



Firmware Release Note

Prestige 652HW-33

Standard version

Release 3.40(NL.2)C1

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|----------------|-------------------------|
| Date: | October 22, 2003 |
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ZyXEL Prestige 652HW-33 Standard Version Release 3.40(NL.2)C1 Release Note

Date: October 22, 2003

Supported Platforms:

ZyXEL Prestige 652HW-33

Versions:

ZyNOS F/W Version : V3.40(NL.2) | 9/8/2003 17:55:09

BootBase : V1.11 | 3/4/2003 10:26:13

Notes:

The P652HW-33 is a small-office and home device that will allow a small LAN to access the Internet. By integrating ADSL, WLAN, NAT, P652HW-31 provides the ease of installation and Internet access.

The P652HW-33 provides an PCMCIA wireless card slot for 802.11b 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 port for connection to ADSL line.

The version of Alcatel modem code is 4.9.10

Known Issues:

1. WLAN can't update to the maximum transmit rate in Bandwidth Management.
2. Upgrading firmware from V3.40(NL.1) to V3.40(NL.2) without loading default ROM file needs to set Menu 1 Bridge to Yes and reboot in order to make communication between WLAN and LAN.

CI Command List:

Features:

Modification in 3.40(NL.2)C1 | 10/22/2003

1. [BUG FIX] Set Menu1 Bridge=Yes in default ROM file.

Modification in 3.40(NL.2)b1 | 09/01/2003

1. [BUG FIX] Fix IPSec exception when using PPPoA.
2. [BUG FIX] Fix VPN can't ping after the VPN tunnel created and PFS turned on.

Modification in 3.40(NL.1)b2 | 07/07/2003

1. [BUG FIX] SMT menu 24.1 will display wrong if DSL line is plugged and then unplugged.

Modification in 3.40(NL.1)b1 | 07/07/2003

1. [BUG FIX] PPPoE pass through can't work when WLAN card is inserted.
2. [BUG FIX] PPPoE connection acts abnormally with Linux PPPoE server.
3. [BUG FIX] Bandwidth management cause PCMCIA hang-up.

Modification in 3.40(NL.0)b5 | 06/25/2003

1. [BUG FIX] WLAN can't send packets.
2. [FEATURE ENHANCE] Update Web Help Pages: NAT, WAN, Dial-Backup, Wizard, and Firmware Upload.
3. [FEATURE ENHANCE] Extend Password to 72 Characters.

Modification in 3.40(NL.0)b4 | 06/20/2003

1. [FEATURE ENHANCE] Add Bandwidth Management
2. [BUG FIX] Can't play XBox Live via NAT router.
3. [BUG FIXED] IPsec bug
Symptom: After phase 2 rekey, dynamic rule cannot pass traffic anymore.
Condition: 1) Set secure gateway of a rule to 0.0.0.0, it becomes a dynamic rule and only can be responder. Trigger the tunnel by inbound request from the peer.
- 2) After the phase 2 rekey, traffic cannot pass this tunnel anymore.
4. [BUG FIXED] IPsec bug
Symptom: When "keep alive" flag turns on, disconnection in SA monitor didn't work correctly.
Condition: 1) Turn on keep alive flag.
2) Use SA monitor to disconnect the tunnel.
3) The tunnel will not be disconnected properly. There will be still tunnels showed on SA monitor.
5. [BUG FIXED] Dial Backup bug
Symptom: Nailed-up function for Dial backup node can't work.
Condition: Dial backup node can set nailed-up feature but can't really work.
6. [BUG FIXED] Polycom camera pass through
Symptom: If the traffic for Polycom camera pass our router, the router would be reboot.
Condition: Polycom camera is implemented by H.323. So our router would do nat for this device.

Modification in 3.40(NL.0)b3 | 05/27/2003

1. [BUG FIX] PPPoE Client can't work if the first remote node is in bridge mode and smt menu 1 routing set to yes.
2. [BUG FIX] smt menu 11 select bridge should not affect the submenu 11.2 SUA selection.
3. [FEATURE ENHANCE] Add CI commands by TE request. "sys romreset

- <1:reboot|2:no reboot>”, “sys atsh”, “sys atwe <mac address> <country code> <debug flag> <feature bits> < 1:reboot|0:no reboot>”, and “sys stdio 0 [seconds]”.
4. [FEATURE ENHANCE] Change "sys smt on/off" from internal usage to hide.
 5. [FEATURE ENHANCE] Enhance the CI command "sys proc stack" & "sys proc disp" to show the maximum stack usage for THREADX.
 6. [BUG FIX] In Web GUI, Port speed select is not consistent with the dial backup advance GUI.
 7. [FEATURE CHANGE] Modify WLAN default channel to CH06.

Modification in 3.40(NL.0)b2 | 05/20/2003

1. [FEATURE CHANGE] Modify Boot base product string from “P652HW-33” to “P652H/HW-33”.
2. [FEATURE ENHANCE] Add SPTGen for MAC Filter, RADIUS, and IEEE802.1X.
3. [FEATURE ENHANCE] Enlarge FTP allocated buffer.
4. [FEATURE ENHANCE] Add Multi Language Web GUI.
5. [BUG FIX] Web GUI “wan.html” shows error if PPPoE pass through is selected “Yes”.

Annex A CI Command List

| Command Class List Table | | |
|--|--|--|
| System Related Command | Exit Command | Ethernet Related Command |
| IP Related Command | Bridge Related Command | WAN Related Command |
| WLAN 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 | | | |
| | | add | <phone dir [rate] [upTime]> | add entry to call history |
| | | display | | display call history |
| | | remove | <index> | remove entry from call history |
| | clear | | | clear the counters in GUI status menu |
| | clock | | | |
| | | display | | display system clock |
| | countrycode | | [countrycode] | set country code |
| | date | | [year month date] | set/display date |
| | dir | | | display file directory |
| | domainname | | | display domain name |
| | edit | | <filename> | edit a text file |
| | enhanced | | | return OK if commands are supported for PWC purposes |
| | errectl | | [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 |
| | | | 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 |
| | | | javablocked [0:none/1:log] | record the java etc. blocked 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 |
| | log | | | |
| | | clear | | clear log error |
| | | disp | | display log error |
| | | online | [on/off] | turn on/off error log online display |
| | map | | | display whole memory map content |
| | mbuf | | | |
| | | link | link | list system mbuf link |
| | | pool | <id> [type] | list system mbuf pool |

| | | | | |
|--|----------|-----------|---------------------------------|---|
| | | status | | display system mbuf status |
| | | disp | <address> | display mbuf status |
| | | cnt | | |
| | | | disp | display system mbuf count |
| | | | clear | clear system mbuf count |
| | | 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 |
| | pwc | | | sends information to PWC via telnet |
| | 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, fir0 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 |
| | syslog | | | |
| | | server | [destIP] | set syslog server IP address |
| | | facility | <FacilityNo> | set syslog facility |
| | | type | [type] | set/display syslog type flag |
| | | mode | [on off] | set syslog mode |
| | version | | | display RAS code and driver version |
| | view | | <filename> | view a text file |
| | wdog | | | |
| | | switch | [on off] | set on/off wdog |
| | | cnt | [value] | display watchdog counts value: 0-34463 |
| | | dead | | let watch dog take place using while loop |
| | 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 |
| | | set | <offset> <len> <value...> | set spt value in memory address |
| | | 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 |
| | | data | <ch-name> | show channel connection related data |
| | | 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 |
| | | rule | <iface> | display iface filter flag |
| | | set | <set> | display filter rule |
| | | addNetBios | | add netbios filter |
| | | removeNetBios | | remove netbios filter |
| | | 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 |
| | | blockbc | [on off] | set/display broadcast filter mode |
| | ddns | | | |
| | | debug | <level> | enable/disable ddns service |
| | | display | <iface name> | display ddns information |
| | | restart | <iface name> | restart ddns |
| | | logout | <iface name> | logout ddns |
| | cpu | | | |
| | | display | | display CPU utilization |

Exit Command

[Home](#)

| Command | | | | Description |
|---------|--|--|--|---------------|
| exit | | | | exit smt menu |

Ethernet Related Command

[Home](#)

| Command | | | | Description |
|---------|-----------|--------|---------------------------------|--|
| ether | | | | |
| | config | | | display LAN configuration information |
| | driver | | | |
| | | Cnt | | |
| | | | disp <name> | display ether driver counters |
| | | | clear <name> | clear ether driver counters |
| | | Iface | <ch_name> <num> | send driver iface |
| | | Ioctl | <ch_name> | Useless in this stage. |
| | | Mac | <ch_name> <mac_addr> | Set LAN Mac address |
| | | Reg | <ch_name> | display LAN hardware related registers |
| | | Rxmod | <ch_name> <mode> | set LAN receive mode. mode: 1: turn off receiving 2: receive only packets of this interface 3: mode 2+ broadcast 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 |

IP Related Command

[Home](#)

| Command | | | | Description |
|---------|----------|----------|----------------------------------|---|
| ip | | | | |
| | address | | [addr] | display host ip address |
| | alias | | <iface> | alias iface |
| | aliasdis | | <0 1> | disable alias |
| | arp | | | |
| | | status | <iface> | display ip arp status |
| | | add | <hostid> ether <ether addr> | add arp information |
| | | resolve | <hostid> | resolve ip-addr |
| | | replydif | [<0:No 1:yes>] | reply different interface ip-addr's arp request |
| | | drop | <hostid> [hardware] | drop arp |
| | | flush | | flush arp table |
| | | publish | | add proxy arp |
| | dhcp | | <iface> | |
| | | client | | |
| | | | release | release DHCP client IP |
| | | | renew | renew DHCP client IP |
| | | mode | <server relay none client> | set dhcp mode |
| | | relay | server <serverIP> | set dhcp relay server ip-addr |
| | | reset | | reset dhcp table |
| | | server | | |
| | | | probecount <num> | set dhcp probe count |
| | | | dnsserver <IP1> [IP2] [IP3] | set dns server ip-addr |
| | | | winsserver <winsIP1> [<winsIP2>] | set wins server ip-addr |
| | | | gateway <gatewayIP> | set gateway |
| | | | hostname <hostname> | set hostname |
| | | | initialize | fills in DHCP parameters and initializes (for PWC purposes) |
| | | | leasetime <period> | set dhcp leasetime |
| | | | netmask <netmask> | set dhcp netmask |
| | | | pool <startIP> <numIP> | set dhcp ip pool |
| | | | renewaltime <period> | set dhcp renew time |
| | | | rebindtime <period> | set dhcp rebind time |
| | | | reset | reset dhcp table |
| | | | server <serverIP> | set dhcp server ip for relay |
| | | | dnsorder [router isp] | set dhcp dns order |
| | | status | [option] | show dhcp status |
| | | static | | |
| | | | delete <num> all | delete static dhcp mac table |
| | | | display | display static dhcp mac table |
| | | | update <num> <mac> <ip> | update static dhcp mac table |
| | dns | | | |
| | | query | | |
| | | | address <ipaddr> [timeout] | resolve ip-addr to name |
| | | | debug <num> | enable dns debug value |
| | | | name <hostname> [timeout] | resolve name to ip-addr |
| | | | status | display dns query status |
| | | | table | display dns query table |
| | | server | <primary> [secondary] [third] | set dns server |
| | | stats | | |
| | | | clear | clear dns statistics |
| | | | disp | display dns statistics |

| | | | | |
|--|----------|-------------|---|--|
| | | table | | display dns table |
| | httpd | | | |
| | | debug | [on off] | set http debug flag |
| | icmp | | | |
| | | echo | [on off] | set icmp echo response flag |
| | | data | <option> | select general data type |
| | | check | | |
| | | | cmd [on off] | check icmp echo reply command data |
| | | | rsp [on off] | check icmp response |
| | | | indication [i r l p] | set icmp indication |
| | | 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 | <tc< | reset tcb |
| | | rtt | <tc< <value> | set round trip time for tcb |
| | | status | [tc<] [<interval>] | display TCP statistic counters |
| | | syndata | [on off] | TCP syndata piggyback |
| | | trace | [on off] | turn on/off trace for debugging |
| | | window | [tc<] | TCP input window size |
| | samenet | | <iface1> [<iface2>] | display the ifaces that in the same net |
| | uninet | | <iface> | set the iface to uninet |
| | tftp | | | |
| | | support | | prtn if tftp is support |
| | | stats | | display tftp status |
| | xparent | | | |
| | | join | <iface1> [<iface2>] | join iface2 to iface1 group |
| | | break | <iface> | break iface to leave ipxparent group |
| | anitprobe | | <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 | | | |
| | | debug | [on off] | turn on/off the nat debug flag |
| | | period | [period] | set nat timer period |
| | | port | [port] | set nat starting external port number |
| | | checkport | | verify all server tables are valid |
| | | 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 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 |

WAN Related Command[Home](#)

| Command | | | | Description |
|---------|------|-----------|--|----------------------------------|
| Wan | adsl | Bert | | ADSL ber |
| | | Chandata | | ADSL channel data, line rate |
| | | close | | Close ADSL line |
| | | Coding | | ADSL standard current |
| | | Ctrleint | | ADSL CTRL response command |
| | | Defbitmap | | ADSL defect bitmap status |
| | | Dyinggasp | | Send ADSL dyinggasp |
| | | Fwav | | Test the ADSL F/W available ping |

| | | | | |
|--|--|---------------|------------------|--|
| | | Fwdl | | Download modem code, but must reset first |
| | | Linedata | | |
| | | Linedata | near | Show ADSL near end noise margin |
| | | Linedata | far | Show ADSL far end noise margin |
| | | Open | | Open ADSL line |
| | | opencmd | | Open ADSL line with specific standard |
| | | Opmode | | Show the operational mode |
| | | Perfdata | | Show performance information,CRC,FEC, error seconds.. |
| | | Rdata | [start] [length] | Read DSP CTRL registers 512 bytes |
| | | Reset | | Reset ADSL modem, and must reload the modem code again |
| | | Selftest | | |
| | | Selftest | Long | ADSL long loop test |
| | | Selftest | short | ADSL short loop test |
| | | Status | | ADSL status (ex: up, down or wait for init) |
| | | Version | | ADSL version information |
| | | Vendorid | | ADSL vendor information |
| | | Utopia | | Show ADSL utopia information |
| | | Cellcnt | | Show ADSL cell counter |
| | | display | | |
| | | display | shutdown | Show the counter of rate adaptive mechanism happening |
| | | display | rateup | Show real status that rate adaptive mechanism happened |
| | | Rateadap | [on/off] | Turn on/off rate adaptive mechanism |
| | | Dumpcondition | [on/off] | Turn on/off online debug information of rate adaptive mechanism |
| | | Sampletime | [mins] | Tune the sample time of rate adaptive mechanism |
| | | Noisegt | [dB] | if noise margin is 3db greater than before, and rate is worse than before, then system will do “L1 shutdown RA3”, default is 3db |
| | | Noisemargin | [dB] | if noise margin is greater than this value, and rate is worse than before, then system will do “L1 shutdown RA3”, default is 8db |
| | | persisttime | [time] | when the adaptive condition is matched system will continue to monitor the time period “persisttime” before doing “L1 shutdown RA3”, default is 30 seconds |
| | | Timeinterval | [mins] | when “L1 shutdown RA3” is done twice, and still can’t reach the max rate which system recorded, it will delay a time period that the period base time is “timeinterval” before starting again. The time-based default is 2 hrs |
| | | Defectcheck | [on/off] | Turn on/off detect table checking, default is on |
| | | Txgain | [value] | Set the CTRL register (0xc3), the value is from 0xfa to 0x06 |
| | | Targetnoise | [value] | Set the CTRL register (0xc4), the value is from 0xfa to 0x06 |
| | | Maxtonelimit | [value] | Set the CTRL register (0xc5), the value is from 0xfa to 0x06 |
| | | Rxgain | [value] | Set the CTRL register (0xc6), the value is from 0xfa to 0x06 |
| | | Txoutputpwr | [value] | Set the CTRL register (0xc7), the value is from |

| | | | | |
|-----|-------|---------------|--------------------------------|--|
| | | | | 0xfa to 0x06 |
| | | Rxoutputpwr | [value] | Set the CTRL register (0xc8), the value is from 0xfa to 0x06 |
| | | maxoutputpwr | [value] | Set the CTRL register (0xc9), the value is from 0xfa to 0x06 |
| | | Errorsecond | | |
| | | Errorsecond | Switch [1 0] | Turn on/off error sending to DSLAM side |
| | | Errorsecond | sendes | Send current error second information immediately |
| | | Dygasprecover | | |
| | | Dygasprecover | Level [value] | By default is 100, after receiving 100 dying gasp system will reboot |
| | | Dygasprecover | Active [on off] | Turn on/off this mechanism |
| | | rsploss | [1 0] | Turn on means to response signal loss of CTRL immediately, default is off |
| | | watchdog | [1 0] | Watchdog for DSP |
| | atm | test | [fix rand period oam loopback] | Generate ATM traffic |
| wan | hwsar | Disp | | Display hwsar packets incoming/outgoing information |
| | | Clear | | Clear hwsar packets information |
| | | Sendoam | | Send OAM packets: <vpi> <vci> <f5> <end-to-end> <type:0(AIS) 1(RDI) 2(LoopBack)> |

WLAN Related Command

[Home](#)

| Command | | | | Description |
|---------|---------|-------------------------|--|--|
| Wlan | | | | |
| | Essid | | | Configure ESSID |
| | Chid | | | Configure channel ID |
| | debug | | | Turn on /off debug information |
| | version | | | Show WLAN AP F/W version |
| | Filter | < incoming outgoing > | < generic > [set#1][set#2][set#3][set#4] | To set generic filter for wireless channel |