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Firmware Release Note

P-334WHD

Release 3.60(AMA.0)C0

Date: Sept. 4, 2006
Author: Watties Lin

ZyXEL P-334WHD Standard Version release 3.60(AMA.0)C0 Release Note

Date: Sept. 4, 2006

Supported Platforms:

ZyXEL P-334WHD

Versions:

ZyNOS Version: V3.60(AMA.0) | 09/04/2006 09:59:00

Bootbase Version: V1.06 | 07/06/2006 10:55:00

Notes:

1. MSN Video ALG only support with MSN 7.0 above and the default port (1863) should not be changed.
2. Bit Torrent ALG support following tools: BitComet 0.58, BitSpirit v3.1.0, BitLord 1.1, G3 Torrent v0.9999, Aeureus 2.3.0.4, BitTornado T-0.3.12

Known Issues:

1. Allow NetBIOS traffic between WAN & LAN works on limited situations.
2. Even though trigger port rule is removed, these rule still work until time out.
3. WPA-PSK with short RTS/fragment will lead to disassociation
4. STA can't associate with device anymore after failed authentication with WPA\WPA2(TTLS-CHAP)
5. STA with odyssey client using wrong password and CA can still pass the WPA2 authentication once STA passed the WPA2 authentication before.
6. Complex reconfiguration by SPT-GEN may fail in some cases.
7. VoIP(SIP) failed on enable Bandwidth MGMT.
8. Bandwidth can't access subnet mask as 255.255.255.255
9. Exception may occur if user modify gamelist file and update it to device.
10. Upstream in Bandwidth Management won't take effect immediately until system restart.
11. NTP time update doesn't support domain-name type server address in AP mode if device IP address is static assigned.
12. Device that operating in AP mode may not be accessed via LAN if it was put in a WLAN-complex environment about 30 minutes. For this you can reboot the device to work around.

CI Command List:

Features:

Modification in 3.60(AMA.0)C0 | 09/04/2006

Transfer to FCS version firmware.

Modification in 3.60(AMA.0)b4 | 08/25/2006

1. [BUG FIXED]
Symptom: Modem DNS function can't work.
Condition:
 1. Network/ WAN/ Modem Dialup/ DNS Servers/ First, Second and Third= From ISP (192.168.11.4, 168.95.1.1, 0.0.0.0)
 2. Network/ WAN/ Broadband Connection/ DNS Servers/ First, Second and Third= None
 3. Network/ DHCP server/ Advanced/ DNS Server/ First, Second and Third= None
 4. CLI: ip ping www.hinet.net --> Resolving www.hinet.net... unknown
 5. Due to Modem's DNS will bind to Broadband's DNSSPRID: 060803175
2. [BUG FIXED]
Symptom: SmartBit throughput can't work with LAN to WAN.
Condition:
 1. Firmware version V360AMA0b3
 2. Encapsulation Ethernet
 3. SmartBit setup UDP protocol
 4. Run SmartBit to test throughput
 5. SmartBit monitors display error, and stop
 6. Firmware version V360AMA0b2 is passedSPRID: 060803178
3. [BUG FIXED]
Symptom: Advanced wireless GUI issue:
Condition:
 1. Load to default setting
 2. Go to advanced wireless setup page, disable wireless and save.
 3. Select and enable "Active Wireless LAN" (Do not apply and save setting)
 4. Select the wireless=static WEP (WPA/WPA-PSK/WPA2/WPA2-PSK)
 5. The checkbox "Active Wireless LAN" is disabled.SPRID: 060803232
4. [BUG FIXED]
Symptom: Device exception when test eMule or BT over weekend.
Condition:
 1. Routing mode
 2. WAN encapsulation: Ethernet static IP address
 3. NAT port forwarding 4662~4672 to LAN host

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4. Device A runs eMule over weekend, device A continuous crash
 5. Device B runs BT over weekend, device B continuous crash
- SPRID: 060807386

Modification in 3.60(AMA.0)b3 | 07/31/2006

1. [FEATURE ENHANCED]
Multi-language supported included English, German, French, Spanish, Chinese and Italian.
2. [BUG FIXED]
Symptom: Device selects wrong parameter on PPTP mode
Condition:
 1. Select WAN encapsulation type: PPTP mode
 2. PPTP configuration default setting is Get automatically from ISP, but device is select "Use Fixed IP address".SPRID: 060724581
3. [BUG FIXED]
Symptom: WAN set static PPPoE, LAN host will get device's LAN IP as DNS.
Condition:
 1. WAN set PPPoE mode, DNS from ISP. Device's LAN IP is 192.168.1.1.
 2. In DHCP Server:
First DNS Server set "From ISP" as 192.168.11.4
Second DNS Server set "User Defined" as 2.2.2.2
Third DNS Server set "DNS Relay" as 192.168.1.1
 3. LAN host release/ renew IP and DNS.
 4. LAN host will get only one DNS as 192.168.1.1
 5. In CLI mode, type "ip dhcp enif0 st"
The DNS on DHCP server will show 0.0.0.0 2.2.2.2 0.0.0.0SPR: 060725600
4. [BUG FIXED]
Symptom & Condition:
Function of "Security > Firewall > Services > Disable Services Blocking"
will cause Firewall disabled.
SPRID: 060727787

Modification in 3.60(AMA.0)b2 | 07/21/2006

1. [BUG FIXED]
Symptom: Device crash when disable WLAN via CLI at WiFi WAN mode
Condition:
 1. Change to WiFi WAN mode
 2. Device gets the same subnet IP as 192.168.1.34
 3. CLI to disable WLAN
 4. Device crashSPRID: 060710496
2. [BUG FIXED]
Symptom: Wizard DNS server can't save at dial-up static IP address.

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Condition:

1. Router mode
2. Run wizard page
3. Dial-up page, use static IP address and then configure DNS server as User-defined 168.95.1.1, 192.168.11.4 and 139.175.55.244, apply
4. Web/ status/ the Subnet Mask display 0.0.0.0 and the DNS display "From ISP"
SPRID: 060710505
3. [BUG FIXED]
Symptom: "Clone the computer's MAC address" display error on SMT.
Condition:
 1. WiFi WAN mode
 2. WAN MAC Address= Clone the computer's MAC address
 3. Reboot device.
 4. GUI/ status display the correct computer's MAC address 00:08:02:E0:3D:A4
 5. SMT display:
 - initialize ch =0, ethernet address: 00:13:49:F5:18:A1
 - initialize ch =1, ethernet address: 00:00:00:00:00:00
 - initialize ch =2, ethernet address: 00:13:49:F5:18:A1SPRID: 060710498
4. [BUG FIXED]
Symptom: "Spoof MAC address= Set WAN MAC Address" display error on GUI/ Network/ WiFi WAN/ Broadband Connection.
Condition:
 1. WiFi WAN mode
 2. WAN MAC Address= Set WAN MAC Address 00:08:02:E0:3D:A4
 3. GUI/ status display the correct computer's MAC address 00:08:02:E0:3D:A4
 4. GUI/ Network/ WiFi WAN/ Broadband Connection display: 00:00:00:00:00:00SPRID: 060710502
5. [BUG FIXED]
Symptom: Wizard page can't save non-dynamic Ethernet configuration.
Condition:
 1. Wizard setup PPTP 、PPPoE and Ethernet can't writing system.
 2. When we check network WAN information is error.SPRID: 060712627
6. [BUG FIXED]
Symptom: WAN use PPTP, enable web proxy in content filter. When browse website device exception.
Condition:
 1. WAN use PPTP, enable web proxy in content filter.
 2. Client PC using proxy.hinet.net:80 in IE, browse a website device exception.SPRID: 060712629
7. [BUG FIXED]
Symptom: Device crash with "CLI: aux is aux0"
Condition:
 1. GUI/ fill in the correct username, password & Phone Number
 2. dial-up successful

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3. CLI: aux is aux0
4. Device crash & exception
SPRID: 060713704
8. [BUG FIXED]
Symptom: Modem connection will be dropped after plug and unplug WAN line several times.
Condition:
 1. Modem dial-up successful or WAN interface status up first
 2. Make sure WAN interface & modem interface connection have been built
 3. Unplug WAN line, traffic go through aux0
 4. Plug WAN line, traffic go through enet1
 5. The aux0 connection droppedSPRID: 060713711
9. [BUG FIXED]
Symptom: PPTP modem connection (PPTP modem assign) with PPTP dynamic connection (ISP assign) can't built successfully.
Condition:
 1. Network > WAN > Broadband Connection/ Encapsulation PPTP
 2. PPTP connection built failed
 3. at the same environment & configuration: P-334WH, P-334WHD --> failed; P-335U --> passedSPRID: 060714814
10. [BUG FIXED]
Symptom: Device crash when use PPTP modem to build the connection.
Condition:
 1. Network > WAN > Broadband Connection/ Encapsulation PPTP
 2. PPTP connection built failed
 3. Device continue crash 10 minutes a cycle
 4. Refer to exception logSPRID: 060714815
11. [BUG FIXED]
Symptom: In Router mode, Wireless Fragmentation Threshold issue with WPA-PSK, WPA, WPA2, WPA2-PSK mode.
Condition:

When Frag=500, Config device Wireless security with those mode, the wireless client can't transfer file, can ping only

 - step1. one FTP server at Lan1, (192.168.1.199)
 - step2. one wireless client(Intel 2915 or Other)
 - step3. Config device wireless mode= WPA-PSK, WPA, WPA2, or WPA2-PSK mode and fragmentation=500,
 - step4. from wireless Client, ping to FTP server, and run the ftp to get 10Mb file,SPRID: 060713713
12. [BUG FIXED]
Symptom: Device crash after dial-up retry count failed
Condition:
 1. Modem setup retry count= 5

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2. after dial-up 5 times
3. Wait for 5 minutes, device crash
4. Refer to attached file

SPRID: 060717930

13. [BUG FIXED]

Symptom: WAN set PPTP, enable Bandwidth, run ftp get file from WAN. Device wills exception.

Condition:

Test Environment is as below:

PC 1-----LAN --- DEVICE --- WAN (PPTP) ---- PQA LAB -----PC 2

(192.168.18.93)

Setup:

PC 1: 192.168.1.33/24 DEVICE LAN: 192.168.1.1

PC 2: 192.168.18.93/24 DEVICE WAN: 192.168.18.1

Enable all application and user-defined service in BM.

Step:

1. PC 1 ping 192.168.18.93 -t
2. PC 1 use cuteftp to get 85mb file from PC2
3. After download about 15%, WAN IP will be drop. Download speed is about 3.4mbps.
4. Then device will get another new WAN IP. And the cuteftp will continue get file.
5. When WAN drop 4 times, device will exception. File download is about 66%.

SPRID: 060714909

14. [BUG FIXED]

Symptom: Debug message displayed when add wrong MAC filter rule in wireless.

Condition:

1. Debug message displayed when add wrong MAC filter rule in wireless.
2. message of "why"

SPRID: 060717003

15. [BUG FIXED]

Symptom: In AP mode, device can't get DNS IP from DHCP server.

Condition:

1. Change device to AP mode.
2. LAN use DHCP to get IP.
3. In CLI, type "ip dns st disp".
4. DNS always 0.0.0.0

SPRID: 060719174

Modification in 3.60(AMA.0)b1 | 07/06/2006

First Firmware Release.

Appendix A CI Command List

Last Updated: 2006/07/06.

| Command Class List Table | | |
|---|--|--|
| System Related Command | Exit Command | Device Related Command |
| Ethernet Related Command | POE Related Command | PPTP Related Command |
| Configuration Related Command | IP Related Command | Modem Dialup Command |
| Firewall Related Command | Wireless LAN Related Command | Bridge Related Command |
| Radius Related Command | 802.1x Related Command | |

System Related Command

[Home](#)

| Command | | | Description |
|---------|-------------|----------|---|
| sys | | | |
| | atsh | | Display system MRD and checksum |
| | callhist | | |
| | | display | display call history |
| | | remove | <index> remove entry from call history |
| | countrycode | | [countrycode] set country code |
| | datetime | | |
| | | date | Display system date year/month/day |
| | | time | Display system time hour/minute/second |
| | | period | The period to synchronize with time server |
| | domainname | | display domain name |
| | edit | | <filename> edit a text file |
| | extraphnum | | maintain extra phone numbers for outcalls |
| | | add | <set 1-3> <1 st phone num> [2 nd 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 |
| | hostname | | [hostname] display system hostname |
| | logs | | |
| | | category | |
| | | | access [0:none/1:log/2:alert/3:both] 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/2:alert/3:both] record the access control logs |
| | | | ike [0:none/1:log/2:alert/3:both] 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 | [access attack error ipsec ike javablocked mten urlblocked urlforward] display all logs or specify category logs |
| | | errlog | |
| | | clear | display log error |
| | | disp | clear log error |

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| | | | |
|----------|-----------|--|---|
| | | 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 |
| rn | | | |
| | load | <entry no.> | load remote node information |
| | disp | <entry no.>(0:working buffer) | display remote node information |
| | nat | <none sua full_feature> | config remote node nat |
| | nailup | <no yes> | config remote node nailup |
| | mtu | <value> | set remote node mtu |
| | save | [entry no.] | save remote node information |
| | stdio | [minute] | change terminal timeout value |
| | trcdisp | | monitor packets |
| | trclog | | |
| | trcpacket | | |
| | 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 |
| | | | |
| | pwderrtm | [minute] | Set or display the password error blocking timeout value. |
| | upnp | | |
| | active | [0:no/1:yes] | Activate or deactivate the saved upnp settings |
| | config | [0:deny/1:permit] | Allow users to make configuration changes. through UPnP |
| | display | | display upnp information |
| | firewall | [0:deny/1:pass] | Allow UPnP to pass through Firewall. |
| | load | | save upnp information |
| | save | | save upnp information |
| | opmode | [0:Router/1:AP/2:WiFi-WAN Router] | Set and display system operation mode |
| | socket | | display system socket information |
| | filter | | |

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| | | | | |
|--|------------|---------|--|---|
| | | netbios | | |
| | | | disp | Display NetBIOS Filter Status |
| | | | Config <0:Between LAN and WAN, 3:IPSec pass through, 4:Trigger Dial> <on/off> | Set NetBIOS Filter Status |
| | roadrunner | | | |
| | | debug | <level> | enable/disable roadrunner service 0: diable <default> 1: enable |
| | | display | <iface name> | display roadrunner information iface-name: enif0, wanif0 |
| | | restart | <iface name> | restart roadrunner |
| | 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 |

Device Related Command

[Home](#)

| Command | | | | Description |
|---------|------|--|---------|---------------------|
| dev | | | | |
| | dial | | <node#> | dial to remote node |

Ethernet Related Command

[Home](#)

| Command | | | | Description |
|---------|-----------|-------------|----------------------|---------------------------------------|
| ether | | | | |
| | config | | | display LAN configuration information |
| | driver | | | |
| | | cnt | | |
| | | | disp <name> | display ether driver counters |
| | | | ioctl <ch_name> | Useless in this stage. |
| | | | status <ch_name> | see LAN status |
| | version | | | see ethernet device type |
| | spooftmac | | | |
| | | Macdir | <xx:xx:xx:xx:xx:xx> | Assign MAC for system |
| | | Macbylan | ip<xxx.xxx.xxx.xxx> | Assign LAN PC MAC for system |
| | | display | | Display MAC spoof information |
| | edit | | | |
| | | load | <ether no.> | load ether data from spt |
| | | mtu | <value> | set ether data mtu |
| | | accessblock | <0:disable 1:enable> | block internet access |
| | | save | | save ether data to spt |

POE Related Command

[Home](#)

| Command | | | | Description |
|---------|--------|--|-----------|--------------------|
| poe | | | | |
| | status | | [ch_name] | see poe status |
| | dial | | <node> | dial a remote node |

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| | | | | |
|--|-------|--|-----------|-------------------------------|
| | drop | | <node> | drop a pppoe call |
| | ether | | [rfc3com] | set /display pppoe ether type |

PPTP Related Command

[Home](#)

| Command | | | | Description |
|---------|--------|--|-------------|---------------------------------|
| pptp | | | | |
| | dial | | <rn-name> | dial a remote node |
| | drop | | <rn-name> | drop a remote node call |
| | tunnel | | <tunnel id> | display pptp tunnel information |

Configuration Related Command

[Home](#)

| Command | | | | Description |
|----------|----------|--------------------|--|---|
| config | | | | The parameters of config are listed below. |
| edit | firewall | active <yes no> | | Activate or deactivate the saved firewall settings |
| retrieve | firewall | | | Retrieve current saved firewall settings |
| save | firewall | | | Save the current firewall settings |
| display | firewall | | | Displays all the firewall settings |
| | | set <set#> | | Display current entries of a set configuration; including timeout values, name, default-permit, and number of rules in the set. |
| | | set <set#> | rule <rule#> | Display current entries of a rule in a set. |
| | | attack | | Display all the attack alert settings in PNC |
| | | e-mail | | Display all the e-mail settings in PNC |
| | | ? | | Display all the available sub commands |
| | | e-mail | mail-server <mail server IP> | Edit the mail server IP to send the alert |
| | | | return-addr <e-mail address> | Edit the mail address for returning an email alert |
| | | | e-mail-to <e-mail address> | Edit the mail address to send the alert |
| | | | policy <full hourly daily weekly> | Edit email schedule when log is full or per hour, day, week. |
| | | | day <sunday monday tuesday wednesday thursday friday saturday> | Edit the day to send the log when the email policy is set to Weekly |
| | | | hour <0~23> | Edit the hour to send the log when the email policy is set to daily or weekly |
| | | | minute <0~59> | Edit the minute to send to log when the email policy is set to daily or weekly |
| | | | Subject <mail subject> | Edit the email subject |
| | | attack | send-alert <yes no> | Activate or deactivate the firewall DoS attacks notification emails |
| | | | block <yes no> | Yes: Block the traffic when exceeds the tcp-max-incomplete threshold |
| | | | | No: Delete the oldest half-open session when exceeds the tcp-max-incomplete threshold |
| | | | block-minute <0~255> | Only valid when sets 'Block' to yes. The unit is minute |

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| | | | | | |
|--|--|------------|-----------------------------------|---|--|
| | | | minute-high <0~255> | | The threshold to start to delete the old half-opened sessions to minute-low |
| | | | minute-low <0~255> | | The threshold to stop deleting the old half-opened session |
| | | | max-incomplete-high <0~255> | | The threshold to start to delete the old half-opened sessions to max-incomplete-low |
| | | | max-incomplete-low <0~255> | | The threshold to stop deleting the half-opened session |
| | | | tcp-max-incomplete <0~255> | | The threshold to start executing the block field |
| | | set <set#> | name <desired name> | | Edit the name for a set |
| | | | default-permit <forward block> | | Edit whether a packet is dropped or allowed when it does not match the default set |
| | | | icmp-timeout <seconds> | | Edit the timeout for an idle ICMP session before it is terminated |
| | | | udp-idle-timeout <seconds> | | Edit the timeout for an idle UDP session before it is terminated |
| | | | connection-timeout <seconds> | | Edit the wait time for the SYN TCP sessions before it is terminated |
| | | | fin-wait-timeout <seconds> | | Edit the wait time for FIN in concluding a TCP session before it is terminated |
| | | | tcp-idle-timeout <seconds> | | Edit the timeout for an idle TCP session before it is terminated |
| | | | pnc <yes no> | | PNC is allowed when 'yes' is set even there is a rule to block PNC |
| | | | log <yes no> | | Switch on/off sending the log for matching the default permit |
| | | | rule <rule#> | permit <forward block> | Edit whether a packet is dropped or allowed when it matches this rule |
| | | | | active <yes no> | Edit whether a rule is enabled or not |
| | | | | protocol <0~255> | Edit the protocol number for a rule. 1=ICMP, 6=TCP, 17=UDP... |
| | | | | Log <none match not-match both> | Sending a log for a rule when the packet none matches not match both the rule |
| | | | | alert <yes no> | Activate or deactivate the notification when a DoS attack occurs or there is a violation of any alert settings. In case of such instances, the function will send an email to the SMTP destination address and log an alert. |
| | | | | srcaddr-single <ip address> | Select and edit a source address of a packet which complies to this rule |
| | | | | srcaddr-subnet <ip address> <subnet mask> | Select and edit a source address and subnet mask if a packet which complies to this rule. |
| | | | | srcaddr-range <start ip address> <end ip address> | Select and edit a source address range of a packet which complies to this rule. |
| | | | | destaddr-single <ip address> | Select and edit a destination address of a packet which complies to this rule |
| | | | | destaddr-subnet <ip address> <subnet mask> | Select and edit a destination address and subnet mask if a packet which complies to this rule. |
| | | | | destaddr-range <start ip address> <end ip address> | Select and edit a destination address range of a packet which complies to this rule. |
| | | | | tcp destport-single <port#> | Select and edit the destination port of a packet which comply to this rule. For non-consecutive |

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| | | | | | |
|--------|----------|------------|--------------|--|--|
| | | | | | port numbers, the user may repeat this command line to enter the multiple port numbers. |
| | | | | tcp destport-range <start port#> <end port#> | Select and edit a destination port range of a packet which comply to this rule. |
| | | | | udp destport-single <port#> | Select and edit the destination port of a packet which comply to this rule. For non-consecutive port numbers, users may repeat this command line to enter the multiple port numbers. |
| | | | | udp destport-range <start port#> <end port#> | Select and edit a destination port range of a packet which comply to this rule. |
| | | | | desport-custom <desired custom port name> | Type in the desired custom port name |
| delete | firewall | e-mail | | | Remove all email alert settings |
| | | attack | | | Reset all alert settings to defaults |
| | | set <set#> | | | Remove a specified set from the firewall configuration |
| | | set <set#> | rule <rule#> | | Remove a specified rule in a set from the firewall configuration |
| insert | firewall | e-mail | | | Insert email alert settings |
| | | attack | | | Insert attack alert settings |
| | | set <set#> | | | Insert a specified rule set to the firewall configuration |
| | | set <set#> | rule <rule#> | | Insert a specified rule in a set to the firewall configuration |
| cli | | | | | Display the choices of command list. |
| debug | <1 0> | | | | Turn on/off trace for firewall debug information. |

Wireless LAN Related Command

[Home](#)

| Wireless LAN Related Command | | | | Description |
|------------------------------|--------------|--|--|------------------------------------|
| wlan | Command | | | Description |
| | active | | [on/off] | set on/off wlan |
| | association | | | display association list |
| | autoChid | | <1: on, 0: off> | Enable/disable auto channel select |
| | chid | | [channel id] | set channel |
| | chgmode | | <1: B only, 2: G Only, 3: B+G> | Set 802.11b/g/mixed mode |
| | chgoperation | | <0:AP, 1:STA> | Set wlan mode |
| | connection | | | Any ssid |
| | cloneMAC | | <0:none 1:static 2:dynamic> <MAC addr/IP addr> | Set WiFi-WAN Router mode MAC clone |
| | disconnect | | | |
| | essid | | [ess id] | set ESSID |
| | Hideessid | | <on, off> | Set hide/show ESSID |
| | limituser | | <number> | Limit user number in AP mode |
| | Outputpower | | <0: 17 dBm, 1: 14 dBm, 2: 11 dBm> | Set wlan output power |
| | Preamble | | <0: Dynamic, 1: Long> | Set wlan preamble |
| | removeSTA | | <MAC ADDRESS> | Remove wireless Client |
| | Reset | | | Reset wireless |
| | Scan | | | Auto channel select |
| | version | | | display WLAN version information |

Bridge Related Command

[Home](#)

| Bridge Related Command | | | | Description |
|------------------------|---------|--|--|---|
| Bridge | Command | | | Description |
| | cnt | | | related to bridge routing statistic table |

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| | | | | |
|--|------|-------|--|--|
| | | 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 |

Radius Related Command

[Home](#)

| Command | | | | Description |
|---------|------|--|--|---|
| Radius | | | | |
| | auth | | | show current radius authentication server configuration |
| | acct | | | show current radius accounting server configuration |

802.1x 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 |

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 |
| | dhcp | | <iface> | |
| | | client | | |
| | | | Release | release DHCP client IP |
| | | | Renew | renew DHCP client IP |
| | | status | [option] | show dhcp status |
| | dns | | | |
| | | query | | |
| | | server | <primary> [secondary] [third] | set dns server |
| | | stats | | |
| | | | Clear | clear dns statistics |
| | | | Disp | display dns statistics |
| | httpd | | | |
| | icmp | | | |
| | | status | | display icmp statistic counter |
| | | discovery | <iface> [on off] | set icmp router discovery flag |
| | ifconfig | | [iface] [ipaddr] [broadcast <addr> mtu <value> dynamic] | configure network interface |
| | ping | | <hostid> | ping remote host |
| | route | | | |
| | | status | [if] | display routing table |
| | | add | <dest_addr default>[/<bits>] <gateway> [<metric>] | add route |
| | | addiface | <dest_addr default>[/<bits>] | add an entry to the routing table to iface |

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| | | | |
|--|------------|--|---|
| | | <gateway> [<metric>] | |
| | addprivate | <dest_addr default>[/<bits>] <gateway> [<metric>] | add private route |
| | drop | <host addr> [/<bits>] | drop a route |
| | status | | display ip statistic counters |
| | udp | status | Display udp status |
| | tcp | status | Disp tcp status |
| | | telnet | telnet to <host> |
| | traceroute | <host> [ttl] [wait] [queries] | send probes to trace route of a remote host |
| | xparent | | |
| | join | <iface1> [<iface2>] | join iface2 to iface1 group |
| | break | <iface> | break iface to leave ipxparent group |
| | urlfilter | | |
| | reginfo | | |
| | | Display | display urlfilter registration information |
| | | Name | set urlfilter registration name |
| | | eMail <size> | set urlfilter registration email addr |
| | | country <size> | set urlfilter registration country |
| | | clearAll | clear urlfilter register information |
| | category | | |
| | | Display | display urlfilter category |
| | | webFeature [block/nonblock] [activex/java/cookei/webproxy] | block or unblock webfeature |
| | | logAndBlock [log/logAndBlock] | set log only or log and block |
| | | blockCategory [block/nonblock] [all/type(1-14)] | block or unblock type |
| | | timeOfDay [always/hh:mm] [hh:mm] | set block time |
| | | clearAll | clear all category information |
| | listUpdate | | |
| | | Display | display listupdate status |
| | | actionFlags [yes/no] | set listupdate or not |
| | | scheduleFlag [pending] | set schedule flag |
| | | dayFlag [pending] | set day flag |
| | | time [pending] | set time |
| | | clearAll | clear all listupdate information |
| | exemptZone | | |
| | | Display | display exemptzone information |
| | | actionFlags [type(1-3)][enable/disable] | set action flags |
| | | add [ip1] [ip2] | add exempt range |
| | | delete [ip1] [ip2] | delete exempt range |
| | | clearAll | clear exemptzone information |
| | customize | | |
| | | Display | display customize action flags |
| | | actionFlags[filterList/disableAllExce ptTrusted/unblockRWFToTrusted/k eywordBlock/fullPath/caseInsensiti ve/fileName][enable/disable] | set action flags |
| | | logFlags [type(1-3)][enable/disable] | set log flags |
| | | add [string] [trust/untrust/keyword] | add url string |
| | | delete [string] [trust/untrust/keyword] | delete url string |
| | | clearAll | clear all information |
| | logDisplay | | display cyber log |
| | ftplist | | update cyber list data |

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| | | | | |
|--|----------|----------------|---|---|
| | | listServerIP | <ipaddr> | set list server ip |
| | | listServerName | <name> | set list server name |
| | stroute | | | |
| | | display | [rule # buf] | display rule index or detail message in rule. |
| | | load | <rule #> | load static route rule in buffer |
| | | save | | save rule from buffer to spt. |
| | | config | | |
| | | | name <site name> | set name for static route. |
| | | | destination <dest addr>[/<bits>] <gateway> [<metric>] | set static route destination address and gateway. |
| | | | mask <IP subnet mask> | set static route subnet mask. |
| | | | gateway <IP address> | set static route gateway address. |
| | | | metric <metric #> | set static route metric number. |
| | | | private <yes/no> | set private mode. |
| | | | active <yes/no> | set static route rule enable or disable. |
| | Ident | | <on/off> | Reject IDENT packet switch on/off |
| | dropIcmp | | <0/1> | Device allows/drops ICMP fragment packets |
| | lite | | [0:disable 1:enable lite firewall 2:enable lite and quickpath] | Lite firewall setting |
| | 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 |

Firewall Related Command

[Home](#)

| Command | | Description | |
|---------|----------|-------------|---|
| sys | Firewall | | |
| | | acl | |
| | | | Disp |
| | | | Display specific ACL set # rule #, or all ACLs. |
| | | active | <yes/no> |
| | | | Active firewall or deactivate firewall |
| | | clear | |
| | | | Clear firewall log |
| | | cnt | |
| | | | Disp |
| | | | Display firewall log type and count. |
| | | | Clear |
| | | | Clear firewall log count. |
| | | disp | |
| | | | Display firewall log |
| | | online | |
| | | | Set firewall log online. |
| | | pktdump | |
| | | | Dump the 64 bytes of dropped packet by firewall |
| | | update | |
| | | | Update firewall |
| | | dynamicrule | |
| | | teprst | |

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| | | | |
|--|--------|----------|---|
| | | Rst | Set TCP reset sending on/off. |
| | | rst113 | Set TCP reset sending for port 113 on/off. |
| | | Display | Display TCP reset sending setting. |
| | icmp | | |
| | dos | | |
| | | Smtpt | Set SMTP DoS defender on/off |
| | | Display | Display SMTP DoS defender setting. |
| | | Ignore | Set if firewall ignore DoS in lan/wan/dmz/wlan |
| | ignore | | |
| | | Dos | Set if firewall ignore DoS in lan/wan/dmz/wlan |
| | | Triangle | Set if firewall ignore triangle route in lan/wan/dmz/wlan |

Modem Dialup Related Command

[Home](#)

| Command | | | Description |
|---------|----------|---------------|---------------------------------|
| aux | | | |
| | atring | <device name> | Display modem buffer |
| | cnt | | |
| | Disp | <device name> | Display counter information |
| | clear | <device name> | Clear counter information |
| | drop | <device name> | Drop connect |
| | init | <device name> | Init modem |
| | node | | |
| | Index | | Set remote node index |
| | Display | | Display remote node information |
| | Save | | Save remote node information |
| | Active | | Active remote node |
| | Rnname | | Set remote node name |
| | Username | | Set user name |
| | Password | | Set password |
| | phone | | Set phone number |
| | rate | <device name> | Display modem tx/rx rate |