



Firmware Release Note

ZyWALL 2

Release 3.62(WK.12)

Date:
Author:
Project Leader:

Sep. 22, 2005
Nash Fan
Tim Tseng

ZyXEL ZyWALL 2 Standard Version

Release 3.62(WK.12)

Release Note

Date: Sep. 21, 2005

Supported Platforms:

ZyXEL ZyWALL 2

Versions:

ZyNOS F/W Version: V3.62(WK.12) | 09/22/2005 08:58:16
BootBase: V1.08 | 01/18/2005

Notes:

1. Restore to Factory Defaults Setting Requirement: No
2. The setting of ignore triangle route is on in default ROMFILE. Triangle route network topology has potential security crisis. If you are not clear about it, please refer to Appendix for the triangle route issue.
3. IKE process in phase 2 will check ID information between system and the peer. If you found that the IPSEC connection is failed, please check your settings.
4. Using Web to configure VPN, the phase 1 algorithms have been fixed to DES + MD5. If other algorithms are preferred, please use ADVANCE page to configure them.
5. When firewall turns from "off" to "on", the firewall initialization procedure will disconnect all connections running through the ZyWALL.
6. SUA/NAT address loopback feature was enabled on ZyWALL by default; however, if users do not need it, a C/I command "ip nat loopback off" could turn it off.
7. When UPnP is on, and then reboot the router, Windows XP will not detect UPnP and refresh "My Network Places→Local Network". Plug in network wire again can solve this problem.

Known Issues:

1. Dial-backup can't work correctly when using USB modem.
2. eWC→WAN IP has bugs when WAN→ISP is PPPoE or PPTP. Leaving some values in remote IP or remote masks for WAN→IP and then switch to dynamic IP, ZyWALL cannot dial anymore.
3. UPnP problems:
 - (1) When UPnP is on, and then reboot the router, Windows XP will not detect

UPnP and refresh "My Network Places→Local Network". Plug in network wire again or restarting PC can solve this problem.

(2) Service items in Internet Gateway→Service can not be saved and is always empty.

4. The DHCP client in ZW LAN side may get an IP which is reserved by static DHCP. The situation will disappear if the client releases the IP and requests again.

5. Symptom: When turning on to many web sites at same time, it may cause content filter fail.

Condition: When turning on browser to access a lot of websites (for example, 30 sites) at same time may cause content filter fail.

6. When you use MSN messenger, sometimes you fail to open special applications, such as whiteboard, file transfer and video etc. You have to wait more than 3 minutes and retry these applications.

7. In web MAIN MENU->SYSTEM->General page, the IP addresses of "System DNS Servers" fields are empty when router connects to Internet using dial backup.

8. We can not change dial backup IP from dynamic to static by telnet or SSH.

9. Symptom: Responder will jump to wrong VPN rule when current rule's phase 2 parameter is wrong.

Condition:

Initiator -----NAT router ----- Responder

1). Initiator has one VPN rule in which NAT traversal is on.

2). In responder, there are two VPN rules.

- Rule 1: NAT traversal is off, and phase 2 parameters are wrong.

- Rule 2: NAT traversal is off, and all other parameters are correct.

3). Trigger tunnel from initiator and responder will use rule 1 to negotiate.

4). When phase 2 negotiation starts, responder found rule 1's parameters are wrong, and will jump to rule 2.

5). Negotiation will keep going and tunnel will be up.

10. Can't block ActiveX in some case.

11. H.323 may not work with following scenario:

PC1 ↔ ZyWALL ↔ internet ↔ ZyWALL ↔ PC2.

12. When perform SPT partial reset via Vantage, device wouldn't reset all system parameters.

13. Device can't delete address mapping via Vantage.

1). Let device registers to Vantage.

2). Add 2 address-mapping rules via Vantage.

3). Delete 1 address-mapping rule via Vantage. The rule can't be deleted.

14. System may need to reboot when change the SNMP port number.

15. CNM agent can register to Vantage success with different encryption key.

1). Set encryption mode with "DES" and encryption key with "12345678" on Vantage.

2). Set encryption mode with "DES" and encryption key with "12345679" on CNM agent.

3). CNM agent can register to Vantage successfully.

16. VPN rule swap will fail with Phase 1 parameters difference, such as, Peer ID Type, Peer ID Content, Key Management, Negotiation Mode.

17. ZW2 only can use baud rate below 38400 bps to communicate with USB modem without setting hardware flow control. Baud rate that exceeds 38400 bps can only dial when initial string set the hardware flow control, ex. at&f1.

Features:

Modifications in V 3.62(WK.12) | 09/22/2005

Modify for formal release.

Modifications in V 3.62(WK.12)b1 | 07/25/2005

1. [BUG FIX]

Symptom: Idle timeout of ZW2 in PPPoE cannot work.

Condition:

1. Set WAN1 as PPPoE
2. Set Idle Timeout(sec) as 30
3. Set CI command>sys rn pingcheck 1 to enable "check connectivity".
4. Pull up any cables except WAN on the ZyWALL
5. Wait 30 secs and the status of WAN in Menu 24-1 cannot show "idle" but it should.

2. [BUG FIX] 050708436

Symptom: Restore configuration file error.

Condition:

1. Use console port, go to debug mode(boot extension).
2. Use atlc command to upgrade configuration file. It will show "File size too small" error message.
3. But this configuration file can be upgraded successfully by GUI.

3. [BUG FIX]

Symptom: SIP device can not register successfully.

Condition:

1. Network topology as follows:
Phone --- P2002 ---- (LAN) DUT (WAN) --- SIP server.
2. DUT restore default romfile, and enable ALG_SIP.
3. P2002 device can not register successfully.

4. [FEATURE CHANGE]

Ping check flag is changed to 0 when resetting router.

Note: 1. User can use CI command to change it ("sys rn ping 0/1", 0 for off, 1 for on).

2. This flag is run time only, when router reboot, it changed to default value.

Modifications in V 3.62(WK.11) | 07/07/2005

Modify for formal release.

Modifications in V 3.62(WK.11)b1 | 07/04/2005

1. [FEATURE CHANGE]

Content filter trusted web number, forbidden web number and key word number, all change to 64.

2. [BUG FIX] 050601057

Symptom: WAN metric will always add 100 When WAN Encapsulation= PPTP and enable Traffic redirect.

Condition:

1. Configure WAN Encapsulation= PPTP mode and dial up, check it can connect to Internet.
2. Active Traffic redirect and fill backup gateway.

3. You will find menu 24.8 ip router status WAN metric add 100, and the result is all traffic go out via route of Traffic redirect.
3. [BUG FIX]

Symptom: ZW2 traffic redirect can not switch to dial back-up.

Condition:

Topology:

```

PC --- (192.168.1.1) DUT --- (WAN)
|---(192.168.1.100)Router --- (WAN)
      
```

 1. DUT configure a traffic redirect(192.168.1.100) in LAN, and check point(168.95.1.1).
 2. DUT configure a dial back-up, and make sure it is OK.
 3. Turn on pingcheck flag by "sys rn pingcheck 1"
 4. Let traffic go through traffic redirect, then unplug Router wan's line, DUT will not switch to dial back-up.
 5. CI command "ip route status" still show traffic redirect is OK.
4. [BUG FIX]

Symptom: Dial backup Priority greater than Traffic Redirect can't work.

Condition:

 1. If Dial backup priority greater than Traffic Redirect can't work
 2. It should add a message to avoid this setting.
5. [BUG FIX]

Symptom: VPN tunnel cannot be built if the received IKE packet is fragmented.

Condition:

 - (1) Set IKE rule which authentication key is certificate with 2048 bit key length.
 - (2) Set encryption algorithm of the IKE rule as AES.
 - (3) Set the ipsec rule.
 - (4) Set a environment which will fragment the IKE packet.
 - (5) Dial the tunnel.
 - (6) The tunnel cannot be built.
6. [FEATURE CHANGE]

PPTP mtu size is change to 1460 from 1462.
7. [FEATURE CHANGE]

For default rom file, "ip adjmss 0" is removed from autoexec.net.
8. [FEATURE CHANGE]

If ZW2 switches to AUX mode, default standard output is changed to NULL.
9. [FEATURE CHANGE]

Ping check flag is changed to 1 when resetting router.

Note: 1. User can use CI command to change it ("sys rn ping 0/1", 0 for off, 1 for on).

2. This flag is run time only, when router reboot, it changed to default value.
10. [ENHANCEMENT]

Add a CI command ("aux usrmdm flag", flag=0 for off, 1 for on)for USR modem.

Note: This command is for USR modem only.
11. [ENHANCEMENT]

Merge CNM agent 2.0.2. Please reference "VantageAgent2.0.2.doc" for detail information.

Modifications in V 3.62(WK.10) | 06/02/2005

Modify for formal release.

Modifications in V 3.62(WK.10)b1 | 05/27/2005

1. [BUG FIX]
Symptom: MSN 7.0 hangs in ZW2.
Condition:
 1. A PC install MSN 7.0, is in ZyWALL 10W LAN side.
 2. MSN can login the account, but will be hanged.
2. [BUG FIX] 050502034
Symptom: FTP through PPTP connection (initiated from ZyWALL) hangs after around 3 seconds
Condition:
 - (1) PPTP connection is initiated from ZyWALL. PC behinds ZyWALL start FTP to outside FTP server and download/upload files.
 - (2) After 2~3 seconds, the connections (FTP) hangs. At the same time, PING traffic can pass through.
3. [BUG FIX] 050413573
Symptom: The device will crash after the UI is changed while CI is executing "ip telnet"
Condition:
 - (1) Set DUT WAN ip is 192.168.11.96 ,gateway is 192.168.11.100
 - (2) Set PC2 IP is 192.168.11.100 and connect to DUT's WAN
 - (3) Use PC1 login device with telnet.
 - (4) Execute CI command "ip telnet 192.168.11.100"
 - (5) Enter the console mode, the device will crash
4. [BUG FIX]
Symptom: Dial back-up does not support FULL-FEATURE NAT.
Condition:
 - (1) Enter SMT menu 11.3 for "dial backup" remote node
 - (2) Go to "Edit IP" and change NAT selection to FULL Feature. (will see the NAT Lookup Set= 3)
 - (3) Go to SMT menu 15.1 and found there is no NAT_SET 3.
5. [BUG FIX]
Symptom: Router runs out of memory and crash
Condition:
 - (1) Turn on firewall.
 - (2) Sometimes router will crash when suffer attack.
6. [BUG FIX]
Symptom: Telnet function takes too much time.
Condition:
 - (1) Type the CI command "ip telnet host_A".
 - (2) When telnet from router to non-exist server host_A, it always takes about 40 seconds or more to connect. And users cannot interrupt the router and can do nothing.
 - (3) We add interruption functions, Ctrl+C, to the CI command.

Modifications in V 3.62(WK.9) | 04/18/2005

Modify for formal release.

Modifications in V 3.62(WK.9)b1 | 04/08/2005

1. [ENHANCEMENT] 050221568
Add ping check switch for single WAN products.
CI command: sys rn pingcheck [0:disable|1:enable]
This will not be saved in romfile.
2. [ENHANCEMENT] 050128767
After DDNS successful applied the change, ZW2 will show the result in log.
3. [BUG FIX] 041229489
Symptom: Port trigger not working.
Condition:
(1) SMT 24.8, "ip nat service irc 1" .
(2) On port forward table, set port 113 to forward 192.168.1.33.
(3) On trigger port table, set incoming port as 113 and trigger port range from 6660 to 6700.
(4) Use mirc to connect irc will fail.
4. [BUG FIX] 040924953
Symptom: The PPTP connection between a ZyXEL router and a Thomson SpeedTouch DSL modem may be reset after the ZyXEL router transmits a large quantity of packets.
Condition:
(1) Connect a ZyXEL router to a Thomson SpeedTouch DSL modem.
(2) Configure the router to establish a PPTP connection to the modem.
(3) Have the router transmit a large quantity of packets via the modem.
(4) Observe STM 24.1 for any sign of PPTP disconnection. (The PPTP connection suffers a risk of drop for around every 65536 packets transmitted by the router.)
5. [BUG FIX] 040818082
Netmeeting/OpenPhone H.323 traffic will be blocked by Firewall if connection is initiated from WAN side to LAN side.
Condition:
PC1------(LAN) ZyWALL (WAN) ----- PC2
192.168.1.33
(1) Enable Firewall, setup a WAN2LAN firewall rule for H.323 service
(2) Enable NAT port forwarding for port 1720(H.323) to PC 192.168.1.33
(3) Enable H.323 ALG by "ip alg enable ALG_H323"
(4) PC1 and PC2 use Netmeeting/OpenPhone, PC2 call PC1.
(5) Netmeeting/OpenPhone application traffic will be blocked by Firewall, you will see a lot of Firewall blocked log in Centralized LOG.
6. [BUG FIX] 050222617
Symptom: Netbios packet cannot pass through VPN tunnel .
Condition:
(1) Configure a VPN tunnel as follows:
1.1 local subnet mask is 192.168.1.1/255.255.0.0.
1.2 remote subnet mask is 192.169.1.1/255.255.0.0.
1.3 Enable "Netbois pass through" in local and remote gateway.
1.4 PC A(Local)-----ZyWALLA-----ZyWALLB---PC B(Remote)192.168.1.1/24
192.169.1.1/24.
(2) Establish the VPN tunnel.
(3) In PC A, Search PC B's computer name will fail.

7. [BUG FIX] 041230547
Symptom: Enter special url will cause device crash.
Condition:
(1) Form LAN site, enter
`http://192.168.1.1/Forms/rpAuth_1?ZyXEL%20ZyWALL%20Series<script>top.location.pathname=%20"</script>` on browser, the device will crash.
8. [BUG FIX] 040811589
Symptom: Firewall judges that Linux traceroute behavior is port scan attack.
Condition:
(1) Turn on Firewall
(2) Linux computer locates in LAN side and traceroute to the host which distance is over 5 hubs.
(3) Firewall judges that Linux traceroute behavior is port scan attack
9. [BUG FIX] 050225963
Symptom: LAN will get same IP
Condition:
(1) Use a linux tool, SimClien, to simulate 254 DHCP client.
(2) Different MAC will get same IP
10. [BUG FIX] 050128770
Symptom: When users remotely manage the ZyWALL via a PPTP connection, a strange firewall session (between PPTP server and PPTP client) timeout log may be observed.
Condition:
(1) Configure the ZyWALL's WAN port to use PPTP encapsulation.
(2) Remotely login eWC (http/https) via the PPTP connection.
(3) After a few minutes, check the centralized logs or syslogs, you will observe a sequence of firewall logs of http/https session timeout.

Modifications in V 3.62(WK.8) | 02/15/2005

Modify for formal release.

Modifications in V 3.62(WK.8)b2 | 01/27/2005

1. [BUG FIX]
Symptom: ZyWALL 2's throughput is very slow
Condition:
(1) Use smartbit to measure LAN->WAN pure routing throughput.
(2) The throughput is much slower than previous version 3.62(WK.7)

Modifications in V 3.62(WK.8)b1 | 01/19/2005

1. [FEATURE CHANGE]
Change keep alive behavior to nailed-up in IPSec.
2. [ENHANCEMENT]
Add the switch of NAT AOL alg.
3. [ENHANCEMENT]
Add "ip urlfilter webControl reginfo refresh" The CI command is to query whether device's external CF had been registered. If yes, write the original license key to flash.
4. [ENHANCEMENT]

- Modify CI command "ip arp add" from hidden to visible.
5. [ENHANCEMENT]
Support for DNS queries from WAN to LAN internal DNS server.
 6. [BUG FIX]
Symptom: Content filter timeout problem.
Condition:
 - 1). A router is register the content filter (CF) server.
 - 2). Enable the CF feature.
 - 3). Enable the external database content filtering.
 - 4). The router log often record "Waiting content filter server (server name) timeout!".
 - 5). A PC in lan fetch web from internet often hang for a while.
 7. [BUG FIX]
Symptom: In GUI->AUTH SERVER->Local User Database, it cannot check the duplicate name.
Condition:
 - 1). In eWC->AUTH SERVER->Local User Database.
 - 2). If two rows of data have the same username, the status bar does not show the warning message.
 8. [BUG FIX]
Symptom: Add Static route rule on WAN interface, after reboot system, the routing table not exist this rule.
Condition:
 - 1). WAN1 (or WAN2) uses ethernet dynamic IP.
 - 2). Add a static route rule on WAN1 (or WAN2) interface and check this rule exist on routing table.
 - 3). Reboot system, this rule not exist on routing table.
 9. [BUG FIX]
Symptom: eWC-->LAN-->IP Alias has no conflict check
Condition: In eWC-->LAN-->IP Alias, Alias 1 and Alias 2 should be in different subnet, but our system doesn't do such check.
 10. [BUG FIX]
Symptom: IKE negotiation fails when NAT traversal is enabled.
Condition: When enabling NAT traversal and setting local ID type as DNS or Email, IKE negotiation fails.
 11. [BUG FIX]
Symptom: Possible NAT issue in combination with specific SUA entry.
Condition:
 - 1). Go to eWC>NAT Port Forwarding Page set a rule with port start from 10000 to 20000, inactive this rule.
 - 2). After some outbound traffic, use CI command "ip nat hashTable enif1" to check, the outgoing port incorrectly start from 20000.
 12. [BUG FIX]
Symptom: If M-1 & 1-1 are using the same public IP address, it would cause some problem.
Condition:
 - 1). Go to eWC>NAT Address Mapping Page set M-1 NAT and 1-1 NAT with same global IP address.
 - 2). The M-1 NAT entries will let the first 1-1 NAT connections fail.
 13. [BUG FIX]

0.0.0.0 ~255.255.255.255.

- 2). Configure an IPSec rule on a mobile user to connect with ZyWALL_a.
- 3). After a tunnel is established between ZyWALL_a and the mobile user, all the internet-bound traffic from the mobile user will be tunnelled to ZyWALL_a. ZyWALL_a should be able to route these traffics to the internet and then route the responses back to the tunnel. However, ZyWALL_a fails to do so.

Modifications in V 3.62(WK.7) | 10/11/2004

1. Modify for formal release.

Modifications in V 3.62(WK.7)b2 | 09/30/2004

1. [FEATURE CHANGE] The three content filter customize flags - "Block full path", "Case insensitive" and "Block file name" are enabled by default.
2. [FEATURE CHANGE] Set maximum concurrent NAT sessions per host to 512.
3. [ENHANCEMENT] Enhance "cnm keepalive" ci command. Add "cnm keepalive 0" command to stop sending of keepalive packet to Vantage.
4. [BUG FIX] Symptom: Symptom: FTP from WAN to LAN does not work.
Condition:
 - 1). Set a FTP server on a host in the LAN side and configure a default server to this host.
 - 2). Using FTP from WAN to the default server with port mode.
 - 3). After typing username and password, "ls" command does not work.
5. [BUG FIX] Symptom: System Crash when change encryption key in Vantage.
Condition:
 - 1). Device register to Vantage in router mode under DES and PPPoE.
 - 2). configuration>>general>>system change the original encryption key and apply
 - 3). Device receives data but soon the system crash.
6. [BUG FIX] Symptom: WAN Gateway will be reset to 0.0.0.0.
Condition:
 - 1). In Vantage CNM add a device (the device have a static IP),when it register to Vantage. Vantage set default value to device.
 - 2). After the device reset, WAN Gateway will be reset to 0.0.0.0.
7. [BUG FIX] Symptom: CNM agent accepts wrong CI command "cnm keepalive -323123122222222222222222".
Condition:
 - 1). In SMT 24.8, type "cnm keep -323123122222222222222222".
 - 2). The system accepts it and saves with the value.
8. [BUG FIX] Symptom: CNM agent accepts wrong CI command "cnm encrymode 1231223".
Condition:
 - 1). In SMT 24.8, type "cnm encrymode 1231223".
 - 2). The system accepts it and read it as "65535".
9. [BUG FIX] Symptom: [Vantage] Configuration>>VPN: When delete a active VPN tunnel successfully. Device sends VPN tunnel status "Destroy" to vantage.
Condition:
 - 1). Create and dial up a VPN tunnel via Vantage.
 - 2). Delete this active rule in Vantage.
 - 3). Vantage server will have exception.
10. [BUG FIX] Symptom: Switch NAT mode of device from Vantage. Vantage can't get response packet from device.
Condition:
 - 1). Edit a correct address mapping rule via Vantage.
 - 2). Switch NAT mode: none/full feature/SUA. Then you will find sometimes device

return -6000 (no difference). But there is difference. In the meanwhile, the NAT mode didn't change in device side. If device return 0, Vantage cannot get the response.

11. [BUG FIX] Symptom: [Vantage] Configuration >> WAN >> General >> WAN: Route not works.
Condition: Configure WAN >> General: WAN route on Vantage. Modify "traffic redirect priority" value and click apply button. The change can't be saved to router.
12. [BUG FIX] Symptom: System reboots as a result of memory leaks caused by ZyReport.
Condition:
 - 1). Enable ZyReport.
 - 2). Access huge amount of URLs which will be counted by ZyReport.
 - 3). System will run out of available memory sections and eventually reboot.
13. [BUG FIX] Symptom: System hangs when making windows messenger voice call.
Condition:
 - 1). Make windows messenger voice call via following scenario:
PC(a) ----- ZW2(a) ----- ZW2(b) ----- PC(b)
 - 2). Setting ZW2(b) default server to an IP address that not exist.
 - 3). ZW2(b) hangs when PC(a) making voice call to PC(b).

Modifications in V 3.62(WK.7)b1 | 08/17/2004

1. [ENHANCEMENT] Add Unified ALG for SIP and H.323.
2. [ENHANCEMENT] Each unified ALG can be enabled / disabled.
 - 1). "ip alg display" to display the enable/disable information of each ALG.
 - 2). "ip alg enable <ALG_FTP | ALG_H323 | ALG_SIP >" to enable an ALG.
 - 3). "ip alg disable <ALG_FTP | ALG_H323 | ALG_SIP >" to disable an ALG.
3. [ENHANCEMENT] Firewall can bypass AX.25 (protocol #93) & IPv6 (protocol #41) protocols.
4. [ENHANCEMENT] Enhanced eWC - Time and Date page.
5. [ENHANCEMENT] Enhanced eWC – Vantage CNM page in remote management.
6. [ENHANCEMENT] Centralized log add
 - 1). Triangle route log switch.
 - 2). Broadcast/Multicast log switch.Note: Add CI commands:
 - a. "sys logs switch".
 - b. "sys logs switch display".
 - c. "sys logs switch bmlog <0:no|1:yes>".
 - d. "sys logs switch trilog <0:no|1:yes>".
7. [ENHANCEMENT] Enhance LOGS GUI.
 - 1). In LOGS > Log Settings page, add "Asymmetrical Routes", "Multicasts/Broadcasts" log setting items under Access Control.
 - 2) In LOGS > View Logs page, if users check any sub log under the Access Control, but doesn't check Access Control, the checked logs will not include in the Display List field.
8. [ENHANCEMENT] Add optional illustration with speed configuration command.
9. [ENHANCEMENT] External content filtering support full URL checking.
10. [BUG FIX] Symptom: Router block trusted web content.
Condition:
 - 1). In "eWC->CONTENT FILTER->General", enable content filter.

- 2). In "eWC->CONTENT FILTER->Customization", select check boxes of "Enable Web site customization" and "Disable all Web traffic except for trusted Web sites".
 - 3). In "eWC->CONTENT FILTER->Customization", set "www.hellowork.go.jp" as trusted web site.
 - 4). Open browser and access
http://www.hellowork.go.jp/kensaku/servlet/kensaku?pageid=001
 - 5). In the new page, select third and fourth radio button and click "search" button.
 - 6). In the new page, click "next page" button.
 - 7). The new page will be blocked.
11. [BUG FIX] Symptom: External Content Filtering cannot block the URL belonging to restricted category.
Condition:
- 1). In "eWC->CONTENT FILTER->Customization", unselect "Enable Web site customization".
 - 2). Add a URL to "trusted web sites".
 - 3). In "eWC->CONTENT FILTER->Customization", select "Block Web sites which contain these keywords".
 - 4). In "eWC->CONTENT FILTER->Categories", select the category which the URL belongs to.
 - 5). Access the trusted URL.
 - 6). The URL will not be blocked.
12. [BUG FIX] Symptom: For UPnP, MSN Messenger 6.1 voice function cannot work.
Condition:
- 1). Network topology: PC_A <--> Router_A <--> internet <--> Router_B <--> PC_B.
 - 2). PC_A and PC_B add Windows UPnP components.
 - 3). Router_A and Router_B enable UPnP function.
 - 4). The MSN Messenger 6.1 voice function cannot work between PC_A and PC_B.
13. [BUG FIX] Symptom: Router will crash.
Condition:
- 1). Force router to execute many DNS queries.
 - 2). Router sometimes will crash.
14. [BUG FIX] Symptom: System crashes.
Condition: Configure device by eWC sometimes cause crash.
15. [BUG FIX] Symptom: MSN Messenger's "Ask for Remote Assistance" function causes system crash.
Condition:
- 1). Enable UPnP.
 - 2). Set PC(A) and router(B) in intranet and PC(C) connects to LAN port of router(B).
 - 3). Test MSN Messenger's "Ask for Remote Assistance" function from PC(A) to PC(C).
 - 4). After PC(C) accepts the PC(A) request by "Ask for Remote Assistance" then the device will crash.
16. [BUG FIX] Symptom: System out of memory.
Condition:
- 1). Let the ZyWALL be a DNS proxy for LAN hosts.

- 2). Do a lot of DNS inverse queries by running IPScan tool continuously from LAN host.
- 3). After a long time, the ZyWALL will out of memory.
17. [BUG FIX] Symptom: Packets cannot pass through NAT router to LAN hosts.
Condition:
 - 1). NAT default server is on
 - 2). Protocol of the packet is not TCP, UDP, ICMP, ESP, GRE.
 - 3). Packets from WAN to router.
 - 4). Packets cannot pass through NAT router to LAN hosts (NAT default server)
18. [BUG FIX] Symptom: External content filtering cannot register.
Condition:
 - 1). In "eWC->content filter->categories", click "register" to connect to ZSSW.
 - 2). Do the registration on ZSSW.
 - 3). The registration will fail in the final step.
19. [ENHANCEMENT] External content filtering support full URL checking.
Was: External content filtering only take domain name or IP address of URL into category checking.
Is: External content filtering put entire URL into category checking.
20. [BUG FIX] Symptom: Router will crash.
Condition:
 - 1). A host connects to router.
 - 2). User accesses website then disconnect.
 - 3). After 2 hours, user accesses website again.
21. [BUG FIX] Symptom:[Vantage] Configuration >> WAN >> General >> WAN: Route not work.
Condition: Configure WAN >> General: WAN route on Vantage. Modify "traffic redirect priority" value and click apply button. The change can't be saved to router.
22. [BUG FIX] Symptom: IKE negotiation fails when NAT traversal is enabled.
Condition: When enabling NAT traversal and setting local ID type as DNS or Email, IKE negotiation fails.
23. [BUG FIX] Symptom: The system might crash when enabling IPsec.
Condition: During IKE negotiation the system might crash.
24. [BUG FIX] Symptom: Generate a lot of TCP port 80 sessions to ZyWALL will cause device to hang and reboot by hardware watchdog.
Condition:
 - 1). Use session.exe to generate a lot of TCP port 80 sessions to ZyWALL's LAN interface.
 - 2). After several sessions are established, the ZyWALL will reboot.
25. [BUG FIX] Symptom: Sometimes the ZyWALL reboots by software watchdog.
Condition:
 - 1). Put the ZyWALL on the network for a long time.
 - 2). Sometimes the ZyWALL will reboot by software watchdog.
26. [BUG FIX] Symptom: Firewall does not put ZyWALL ports information in stealth mode under TCP SYN portscan check.
Condition:
 - 1). Connect to <http://www.pcfank.com>.
 - 2). Select Advanced port scanner.
 - 3). Select TCP SYN scanning
 - 4). Not all ports are in stealth mode.

Modifications in V 3.62(WK.6) | 06/16/2004

2. Modify for formal release.

Modifications in V3.62(WK.6)b2 | 06/07/2004

1. [BUG FIX] Symptom: Device can't register to Linux version Vantage.
Condition:
 - 1). Device active CNM and start register process.
 - 2). Device sends register request packet to Vantage.
 - 3). Vantage responds register response packet to device and device get new SGID from the packet.
 - 4). Device save new SGID and try to re-register to Vantage again.
 - 5). Device can't register to Vantage successfully anymore.
2. [FEATURE CHANGE] If the SGID of device is changed then device will reset SGMP state machine (CNM reset). This is modified as follows:
 - 1). If SGID is changed when SGMP is in the state of SGMP_STATE_ACTIVE, then device will reset SGMP state machine.
 - 2). If SGID is changed when SGMP is in other states, such as registering to Vantage, then device will not reset SGMP state machine.
3. [BUG FIX] Symptom: When more than two ZyWALL2 reboot at the same time, some ZyWALL2 will get the same IP address on WAN interface.
Condition: On Vantage, perform firmware upgrade to two or more ZyWALL2 at the same time. After firmware upgrade complete and reboot, ZyWALL2 will re-register to Vantage. But some ZyWALL2 fail to register to Vantage and they have the same IP address on WAN interface.
4. [BUG FIX] Symptom: Some trusted web sites' pictures cannot be seen.
Condition:
 - 1). In "eWC->CONTENT FILTER->Customization", select "Disable all Web traffic except for trusted Web sites" and "Don't block Java/ActiveX/Cookies/Web proxy to trusted Web sites".
 - 2). At the same page, add "kobeoffshore.com" to "Trusted Web Sites".
 - 3). Open web browser to access "kobeoffshore.com"
 - 4). All the pictures cannot be seen.
5. [BUG FIX] Symptom: ZyWALL2 reboot when continues FTP transfer data for a long time.
Condition:
 - 1). Host 1 of LAN download file overnight from WAN and host 2 of LAN upload file overnight from WAN.
 - 2). System crash after stop both FTP programs then open browser.
6. [BUG FIX] Symptom: Trigger port will disappear after system reboot.
Condition:
 - 1). Configure Trigger port rule.
 - 2). Reboot system.
 - 3). The configured Trigger port rule disappears.

Modifications in V3.62(WK.6)b1 | 05/11/2004

1. [BUG FIX] Symptom: Packets will not go through ZW2.
Condition:
 - (1) There is heavy traffic through router.
 - (2) Sometimes PC A send a DNS query to outside DNS server, but the reply packet will be forwarded to another PC.
2. [ENHANCEMENT] Add a new CI command "ip arp force <on|off>". When the user uses "ip arp force on", the age function of APR function will be disabled. That means even the ARP entry has been refered, the timer of it will not reset to 300 seconds, it will be still time out.
3. [BUG FIX] Symptom: When setting my IP address in IKE as the global IP address in the address mapping rules (SMT 15.1) and setting the NAT as full feature, IKE will fail.
Condition:
 - (1) Set the NAT as full feature (SMT 4).
 - (2) Set one rule in the address mapping rules in NAT setting (SMT 15.1).
 - (3) Set IKE responder's my IP address as the global IP address in the address mapping rules.
 - (4) When the responder receives the IKE packet, it will reply the IKE payload with WAN IP address, instead of my IP address, thus the IKE will fail.
4. [FEATURE CHANGE] Add more information about content filter's error events in centralized log and block message. When the packet was blocked because of error happens.

For centralized log:

Was: The blocked log displays "domain" in the message filed.

Is: The blocked log display <domain>: <reason> in the message files.

The wording of reasons contains:

1. "Waitting content filter server timeout"
2. "DNS resolving failed"
3. "Creating socket failed"
4. "Connecting to content filter server fail",
5. "License key is invalid"

For block message:

Was: The blocked page only shows a deny message if the license key of external content filter is invalid.

Is: The blocked page will show <Deny message> : "License key is invalid" in this case.

5. [FEATURE CHANGE] Give different returned error message between timeout and invalid license in "eWC->CONTENT FILTER->Categories->"Test Again Internet Server"

Was: It returns "Requesr error" if the license key of external content filtering is invalid or the request is timeout.

Is: 1. It returns "Request timeout" if the request is timeout

2. It returns "License key is invalid" if the license key is invalid.

6. [BUG FIX] Symptom: Router will crash.

Condition:

- (1) In "eWC->CONTENT FILTER->General", select "Enable Content Filter" and click "Apply"
 - (2) In "eWC->CONTENT FILTER->Categories", select "Enable External Database Content Filtering" and at least one category in "Select Categories". Click "Apply" after selection.
 - (3) Open web browser and access a web site which belongs the category you select in step 2.
 - (4) In "eWC->CONTENT FILTER->Categories", un-select the category selected in step 2 and keep at least one category is selected. Click "Apply" after selection.
 - (5) Repeat step 3 immediately after step 4.
 - (6) Router will crash or hang.
7. [FEATURE CHANGE] Change external content filtering message on centralized log and blocked page for some error events.

When router cannot send request to external content filter server due to some unexpected internal errors.

Was:

log: Connecting to content filter server (server IP) fail.

blocked message: Connecting to content filter server fail.

Is:

log: Cannot issue a query because TCP/IP connection could not be established.

blocked message: TCP/IP connection not established.

When router cannot filter web content due to content filter service is busy.

Was:

log: Content filter's queue is full.

blocked message: N/A

Is:

log: Content filter overloaded.

blocked message:Content filter overloaded.

When content filter server cannot sent request to external content filter server due to too many current lookups are executing.

Was:

log: No available slot to send request to content filter server.

blocked message: No available query slots.

Is:

log: Max allowed simultaneous content filtering lookups (max lookups num) exceeded.

blocked message:Too many simultaneous content filtering lookups.

8. [BUG FIX] Symptom: Router will crash.
Condition: Use CI command "ip urlfilter webControl cache timeout"
9. [ENHANCEMENT] Put Cerberian company's logo on External Content Filtering blocked page.
10. [ENHANCEMENT] Implement the timeout mechanism on content filter's local cache. Once the cache entry is timeout, it will be delete.
11. [BUG FIX] Symptom: ICMP packet of NAT loopback will be blocked by Firewall.
Condition:
(1) Enable Firewall.

- (2) NAT default server is set to host A.
 - (3) Turn on NAT loopback.
 - (4) Host A pings router's WAN IP address.
 - (5) Host A does not receive echo reply packet and Firewall log shows "Land Attack".
12. [BUG FIX] Symptom: NAT loopback fail.
Condition:
- (1) Host A runs FTP server in ZyWALL's LAN side.
 - (2) Turn on SUA and NAT loopback on ZyWALL.
 - (3) Configure default server to host A.
 - (4) Turn on Firewall.
 - (5) Host A runs FTP client and connect to ZyWALL's WAN IP.
 - (6) Connection fails.
13. [BUG FIX] Symptom: Router will crash.
Condition: When user continuously accesses eWC and press "Apply" button, sometimes router will crash.
14. [BUG FIX] Symptom: In VPN negotiation, if responder jumps to a new rule which has empty phase 1 peer ID content , tunnel will not be up.
Condition: There are two rules in responder and one rule in initiator. All rules in initiator and responder are in aggressive mode.

Responder:

Rule 1: dynamic rule (Secure gateway IP is 0.0.0.0).

Rule 2: Correct static rule.

Both rule 1 and rule 2 has empty phase 1 peer ID (i.e., in SMT menu 27.1.1, "Peer ID Content" is empty).

When trigger tunnel from initiator, negotiation will fail.

15. [BUG FIX] Symptom: IPSec rule swap will be failed with X-Auth.
Condition: There is one VPN rule in initiator and two rules in responder.
Initiator: X-AUTH is off.
Responder:
- Rule 1 ==>phase 2 peer ID is wrong. X-AUTH is on.
 - Rule 2 ==>dynamic rule. X-AUTH is off and all other parameters are correct.
- Responder will use rule 1 to start negotiate, and then since rule 1's phase 2 peer ID is wrong, responder will jump to rule 2. During the rule swap, system will compare rule 1's parameter with rule 2's. Since rule 2 is X-AUTH on and rule 1 is X-AUTH off, their authentication method flags are different. So system will skip rule 2 and got no rule to keep negotiate.
16. [BUG FIX] Symptom: When initiator receives wrong phase 1 ID from responder, it will jump to another rule.
Condition: During IKE negotiation in Main mode, if responder's "Local ID Content" mismatches initiator's "Peer ID Content", initiator will do rule swap and choose another rule to negotiate.
17. [BUG FIX] Symptom: Sometimes when connect to router by TCP, FTP or HTTP will fail.
Condition:
- (1) One user connects to router by FTP, TELNET or HTTP.
 - (2) In TCP handshake, client doesn't receive SYN ACK. i.e., router is in SYN

- RECEIVE state.
- (3) Client timeout and send RESET to router.
 - (4) Related socket in router is still alive and other users can't login router until this socket timeout.
18. [ENHANCEMENT] The ZyWALL now also records the time server address (domain name or IP address) in the time synchronization result (successful or failed) logs.
19. [BUG FIX] Symptom: System out of memory and reboot when firewall enable.
Condition:
(1) Enable firewall, then generate traffic.
(2) The memory will slowly leak until it uses up all the memory, then reboot.
20. [BUG FIX] Symptom: Packets cannot pass through NAT router to LAN hosts.
Condition:
(1) NAT default server is on
(2) Protocol of the packet is not TCP, UDP, ICMP, ESP, GRE.
(3) Packets from WAN to router.
(4) Packets cannot pass through NAT router to LAN hosts (NAT default server)
21. [BUG FIX] Symptom: Vantage can't sync VPN tunnel status.
Condition: On Vantage, when create a VPN tunnel and dial the tunnel success. Vantage hasn't display the VPN tunnel status.
22. [BUG FIX] Symptom: Router will not enter "Debug Mode".
Condition:
(1) Go to SMT 24.7.1
(2) Select "Y" for "upload system firmware".
(3) After rebooting, it will not enter "Debug Mode".
23. [BUG FIX] Symptom: On eWC->WAN->WAN IP page, gateway address may save with the IP address that not in WAN subnet.
Condition:
(1) To eWC->WAN->WAN IP page.
(2) Click "Use fixed IP address" radio button.
(3) Fill the field "My WAN IP Address" with "172.21.1.1".
(4) Fill the field "My WAN IP Subnet Mask" with "255.255.0.0"
(5) Fill the field "Gateway IP Address" with "192.168.1.1".
(6) Click apply to save.
(7) Status shows "Configuration updated successfully".
24. [BUG FIX] Symptom: In SMT 1, change DNS server with User-Defined IP address, it does not save to ROM after rebooting.
Condition:
(1) In SMT 1, change DNS server with User-Defined.
(2) Set a User-defined IP address.
(3) Save it to ROM file.
(4) Change User-defined IP Address with new one.
(5) New DNS IP address do not change after rebooting the system.

Modifications in V 3.62(WK.5) | 04/28/2004

- 3. Modify for formal release.

Modifications in V3.62(WK.5)b1 | 04/27/2004

1. [ENHANCEMENT]
Auto configures MSS size according to MTU size. If users set the MSS value to 0, system would auto configure the MSS size according MTU size. Otherwise, the mss value would be the user specified value.
2. [BUG FIX]
Symptom: PPPoE connection sometimes fails in France.
Condition: Since France Telecom changes their core network setup to BRAS, ZyWALL PPPoE connection on authentication phase most of the time fails.

Modifications in V 3.62(WK.4) | 04/21/2004

1. Modify for formal release.

Modifications in V3.62(WK.4)b2 | 04/19/2004

1. [BUG FIX]
Symptom: Vantage can't sync VPN tunnel status.
Condition: On Vantage, when create a VPN tunnel and dial the tunnel success. Vantage hasn't display the VPN tunnel status.

Modifications in V3.62(WK.4)b1 | 04/13/2004

1. [BUG FIX] Symptom: When delete LAN->Static DHCP MAC and IP via Vantage. The IP become "0.0.0.0" on Web. It should be empty.
Condition:
 - (1) On Vantage, Configuration->LAN->Static DHCP.
 - (2) Add MAX and IP Address from index 1 to 5 and press Apply.
 - (3) Clear MAC Address and fill up IP Address to "0.0.0.0" from index 4 to 5 on Vantage and press Apply.
 - (4) Check MAC and IP on Web. MAC always exist, and IP Address become "0.0.0.0".
2. [BUG FIX] Symptom: When device changes the encapsulation will lose connect with Vantage server.
Condition:
 - (1) Original device go Ethernet.
 - (2) Change WAN ISP to PPPoE on Web.
 - (3) Vantage's device status display connected. But device IP is still Ethernet IP.
 - (4) We can't control device via Vantage now.
3. [BUG FIX] Symptom: The device console display "size of spAclBuffer_t=2048" message after restore.
Condition:
 - (1) On Vantage, DEVICE->Configuration File->Restore.
 - (2) Select a rom file and perform rom file restore to device.
 - (3) After the restore, device console will display "size of spAclBuffer_t=2048".
4. [BUG FIX] Symptom: WAN->Dial Backup->"Port Speed" can't select to "230400".
Condition:
 - (1) On Vantage, CONFIGURATION->WAN->Dial.
 - (2) On 'Dial Backup Port Speed', select 230400 and it cannot be configured to device.

5. [BUG FIX] Symptom: Vantage can't find this version F/W just uploaded.
Condition:
 - (1) On Vantage, DEVICE->Firmware Mgmt, upload the F/W.
 - (2) DEVICE->Firmware Upgrade, we can't find the F/W just uploaded.

Modifications in V 3.62(WK.3) | 04/13/2004

4. Modify for formal release.

Modifications in V 3.62(WK.3)b1 | 04/06/2004

[ENHANCEMENT] Support INTEL flash memory.

Modifications in V3.62(WK.2)b1 | 03/24/2004

1. [ENHANCEMENT] Support Vantage CNM 2.0 (Vantage Centralized Network Management).
2. [BUG FIX] Symptom: No firewall checking when using dial backup connection.
Condition:
 - (1) Setup dial backup environment.
 - (2) Enable firewall and block WAN to WAN traffic.
 - (3) Pull out the WAN line and make dial backup turn on.
 - (4) Try to FTP to firewall WAN ip address from outside workstation.
 - (5) Firewall will not block the ftp connection.
3. [BUG FIX] Symptom: Fixed a wording error "CERTIRICATES - MY CERTIFICATE - DETAILS" in eWC>CERTIFICATES>MY CERTIFICATE>DETAILS.
Condition:
 - (1) Go to eWC>CERTIFICATES>MY CERTIFICATE and check detail (a check box).
 - (2) The word "CERTIRICATES" on page title is misspelled.
4. [BUG FIX] Symptom: ZW2 reboot when change the "ftp & https" or "telnet & https" server access mode in SMT 24.11 menu.
Condition:
 - (1) Enter SMT menu 24.11.
 - (2) Change "ftp & https" or "telnet & https" server access mode.
 - (3) Save the configuration into rom file.
 - (4) ZW2 will reboot.
5. [BUG FIX] Symptom: In eWC>Remote MGNT>SSH, Server access will display wrong setting value.
Condition:
 - (1) Go to eWC>Remote MGNT>SSH.
 - (2) Change Server access mode from "LAN & WAN" to "WAN".
 - (3) Leave this page and then re-enter this page again, Server access mode always show "LAN & WAN".

Modifications in V 3.62(WK.1) | 02/24/2004

Modify for formal release.

Modifications in V 3.62(WK.1)b1 | 02/16/2004

1. [BUG FIX] Symptom: Responder will jump to wrong VPN rule when current rule's phase 2 parameter is wrong.

Condition:

Initiator -----NAT router ----- Responder

- 1). Initiator has one VPN rule in which NAT traversal is on.
- 2). In responder, there are two VPN rules.
 - Rule 1: NAT traversal is on, and phase 2 parameters are wrong.
 - Rule 2: NAT traversal is off, and all other parameters are correct.
- 3). Trigger tunnel from initiator and responder will use rule 1 to negotiate.
- 4). When phase 2 negotiation starts, responder found rule 1's parameters are wrong, and will jump to rule 2.
- 5). Negotiation will keep going and tunnel will be up.

Modifications in V 3.62(WK.1)b1 | 02/16/2004

2. [ENHANCEMENT] Add a new CI command "ip arp period" to change the ARP lifetime interval. The default ARP lifetime is 300 seconds, the user can use this CI to change ARP lifetime. Please note that this CI command will not change the lifetime of an existing ARP entry, but only for the newly created ARP entry. Please note also that it will not store the new ARP lifetime configuration into romfile.
3. [ENHANCEMENT] Add a CI command to switch the ARP attack:
ip arp attpret <on|off>
The default is "on" that means the router will avoid IP spoofing ARP attack by default. Users can use "ip arp attpret off" to make the router accept the different network ARP. To allow the DHCP client get the WAN IP address and gateway IP address which are in different networks, the router needs to accept the ARP from different networks.
4. [ENHANCEMENT] Add CI commands for WAN port speed configuration:
ether edit speed <auto|10/half|10/full|100/half|100/full>
Note: Need to reset chip, so the connection will be broken.
5. [ENHANCEMENT] Add product name in eWC page title.
6. [BUG FIX] Symptom: IPSec XAUTH cannot work with SoftRemote version 8.0.0
Condition:
 - 1). Configure corresponding IPSec rule with XAUTH on SoftRemote and ZyWALL.
 - 2). Trigger SoftRemote IPSec rule.
 - 3). SoftRemote log shows "no proposal chosen" and connection fails.
7. [BUG FIX] Symptom: Traceroute or PingPlotter are not able to discover ZyWALL's LAN interface.
Condition:
 1. Running Traceroute or PingPlotter on desktop.
 2. Both applications can not discover ZyWALL's LAN interface.
 3. Firewall log shows "Unsupported/out-of-order ICMP: ICMP(type:11, code:0)".
8. [BUG FIX] Symptom: ZyWALL cannot establish IPSec connection to SSH Sentinel.

Condition: When ZyWALL and Sentinel both enable XAUTH, the IKE negotiation will fail.

9. [BUG FIX] Symptom: X-Auth behavior in VPN rule setting page isn't correct.
Condition:
 - 1). eWC-->VPN-->Extended Authentication: Do not select "Enable Extended Authentication" (X-Auth is disabled).
 - 2). Select "Client mode" and keep "User name" and "Password" empty.
 - 3). VPN rule can't be saved and message "Both User Name and Password are required "shows on "Status".
10. [BUG FIX] Symptom: IPsec NAT-Traversal can not work.
Condition:
 - 1). Setup NAT-Traversal rule at Initiator and Responder, both sides are Tunnel encapsulation mode.
 - 2). Connect from Initiator side.
 - 3). Tunnel can not be established.
11. [BUG FIX] Symptom: IPSec rule swap is fail with NAT traversal.
Condition:

Initiator -----NAT Router -----Responder

 1. Initiator has one rule with NAT Traversal on.
 2. Responder has two rules:
 - Rule 1: NAT Traversal is on, and phase 2 ID is wrong.
 - Rule 2: NAT Traversal is off, and phase 2 ID is correct.
 - All other parameters in rule 1 and rule 2 are correct.
 3. Dial tunnel from initiator. Responder will use rule 1 to start negotiate.
 4. In phase 2, since phase 2 ID is wrong, responder will swap to rule 2 and eventually tunnel will be up because system won't check NAT Traversal flag when swapping the rule.
12. [BUG FIX] Symptom: Rule swap failed when NAT-Traversal is on.
Condition:
 - 1). Initiator setup one NAT-Traversal rule and transport encapsulation mode.
 - 2). Responder setup two NAT-Traversal rules, the first is tunnel mode, the second is transport mode.
 - 3). Initiator start to establish connection for the transport mode rule.
 - 4). IKE negotiation will fail.
13. [BUG FIX] Symptom: System memory leak and eventually causing the reboot.
Condition:
 - 1). Start collecting data in eWC->LOGS->Reports or using CI command "ip rpt start".
 - 2). Run for a very long time.
 - 3). System will run out of memory and become very unstable.

Modifications in V 3.62(WK.0) | 02/04/2004

Modify for formal release.

Modifications in V 3.62(WK.0)b3 | 01/29/2004

14. [BUG FIX] Symptom: Fix DNS query of router itself has no response when WAN

encapsulation is PPPoE or PPTP.

Condition:

- 1). Set WAN encapsulation with PPPoE or PPTP.
- 2). Connect to time server with domain name query.
- 3). Can not resolve DNS query and time synchronization failed.

15. [BUG FIX] Symptom: Fix HTTP can't work when WAN encapsulation is PPTP.

Condition:

- 1). Set WAN encapsulation with PPTP.
- 2). Use browser to create HTTP connection.
- 3). Router reset TCP connection and browser can't retrieve any information.

Modifications in V 3.62(WK.0)b2 | 12/29/2003

1. [BUG FIX] Symptom: IKE negotiation fails with a "No Proposal Chosen" error message.

Condition:

- 1). Responder has two rules with identical phase I parameters. For phase II, the later rule supports PFS, the former one doesn't.
- 2). Initiator dials for the PFS rule. The responder will receive by the non-PFS rule at first, but fails to swap to the PFS rule.

2. [BUG FIX] Symptom: IKE negotiation fails with a "No Proposal Chosen" error message.

Condition:

- 1). Responder has two rules with identical parameters except the former is transport mode, the later is tunnel mode.
- 2). Initiator dials for the tunnel mode rule. The responder will receive by the transport rule at first, but fails to swap to the tunnel rule.

3. [BUG FIX] Symptom: IKE negotiation fails with a "No Proposal Chosen" error message.

Condition:

- 1). Responder has two rules with identical parameters except the former is tunnel mode, the later is transport mode.
- 2). Initiator dials for the transport mode rule and negotiation fails.

4. [BUG FIX] Symptom: IKE negotiation fails with a "No Proposal Chosen" error message.

Condition:

- 1). Responder has two rules with identical phase I parameters. But for phase II, the former rule supports PFS, the later one doesn't.
- 2). Initiator dials for the non-PFS rule. The responder will receive by the former PFS rule at first, but fail to swap to the non-PFS rule.

5. [BUG FIX] Symptom: IKE will re-start phase II negotiation when IPSec tunnel is established.

Condition:

- 1). We have one IPSec rule supports PFS.
- 2). Dial this PFS rule and turn on debug log, tunnel will be built and can be viewed in SA monitor but without displaying "Tunnel built successfully!!!"

6. [BUG FIX] Symptom: If user uses the incomplete CI command, the system might show the unnecessary sub-commands.

Condition:

- 1). Enter the CI command mode.
- 2). Input the "ip dns sys" command.
- 3). System returns some unnecessary commands from the root "sys" command.
7. [BUG FIX] Symptom: Unable to login eWC by using Macintosh IE.
Condition:
 - 1). Open IE in Macintosh.
 - 2). Log in eWC and always fail.
8. [BUG FIX] Symptom: There is no response from router when doing port scan.
Condition:
 - 1). Firewall off.
 - 2). No port forwarding and SUA or Full Feature enabled.
 - 3). No anti probe enabled.
 - 4). Use BluesPortScan software from outside to scan router's WAN IP address with UDP packets.
9. [BUG FIX] Symptom: Router crashes and reboots.
Condition: Computers are behind ZyWALL's LAN and run eMule to download large files. After ten hours ago, the system crash.
10. [BUG FIX] Symptom: Router crashes and reboots.
Condition:
 - 1). Traffic is very busy.
 - 2). Router is doing IKE certificate negotiation.
11. [BUG FIX] Symptom: IKE negotiation will fail.
Condition:
 - 1). Responder has two rules with identical Phase I parameters. But for Phase II, the former rule is ESP protocol, the later rule is AH protocol.
 - 2). Dial for the AH protocol rule, the responder will receive by ESP protocol rule and complete Phase I negotiation, but the responder can not swap to the correct AH protocol rule.
12. [BUG FIX] Symptom: Under Dial Backup, the system cannot assign DNS to LAN device.
Condition:
 - 1). ZyWALL Dial Backup dials up.
 - 2). The LAN device cannot receive DNS from ZyWALL using Dial Backup.
13. [BUG FIX] Symptom: Packet will be fragmented via IPSec tunnel.
Condition: When setting AES encryption in IPSec, the packet will be fragmented.
14. [BUG FIX] Symptom: The HTTPS connection between the ZyWALL and Netscape 7.1 using AES256 cipher will lead to the ZyWALL's reception of packets with incorrect Message Authentication Code.
Condition:
 - 1). Open Netscape 7.1
 - 2). Select AES256 cipher (Edit->Preferences->Privacy&Security->SSL->Edit Ciphers->Extra SSL3/TLS).
 - 3). Use Netscape 7.1 to connect the ZyWALL via HTTPS protocol
 - 4). Open the ZyWALL's statistics screen to make the HTTPS connection continue.
 - 5). After a while, Netscape will show a warning message indicating that the ZyWALL has received packets with incorrect Message Authentication Code.
15. [ENHANCEMENT] The one-line certification request PEM data is broken into 64-byte-wide lines so that OpenSSL certificate enrollment can accept it without problems.

16. [BUG FIX] Symptom: Sometimes IKE negotiation fails.
Condition: Sometimes IKE fails when using PKI as authentication method.
17. [BUG FIX] Symptom: Router cannot access Internet.
Condition:
 - 1). Restore default ROM file.
 - 2). In SMT4 menu, change Network Address Translation from SUA to Full Feature.
 - 3). Router cannot access Internet anymore and user does not know what happened.
18. [BUG FIX] Symptom: Memory usage is abnormal after VPN tunnel is up.
Condition:
 - 1). Two IPSec peers initiate IKE negotiation at the same time. In this case, phase 1 SA will conflict in ZyWALL.
 - 2). One ZyWALL will change role from initiator to responder and keep IKE negotiation.
 - 3). After repeating this situation many times, system will become non-stable.
19. [BUG FIX] Symptom: When system's HTTP or HTTPS server's port is not the default value (80 or 443), the registration on ZSSW will fail.
Condition:
 - 1). Change router's HTTP or HTTPS port to any port else the default 80 or 443.
 - 2). Login to router's HTTP or HTTPS server according which server port you changed in step 1.
 - 3). In "eWC->content filter->categories", click "register" to connect to ZSSW.
 - 4). Do the registration on ZSSW.
 - 5). The registration will fail.
20. [BUG FIX] Symptom: System crash when user accesses a long URL web site.
Condition:
 - 1). Enable content filter
 - 2). Set the current time within range of content filter's blocking time.
 - 3). Open a web browser and access a web site whose URL is very long.
 - 4). System will crash.
21. [BUG FIX] Symptom & Condition: SMT login will hang when SSH have logged in.
22. [BUG FIX] Symptom & Condition: Content filter can not register under traffic redirect and dial backup.
23. [BUG FIX] Symptom & Condition: If an SSH connection already exists with the ZyWALL, the subsequent FTP connection will echo to the SSH session after FTP logging in.
24. [BUG FIX] Symptom & Condition: When Using Telia login, only sent the first 3 characters of user name and password.
25. [BUG FIX] Symptom & Condition: Traffic can not go through IPSec tunnel with AH protocol.
26. [BUG FIX] Symptom: Traffic can not go through static route.
Condition: The triangle packets will be dropped.
27. [ENHANCEMENT] After the SSH have logged in, the telnet client access will fail and receive the "Local administrator is configuring this device now!!!" message.
28. [ENHANCEMENT] The GUIs of Certificates are enhanced to allow users to perform the replacement of factory default certificate.
29. [ENHANCEMENT] The GUIs of UPnP and HTTP are enhanced to inform users the relation between UPnP and HTTP.
30. [ENHANCEMENT] The warning message of the "Replace Factory Default

- Certificate" screen has been revised to give users a better idea of the mechanism.
31. [ENHANCEMENT] Add system & LAN relative DNS CI commands.
 32. [FEATURE CHANGE] When there is no password error checking timeout, the telnet connection will be disconnected when user types wrong password three times.
 33. [FEATURE CHANGE] Identify content filter's centralized log format of block event to:
message: <IP | Domain Name>: <Block Reason>
 34. [FEATURE CHANGE] Change ZSSW's URL from zssw.zyxel.com.tw to my.zyxel.com
 35. [FEATURE CHANGE] When user accesses a restricted web site and the setting is "log & unblock", the centralized log will display the category name of this web site on "Web Forward" event.
 36. [BUG FIX] Symptom & Condition: After period of time, the network traffic can not go through router.
 37. [BUG FIX] Symptom & Condition: If the IPSec rule's encryption algorithm is AES and key length is not 128, the router will crash when establishing the tunnel.
 38. [BUG FIX] Symptom: Connection sessions are full when user keeps PING to the router.
Condition: Connection sessions can not be deleted only when user ping to router.
 39. [BUG FIX] Symptom: Connection sessions do not be deleted whenever ICMP packets feedback.
Condition: If user does not turn on Firewall, ICMP sessions only can be deleted after timeout.
 40. [BUG FIX] Symptom & Condition: Fragmented packets can not go through router.
 41. [BUG FIX] Symptom & Condition: Can't save gateway IP address through eWC -> Wizard when WAN encapsulation is ethernet and fixed IP.
 42. [BUG FIX] Symptom & Condition: DNS Relay of LAN can't work.
 43. [BUG FIX] Symptom & Condition: Fix wrong cursor position in SMT 11.3 when encapsulation of WAN is PPTP or PPPoE.
 44. [FEATURE CHANGE] Remove help icon and link on eWC->Wizard error page.
 45. [BUG FIX] Symptom & Condition: Fix MAC clone IP address can't be saved in SMT menu 2 under console mode.
 46. [BUG FIX] Symptom: Radius server can't work on ZW2.
Condition: XAuth can't authenticate user's ID and PW through the Radius server.
 47. [BUG FIX] Symptom: Lose page link when change system password and apply default certificates on ZW2.
Condition:
 - 1). Modify default password and save it.
 - 2). Apply the factory default certificates to replace the default one with specific setting by MAC address.
 - 3). Can't find the next page.

Modifications in V 3.62(WK.0)b1 | 10/24/2003

48. [ENHANCEMENT] Add new feature: X-Auth as the authentication method in VPN IKE phase.
49. [ENHANCEMENT] Add new feature: PKI supported in VPN.

50. [ENHANCEMENT] Add new feature: Dial backup.
51. [ENHANCEMENT] Add new feature: SSH, SFTP and TLS.
52. [ENHANCEMENT] Add new feature: Support new encryption algorithm AES in IPSec.
53. [ENHANCEMENT] Add new feature: Support Cerberian content filer.
54. [ENHANCEMENT] Add two new categories "TCP Reset", "Packet Filter", "Remote Management", "CDR", "PPP", "Blocked Java etc.", "PKI" and "PKI" in Centralized Log.
55. [ENHANCEMENT] Separate DNS servers into system DNS servers & DNS servers assigned to LAN hosts. The system DNS servers are used by router and the DNS servers assigned to LAN hosts are for LAN hosts. There will be no embedded default DNS server for this design.
56. [ENHANCEMENT] Add UPnP "Ports" page to show the UPnP NAT ports.
57. [ENHANCEMENT] Add new feature: DNS Server for IPSec VPN. Please refer to Appendix 6 for detail.
58. [ENHANCEMENT] Add session manager to limit session number per host. Default setting is 100, user can modify this value with C/I command - "sys tos sessPerHost".
59. [ENHANCEMENT] Add NAT session limitation per host. Default setting is 100, user can modify this value with C/I command - "ip nat session".
60. [ENHANCEMENT] Add dynamic local and dynamic remote in IKE/IPSec. There are two CI commands, "ipsec config dynamicLocal" and "ipsec config dynamicRemote", to configure these two features.
 - 1). When dynamic local turns on, My IP Addr = 0.0.0.0, Local Addr Type = single, Local Addr Start = 0.0.0.0, ZyWALL will use WAN IP as local address.
 - 2). When dynamic remote turns on, secure GW = domain name, Remote Addr Type = single, Remote Addr Start = 0.0.0.0, ZyWALL will use IP resolved from peer domain name as remote address.
61. [ENHANCEMENT] Add more information in CI command "ipsec disp #rule". If the secure gateway of an IPSec rule is configured as domain name, this command will show both domain and actual IP resolved by system.
62. [ENHANCHMENT] Add new eWC firewall rules storage space utilization status bar in summary page.

Previous: We used firewall rule numbers to count the usage space, but the rule size is depended on content (like IP pairs and total service numbers). The rule size is different from rule to rule.

Now: We ignored the counter of firewall rules and just care of the remained size we can use.
63. [ENHANCEMENT] In the past, when My IP Address is configured as 0.0.0.0 in IPSec rule, system will use the WAN's IP address as my IP address during IKE. Now it will use the IP of dial backup as my IP address when the WAN is disconnected. In the case of traffic redirect, it will use LAN IP as my IP address.
64. [ENHANCEMENT] Add CI command "sys upnp reserve [0|1]"(default value is 0) to reserve UPnP NAT rules in flash after system boot up.
65. [ENHANCEMENT] Add Local ID Type, Local ID Content, Remote ID Type, and Remote ID Content check when using RSA signature in IKE.
 - 1). When using RSA signature, we can not set Local ID Type and Local ID content from UI. The Local ID Type and Local ID content depends on the certificate we select.
 - 2). When using RSA signature, we can set and check Remote ID Type and Remote

ID Content. There are two type added, one is "Subject Name" and the other is "Don't Care". The "Subject Name" means we will check peer ID content using peer's certificate subject name. And "Don't Care" means that we won't check peer's ID content when we receive it.

66. [FEATURE CHANGE] We change maximum Firewall custom port number from 10 to 30.
67. [BUG FIX] Symptom: ZyWall detects normal DNS answers of as UDP port scan attacks.
Condition: When router enables syslog service, the DNS reply packets to syslog server are sometimes detected as UDP port scan.
68. [BUG FIX] Symptom: Web connection through traffic redirect is blocked by Firewall.
Condition: When traffic redirect deploy on LAN IP alias and Firewall bypass triangle route, the TCP connection through traffic redirect is blocked and generate a log "Peer TCP state out of order, sent TCP RST". If user disables "Bypass Triangle Route", the symptom disappears.

Modifications in V 3.60(WK.3) | 9/26/2003

Modify for formal release.

Modifications in V 3.60(WK.3)b3 | 9/26/2003

1. [BUG FIX] Symptom: Packets to WAN will switch to LAN.
Condition: Sends packets from local PC to other machine through WAN. Some time later packets will switch to LAN port.

Modifications in V 3.60(WK.3)b2 | 9/24/2003

1. [BUG FIX] Symptom: Run ping plotter and it will show lots of packet lost errors.
Condition: User Ping Plotter in local PC, and connect router to Internet. Ping Plotter will show packet lost error during running the program.
2. [BUG FIX] Symptom: Router sends DNS query even mail server or sys log server is empty.
Condition: When sys log server or mail server is not given, system should not send DNS query but it did.

Modifications in V 3.60(WK.3)b1 | 8/22/2003

1. [FEATURE CHANGE] Do not check protocol and port information during IKE phase 1 negotiation.
2. [FEATURE CHANGE] In previous design in traffic redirect, system checks traffic in all ways periodically. Now router checks backup route only when WAN is disconnected.
3. [FEATURE CHANGE] In previous design in IKE, responder sends initial contact only when it receives initial contact notify from initiator. Now the responder sends initial contact notify to initiator when first contact with peer.

4. [FEATURE CHANGE] In the past, after phase 2 rekey, responder still use old phase 2 SA to transmit packets for a certain period and then started use the new phase 2 SA. Now responder will use new phase 2 SA after rekey immediately.
5. [FEATURE CHANGE] eWC→Firewall→Attack Alert: Change max incomplete TCP number from 10 to 30.
6. [BUG FIX] Symptom: Netmeeting causes system crashes.
7. [BUG FIX] Symptom: IPSec packets will use ZyWALL's LAN IP as source IP.
Condition:
 - (1) There is a full feature NAT rule to transferred WAN IP to a LAN IP.
 - (2) ZyWALL plays as RESPONDER.
 - (3) IPSec tunnel can be established successfully, however the source IP IPSec packet will become the LAN IP set in full feature NAT rule. As a result, the traffic cannot be transmitted.

Modifications in V 3.60(WK.2)c0 | 6/03/2003

Modifications in V 3.60(WK.2)b2 | 5/26/2003

1. [BUG FIXED] Symptom & Condition: CNM feature doesn't work, when we turn on CNM Encryption/Decryption.

Modifications in V 3.60(WK.2)b1 | 5/22/2003

2. [ENHANCEMENT] Enhance the WAN port configuration function so that user can configure the WAN port speed as Auto/10/100 Mbps and transmit mode as full or half duplex mode.
CI Command: "ether edit load 2"
"ether edit speed [*auto|100/full|100/half|10/full|10/half*]"
"ether edit save"
3. [BUG FIXED] Symptom: A special IPSec policy rule will make the ZyWALL can not establish the IPSec tunnel.
Condition: (1) The security gateway is 0.0.0.0
(2) The peer IP type is IP and the peer ID content is empty or "0.0.0.0";
(3) The ZyWALL can't establish the IPSec tunnel when the peer site dial in.
4. [BUG FIX] Symptom & Condition: Sometimes Enable/Disable traffic redirect when WAN encapsulation is PPPoE, system may crash.
5. [BUG FIX] Symptom & Condition: Under heavy traffic, firewall sometime has inexplicable crash.
6. [BUG FIX] 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.
7. [BUG FIX] Symptom & Condition: WAN connection will drop in case of using

PPTP for ADSL modem (Alcatel ANT1000, Alcatel SpeedTouch Home and Thomson SpeedTouch 510), especially if there is "high speed" on ADSL (512/256).

8. [BUG FIX] Symptom: After firmware upgrade, VPN rules cannot work.
Condition: After firmware upgraded from 3.60, the VPN rules cannot work anymore. The only solution is to save these rules again.

Modifications in V 3.60(WK.1)c0 | 4/19/2003

Modifications in V 3.60(WK.1)b4 | 4/14/2003

1. [BUG FIX] Symptom & Condition: When users change the WAN MAC from factory default to spoofing a specific computer's MAC, traffic can not pass through ZyWALL from LAN to WAN.

Modifications in V 3.60(WK.1)b3 | 4/2/2003

2. [BUG FIX] Symptom: Sometimes, IPSec re-key procedure failed.
Condition: Under the heavy traffic situation, sometimes IPSec re-key failed.
3. [BUG FIX] Symptom: Even though the IPSec policy is correct, the IKE phase 1 negotiation may failed.
Condition 1: When there are two IPSec policies with the same security gateway, ZyWALL sometimes can't create the second IPSec tunnel.
Condition 2: If ZyWALL didn't send the DEL packet to info the security gateway to delete the IPSec tunnel (for example power off the device, or PPPoE drops...etc.), ZyWALL can't re-create the tunnel.
4. [BUG FIX] Symptom: It's a compatibility problem with SonicWall.
Condition 1: Can't create the IPSec tunnel with a SonicWall security gateway, if the type of ID Content is FQDN.

Modifications in V 3.60(WK.1)b2 | 3/26/2003

5. [BUG FIX] Add eWC wizard telia service check – Check relogin value, WAN IP assignment and Telia login server should be domain name.
6. [BUG FIX] Symptom: Save Telia login service under static IP address assignment will show roadrunner error message.
Condition: Telia login only work when WAN IP is assigned with dynamic IP. If save this service with static IP, the error message is not correct.
7. [BUG FIX] Symptom: eWC can't save PSK with hexadecimal format that more than 32 characters.
Condition: Save PSK in hexadecimal format that more 32 characters, the PSK will be cut to 30 characters.

Modifications in V 3.60(WK.1)b1 | 3/14/2003

1. [BUG FIX] Symptom: A special case will make the ZyWALL device to reboot.
 - (1) Condition: (1) Configure an IPSec Rule.
 - (2) On the Logs Settings page, configure "Mail Server", "Mail Subject" and the mail address logs mails send to.
 - (3) Still on the Logs Settings page, select IPSec and IKE alert.
 - (4) Enter the CI command mode, and issue the CI command "ipsec dial #" to create the VPN tunnel.
 - (5) After seeing the message "Press any key to return....", press the Enter key.
 - (6) The ZyWALL crashes.
2. [BUG FIX] Symptom & Condition: On Firewall --- Rule Config, can't setup to log firewall logs.
3. [BUG FIX] The general user(not ZyWALL administrator), can directly retrieve ZyWALL rom file by using the rom-0 as the URL file, without password checking.
4. [ENHANCEMENT] Supports the hexadecimal format of IPSec Pre-Shared Key.
5. [ENHANCEMENT] Supports Telia login WAN access.
6. [ENHANCEMENT] Added a new CI commands to configure UDP port NAT timeout
CI command: "ip nat timeout udp [port] <seconds>". For more details, please refer to CI command lists

Modifications in V 3.60(WK.0)b9 | 2/21/2003

Modifications in V 3.60(WK.0)b9 | 2/21/2003

1. [BUG FIX] Symptom: VPN setting causes system reboot.
Condition: Step1. Build one VPN tunnel and set the secure gateway address by using IP address and establish the tunnel. Keep on pinging the client continuously
Step2. Change the secure gateway address setting from IP to DNS and apply.
2. [BUG FIX] Symptom: Status display ERROR.
Condition: When we change System/Time Zone to none by web, an internally ERROR 1 will be displayed in the Status-Line.
3. [BUG FIX] Symptom & Condition: In web, the page does not refresh when we change the time zone and apply.

Modifications in V 3.60(WK.0)b8 | 2/14/2003

1. [BUG FIX] Symptom & Condition: It's failed to restore default romfile by pressing reset button.
2. [BUG FIX] Symptom: System rebooted under heavy traffic.
Condition: When watchdog turns on (sys wdog sw on) and under heavy traffic, ZW will reboot.
3. [BUG FIX] Symptom & Condition: The maximum number of source addresses

or destination addresses in an ACL rule is 20. But users can set more than 20 addresses.

Modifications in V 3.60(WK.0)b7 | 1/23/2003

1. [FEATURE CHANGE] Enable eWC NAT Full-feature (add address mapping table).
2. [BUG FIX] Symptom & Condition: One special notebook PC(Dell Inspiron 8000) connect to ZyWALL's console port and none of terminal program open the console port. In this situation, the ZyWALL device boots fail.

Modifications in V 3.60(WK.0)b6 | 1/10/2003

1. [ENHANCEMENT] Add NAT traversal feature. This feature is supported only ESP tunnel and ESP transport when key management is IKE.
2. [ENHANCEMENT] Add the Full Feature NAT.
3. [FEATURE CHANGE] Message change from "Discard packet, the mac is not allowed. vlanTag=4" to "VPN1 discards packet, the mac is not allowed."
4. [FEATURE CHANGE] DHCP relay is not supported anymore.
5. [FEATURE CHANGE] The color of centralize Log GUI is defined. Black color is for normal log messages and red for alert log messages.
6. [BUG FIX] Symptom & Condition: While NAT is enabled, remote device can not access router's LAN IP through IPSec tunnel. In other words, remote management to the LAN IP over IPSec tunnel failed.
7. [BUG FIX] Symptom & Condition: When Traffic Redirect is active and change the WAN encapsulation to PPPoE or PPTP, and if idle time out the routing table will disorder.
8. [BUG FIX] Symptom & Condition: Removed wrong "DMZ" selection form all Remote Management pages.
9. [BUG FIX] Symptom & Condition: If the user didn't load IPSec rule first before executing IPSec configuration CI command, "ipsec config netbios active <yes|no>" or "ipsec config netbios group <...>", ZyWALL will crash.
10. [BUG FIX] Symptom: Can not change WAN MAC by web immediately:
Condition: While we change WAN MAC by web, the MAC ca not change immediately till device reboot. But it is OK while we change by SMT menu.
11. [BUG FIX] Symptom: Console led does not light:
Condition: Console led does not light while we login into SMT.
12. [BUG FIX] Symptom: Receving hotmail mail will cause system crash.
Condition: 1. Enable Block Cookies. 2. Receiving mail form hotmail causes system crash.
13. [BUG FIX] Symptom: System crashes when setting DHCP :
Condition: If we disable DHCP server and set a static DHCP entry, the ZyWALL crashes.
14. [BUG FIX] Symptom: The value for sys stdio can not be saved. :
Condition: Under CI command, we enter "sys stdio 0". The value becomes the default value after we relogin SMT.
15. [BUG FIX] Symptom: Traffic redirect check path is not up :
Condition: While WAN link is fine and the traffic redirect check point is failed, it

- spends long time to activate traffic redirect. Under the situation, the metric of the route for traffic redirect sometimes changes frequently.
16. [BUG FIX] Symptom: Switching Web is not smooth:
Condition: Sometimes we can not smoothly switch between VPN1/VPN2 in VPN page.
 17. [BUG FIX] Symptom: Traffic Redirect can't work on PPPoE connection.
Condition: If the WAN side has a successful PPPoE connection, and the ZyWALL device would not check the checked site and update to correct the routing table.
 18. [BUG FIX] Symptom: LAN LED light on, when setup the WAN.
Condition: Using the eWC to setup WAN or using SMT 2 to setup the WAN's MAC address. All Ethernet LEDs will light on.
 19. [BUG FIX] Symptom: Add, delete or refresh static route rule on SMT menu12 sometimes cause ZyWALL crash.
Condition: Sometimes our action on menu12 with static route rule setup will cause ZyWALL crash.
 20. [BUG FIX] Symptom: When "ipsec switch" is off, "ipsec dial" still works.
Condition: If user uses command "ipsec switch off" to turn off IPSec, "dial" still works.

Modifications in V 3.60(WK.0)b5 | 12/12/2002

1. [FEATURE ENHANCEMENT] show the reason of forward/block by content filter feature in the centralized log message.
2. [FEATURE CHANGE] Symptom & Condition: System reboot under heavy traffic if the watchdog mechanism is on.
3. [BUG FIXED] Symptom & Condition: The system crashes, if the user power off the PC which connect to the device's console port.
4. [BUG FIX] Symptom: Menu 24.6 Restore occur system reboot :
Condition: Menu 24.6 Restore Configuration is Failed and Device will Hang then key any key Occur system reboot !
5. [BUG FIX] Symptom: System reboot :
Condition: The ZW2 V3.60(WK.0)b2 /ZW2W V3.60(WJ.0)b2 system reboot occur The Step: Into Web; VPN Host ;VPN Hosts IP Address or MAC address, if you change IP or MAC and Apply the ZW will reboot!!
6. [BUG FIX] Symptom: The parsing string for keyword blocking is junk.
Condition: 1. Use CI command "ip urlfilter customize actionFlag act5 enable" to enable the full path check. 2. Use browser to access the URL that set in the keyword blocking, the packets will be still allowed to pass.
7. [BUG FIX] Symptom & Condition: The system crashes, if the user changes the console's baud rate and presses any key by using a different data rate.
8. [BUG FIX] Symptom & Condition: eWC→WAN IP has bugs when WAN→ISP is PPPoE or PPTP. Leaving some values in remote IP or remote mask for WAN→IP and then switch to dynamic IP, ZyWALL cannot dial anymore
9. [BUG FIX] Symptom: System hangs when syslog is active.
Condition: System hangs when syslog is active and syslog daemon on the remote server turns off.
10. [BUG FIX] Symptom & Condition: After setting a VPN rule and then save it, sometimes warning message "[-6100] Fail to lock read" shows on screen. But the

rule can be saved correctly and tunnel can be built successfully.

11. [BUG FIX] Symptom: The PPPOE or PPTP address can be set within the range of LAN subnet.

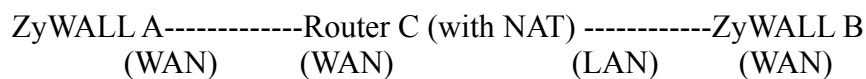
Condition: When using smt menu 4 or 11, choose the pppoe or pptp encapsulation, set the IP address within the range of LAN subnet and then save the configuration.

12. [BUG FIX] Symptom: Send email log will cause system to hang about 30 seconds.

Condition: 1. Email server address is written in domain name. 2. The WAN network link can not connect to Internet when applying email log setting.

13. [BUG FIX] Symptom: VPN tunnel can not be established if ZyWALL sets phase 1 ID type as IP and wants to negotiate with another side by passing through a router with NAT.

Condition: Take the figure below as the example:



If ZyWALL A wants to build a VPN tunnel with ZyWALL B by passing through Router C with NAT, A can not see B and will set secure gateway as C. In our implementation system will set peer ID content as secure gateway address if peer ID type is IP. So A's peer ID content is C's WAN IP if A's peer ID type is IP. In this case, A and B will never negotiate successfully. To avoid this situation, now user can set ID content when ID type is IP. In this case, A will check the ID content what B is configured. However, user can leave the ID content is blank when ID type is IP. Please refer to appendix for the detail setting and system behavior.

14. [BUG FIX] Symptom & Condition: During IKE phase 1 negotiation, if ZyWALL receives a Notify DEL payload, it may crash.

Modifications in V 3.60(WK.0)b4 | 12/3/2002

1. [BUG FIX] Symptom: HTP external test fail.

Condition: HTP test is failed in LAN and WAN external loopback test.

Modifications in V 3.60(WK.0)b3 | 11/29/2002

1. [BUG FIX] Symptom: Bootbase can not change baud rate.

Condition: Bootbase always use baud rate 9600 after the system starts or restarts. The baud rate which users set will take effect after RAS starts.

2. [BUG FIX] Symptom: Can not restore configuration by menu 24.6.

Condition: Menu 24.6 restore configuration is failed and device will hang then key any key occur system reboot.

3. [BUG FIX] Symptom: VPN page configuration causes system reboot.

Condition: Web -> VPN Host -> VPN host's IP address or Mac address. If you change IP and Apply, the ZW will reboot.

4. [BUG FIX] Symptom: While access <http://www.gamespy.com/articles/> and <http://groups.yahoo.com> system will crash.

Condition: System crashes when access <http://www.gamespy.com/articles/> or when survey/read the forums via <http://groups.yahoo.com>.

5. [BUG FIX] Heavy traffic causes system reboot.
Heavy traffic easily trigger watchdog to reset system.

Modifications in V 3.60(WK.0)b2 | 11/21/2002

1. First release.

Modifications in V 3.60(WK.0)b1 | 11/11/2002

2. [FEATURE CHANGE] HTP behavior is changed. Please refer to appendix 1
3. [BUG FIX] Ethernet external loop back test fail.

Appendix 1 Remote Management Enhancement (Add SNMP & DNS Control)

New function

- (1) You can change the server port.
- (2) You can set the security IP address for each type of server.
- (3) You can define the rule for server access. (WAN only/LAN only, None, ALL).
- (4) The secure IP and port of the SNMP server is read only
- (5) The port of the SNMP and DNS server is read only.
- (6) The default server access of the SNMP and DNS is ALL.

Modification

- (1) The default value for Server access rule is **ALL**.
- (2) Under the default setting: You can setup the Menu 15 to forwarding the server to LAN IP address. Thus you can configure the router through the WAN and you don't need to modify the server management or filter.

Menu 24.11 - Remote Management Control

TELNET Server:	Port = 23	Access = ALL
	Secured Client IP = 0.0.0.0	
FTP Server:	Port = 21	Access = ALL
	Secured Client IP = 0.0.0.0	
Web Server:	Port = 80	Access = ALL
	Secured Client IP = 0.0.0.0	
SNMP server:	Port = 161	Access = ALL
	Secured Client IP = 0.0.0.0	
DNS server:	Port = 53	Access = ALL
	Secured Client IP = 0.0.0.0	

Press ENTER to Confirm or ESC to Cancel:

Appendix 2 Trigger Port

Introduction

Some routers try to get around this "one port per customer" limitation by using "triggered" maps. Triggered maps work by having the router watch **outgoing** data for a specific port number and protocol. When the router finds a match, it remembers the IP address of the computer that sent the matching data. When the requested data wants to come back **in** through the firewall, the router uses the port mapping rules that are linked to the trigger, and the IP address of the computer that "pulled" the trigger, to get the data back to the proper computer.

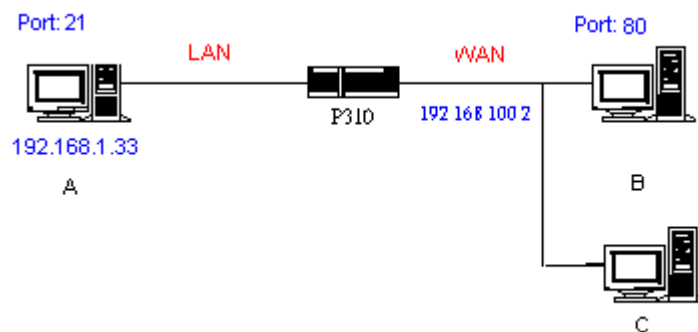
These triggered events can be timed so that they erase the port mapping as soon as they are done with the data transfer, so that the port mapping can be triggered by another Client computer. This gives the **illusion** that multiple computers can use the same port mapping at the same time, but the computers are really just taking turns using the mapping.

How to use it

Following table is a configuration table.

Name	Incoming	Trigger
Napster	6699	6699
Quicktime 4 Client	6970-32000	554
Real Audio	6970-7170	7070
User	1001-1100	1-100

How it works



For example, you are running a FTP Server on port 21 of machine A. And you may want this server accessible from the Internet without enabling NAT-based firewall. There are one Web Server on port 80 of machine B and another client C on the Internet.

- (1) As Prestige receives a packet from a local client A destined for the outside Internet machine B, it will check the destination port in the TCP/UDP header to see if it matches the setting in "Trigger Port" (80). If it matches, Prestige records the source IP of A (192.168.1.33) in its internal table.
- (2) Now client C (or client B) tries to access the FTP server in machine A. When Prestige to forward any un-requested traffic generated from Internet, it will first check the rules in port forwarding set. When no matches are found, it will then check the "Incoming Port". If it matches, Prestige will forward the packet to the recorded IP address in the internal table for this port. (This behavior is the same as

we did for port forwarding.)

- (3) The recorded IP in the internal table will be cleared if machine A disconnect from the sessions that matches the "Trigger Port".

Notes

- (1) Trigger events can't happen on data coming from ***outside*** the firewall because the NAT router's sharing function doesn't work in that direction.
- (2) Only one computer can use a port or port range at a time on a given real (ISP assigned) IP address.

Appendix 3 Hard-coded packet filter for "NetBIOS over TCP/IP" (NBT)

The new set C/I commands is under "sys filter netbios" sub-command. Default values of any direction are "Forward", and trigger dial is "Disabled".

There are two CI commands:

(1) "sys filter netbios disp": It will display the current filter mode.

Example output:

```
===== NetBIOS Filter Status =====  
LAN to WAN:          Block  
WAN to LAN:          Forward  
IPSec Packets:       Forward  
Trigger Dial:        Disabled
```

(2) "sys filter netbios config <type> {on|off}": To configure the filter mode for each type.

Current filter types and their description are:

Type	Description	Default mode
0	LAN to WAN	Forward
1	WAN to LAN	Forward
6	IPSec pass through	Forward
7	Trigger dial	Disabled

Example commands:

sys filter netbios config 0 on => block LAN to WAN NBT packets

sys filter netbios config 1 on => block WAN to LAN NBT packets

sys filter netbios config 6 on => block IPSec NBT packets

sys filter netbios config 7 off => disable trigger dial

Appendix 4 Traffic Redirect/Static Route Application Note

Why traffic redirect/static route be blocked by ZyWALL

ZyWALL is the ideal secure gateway for all data passing between the Internet and the LAN. For some reasons (load balance or backup line), users want traffics be re-routed to another Internet access devices while still be protected by ZyWALL. The network topology is the most important issue. Here is the common example that people misemploy the LAN traffic redirect and static route.

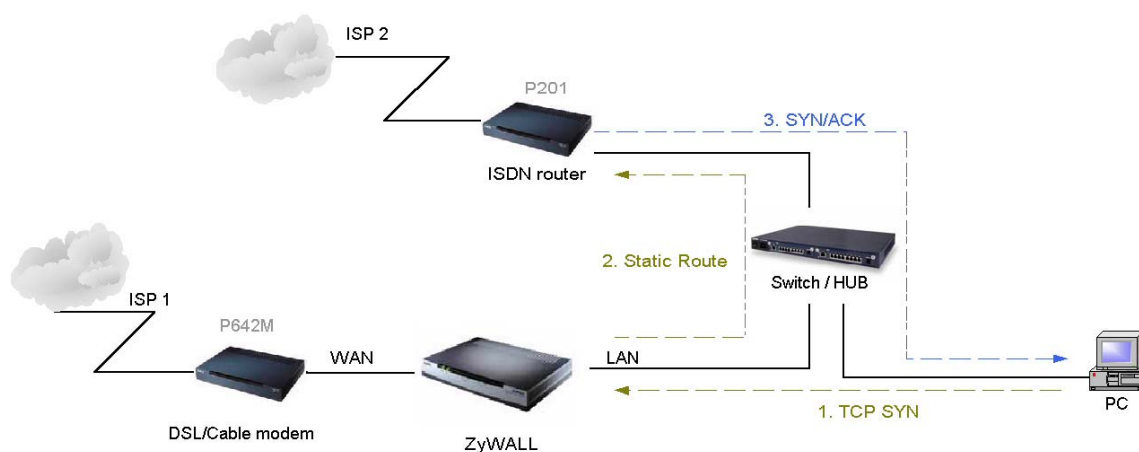


Figure 4-1 Triangle Route

Figure 5-1 indicates the triangle route topology. It works fine with turn off firewall. Let's take a look into the perspective toward this situation.

- Step 1. PC sends outgoing traffics through ZyWALL because default gateway assigned to it.
- Step 2. Then, ZyWALL will redirect the traffics to another gateway (ISDN/Router) as we expect.
- Step 3. But the return traffics do not go through ZyWALL because the gateway (say, P201) and the PC are on the same IP network. **Any traffic will easily inject into the protected network area through the unprotected gateway.**
- Step 4. When firewall turns on, it could be worse. ZyWALL will check the outgoing traffics by ACL and create dynamic sessions to allow legal return traffics. For Anti-DoS reason, ZyWALL will send RST packets to the PC and the peer because it never received TCP SYN/ACK packet.

That causes all of outgoing TCP traffics being reset!

How traffic redirect/static route works under protection - Solutions

(1) Gateway on alias IP network

IP alias allows you to partition a physical network into different logical IP networks over the same Ethernet interface. The ZyWALL supports three logical LAN interfaces via its single physical Ethernet interface with the ZyWALL itself as the gateway for each LAN network. Division of protected LAN and the other gateway into different subnets will trigger the incoming traffic back to ZyWALL and it can work as normal function.

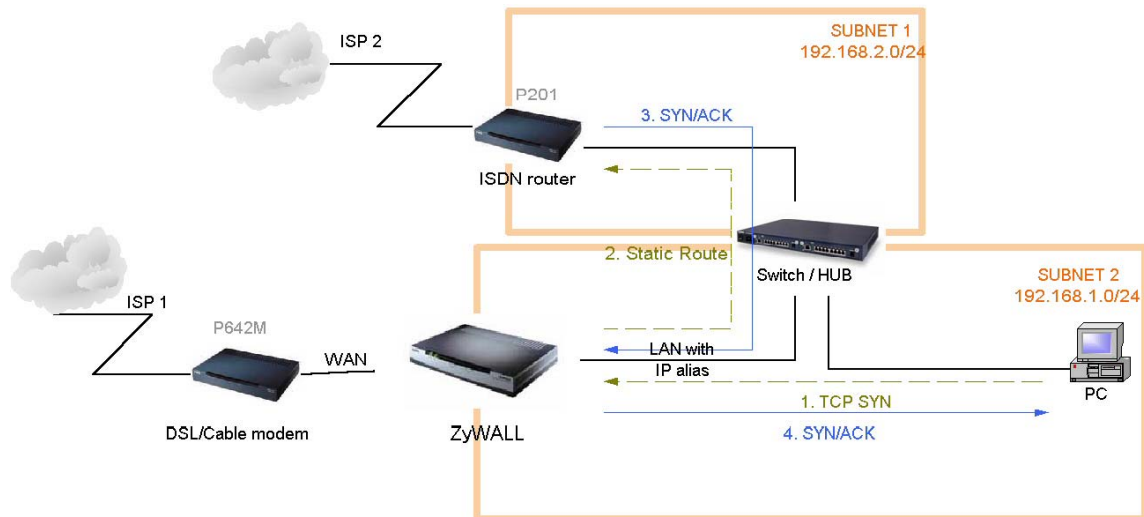


Figure 4-2 Gateway on alias IP network

(2) Gateway on WAN side

A working topology is suggested as below.

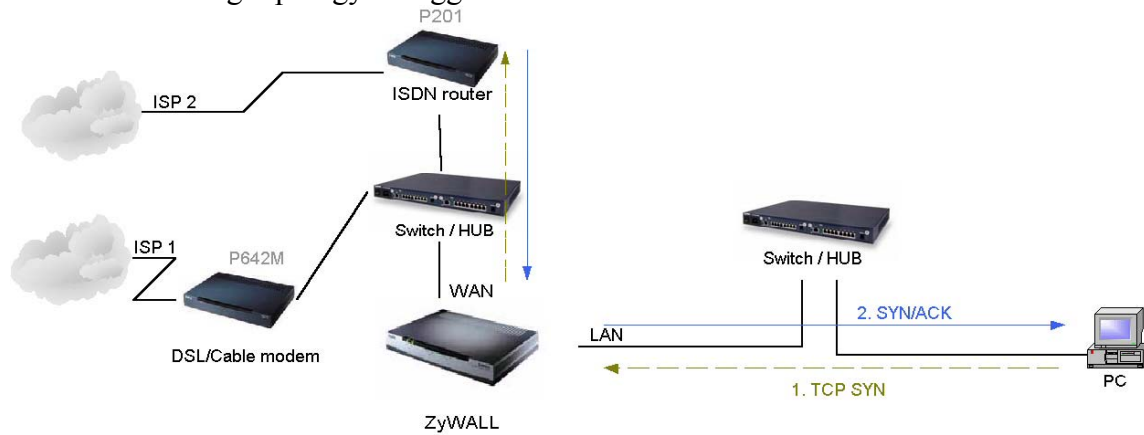


Figure 4-3 Gateway on WAN side

Appendix 5 IPSec FQDN support

ZyWALL A-----Router C (with NAT) -----ZyWALL B
 (WAN) (WAN) (LAN) (WAN)

If ZyWALL A wants to build a VPN tunnel with ZyWALL B by passing through Router C with NAT, A can not see B. It has to secure gateway as C. However, ZyWALL B will send it packet with its own IP and its ID to ZyWALL A. The IP will be NATed by Router C, but the ID will remain as ZyWALL B sent.

In FQDN design, all three types, IP, DNS, E-Mail, can set ID content. For ID type is DNS or E-mail, the behavior is simple. ZyWALL A and ZyWALL B only checks the ID contents are consistent and they can connect.

Basically the story is the same when ID type is IP. If user configures ID content, then ZyWALL will use it as a check. So the ID content also has to match each other. For example, ID type and ID content of incoming packets must match “Peer ID Type” and “Peer ID content”. Or ZyWALL will reject the connection.

However, user can leave “ID content” blank if the ID type is IP. ZyWALL will put proper value in it during IKE negotiation. This appendix describes all combinations and behaviors of ZyWALL.

We can put all combinations in to these two tables:

(Local ID Type is IP):

Configuration		**Run-time status	
My IP Addr	Local ID Content	My IP Addr	Local ID Content
0.0.0.0	*blank or 0.0.0.0	My WAN IP	My WAN IP
0.0.0.0	a.b.c.d (NOT 0.0.0.0)	My WAN IP	a.b.c.d
a.b.c.d (not 0.0.0.0)	*blank or 0.0.0.0	a.b.c.d	a.b.c.d
a.b.c.d (not 0.0.0.0)	e.f.g.h (NOT 0.0.0.0)	a.b.c.d	e.f.g.h

*Blank: User can leave this field as empty, doesn't put anything here.

**Runtime status: During IKE negotiation, ZyWALL will use “My IP Addr” field as source IP of IKE packets, and put “Local ID Content” in the ID payload.

(Peer ID Type is IP):

Configuration		*Run-time check
Secure Gateway Addr	Peer ID Content	
0.0.0.0	Blank or 0.0.0.0	Just check ID types of incoming packet and machine's peer ID type. If the peer's ID is

		IP, then we accept it.
0.0.0.0	a.b.c.d (NOT 0.0.0.0)	System checks both type and content
a.b.c.d	Blank	1. System will check the ID type and the content. 2. The contents will match only if the ID content of coming packet is a.b.c.d because system will put Secure Gateway Address as Peer ID content.
a.b.c.d	e.f.g.h	1. System will check the ID type and the content. 2. The contents will match only if the ID content of coming packet is e.f.g.h.

*Runtime Check: During IKE negotiation, we will check ID of incoming packet and see if it matches our setting of “Peer ID Type” and “Peer ID Content”.

Summary:

1. When Local ID Content is blank or 0.0.0.0, during IKE negotiation, my ID content will be “My IP Addr” (if it’s not 0.0.0.0) or local’s WAN IP.
2. When “Peer ID Content” is not blank or 0.0.0.0, ID of incoming packet has to match our setting. Or the connection request will be rejected.
3. When “Secure Gateway IP Addr” is 0.0.0.0 and “Peer ID Content” is blank or 0.0.0.0, system can only check ID type. This is a kind of “dynamic rule” which means it accepts incoming request from any IP, and these requests’ ID type is IP. So if user put such a kind of rule in top of rule list, it may be matched first. To avoid this problem, we will enhance it in the future.

Appendix 6 DNS servers for IPSec VPN Note

DNS Domain Names

DNS (Domain Name System), a system for naming computers and network services that is organized into hierarchy of domain. DNS services provided by the DNS server can resolve the name to other information associated with the name, such as an IP address. The ZyWALL can be configured as a DHCP server. For most cases, your computer connected to the LAN of the ZyWALL can get IP settings (IP address, network mask, gateway address and DNS server address) from the ZyWALL DHCP server automatically.

There are three ways the ZyWALL's DHCP server assigns DNS servers addressed to its DHCP client computers.

- (1) If the administrator has setup DNS servers on the ZyWALL's DHCP setting, the ZyWALL will tell the client those DNS server addresses.
- (2) If the DNS server has not been setup on the ZyWALL DHCP server, but the ZyWALL has gotten the public DNS servers from the ISP; the ZyWALL will assign those public DNS servers address.
- (3) The ZyWALL gives its own LAN IP address and acts as a DNS server proxy.

But the above are not enough for IPSec VPN applications.

How to access the private network by using domain names

On the IPSec VPN application, the user on the LAN of the ZyWALL, wants to access remote private networks. He must use the IP address to identify the remote site he wants to access. But at the modern intranet applications, we still want to have the DNS service for private network access. For example, there is a private Web server installed at the headquarters of your company. You can access this Web server inside your company, or from your home by way of the ZyWALL's IPSec tunnel. The IP address of the private Web server is also private. You can't use the Internet public DNS servers to resolve those domain names that belong to your company's private network. You must setup those private DNS servers on your computer manually if you want to access the private network by using domain names.

ZyWALL DNS Servers for IPSec VPN

The ZyWALL has added DNS Server on each IPSec policy setup. When you setup the IPSec rule, you can give the DNS server if there exists a DNS Server that provides DNS service for this private network. The DHCP client (on ZyWALL's LAN) requests the IP information from your ZyWALL, the ZyWALL assigns additional DNS servers for IPSec VPN to the client, if the assigned IP address belongs to the range of local addresses of the IPSec rule.

Annex A CI Command List

Command Class List Table		
System Related Command	Exit Command	Ethernet Related Command
IP Related Command	IPSec Related Command	Firewall Related Command

System Related Command				Home
Command				Description
sys				
	adjtime			retrive date and time from Internet
		display		display cbuf static
	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> <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
	hostname		[hostname]	display system hostname
	logs			
		category		
			access [0:none/1:log]	record the access control logs
			attack [0:none/1:log/2:alert/3:both]	record and alert the firewall attack logs
			display	display the category setting
			error [0:none/1:log/2:alert/3:both]	record and alert the system error logs
			ipsec [0:none/1:log]	record the access control logs
			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:non	mail schedule policy

			e]	
			schedule week [0:sun/1:mon/2:tue/3:wed/4:thu/5:fri/6:sat]	weekly time to send the logs
			server [domainName/IP]	mail server to send the logs
			subject [mail subject]	mail subject
		save		save the log setting buffer
		syslog		
			active [0:no/1:yes]	active to enable unix syslog
			display	display syslog setting
			facility [Local ID(1-7)]	log the messages to different files
			server [domainName/IP]	syslog server to send the logs
	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
	stdio		[second]	change terminal timeout value
	time		[hour [min [sec]]]	display/set system time
	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
	socket			display system socket information
	filter			
		netbios		
	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
	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
--	--	------	--	-----------------------

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
		ioctl	<ch_name>	Useless in this stage.
		status	<ch_name>	see LAN status
	version			see ethernet device type
	edit			
		load	<ether no.>	load ether data from spt
		mtu	<value>	set ether data mtu
		speed	[auto 100/full 100/half 10/full 10/half]	change Ethernet speed
		save		save ether data to spt

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
		attpret	<on/off>	switch to avoid IP spoofing ARP attack
	dhcp		<iface>	
		client		
			release	release DHCP client IP
			renew	renew DHCP client IP
		status	[option]	show dhcp status
	dns			
		query		
		stats		
		system		
			edit	edit system DNS status
			display	show system DNS status
		lan		
			edit	edit LAN DNS status
			display	show LAN DNS status
			clear	clear dns statistics
			disp	display dns statistics
		default	<ip>	Set default DNS server
	httpd			
		debug	[on/off]	set http debug flag
	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.
	udp			
		status		display udp status
	rip			
	tcp			
		status	[tcb] [<interval>	display TCP statistic counters
	telnet		<host> [port]	execute telnet clinet command
	tftp			
	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			
		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 [act(1-6)][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
	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

	rpt			
		start		start report
		stop		stop report
		url	[num]	top url hit list
		ip	[num]	top ip addr list
		srv	[num]	top service port list
	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
		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 minuets
				- 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 #
	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
		active	<Yes No>	Set active or not
		keyAlive	<Yes No>	Set keep alive or not
		natTraversal	<Yes No>	Enable NAT traversal or not.
		lclDType	<0:IP 1:DNS 2:Email>	Set local ID type
		lclDContent	<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 anitreplay 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
		name	<string>	Set rule name

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