		Set the class' priority. The range is between 0 (the lowest) to 7 (the highest). The priority is unchanged if the user doesn't set a new value.
			<borrow on off>		The class can borrow bandwidth from its parent class when the borrow is set on, and vice versa. The borrow is unchanged if the user doesn't set a new value.
			<marktos xx>		Mark TOS value.
		del #			Delete the class # and its filter and all its children class and their filters in WAN.
	filter	lan	add #	Daddr <mask Dmask> Dport Saddr <mask Smask> Sport protocol tos <xx> tosmask <xx>	Add a filter for class # in LAN. The filter contains destination address (netmask), destination port, source address (netmask), source port , protocol, tos value and tos mask. You may set the value as 0 if you do not care the item.
			del #		Delete a filter which belongs to class # in LAN.
		wlan	add #	Daddr <mask Dmask> Dport Saddr <mask Smask> Sport protocol tos <xx>	Add a filter for class # in WLAN. The filter contains destination address (netmask), destination port, source address (netmask), source port , protocol, tos value and tos mask.

				tosmask <xx>		You may set the value as 0 if you do not care the item.
			del #			Delete a filter which belongs to class # in WLAN.
		mpoa[00~07]	add #	Daddr <mask Dmask> Dport Saddr <mask Smask> Sport protocol tos <xx> tosmask <xx>		Add a filter for class # in WAN. The filter contains destination address (netmask), destination port, source address (netmask), source port , protocol, tos value and tos mask. You may set the value as 0 if you do not care the item.
			del #			Delete a filter which belongs to class # in WAN.
show	interface	lan				Show the interface settings of LAN
		wlan				Show the interface settings of WLAN
		mpoa[0 0~07]				Show the interface settings of WAN
	class	lan				Show the classes settings of LAN
		wlan				Show the classes settings of WLAN
		mpoa[0 0~07]				Show the classes settings of WAN
	filter	lan				Show the filters settings of LAN
		wlan				Show the filters settings of WLAN
		mpoa[0 0~07]				Show the filters settings of WAN
	statistics	lan				Show the statistics of the classes in LAN
		wlan				Show the statistics of the classes in WLAN
		mpoa[0 0~07]				Show the statistics of the classes in WAN
monitor	lan	<#>				Monitor the bandwidth of class # in LAN. If the class is not specific, all the classes in LAN will be monitored. The first time you key the command will set it on; the second time you will set it off, and so on.
	wlan	<#>				Monitor the bandwidth of class # in WLAN. If the class is not specific, all the classes in WLAN will be monitored. The first time you key the command will set it on; the second time you will set it off, and so on.
	mpoa[00~07]	<#>				Monitor the bandwidth of class # in WAN. If the class is not specific, all the classes in WAN will be monitored. The first time you key the command will set it on; the second time you will set it off, and so on.
config	save					Save the configuration.
	load					Load the configuration.
	clear					Clear the configuration.

2. Manufactory Data in Bootbase

ZyNOS Version	:	V3.40(ACI.7) 10/18/2006 14:33:26
Bootbase Version	:	V1.06 01/11/2006 10:26:03
Vendor Name	:	ZyXEL Communications Corp.
Product Model	:	Prestige 660HW-T1
ZyNOS Code Model	:	P660HW-T1 ATU-R
HTP Code Model	:	HTP_P660 V 0.06
ZyNOS ROM address	:	bfc10000
System Type	:	7
MAC Address	:	001349000001
Default Country Code	:	FF
Boot Module Debug Flag	:	01
RomFile Version	:	58
RomFile Checksum	:	fcb8
ZyNOS Checksum	:	4f49
Core Checksum	:	5f92
SNMP MIB level & OID	:	
060102030405060708091011121314151617181920		
Main Feature Bits	:	C0
Other Feature Bits	:	 9A 0E 00 00 01 00 00 00-00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00-02 41 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 change by production process. Only the fist 3 octets will be correct. The last 3 octets will depend on the production process.

3. Default ROM File Value Setting

. Menu 1: General Setup

Menu 1 - General Setup
System Name= P660HW-T1
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 2: Wan Backup Setup

Menu 2 - Wan Backup Setup

```
Check Mechanism = DSL Link
Check WAN IP Address1 = 0.0.0.0
Check WAN IP Address2 = 0.0.0.0
Check WAN IP Address3 = 0.0.0.0
    KeepAlive Fail Tolerance = 0
    Recovery Interval(sec) = 0
    ICMP Timeout(sec) = 0
Traffic Redirect = No
```

Press ENTER to Confirm or ESC to Cancel:

• Menu 3: LAN Setup

Menu 3 - LAN Setup

1. LAN Port Filter Setup
2. TCP/IP and DHCP Setup

5. Wireless LAN Setup

Enter Menu Selection Number:

• 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 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-1
    Multicast= None
    IP Policies=
    Edit IP Alias= No
```

Press ENTER to Confirm or ESC to Cancel:

• Menu 3.5 Wireless LAN Setup

Menu 3.5- Wireless LAN Setup

ESSID= ZyXEL
Hide ESSID= No
Channel ID= CH06 2437MHz
RTS Threshold= 2432
Frag. Threshold= 2432
WEP= Disable
Default Key= N/A
Key1= N/A
Key2= N/A
Key3= N/A
Key4= N/A
Edit MAC Address Filter= No

Press ENTER to Confirm or ESC to Cancel:

• Menu 3.5.1 WLAN MAC Address Filter

Menu 3.5.1 - WLAN MAC Address Filter

Active= No
Filter Action= Allowed Association

1= 00:00:00:00:00:00	13= 00:00:00:00:00:00	25= 00:00:00:00:00:00
2= 00:00:00:00:00:00	14= 00:00:00:00:00:00	26= 00:00:00:00:00:00
3= 00:00:00:00:00:00	15= 00:00:00:00:00:00	27= 00:00:00:00:00:00
4= 00:00:00:00:00:00	16= 00:00:00:00:00:00	28= 00:00:00:00:00:00
5= 00:00:00:00:00:00	17= 00:00:00:00:00:00	29= 00:00:00:00:00:00
6= 00:00:00:00:00:00	18= 00:00:00:00:00:00	30= 00:00:00:00:00:00
7= 00:00:00:00:00:00	19= 00:00:00:00:00:00	31= 00:00:00:00:00:00
8= 00:00:00:00:00:00	20= 00:00:00:00:00:00	32= 00:00:00:00:00:00
9= 00:00:00:00:00:00	21= 00:00:00:00:00:00	
10= 00:00:00:00:00:00	22= 00:00:00:00:00:00	
11= 00:00:00:00:00:00	23= 00:00:00:00:00:00	
12= 00:00:00:00:00:00	24= 00:00:00:00:00:00	

Enter here to CONFIRM or ESC to CANCEL:

• Menu 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
ENET ENCAP Gateway= 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	Edit Advance Options= N/A
Incoming:	Telco Option:
Rem Login= N/A	Allocated Budget(min)= N/A
Rem Password= N/A	Period(hr)= N/A
Outgoing:	Nailed-Up Connection= N/A
My Login= N/A	Session Options:
My Password= N/A	Edit Filter Sets= No
Authen= N/A	Idle Timeout(sec)= N/A

Press ENTER to Confirm or ESC to Cancel:

- Menu 11.3 Remote Node Network Layer Options

Menu 11.3 - Remote Node Network Layer

Options

IP 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 11.5 Remote Node Filter

```
Menu 11.5 - Remote Node Filter
```

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

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

- Menu 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 12 Static Route Setup

```
Menu 12 - Static Route Setup
```

```
1. IP Static Route  
3. Bridge Static Route
```

```
Please enter selection:
```

- 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

Enter Menu Selection Number:

- Menu 15.1 - Address Mapping Sets

```
Menu 15.1 - Address Mapping Sets
```

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

Enter Menu Selection Number:

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- 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

Enter Set Number to Edit:

- Menu 15.2.1 -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 and Firewall Setup

```
Menu 21 - Filter and Firewall Setup
```

1. Filter Setup
2. Firewall Setup

```
Enter Menu Selection Number:
```

- Menu 21.1 - Filter Set Configuration

```
Menu 21.1 - Filter Set Configuration
```

Filter Set #	Comments	Filter Set #	Comments
1	_____	7	_____
2	NetBIOS_WAN	8	_____
3	NetBIOS_LAN	9	_____
4	IGMP	10	_____
5	_____	11	_____
6	_____	12	_____

```
Enter Filter Set Number to Configure= 0
```

```
Edit Comments= N/A
```

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

- Menu 21.1.2 - Filter Rules Summary (for NetBIOS_WAN)

```
Menu 21.1.2 - 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 21.1.3 - Filter Rules Summary (for NetBIOS_LAN)

```
Menu 21.1.3 - 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:
```

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- Menu 21.4 - Filter Rules Summary (for IGMP)

```
Menu 21.1.4 - Filter Rules Summary
```

#	A	Type	Filter Rules	M m n
-	-	-	-	-
1	Y	Gen	Off=0, Len=3, Mask=fffff, Value=01005e	N D F
2	N			
3	N			
4	N			
5	N			
6	N			

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

- Menu 21.2 - Firewall Setup

```
Menu 21.2 - Firewall Setup
```

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

1. allow all sessions originating from the LAN to the WAN and
2. deny all sessions originating from the WAN to the LAN

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

Active: Yes

LAN-to-WAN Set Name: ACL Default Set

WAN-to-LAN Set Name: ACL Default Set

Please configure the Firewall function through Web Configurator

Press ENTER to Confirm or ESC to Cancel:

- Menu 22 - SNMP Configuration:

```
Menu 22 - SNMP Configuration
```

SNMP:

Get Community= public

Set Community= public

Trusted Host= 0.0.0.0

Trap:

Community= public

Destination= 0.0.0.0

Press ENTER to Confirm or ESC to Cancel:

- Menu 23 – System Security:

```
Menu 23 - System Security
```

1. Change Password
2. RADIUS Server

4. IEEE802.1x

- Menu 23 – System Security- Change Password

Menu 23.1 - System Security - Change Password

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

Enter here to CONFIRM or ESC to CANCEL:

- Menu 23 – System Security –RADIUS Server

Menu 23.2 - System Security - RADIUS Server

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

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

Press ENTER to Confirm or ESC to Cancel:

- Menu 23.4 - System Security - IEEE802.1x

Menu 23.4 - System Security - IEEE802.1x

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

Key Management Protocol= N/A
Dynamic WEP Key Exchange= N/A
PSK= N/A
WPA Mixed Mode= N/A

WPA Broadcast/Multicast Key Update Timer= N/A

Authentication Databases= N/A

Press ENTER to Confirm or ESC to Cancel:

- Menu 24.2 - System Information and Console Port Speed:

Menu 24.2 - System Information and Console Port Speed

1. System Information
2. Console Port Speed

Please enter selection:

- Menu 24.2.1: System Maintenance -Information

Menu 24.2.1 - System Maintenance - Information

Name: P660HW-T1
Routing: IP
ZyNOS F/W Version: V3.40(ACI.7) | 10/18/2006
ADSL Chipset Vendor: DMT FwVer: 3.4.1.0_A_TC, HwVer:
T14F7_+

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= 0.0.0.0
Log Facility= Local 1

Press ENTER to Confirm or ESC to Cancel:

- Menu 24.10: System Maintenance - Time and Date Setting

Menu 24.10 - System Maintenance - Time and Date Setting

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

Current Time: 00 : 01 : 08
New Time (hh:mm:ss): 00 : 00 : 57

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

Time Zone= (GMT-12:00) International Date Line West

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 = ALL
Secured Client IP = 0.0.0.0

FTP Server:

Server Port = 21 Server Access = ALL
Secured Client IP = 0.0.0.0

Web Server:

Server Port = 80 Server Access = ALL
Secured Client IP = 0.0.0.0

Press ENTER to Confirm or ESC to Cancel:

- Default commands in autoexec.net

```
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
ppp ipcp compress off
sys wdog sw on
ip icmp discovery enif0 off
bridge mode 1
sys quick enable
wan adsl rate off
ether driver qroute 2
wan dmt2 db tlb 10
```