



Firmware Release Note

P-334U

Release 3.60(JX.0)C0

Date:	June 20, 2006
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ZyXEL P-334U Standard Version release 3.60(JX.0)C0 Release Note

Date: June 20, 2006

Supported Platforms:

ZyXEL P-334U

Versions:

ZyNOS Version: V3.60(JX.0) | 05/18/2006 11:42:20

Bootbase Version: V1.05 | 04/20/2004 10:36:26

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. MAP doesn't support for this model.
4. WPA-PSK with short RTS/fragment will lead to disassociation
5. STA can't associate with DUT anymore after failed authentication with WPA\WPA2(TTLS-CHAP)
6. 802.11a:RTS/CTS can't work when RTS/CTS value is smaller than the fragmentation threshold value
7. STA with odyssey client using wrong password and CA can still pass the WPA2 authentication once STA passed the WPA2 authentication before.
8. Complex reconfiguration by SPT-GEN may fail in some cases.
9. VoIP(SIP) failed on enable Bandwidth MGMT.
10. "SMTP authentication" works failed with some mail servers.

CI Command List:

Features:

Modification in 3.60(JX.0)C0 | 06/20/2006

1. Change 3.60(JX.0)b5 to 3.60(JX.0)C0 FCS version.
2. [BUG FIXED]
SPR: 060515883
Symptom:
Default setting with "allow non 802.11h stations"
Condition:
the default setting with "allow non 802.11h stations" must be enable

Modification in 3.60(JX.0)b5 | 05/10/2006

1. [BUG FIXED]
SPR: 060414068
Symptom:
Wi-Fi WPA2 pretest fail item :MCA2
Condition:
when DUT config with B only, the conexant wireless card can't connect
2. [BUG FIXED]
SPR: 060320459
Symptom:
Exception occurred.
Condition:
when test eMule or BT overnight
3. [BUG FIXED]
SPR:
Symptom:
Packets can't be transmitted between WLAN and WAN when MBM is enabled
Condition:
Only enable MBM and not enable ATC, traffic between WLAN and WAN is fail.
4. [BUG FIXED]
SPR:
Symptom:
word spelling error on German version GUI
Condition:
Choose language as German on GUI, Some words' selling are wrong.

Modification in 3.60(JX.0)b4 | 05/03/2006

1. [BUG FIXED]
SPR: 060320459
Symptom:
Exception occurred.
Condition:
when test eMule or BT overnight
2. [BUG FIXED]
SPR: 060321662
Symptom:
Test case 1.1.5.1.5_Function of "Port forwarding and NAT loopback, from an PC connects to server through WAN IP." works failed.
Condition:
 1. Encapsulation Ethernet, PPPoE or PPTP
 2. Remote MGMT/ FTP/ Server Port: 2121, Server Access: LAN & WAN, Secured Client IP Address: All
 3. GUI/ Network/ NAT/ Application/ Add one application rule as port 1-100, and server ip address 192.168.1.33/ Apply
 - 4 CLI: ip nat loopback on
 5. LAN host 192.168.1.33 can't access the FTP server on LAN host
3. [BUG FIXED]
SPR: 060329536
Symptom:
VoIP(SIP) failed on enable Bandwidth MGMT.
Condition:
 1. Enable Bandwidth MGMT and VoIP(SIP)
 2. LAN side phone can't hear the voices
4. [BUG FIXED]
SPR: 060419541
Symptom:
no voice data transmit when dual WiFi phones at LAN site
Condition:
 1. Dual WiFi phones link to P334U (ethernet) LAN port and both register SIP server
 2. Call each other , pick up phone and communicate , there are no voice data transmit
5. [BUG FIXED]
SPR: 060420603
Symptom:
The value of BM/ Advanced/ User-defined Service will empty after enable and disable the rule.
Condition:
 1. BM/ Advanced/ User-defined Service
 2. active rule1 as "test1", BW Budge: Min. 111, Destination Address: 1.1.1.1, Mask:

- 255.0.0.0, Destination Port:1111/ OK/ Apply
3. active rule3 as "test2", BW Budge: Min. 222, Destination Address: 2.2.2.2, Mask: 255.0.0.0, Destination Port:2222/ OK/ Apply
4. active rule6 as "test3", BW Budge: Min. 333, Destination Address: 3.3.3.3, Mask: 255.0.0.0, Destination Port:3333/ OK/ Apply
5. disable the rule of "test2" & "test3"
6. active the rule "test2" & "test3" again
7. the value of the rule "test2" & "test3" will empty

Modification in 3.60(JX.0)b3 | 04/12/2006

1. [FEATURE ENHANCEMENT]
WLAN support 802.11h
2. [FEATURE ENHANCEMENT]
eWC support Multi-language
3. [BUG FIXED]
SPR: 060317291
Symptom:
In Basic Mode, WAN use Fixed IP Address, DUT and LAN host can't access Internet.
Condition:
In eWC Basic mode, no way set DNS settings so LAN hosts were unable to resolve Internet sites' domain names.
4. [BUG FIXED]
SPR: 060317293
Symptom:
Test case 1.1.1.6.2_Function of "Backup spt-gen configuration file and Restore spt-gen configuration file" works failed.
Condition:
 1. get sptftp.rot from rom-t with Dos FTP
 2. Open sptftp.rpt (SPT-Gen text file) to change some items to SPTFTP then save it
 3. Put sptftp.rot with Dos DTP
5. [BUG FIXED]
SPR: 060317298
Symptom:
NAT/ Application List can't modify the rule's name.
Condition:
 1. NAT/ Application List/ Add one rule/ Service Name= test, user defined, Port= 10-20, Server IP Address= 192.168.1.33/ Apply
 2. Modify "test" rule/ change Service Name to "zyxel"/ Apply
 3. DUT display error message "Port duplicate between rule zyxel and test")

6. [BUG FIXED]
SPR: 060320372
Symptom:
About page about copyright
Condition:
About page: the copyright is "2006"(not 2005)
7. [BUG FIXED]
SPR: 060320377
Symptom:
SSID is too long to show correct SSID in status page
Condition:
SSID: If we config the SSID as 32 characters "12345678901234567890123456789012", then field "Name(SSID):" of the GUI's system status page will show "1234567890123456789012345678901."
8. [BUG FIXED]
SPR: 060320379
Symptom:
G-220(no security) can associate to AP(static WEP)
Condition:
WEP: While we change the security from "static WEP" to "No security", then G-220(use WEP key) can still ping Router/AP. (But the other wireless client not ping Router/AP)
9. [BUG FIXED]
SPR: 060320454
Symptom:
TMSS/ Port Isolation/ If add another category will cause the web status "Parental Control Statistics" to start afresh.
Condition:
 1. Enable TMSS, Parental Control and Port Isolation
 2. choose per user mode for parent control
 3. build one user "test0320" and use profile "General"
 4. LAN host1 do "Scan Now" from TMSS Dashboard
 5. Connect to one test website and check the web status correct
 6. TMSS/ Port Isolation/ enable "file sharing"
 7. Connect to one test website and check the web status
 8. the status of profile "test0320" will start afresh.
10. [BUG FIXED]
SPR: 060320457
Symptom:
In encapsulation PPPoE and PPTP: function of "Parental Controls for TMSS v1.1/ ActiveX, Java, Cookie and Web Proxy" work failed.
Condition:

1. Enable TMSS and Parental Controls
 2. Access the ActiveX, Java, Cookie and Web Proxy testing web sites --> successful to access
 3. GUI/ TMSS/ Parental Control/ Enable ActiveX, Java, Cookie and Web Proxy
 4. Access the ActiveX, Java, Cookie and Web Proxy testing web sites --> successful to access
 5. in step4, the correct result should not be access the web site
-
11. [BUG FIXED]
SPR: 060321627
Symptom:
PassPhrase function will lead to change channel number
Condition:
PassPhrase: We setup the wireless channel=3 first. If we use the feature "PassPhrase" and click the button "Generate", then the wireless channel is changed to "1"
 12. [BUG FIXED]
SPR: 060321635
Symptom:
P-334U SmartBitsthroughput test result is unmatched with PS definition ">=60Mbps @ Smartbits 1518 frame Routing + NAT".
Condition:
P-334U SmartBits throughput test result is unmatched with PS definition ">=60Mbps @ Smartbits 1518 frame Routing + NAT".Please refer to the attached files.
 13. [BUG FIXED]
SPR: 060321636
Symptom:
Test case 1.1.2.5_Function of "Check if multicast set IGMP-v1/v2 works on LAN .Seting from eWC" works failed due to there's no Multicast field to config on GUI/ Network/ LAN.
Condition:
Test case 1.1.2.5_Function of "Check if multicast set IGMP-v1/v2 works on LAN .Seting from eWC" works failed due to there's no Multicast field to config on GUI/ Network/ LAN..
 14. [BUG FIXED]
SPR: 060321663
Symptom:
GUI/ Network/ NAT/ Application/ application rule will disappear after upload the game list file.
Condition:
1. GUI/ Network/ NAT/ Application/ Add one "User Defined" application rule as

Service Name 1-100, Port 1-100, and Server IP Address 192.168.1.33/ Apply

2. upload game list file

3. the application list will be empty

4. if add the list again, DUT display "Port duplicate between 1-100 and 1-100".

15. [BUG FIXED]

SPR: 060322758

Symptom:

DUT crash & exception when enable BM+ ATC and run another application rule.

Condition:

1. GUI/ Management/ Bandwidth MGMT/ Enable BM & ATC

2. Check ATC works normal

3. Enable Application List's FTP rule/ change the direction WAN as "Max. 400kbps"

4. Run FTP to upload file about 4~5 times

5. DUT crash and exception

16. [BUG FIXED]

SPR: 060322760

Symptom:

The value of BM/ Advanced/ User-defined Service will empty after enable and disable the rule.

Condition:

1. BM/ Advanced/ User-defined Service/ active one rule as "ftp-1", BW Budge: Min. 555, Destination Address: 1.1.1.1, Mask: 255.0.0.0, Destination Port:1111/ OK/ Apply

2. disable the rule of "ftp-1"

3. active the rule "ftp-1" again

4. modify the rule"ftp-1", the value of the rule will empty.

17. [BUG FIXED]

SPR: 060322797

Symptom:

802.11a\Channel 165 can't be selected when country code is set to 222.

Condition:

802.11a\Channel 165 can't be selected when country code is set to 222

18. [BUG FIXED]

SPR: 060322807

Symptom:

Problem for Inactive Application rule.

Condition:

FTP server----(Lan) DUT (Wan)----- FTP client

1. eWC/ Network/ NAT/ Application, Add one rule for FTP service and active the rule.

2. WAN site PC ftp to Lan site's server successfully.

3. eWC/ Network/ NAT/ Application, Inactive the FTP service.

4. WAN site PC still ftp to Lan site's server successfully, it should be FAIL.
19. [BUG FIXED]
SPR: 060324032
Symptom:
Test case 1.1.26.2.6.1_Function of "PPTP Pass through test" works failed.
Condition:
1. Setup DUT encapsulation to Ethernet
2. LAN host do PPTP pass-through --> successful
3. Setup DUT encapsulation to PPPoE
4. LAN host do PPTP pass-through --> failed
20. [BUG FIXED]
SPR: 060327235
Symptom:
Preamble default value should be "dynamic"
Condition:
Preamble default value should be "dynamic".
21. [BUG FIXED]
SPR: 060327240
Symptom:
DUT shouldn't display message when switch WLAN mode (BG to A or A to BG)
Condition:
DUT shouldn't display message when switch WLAN mode (BG to A or A to BG)
22. [BUG FIXED]
SPR: 060328413
Symptom:
Trigger port can't work if enable firewall.
Condition:
1. Edit web/WAN/Internet Connection/IP Parameters for Internet Access/Encapsulation = Ethernet/ Server Type=Standard/WAN IP Address Assignment/Use Fixed IP Address/IP Address =192.168.11.100/IP Subnet Mask=255.255.254.0/Gateway IP Address = 192.168.10.11.
2. Edit web/Network/NAT/Trigger Port/select rule1/Name=Test/Incoming : Start Port =1000/End Port =2000/Trigger :Start Port =1000/End Port =2000
3. Lan side PC 192.168.1.33 use packet generator tool (TfGen) to send UDP packets to WAN side PC port 1500.
4. WAN side PC use packet generator tool (TfGen) to send UDP packets to device port 1600.
5. LAN side PC 192.168.1.33 can't receive WAN side PC sent UDP packets.
6. If disable Firewall, LAN side PC 192.168.1.33 can receive WAN side PC sent UDP packets.
23. [BUG FIXED]

SPR: 060328414

Symptom:

Can't save Domain Name from wizard to configure.

Condition:

1. Into eWC/ Wizard, Save Domain Name = www.p335u.com.
2. Into eWC/ Maintenance/ System/ General, Domain Name not changed to www.p335u.com.

24. [BUG FIXED]

SPR: 060329492

Symptom:

ZyAIR G-100 can't associate with DUT when 802.11 mode is set to 802.11b only.

Condition:

ZyAIR G-100 can't associate with DUT when 802.11 mode is set to 802.11b only.

Note: ZyAIR G-220F is OK.

Modification in 3.60(JX.0)b2 | 03/15/2006

1. [FEATURE CHANGED]

Under 802.11b/g mode, only USA and Taiwan use 11 channels, Japan use 14 channels, and all other countries use 13 channels.

2. [BUG FIXED]

Symptom: G405 doesn't response to 4-way handshake message 1.

Condition:

(1) Set G405 with WPA-PSK and connect to AP.

(2) G405 doesn't response to 4-way handshake message 1.

3. [BUG FIXED]

Symptom: The MAC address will be unreadable in log.

Modification in 3.60(JX.0)b1 | 02/20/2006

First Firmware Release

Annex A CI Command List

Last Updated: 2002/11/26

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	IPSec Related Command
Firewall Related Command	Wireless LAN Related Command	Bridge Related Command
Radius Related Command	802.1x Related Command	Auto WLAN Security Delivery Command

System Related Command

[Home](#)

Command				Description
sys				
	adjtime			retrive date and time from Internet
	callhist			
	display			display call history
	remove	<index>		remove entry from call history
	countrycode	[countrycode]		set country code
	date	[year month date]		set/display date
	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
		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
	resolve		Resolve mail server and syslog server address
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]	
pwderrtm		[minute]	Set or display the password error blocking timeout value.
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
smt			not support in this product
stdio		[minute]	change terminal timeout value
time		[hour [min [sec]]]	display/set system time
trcdisp			monitor packets
trclog			
trcpacket			
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
	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
	fwnotify			
		load		load fwnotify entry from spt
		save		save fwnotify entry to spt
		url	<url>	set fwnotify url
		days	<days>	set fwnotify days
		active	<flag>	turn on/off fwnotify flag
		disp		display firmware notify information
		check		check firmware notify event
		debug	<flag>	turn on/off firmware notify debug flag
	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			
		netbios		
	roadrunner			
		debug	<level>	enable/disable roadrunner service 0: disable <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
	filter			
		netbios		
	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
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Exit Command

[Home](#)

Command				Description
exit				exit smt menu

Device Related Command

[Home](#)

Command				Description
dev				
	channel			
		drop	<channel_name>	drop channel
	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
	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
	debug			
		disp	<ch_name>	display ethernet debug information
		level	<ch_name> <level>	set the ethernet debug level level 0: disable debug log level 1:enable debug log (default)
	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
	drop		<node>	drop a pppoe call
	ether		[rfc 3com]	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
			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 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](#)

Command				Description
wlan				
	active		[on off]	set on/off wlan
	association			display association list
	chid		[channel id]	set channel
	diagnose			self-diagnostics
	essid		[ess id]	set ESS ID
	version			display WLAN version information

Bridge Related Command

[Home](#)

Command				Description
Bridge				
	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

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>] <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
	smtp			
	status			display ip statistic counters
	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.
	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
	ave			anti-virus enforce

	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/disableAllExceptTrusted/unblockRWFTToTrusted/keywordBlock/fullPath/caseInsensitive/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
		listServerIP	<ipaddr>	set list server ip
		listServerName	<name>	set list server name
	tredir			
		failcount	<count>	set tredir failcount
		partner	<ipaddr>	set tredir partner
		target	<ipaddr>	set tredir target
		timeout	<timeout>	set tredir timeout
		checktime	<period>	set tredir checktime
		active	<on/off>	set tredir active
		save		save tredir information
		disp		display tredir information

		debug	<value>	set tredir debug value
	nat			
		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
			edit clear	clear one rule in the set
		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
	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			

IPSec Related Command

[Home](#)

Command				Description
ipsec				
	debug	<1 0>		turn on/off trace for IPSec debug information
	ipsec_log_disp			show IPSec log, same as menu 27.3
	route	lan	<on off>	After a packet is IPSec processed and will be sent to LAN side, this switch is to control if this packet can be applied IPSec again.
				Remark: Command available since 3.50(WA.3)
		wan	<on off>	After a packet is IPSec processed and will be sent to WAN side, this switch is to control if this packet can be applied IPSec again.
				Remark: Command available since 3.50(WA.3)
	show_runtime	sa		display runtime phase 1 and phase 2 SA information

		spd		When a dynamic rule accepts a request and a tunnel is established, a runtime SPD is created according to peer local IP address. This command is to show these runtime SPD.
	switch	<on/off>		As long as there exists one active IPSec rule, all packets will run into IPSec process to check SPD. This switch is to control if a packet should do this. If it is turned on, even there exists active IPSec rules, packets will not run IPSec process.
	timer	chk_my_ip	<1~3600>	- Adjust timer to check if WAN IP in menu is changed
				- Interval is in seconds
				- Default is 10 seconds
				- 0 is not a valid value
		chk_conn.	<0~255>	- Adjust auto-timer to check if any IPsec connection has no traffic for certain period. If yes, system will disconnect it.
				- Interval is in minutes
				- Default is 2 minutes
				- 0 means never timeout
		update_peer	<0~255>	- Adjust auto-timer to update IPSec rules which use domain name as the secure gateway IP.
				- Interval is in minutes
				- Default is 30 minutes
				- 0 means never update
				Remark: Command available since 3.50(WA.3)
	updatePeerIp			Force system to update IPSec rules which use domain name as the secure gateway IP right away.
				Remark: Command available since 3.50(WA.3)
	dial	<rule #>		Initiate IPSec rule <#> from ZyWALL box
				Remark: Command available since 3.50(WA.3)
	display	<rule #>		Display IPSec rule #
	remote	key	<string>	I add a secured remote access tunnel with pre-shared key. It is a dynamic rule with local: the route's WAN IP. The algorithms with it are fixed to phase1: DES+MD5, DH1 and SA lifetime 28800 seconds; phase2: DES+MD5, PFS off, no anti-replay and SA lifetime 28800 seconds. The length of pre-shared key is between 8 to 31 ASCII characters.
		switch	<on/off>	Activate or de-activate the secured remote access tunnel.
	keep_alive	<rule #>	<on/off>	Set ipsec keep_alive flag
	load	<rule #>		Load ipsec rule
	save			Save ipsec rules
	config	netbios	active <on/off>	Set netbios active flag
			group <group index1, group index2...>	Set netbios group
		name	<string>	Set rule name
		name	<string>	Set rule name
		keyAlive	<Yes No>	Set keep alive or not
		lclIdType	<0:IP 1:DNS 2:Email>	Set local ID type
		lclIdContent	<string>	Set local ID content
		myIpAddr	<IP address>	Set my IP address

		peerIdType	<0:IP 1:DNS 2:Email>	Set peer ID type
		peerIdContent	<string>	Set peer ID content
		secureGwAddr	<IP address Domain name>	Set secure gateway address or domain name
		protocol	<1:ICMP 6:TCP 17:UDP>	Set protocol
		lcAddrType	<0:single 1:range 2:subnet>	Set local address type
		lcAddrStart	<IP>	Set local start address
		lcAddrEndMask	<IP>	Set local end address or mask
		lcPortStart	<port>	Set local start port
		lcPortEnd	<port>	Set local end port
		rmAddrType	<0:single 1:range 2:subnet>	Set remote address type
		rmAddrStart	<IP>	Set remote start address
		rmAddrEndMask	<IP>	Set remote end address or mask
		rmPortStart	<port>	Set remote start port
		rmPortEnd	<port>	Set remote end port
		antiReplay	<Yes No>	Set anitreply or not
		keyManage	<0:IKE 1:Manual>	Set key manage
		ike	negotiationMode <0:Main 1:Aggressive>	Set negotiation mode in phase 1 in IKE
			preShareKey <string>	Set pre shared key in phase 1 in IKE
			p1EncryAlgo <0:DES 1:3DES>	Set encryption algorithm in phase 1 in IKE
			p1AuthAlgo <0:MD5 1:SHA1>	Set authentication algorithm in phase 1 in IKE
			p1SaLifeTime <seconds>	Set sa life time in phase 1 in IKE
			p1KeyGroup <0:DH1 1:DH2>	Set key group in phase 1 in IKE
			activeProtocol <0:AH 1:ESP>	Set active protocol in phase 2 in IKE
			p2EncryAlgo <0:Null 1:DES 2:3DES>	Set encryption algorithm in phase 2 in IKE
			p2AuthAlgo <0:MD5 1:SHA1>	Set authentication algorithm in phase 2 in IKE
			p2SaLifeTime <seconds>	Set sa life time in phase 2 in IKE
			encap <0:Tunnel 1:Transport>	set encapsulation in phase 2 in IKE
			pfs <0:None 1:DH1 2:DH2>	set pfs in phase 2 in IKE
		manual	activeProtocol <0:AH 1:ESP>	Set active protocol in manual
		manual ah	encap <0:Tunnel 1:Transport>	Set encapsulation in ah in manual
			spi <decimal>	Set spi in ah in manual
			authAlgo <0:MD5 1:SHA1>	Set authentication algorithm in ah in manual
			authKey <string>	Set authentication key in ah in manual
		manual esp	encap <0:Tunnel 1:Transport>	Set encapsulation in esp in manual
			spi <decimal>	Set spi in esp in manual
			encryAlgo <0:Null 1:DES 2:3DES>	Set encryption algorithm in esp in manual
			encryKey <string>	Set encryption key in esp in manual
			authAlgo <0:MD5 1:SHA1>	Set authentication algorithm in esp in manual
			authKey <string>	Set authentication key in esp in manual

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		
		tcprst		
			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		
			smtp	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

Annex A CI Command ListAuto WLAN Security Delivery Related Command

[Home](#)

Command				Description
autoSec	Start			Start the process of WLAN configuration delivery
	Duration			Set the delivery process duration time in seconds
	Port			Set the communication port
	key			Set the communication encryption key