



Firmware Release Note

P-334WT

Release 3.60(JN.9)C0

Date:	Jan 02, 2006
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ZyXEL P-334WT Standard Version release 3.60(JN.9)C0 Release Note

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Supported Platforms:

ZyXEL P-334WT

Versions:

ZyNOS Version: V3.60(JN.9) | 01/02/2006 09:35:50

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

Notes:

1. This version supports quick route and enabled by default.
2. If Wireless Port Control (SMT Menu 23.4) is "Authentication Required", P334WT will enable 802.1x/WPA/WPA-PSK user authentication mechanism, a wireless user must login the P334WT successfully before accessing network service. If Wireless Port Control is "No Authentication Required", P334WT will allow all wireless users to access network service. If Wireless Port Control is "No Access Allowed", P334WT will not allow wireless user to access network service.
3. The first entry of static route is reserved for system and read-only for users.
4. External Help Pages.
5. MSN Video ALG only support with MSN 7.0 above and the default port(1863) should not be changed.
6. Bit Torrent ALG support following tools: BitComet 0.58, BitSpirit v3.1.0, BitLord 1.1, G3 Torrent v0.9999, Aeureus 2.3.0.4, BitTornado T-0.3.12
7. Support MAP version: 1.0.20.61.02b1

Known Issues:

1. The device fails to add a firewall ACL rule for NAT server set #12 automatically.
2. Allow NetBIOS traffic between WAN & LAN doesn't work when Firewall is enabled.
3. Computers using Any IP need clear ARP table to access network after P334WT reboot.
4. Into SMT 21.1.1.1 TCP/IP Filter rule, save source and destination IP address then back to configure again would show the error message and can not save.
5. Using FTP to upgrade F/W may cause system hang sometimes and need to reboot by manual.

6. Interoperability problem with Netgear stations MA401 and MA111 when configured in short preamble. For this issue, user must change to long preamble.
7. The Trend Micro Security Services Web page may not appear if you are using instant messaging software other than MSN Messenger (for example, ICQ) or you have installed software that blocks popup browser windows (for example, the Google toolbar or Windows XP Service Pack 2). User must either diable the SP2 pop-up blocker temporary or type the <http://tmss.trendmicro.com/dashboard> to access the TMSS Dashboard installation process manually. Once the TMSS ActiveX control been installed, user can easily access the Dashboard by either clicking the IE toolbar TMSS icon or launch the "Trend Micro Security Services" from the Start menu.
8. Enable traffic redirect under PPTP encapsulation and DHCP set none, traffic go out via traffic redirect but not via WAN.
9. Even though trigger port rule is removed, these rule still work until time out..

CI Command List:

Features:

Modification in 3.60(JN.9)C0 | 01/02/2006

1. Change 3.60(JN.9)b4 to 3.60(JN.9)C0 FCS version.

Modification in 3.60(JN.9)b4 | 12/13/2005

1. [BUG FIXED]
SPR: 051125651
Symptom: GIU/ Management/ Static Route/ Can't add subnet mask as 255.255.255.255
Condition: GIU/ Management/ Static Route/ Can't add subnet mask as 255.255.255.255

Modification in 3.60(JN.9)b3 | 12/12/2005

1. [FEATURE ENHANCED]
Symptom: Add log message for MSN messenger blocking
Condition:
Need to enable "Access control" item in Log Settings page for this feature
2. [FEATURE ENHANCED]
Symptom: Add confirmed password for user information in parent control page in TMSS section
3. [BUG FIXED]
SPR: 051206437
Symptom: Command line to spoof the WAN MAC address display error.
Condition: Command line to spoof the WAN MAC address, as shown below. When entered the MAC address directly. The display shows "SpoofMAC type = IP address attached to LAN".

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P-334WT> ether spoofmac macdir

Usage: macdir <xx:xx:xx:xx:xx:xx>

P-334WT> ether spoofmac macdir 00:50:DA:19:89:0E

P-334WT> ether spoofmac disp

SpoofMAC type = IP address attached on LAN IP = 192.168.1.33

The information shown in the web interface is correct; i.e., "Set WAN MAC Address" is enabled.

4. [BUG FIXED]

SPR: 051206436

Symptom: Running a port scan at grc.com or broadbandreports.com causes the unit to reboot.

Condition: Running a port scan at grc.com or broadbandreports.com causes the unit to reboot.

5. [BUG FIXED]

SPR: 051109649

Symptom: WPA-PSK stress test

Condition: WPA-PSK stress test: We prepare 16 wireless clients to associate to AP, then every wireless client use FTP application to access the server that is behind the wired LAN. We can associate to AP again after overnight, but DUT will send error message continuous on SMT.

Modification in 3.60(JN.9)b2 | 11/23/2005

1. [FEATURE ENHANCED]

Symptom: Multi-language GUI support

2. [FEATURE ENHANCED]

Symptom: Erase all MBM rule and disable MBM when update firmware from old version.

3. [BUG FIXED]

SPR: 051109640

Symptom: WEP wording in SMT 3.5

Condition: WEP wording in SMT 3.5: If we select 64 WEP in SMT 3.5 and we just fill in 3 characters(ASCII), then the SMT will show the below description.

"Please enter 5 characters or 10 hexadecimal digits preceded by '0x'"

Please type 5 characters or 5 hex bytes after '0x'"

Please help to synchronize the hex number.

4. [BUG FIXED]

SPR: 051109641

Symptom: Subnet mask

Condition: Subnet mask:

1. We config LAN IP: 192.168.1.1 and subnet mask: 255.255.248.0. After we keyin subnet and move cursor to LAN IP field, then the system show message "Subnet Mask error".

2.Or we enter subnet mask 255.255.255.254, ten move cursor to LAN IP field, no warning message popped out.

5. [BUG FIXED]

SPR: 051109642

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- Symptom: SSID
Condition: SSID: If we config the SSID as 32 characters
"12345678901234567890123456789012",
then field "Name(SSID):" of the GUI's system status page will show
"123456789012345678901234567890122000-1-1/0:22:18 "
6. [BUG FIXED]
SPR: 051109648
Symptom: Fragmentation threshold
Condition: Fragmentation threshold: We Enable WMM QoS and change the threshold="1001", then wireless clients can not associate AP and show message
"wcfglib: Failed to initialize the driver
TIFUNC: 282
ti1130_DriverInit : failed in tiap_wcfg_configure_driver"
7. [BUG FIXED]
SPR: 051109666
Symptom: At last page of wizard, the link of "Go to Bandwidth Management wizard(optional)" display "Can't find the web site"
Condition: At last page of wizard, the link of "Go to Bandwidth Management wizard(optional)" display "Can't find the web site"
8. [BUG FIXED]
SPR: 051109667
Symptom: "NAT enhancement for game server search." will cause DUT reboot.
Condition: Run the GameSpy to search the on-line game servers about 2 minutes, DUT occur exception. See attached file.
9. [BUG FIXED]
SPR: 051111871
Symptom: The word spell error in GUI/ TMSS/ Parental Control/ Parent Control Policy/ Control Mode= Use General Control/ Edit Category/ Profile= "Cutom".
Condition: The word spell error in GUI/ TMSS/ Parental Control/ Parent Control Policy/ Control Mode= Use General Control/ Edit Category/ Profile= "Cutom".
10. [BUG FIXED]
SPR: 051111872
Symptom: The functions of TMSS/ Parental Control/ Restrict Features/ ActiveX, Java, Cookies and Web Proxy can't work.
Condition: The functions of TMSS/ Parental Control/ Restrict Features/ ActiveX, Java, Cookies and Web Proxy can't work.
11. [BUG FIXED]
SPR: 051111874
Symptom: DUT can't get IP from ISP when run the advanced first and than run wizard.
Condition: 1. In GUI/ Anvanced to setup Encapsulation= Ethernet
2. let it connect to Internet
3. go to wizard to run again
4. auto detect Encapsulation= Ethernet
5. DUT can't get IP from ISP

Modification in 3.60(JN.9)b1 | 11/05/2005

1. [FEATURE ENHANCED]
Symptom: Support ConeNAT. Default coneNAT type is "Restricted ConeNAT".
See [Appendix 1](#)
2. [FEATURE ENHANCED]
Symptom: Support auto traffic classifier at media bandwidth management. See [Appendix 2](#)
3. [FEATURE ENHANCED]
Symptom: NAT enhancement for game server search. See [Appendix 3](#)
4. [FEATURE ENHANCED]
Symptom: Add BitTorrent service at media bandwidth management.
5. [FEATURE ENHANCED]
Symptom: Support TMSS v1.1 and port isolation. See [Appendix 4](#)
6. [FEATURE ENHANCED]
Symptom: Support WLAN IntraBss blocking functionality
7. [FEATURE ENHANCED]
Symptom: MAC Spoofing enhancement: WAN's MAC address can be assigned directly
8. [FEATURE ENHANCED]
Symptom: Add MSN video service at media bandwidth management.
9. [FEATURE ENHANCED]
Symptom: MSN messenger service can be blocked at firewall.
10. [BUG FIXED]
Symptom: Multi trigger port rule can't work fine
11. [BUG FIXED]
SPR: 050902038
Symptom: DUT reboot when access from LAN by typing source URL address.
Condition: DUT reboot when access from LAN by typing in
"http://192.168.1.1/Forms/rpAuth_1?ZyXEL%20ZyWALL%20Series%3cscript%3etop.location.pathname=%20%22%22%3c/script" as the url in IE
12. [BUG FIXED]
SPR: 050902041
Symptom: DUT crashes when press "Enter" in SMT menu 24.7.1 and 24.7.2
Condition: DUT crashes when press "Enter" in SMT menu 24.7.1 and 24.7.2
13. [BUG FIXED]
SPR: 050902055
Symptom: Update the wrong configuration file (Word, Rom-t or Excel) from manu24.6 will cause device exception
Condition: Update the wrong configuration file (Word, Rom-t or Excel) from manu24.6 will cause device exception
14. [BUG FIXED]
SPR: 050902058
Symptom: SMT will show two prompt"Please enter 0-9,a-z,A-Z,' ','-'.
Condition: Step1:Enter System name:1234
Step2:Enter Domain name:#
Step3:The SMT will show two prompt"Please enter 0-9,a-z,A-Z,' ','-'.

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15. [BUG FIXED]
SPR: 050902067
Symptom: type 'Yahoo' as the keyword in GUI, content filter; "www.yahoo.com" is not blocked
Condition: type 'Yahoo' as the keyword in GUI, content filter; "www.yahoo.com" is not blocked.
16. [BUG FIXED]
SPR: 050902070
Symptom: log serial number error
Condition: log serial number error
in menu24.8, type in "sys log err dis", you'll find that the serial numbers are not continuous. It seems that some logs are missing
17. [BUG FIXED]
SPR: 050902073
Symptom: menu1 sys name accept " 、 " and "@"
Condition: menu1 sys name accept " 、 " and "@"
18. [BUG FIXED]
SPR: 050930700
Symptom: When attached WAN line, PPPoE dynamic connection can't be built successfully via Wizard.
Condition: PC ----- (L)P-334WT(W) ----- ADSL modem
1. Connect WAN line to ADSL modem.
2. Restore default Rom.
3. Open Web to 192.168.1.1 (Device IP)
4. Edit Web/Go Wizard setup/Apply/Connection Wizard
5. Press Next to set Wireless LAN / Security = None /Next/set "Do you want to enable OTIST" = No
6. Continue do Wizard setup to Internet Configuration page
7. Connection Type = PPP over Ethernet/User name = test/Password=1234/Next/Get automatically from your ISP/Next
8. WAN MAC address/Choose "Factory default"/Next/Apply/Finish
9. Reboot DUT.
10. Check Web/Network/WAN, the Encapsulation= Ethernet, it should be PPPoE type.

Modification in 3.60(JN.8)C0 | 10/05/2005

2. Change 3.60(JN.8)b1 to 3.60(JN.8)C0 FCS version.

Modification in 3.60(JN.8)b1 | 09/26/2005

1. [BUG FIXED]
Symptom: MBM downloads are seriously affected by simultaneous uploads traffic.
Condition: Enable MBM, doing FTP download and inject heavy upload traffic will cause FTP download almost stop.
2. [BUG FIXED]
Symptom: Device learns wrong ARP rule and cause LAN work fail.
Condition:

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- 1) Device connect to Internet via PPPoE Server
- 2) Device DHCP Server automatic assign one IP Address for client in LAN side.
- 3) Client gets IP Address 192.168.1.2 from device.
- 4) Device shows arp status 192.168.1.2 be enif0 (LAN side)
- 5) Client can connect to Internet
- 6) Set one WAN side PC's IP as the same as client's IP (192.168.1.2)
- 7) WAN side PC ping 192.168.1.1 (Device's LAN IP)
- 8) Device shows that arp status 192.168.1.2 be enif1
- 9) LAN side client can't access to Internet.

Modification in 3.60(JN.7)C0 | 07/25/2005

1. Change 3.60(JN.6)b5 to 3.60(JN.7)C0 FCS version.

Modification in 3.60(JN.6)b4 | 07/12/2005

1. [BUG FIXED]
SPR: 050708499
Symptom: Traceroute will fail under Linux O.S
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

Modification in 3.60(JN.6)b3 | 07/04/2005

1. [BUG FIXED]
SPR: 050627332
Symptom: Some filed is dropped by upgrade firmware
Condition:
 - 1).Upgrade from version 3.60(JN.4) to version 3.60(JN.6)b2
 - 2).The Authentication Server IP Address and Shared Secret, and the Accounting Server IP Address and Shared Secret were dropped.
 - 3).The fields were empty after the upgrade
2. [BUG FIXED]
SPR: 050602130
Symptom: Device will show error message on UI.
Condition: Press two times of Apply button when setting WLAN OTIST page, device will display error message on UI.
3. [BUG FIXED]
Symptom: Device didn't use user-defined server to sync correct time.
Condition: Input a NTP server address and save it at eWC, then check information at Logs page will see device use default built-in server to get current time.
4. [BUG FIXED]
SPR: 050627330
Symptom: Host can't login DUT GUI after another host logout.
5. [BUG FIXED]
SPR: 050620783

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Symptom: Filter function shows wrong information.

Condition:

1). Execute connection wizard at eWC.

2). Then go to SMT menu 11.5 will see wrong filter settings as 1,1,1,1

6. [BUG FIXED]

SPR: 050627334

Symptom: WLAN status Encryption is not consist with WLAN setting.

Condition: Change "Encryption" to "Security mode" on Status page.

7. [FEATURE ENHANCED]

SPR: 050627335

Symptom: The information is not clearly at Password Page.

Condition: Change as "Please turn on the Javascript and ActiveX control setting on Internet Explorer when operating system is Windows XP and service pack is SP2".

8. [FEATURE ENHANCED]

SPR: 050627336

Symptom: Change word to capital in the opening sentence at "Please select Wizard or Advanced mode".

9. [FEATURE CHANGED]

SPR: 050627333, 050627339

Symptom: Remove firewall note on Remote Management screens.

10. [FEATURE ENHANCED]

SPR: 050627344

Symptom: Change the sentence as following on Network/Wireless LAN/OTIST: "Yes! Please enhance the Wireless Security Level to WPA-PSK automatically if no WLAN security has been set. This will generate a random PSK key for your convenience"

Condition: Only change on English version.

11. [FEATURE ENHANCED]

SPR: 050627337

Symptom: "connection wizard" should be capitalized in the opening sentence for consistency.

12. [FEATURE ENHANCED]

SPR: 050627338

Symptom: Sentence on OTIST Wizard Page is not correct. "This key should not be the same as the router password the password you use to log in to your ISP".

Condition: This sentence is un-necessary, remove it.

Modification in 3.60(JN.6)b2 | 06/14/2005

1. [BUG FIXED]

SPR: 050602123, 050602124

Symptom: WPA2 mixed mode can't work fine with Centrino 2200BG.

Condition:

1). Setup WPA2 mixed mode environment (re-authentication timer=120seconds, update group key timer=60 seconds)

2). Use two wireless STA (G-162, Centrino 2200BG) to associate to P-33WT

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- 3). If Centrino use WPA2 to associate to P-334WT, then Centrino can not pass authentication process after 120 seconds. (But we click the re-connect, then Centrino can associate to it)
- 4). If Centrino use WPA to associate to P-334WT, then Centrino will reconnect to P-334WT after 240 seconds.
2. [BUG FIXED]
SPR: 050607393
Symptom: STA will disconnect under stress test.
Condition:
 - 1). Setup WPA2_PSK mixed mode in AP.
 - 2). prepare 7 wireless STA (Centrino B, Centrino B/G, Sonoma A/B/G, D-link DWL G-122, G-220, NEC G-100, G-162) to associate to P-334WT.
 - 3). P-334WT show "Recovery: Full time medium usage" after overnight stress testing.
3. [BUG FIXED]
SPR: 050602132
Symptom: Cisco AIR-CB21AG-W-K9 throughput test unstable.
4. [BUG FIXED]
SPR: 050602122
Symptom: WPA mode can't work fine
Condition: Setup WPA_PSK, then change to WPA and modify RADIUS IP and shared secret key. STA can't connect to device unless reboot the device.
5. [BUG FIXED]
SPR: 050603181
Symptom: Configure QoS page cause device crash.
Condition: Configure name to 8 characters for two rules, device will crash.
6. [BUG FIXED]
SPR: 050606291
Symptom: Device exception when setup VPN manual mode.
Condition: When change VPN IKE to Manual mode and try to establish the tunnel, device will crash.
7. [BUG FIXED]
SPR: 050607397
Symptom: Parental Control should be disabled when user doesn't get the license.
8. [BUG FIXED]
SPR: 050607398
Symptom: Parental Control can't work fine when select match categories.
9. [BUG FIXED]
SPR: 050609480
Symptom: System time can't sync with Time Server when enable daylight saving.
10. [BUG FIXED]
SPR: 050531904
Symptom: SMT menu will show some garbage.
Condition:
 - 1). In menu3.2: setting DHCP type= Server, Third DNS Server= User-Defined
 - 2). then change the DHCP type to Relay or None, the line of Third DNS Server still

keep some characters "ned".

Modification in 3.60(JN.6)b1 | 05/29/2005

1. [FEATURE ENHANCED]
Symptom: Support WiFi WPA2
2. [FEATURE ENHANCED]
Symptom: Support WiFi WMM
3. [FEATURE ENHANCED]
Symptom: Support new GUI
4. [FEATURE ENHANCED]
Symptom: Changing the format of daylight saving to correspond with the popular configuration.
Condition:
 old config: start month - day
 end month - day
 new config: start month - nth week - weekday - hour
 end month - nth week - weekday - hour
5. [BUG FIXED]
SPR: 050121234
Symptom: P334WT deployment issue.
Condition:
Step1: PC1----P334WT----ZW5----P334----PC2(P334 & P334WT are under LAN side of ZW5)
Step2: PC2----P334WT----ZW5----P334----PC1(P334 & P334WT are under LAN side of ZW5)
After change step1 to step2, PC1 and PC2 can reach ZyWALL 5, but can't ping each other.
6. [BUG FIXED]
SPR: 040923929
Symptom: In SMT menu 1, DNS server has unnecessary selection item: Private DNS.
7. [BUG FIXED]
SPR: 050202082
Symptom: Subnet mask error.
Condition:
 a. If set the IP address to 0.0.0.0, the subnet mask will change to 255.0.0.0
 b. Then change the subnet mask to 0.0.0.0, the pop-up dialog-box display "subnet mask error".
8. [BUG FIXED]
SPR: 040923910
Symptom: DUT will crash after run Ethernet stress test by LeapFTP
9. [BUG FIXED]
SPR: 041028867
Symptom: Station can't connect with DUT with heavy traffic.

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10. [FEATURE CHANGED]
SPR: 050408255, 050411283
Symptom: Remove Route selection on GUI and metric field on GUI/SMT for Traffic Redirect function.
11. [FEATURE CHANGED]
Symptom: Remove NAT full feature on GUI, but keep full feature in SMT for backward compatible.
12. [BUG FIXED]
SPR: 050428396
Symptom: WLAN STA can't ping to gateway
Condition: Topology is as follows :PC))) P334-----G1000
1). PC connects to P334 WT by wirelessfirst
2). PC switch wireless connection to G1000
3). PC can not get IP if switch to G1000 neither ping to gateway (P334WT)

Modification in 3.60(JN.5)C0 | 05/16/2005

Convert version string from "3.60(JN.5)b2" to "3.60(JN.5)"

Modification in 3.60(JN.5)b2 | 05/13/2005

1. [BUG FIXED]
SPR: 050511610
Symptom:
WLAN association list on GUI display error.
Condition:
WLAN association list on GUI display error.

Modification in 3.60(JN.5)b1 | 05/09/2005

1. [FEATURE CHANGED]
Media bandwidth management for SIP still works even though ALG_SIP is disable
2. [FEATURE ENHANCED]
ALG enable/disable setting can be saved in rom file.
3. [FEATURE CHANGED]
Name Modified:
ALG_MSMN -->ALG_MSNM
ALG_VOIP -->ALG_H323

Modification in 3.60(JN.4)C0 | 04/13/2005

Convert version string from "3.60(JN.4)b3" to "3.60(JN.4)"

Modification in V3.60(JN.4)b3 | 04/02/2005

1. [BUG FIXED]
SPR: 050329422
Symptom: Static route for WAN subnet mask has some problem.

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Condition:

- 1). Set WAN Encapsulation to Ethernet/ Dynamic IP.
 - 2). Add static route on WAN, then check the route added to routing table.
 - 3). Reboot system and make sure the WAN get IP again, then check the routing table, the route is not exist
2. [BUG FIXED]
SPR: 050329425
Symptom: BWM configure problem use wizard setup
Condition :
1. In eWC->Wizard->Bandwidth Setup
 2. Active managed bandwidth->select bandwidth managed service is WWW
->finish BWM setup Goto Bandwith MGMT click Apply button =>Fail,status show "Failure to operate setting! Error code = 15 "

Modification in V3.60(JN.4)b2 | 03/23/2005

1. [BUG FIXED]
Symptom: When two STAs connected to P-334WT, then move one, in eWC, MAINTENANCE, Association List can not refresh.
Condition:
 1. Use G-100 & B-220 to connect with P-334WT.
 2. Into eWC-> MAINTENANCE-> Association List, you can see two station (G-100 & B-220) in here.
 3. Remove B-220.
 4. Click refresh button, B-220 station is still displayed in this page. This is incorrect.
2. [BUG FIXED]
Symptom: WLAN association list work Fail.
Condition:
In eWC / Maintenance / Association List
 - a.The list display error MAC address .
 - b.Sometimes it can't display the MAC address.
3. [BUG FIXED]
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.
4. [FEATURE ENHANCED]
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.

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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. [FEATURE ENHANCED]
Add following Time Zone:
GMT-3:30 Newfoundland
GMT+3:30 Tehran
GMT+4:30 Kabul
GMT+5:30 Bornbay, Calcutta, Madras, New Delhi
GMT+5:45 Katmandu
GMT+6:30 Yangon
GMT+9:30 Adelaide, Darwin.
6. [FEATURE CHANGED]
Change username length of PPPoE and PPTP to 62
7. [FEATURE ENHANCED]
Merge Genie functionality into this version

Modification in 3.60(JN.4)b1 | 01/26/2005

1. [BUG FIXED]
Symptom: Wireless Static Web can't configure.
Condition:
1. On eWC Wireless page, select Static WEB and Passphrase is empty then click Generate button
2. Status will show "Please Input Passphrase" and Security select No Security and click Apply, Status will show this message again and can't not save.
2. [BUG FIXED]
Symptom: In eWC Remote Management, if you select DNS tab, then you can not move to TELNET tab.
Condition:
Into eWC-> Remote Management-> DNS page, You can't go to TELENT page from this page.
3. [BUG FIXED]
Symptom: When two STAs connected to P-334WT, then move one, in eWC, MAINTENANCE, Association List can not refresh.
Condition:
1. Use G-100 & B-220 to connect with P-334WT.
2. Into eWC-> MAINTENANCE-> Association List, you can see two station (G-100 & B-220) in here.
3. Remove B-220.
4. Click refresh button, B-220 station is still displayed in this page. This is incorrect.
4. [BUG FIXED]
Symptom: Bandwidth Management problem.
Condition:
Under Bandwidth Management, the managed traffic will be processed one-by-one

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- instead of concurrently processing if they are configured as the same priority.
5. [FEATURE ENHANCED]
SMTP Authentication
 6. [FEATURE ENHANCED]
OTIST LED Support
 7. [FEATURE ENHANCED]
WLAN MAC Spoofing

Modification in 3.60(JN.3)C0 | 12/15/2004

Convert version string from "3.60(JN.3)b1" to "3.60(JN.3)"

Modification in 3.60(JN.3)b1 | 12/15/2004

No external changes.

Modification in 3.60(JN.2)D0 | 12/13/2004

Change NAT timeout to 180 seconds.

Convert version string from "3.60(JN.2)b1" to "3.60(JN.2)"

Modification in 3.60(JN.2)C0 | 12/13/2004

Convert version string from "3.60(JN.2)b1" to "3.60(JN.2)"

Modification in 3.60(JN.2)b1 | 12/09/2004

1. [BUG FIXED]
Symptom: Apply call schedule rule to WAN ,DUT will crash
Condition: 1.Set WAN encapsulation is PPPoE
2. Edit a schedule rule name is 1
3.Goto SMT Menu 11 , Set schedules=1 then save to rom
=>DUT will crash while PPPoE is trigger.
2. [BUG FIXED]
Symptom: System exception and reboot occur when system name is up to 30 characters long and enable 802.1x.
Condition:
 1. Set SMT menu 1 System Name more then 16 characters.
 2. enable 802.1x or WPA.
 3. user association.
 4. system exception.
3. [BUG FIXED]
MAC Filter page, if we input invalid MAC data, the error message shows "Invalid MAC Address #4".
4. [FEATURE CHANGED]
Symptom: The GUI arrangement for content filter.

- Condition: eWC-> Content filter, Wish Monday ~ Sunday can be listed on the same line.
5. [BUG FIXED]
Symptom: IP alias configure problem
Condition: 1.In eWC configure IP alias
2.Set IP alias 1 IP is same as alias 2 =>Fail ,no error message and it still can save to ROM.
 6. [BUG FIXED]
Symptom: Refresh button don't work.
Condition: 1). Establish a VPN tunnel.
2). eWC-> VPN-> SA Monitor, You can see a VPN tunnel display on this page. (don't leave this page)
3). Drop the VPN tunnel, then Establish it again.
4). Continue step 2, click the Refresh button, The VPN tunnel can't display again.
 7. [FEATURE CHANGED]
WAN page naming problem in Chinese version GUI. Change "外部網路" to "廣域網路".
 8. [FEATURE CHANGED]
Change eWC string from "OTIST in Process" to "OTIST in Progress".
 9. [BUG FIXED]
The OTIST setup key will be overwritten by "01234567" after reboot if user keeps key empty.
 10. [FEATURE CHANGED]
In System -> IP Alias page, only alias1 and alias2 are active, IP address 1 and 2 must be check.
 11. [BUG FIXED]
Symptom: G-405 (or P2000W) can't get IP from P-334WT.
Condition: Turn bandwidth management on (I used VoIP and WWW via the bandwidth wizard), and the G-405 (or P2000W) can not pull a DHCP address. Turn off bandwidth management, and the G-405 (or P2000W) has no problem pulling an address.
 12. [BUG FIXED]
Symptom: Parental Control always disabled by license control.
Condition:
1. Enable TMSS and Parental Control.
2. Active your account on Dashboard of TMSS.
3. Wait a period, Parental Control still disabled by license control. It should be enabled.
 13. [FEATURE CHANGED]
Rearrange the order in eWC maintenance statistics page.

Modification in 3.60(JN.1)D0 | 11/19/2004

Change NAT timeout to 180 seconds.

Convert version string from "3.60(JN.1)b1" to "3.60(JN.1)"

Modification in 3.60(JN.1)C0 | 11/19/2004

Convert version string from "3.60(JN.1)b1" to "3.60(JN.1)"

Modification in 3.60(JN.1)b1 | 11/09/2004

4. [BUG FIXED]
Symptom: P2002 (P2P) SIP pass through test fail.
Condition: P2002_1-----P-334WT_1-----P-334WT_2----- P2002_2
1. Phone call setting is P2P.
2. Set default server to P2002.
3. P2002_2 can't receive P2002_1's Ring.
5. [BUG FIXED]
Symptom: GUI's problem for VPN's configuration.
Condition: eWC-> ADVANCED->VPN ->Rule Setup,"Security Gateway Address"
can not type in a domain name.
6. [BUG FIXED]
Symptom: Can't into OTIST's Process if none Setup Key.
Condition: 1). eWC-> ADVANCED->WIRELESS ->OTIST, make key value of
Setup Key to blank.
2). eWC-> ADVANCED->WIRELESS ->OTIST, click "Start" button.
==> eWC display "Please input key value."
7. [BUG FIXED]
Symptom: Wireless has some problem.
Condition: 1). Change wireless security type from WPA-PSK to Static WEP.
2). Use AiroPeek to capture, P-334WT's security type is still WPA-PSK.

Modification in 3.60(JN.0)C0 | 10/29/2004

Convert version string from "3.60(JN.0)b4" to "3.60(JN.0)"

TMSS Dashboard URL is <http://tmss.trendmicro.com/dashboard>

Modification in 3.60(JN.0)b4 | 10/27/2004

1. [FEATURE CHANGED]
Change the system name from "P334WT" to "P-334WT"
2. [FEATURE CHANGED]
Change string from "Auto Security in Process" to "OTIST in Process" when OTIST
starts in GUI
3. [FEATURE CHANGED]
Change string from "One-touch Intelligent Security" to "One-Touch Intelligent
Security" in GUI
4. [BUG FIXED]
Symptom: Cannot access Dashboard correctly.
Condition: 1. Set you dashboard URL to beta.tmss.trendmicro.com.
2. Connect to tmss.trendmicro.com directly.

3. Browser will display message "you need a Trend Micro-approved router to connect to the Internet".
5. [BUG FIXED]
Symptom: Can't display full message on popup window.
Condition: 1). Set wireless security to Static WEP/ 256 Bits/ Hex.
2). eWC-> Wireless LAN-> OTIST, push START button.
3). Popup a window to display the setting value of wireless security, but not display full word for the 256 Bits WEP key.
6. [BUG FIXED]
The red light on the right front side of the unit turns on when host connect to LAN 3.
7. [BUG FIXED]
Condition: 1). Restore default rom file.
2). eWC-> Wizard, the default Domain Name = zyxel.com.tw. The field should be empty.

Modification in 3.60(JN.0)b3 | 10/15/2004

1. [BUG FIX]
Change the redirect URL of TMSS from IP to domain name.
2. [FEATURE CHANGED]
Focus the cursor at Password field in login page.
3. [FEATURE CHANGED]
Refine the eWC string from "SYS" to "PWR" in firmware upgrade page.
4. [FEATURE CHANGED]
Add scroll bar on eWC panel.
5. [BUG FIX]
After configuring 128-bit WEP and performing some tests yesterday, I changed the wireless configuration to WPA-PSK. This morning I changed the configuration to static WEP. The screen displayed 64-bit WEP and the keys were truncated to 64 bits. The 128-bit WEP information should be remembered.
6. [BUG FIX]
Model name show P660HW not P-334WT in Dashboard.
7. [BUG FIX]
Symptom: The "Reset" button of Back to Factory Defaults is unavailable.
Condition: eWC-> MAINTENANCE-> Configuration, IE displayed "網頁發生錯誤" after click "Reset" button.
8. [FEATURE CHANGED]
With the screen set to 800x600 pixels, the user cannot see or reach all of the menu options, unless the menu options are limited to the major menu items. For example, if Advanced is open, the user cannot see the Maintenance or Logout options. The present design assumes everyone will use 1024x768 pixels, or higher.
9. [BUG FIX]
Symptom: WPA Mixed mode fail.
Condition: 1). One station run WPA (TLS).
2). the other one run 802.1x-TLS (Dynamic 64/128 WEP), can't connect with DUT.

10. [BUG FIX]
Symptom: DUT reboots by H/W watch dog.
Condition: 1). eWC-> wireless, disable Wireless LAN, Apply.
2). Enable Wireless LAN, Apply.
3). disable G+ Enhanced then change RTS/CTS Threshold & Fragmentation Threshold to 2432, Apply.
The Setting can't save to rom and DUT reboots by H/W watch dog.
11. [BUG FIX]
When I disable wireless LAN, the WLAN light turns off, but the site is still visible in a site survey on two laptops.
12. [BUG FIX]
Symptom: Rom file damaged.
Condition: 1). eWC-> Firewall-> Services, add FTP(TCP:20,21) to Blocked Services, Apply.
2). eWC-> Firewall-> Services, delete FTP(TCP:20,21) from Blocked Services, Apply.
3). Reboot DUT, DUT will do crash dump cycle.
13. [BUG FIX]
Symptom: Configuration problem of BM.
Condition: 1). eWC-> Bandwidth Management, add rule one, Apply.
2). eWC-> Bandwidth Management-> Select rule one-> Edit, not change anything, Apply. Can't save again that display "Destination IP format error !".
14. [BUG FIX]
Symptom: Bandwidth management problem
Condition: 1.Edit bandwidth management rule for FTP/WWW/Mail
2.Generate FTP/WWW/Mail package by chariot
3.Monitor bandwidth usage status =>Fail, bandwidth usage not correct
15. [BUG FIX]
Use Smartbit test throughput are lower than V3.60(JN.0)b1.
16. [BUG FIX]
Symptom: DUT crash.
Condition: 1). Set WAN to PPTP mode.
2). Spoof MAC address of LAN IP.
3). First & second times happened : access support SSL's web site.
Third times happened : Access internet web site and poop up TMSS's Dashboard.
Exception occurred!
EPC= 0x8009E5D0
SR= 0x00000003
CR= 0x9080840C
\$RA= 0x00000000
TLBS.\src\sys_isr.c:489 sysreset()
17. [BUG FIX]
Symptom: DUT will crash after run FTP stress test.
Condition: 1). WAN Encapsulation set to PPTP mode.
2). One host use FTP download file overnight by wireless.
3). One host use FTP download file overnight by wire.

Exception occurred!
EPC= 0x800A88D0
SR= 0x00000003
CR= 0x90808414
\$RA= 0x00000000
AdES ..\src\sys_isr.c:489 sysreset()

Modification in 3.60(JN.0)b2 | 10/01/2004

18. [BUG FIX]
Symptom: ICMP packet cannot response.
Condition: 1. Enable Firewall and set default SUA server to a exist host.
2. ICMP packet would be blocked by Firewall.
19. [BUG FIX]
Symptom & Condition: Buttons of multi language cannot work when using Mozilla login.
20. [BUG FIX]
Symptom: Display error in parental control.
Condition: 1. Active parental control.
2. After a period time.
3. In eWC->TMSS->Parental Control, has "0.0.0.0" displayed in address list.
21. [FEATURE CHANGED]
Change the redirect URL of TMSS from IP to domain name.
22. [FEATURE ENHANCED]
Support multi language for blocking page of Parental Control.
23. [BUG FIX]
Symptom: System crash.
Condition: 1. Enable TMSS->Parental Control.
2. Connect to Internet and router would crash sometimes.
24. [FEATURE ENHANCED]
Router will trigger license check if client active register at dashboard.
25. [BUG FIX]
Symptom & Condition: Trend Micro Internet Security 2005 cannot display correctly at eWC.
26. [BUG FIX]
Symptom: Sometimes router reboots by software watchdog.
Condition: 1. Put router on the network for a long time.
2. Sometimes router will reboot by software watchdog.
27. [FEATURE CHANGED]
When enable/disable Trend Micro Security Services at Service Settings, router will also enable/disable Automatically update and parental control.
28. [BUG FIX]
Symptom: Script error occurs when setting static IP via Wizard Setup.
Condition: 1. Turn on IE's script error notification.
2. Setup static IP via Wizard Setup.

3. Script error occurs when clicking the “Next” button.
29. [BUG FIX]
Symptom & Condition: Html code is displayed on the Parental Control blocking page.
30. [FEATURE CHANGED]
Remove SMT14 Dial-in User Setup. In SMT23.4, no local user database available anymore in Authentication Databases.
31. [BUG FIX]
Use Mozilla login, buttons of Multi language can’t work on home page.
32. [BUG FIX]
Symptom: DUT crash while click DHCP Table.
Condition: 1). Set LAN DHCP server= None.
2). Check host can ping DUT’s LAN by static IP.
3). eWC-> MAINTENANCE, If click DHCP Table that will be occurred DUT crash.
33. [BUG FIX]
Symptom: Can’t save PPTP to static IP by Wizard configuration
Condition: 1). eWC-> Connection Wizard 2, change Encapsulation to PPTP.
2). eWC-> Connection Wizard 3, select ”Use fixed IP address” and set My WAN IP Address, Apply.
3). Screen display ”Error: Subnet Mask format error.”
34. [BUG FIX]
Symptom: In eWC VPN SA monitor not show active VPN rule.
Condition: In eWC VPN SA monitor not show active VPN rule when VPN tunnel is establish.
35. [BUG FIX]
Symptom: Bandwidth management problem
Condition: 1. Edit bandwidth management rule for FTP/WWW/Mail
2. Generate FTP/WWW/Mail package by chariot
3. Monitor bandwidth usage status => Fail, bandwidth usage not correct
36. [BUG FIX]
Symptom: Model name is wrong.
Condition: Model name is P-334WT, not Prestige 334WT. Please modify all model name in system.
37. [BUG FIX]
DUT will crash while test throughput of VPN IKE 3DES by SmartBits.
(Test duration set to 60 sec).
38. [BUG FIX]
Symptom: Can’t access Java web.
Condition: 1). eWC-> CONTENT FILTER, enable block Cookies.
2). Can’t access Java web: <http://java.sun.com/applets/>.
39. [BUG FIX]
Symptom: GUI’s problem for VPN’s configuration.
Condition: eWC-> ADVANCED->VPN ->Rule Setup, VPN configuration can’t save to rom if Local-content-IP is none.
40. [BUG FIX]
Symptom: The WLAN’s status should be Down when Wireless is disabled.

- Condition: 1). Disable Wireless.
2). WLAN's status still displayed 54M in menu 24.1.
41. [BUG FIX]
Symptom: Wireless is unstable with G-100, the connection is easy to drop.
Condition: 1). Host use G-100 to connect with P-334WT (no security).
2). The connection is easy to drop while download file.
42. [BUG FIX]
Symptom: DUT reboot after run eMule.
Condition: 1). Set WAN Encapsulation to Ethernet/ Dynamic IP.
2). Set forwarding 4661 ~ 4662 port to host.
3). Host run eMule about 2 hours, DUT reboot.
43. [BUG FIX]
Symptom: DUT do reboot cycle
Condition: 1). Continue SPR 40923908.
2). Run eMule & access internet web about 3 hours, DUT do reboot cycle.
44. [BUG FIX]
Symptom: Has different subnet mask IP display in DHCP
Condition: 1). Set a Static DHCP rule for Host_A, and the IP not in range of IP Pool.
(ex, Static DHCP IP set 192.168.1.5, IP Pool starting address: 192.168.1.33)
2). Host_A get 192.168.1.5 IP from DUT.
3). Host_B get 192.168.1.33 IP from DUT.
4). eWC-> MAINTENANCE-> DHCP Table, display "192.168.2.31" IP assign to Host_B.
45. [BUG FIX]
Symptom: DUT always to authenticate with Radius server.
Condition: 1). Set wireless Security to 802.1x+ Static WEP.
2). Set Authentication Databases to Radius-first-then-Local.
3). Set username & password in Local database (MD5).
4). Station can't authenticate MD5 successfully with DUT's Local database, because it only to check Radius server.
46. [BUG FIX]
Symptom: SIP pass through fail.
Condition: P2000W_1-----P-334WT_1-----P-334WT_2----- P2000W_2
1. Phone call setting is Proxy IP.
2. P2000W_2 can't receive P2000W_1's Ring.
47. [BUG FIX]
Symptom: P2002 (Proxy IP) SIP pass through test fail.
Condition: P2002_1-----P-334WT_1-----P-334WT_2----- P2002_2
1. Phone call setting is Proxy IP.
2. P2002_2 can't receive P2002_1's Ring.
48. [BUG FIX]
Symptom: SIP pass through fail
Condition: P2000W_1-----P-334WT_1-----P-334WT_2----- P2000W_2
1. Phone call setting is P2P.
2. Set default server to P2000W.
3. P2000W_2 can't receive P2000W_1's Ring.

49. [BUG FIX]

Symptom: P2002 (P2P) SIP pass through test fail.

Condition: P2002_1-----P-334WT_1-----P-334WT_2----- P2002_2

1. Phone call setting is P2P.
2. Set default server to P2002.
3. P2002_2 can't receive P2002_1's Ring.

50. [BUG FIX]

Symptom: Display error in parental control.

Condition: 1). Active parental control.

2). After a period time.

3). In eWC->TMSS->Parental Control, has "0.0.0.0" displayed in address list.

51. [BUG FIX]

Symptom: DUT didn't response ICMP packet if set default SUA server.

Condition: 1). Set default SUA server to a exist device.

2). Ping WAN IP fail, The ICMP will be blocked for firewall rule.

52. [BUG FIX]

Symptom: AOL 9.0, Live video chat FAIL.

Condition: PC_1-----P-334WT_1-----P-334WT_2----- PC_2

1. "Live video chat" can't work.

53. [BUG FIX]

Symptom: Error log problem.

Condition: 1). In menu 24.8, "enter sys log err dis".

2). You will have the result below, by those dump we can see the serial number are not continuous. And the time was automatically add one hour(the actual time=display time - one hour).

1 Thu Sep 23 14:13:15 2004 PP10 WARN netMakeChannDial: err=-3001
rn_p=809de930

4 Thu Sep 23 14:13:18 2004 PP10 WARN netMakeChannDial: err=-3001
rn_p=809de930

8 Thu Sep 23 14:13:21 2004 PP10 WARN netMakeChannDial: err=-3001
rn_p=809de930

12 Thu Sep 23 14:13:24 2004 PP10 WARN netMakeChannDial: err=-3001
rn_p=809de930

14 Thu Sep 23 14:13:27 2004 PP10 WARN netMakeChannDial: err=-3001
rn_p=809de930

17 Thu Sep 23 14:13:30 2004 PP10 WARN netMakeChannDial: err=-3001
rn_p=809de930

18 Thu Sep 23 14:14:45 2004 PP1b WARN Last errorlog repeat 24 Times

20 Thu Sep 23 14:14:45 2004 PP10 WARN netMakeChannDial: err=-3001
rn_p=809de930

21 Thu Sep 23 14:15:33 2004 PP15 WARN Last errorlog repeat 15 Times

54. [BUG FIX]

Symptom: Sometimes P2000W can't get IP from P-334WT.

Condition: 1). Set wireless to no security.

2). Use P2000W association with DUT successfully.

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- 3). Sometimes can get IP from DUT, sometimes can't.
55. [BUG FIX]
Symptom: DUT crash.
Condition: 1). Set WAN to PPTP mode.
2). Spoof MAC address of LAN IP.
3). First & second times happened : access support SSL's web site.
Third times happened : Access internet web site and pop up TMSS's Dashboard.
Exception occurred!
EPC= 0x8009E5D0
SR= 0x00000003
CR= 0x9080840C
\$RA= 0x00000000
TLBS..\src\sys_isr.c:489 sysreset()

Modification in 3.60(JN.0)b1 | 08/31/2004

First Firmware Release

Annex A CI Command List

Last Updated: 2002/11/26

Command Class List Table		
System Related Command	Exit Command	Device Related Command
Ethernet Related Command	POE Related Command	PPTP Related Command
Configuration Related Command	IP Related Command	IPSec Related Command
Firewall Related Command	Wireless LAN Related Command	Bridge Related Command
Radius Related Command	802.1x Related Command	Auto WLAN Security Delivery Command

System Related Command				Home
Command				Description
sys				
	adjtime			retrive date and time from Internet
	callhist			
		display		display call history
		remove	<index>	remove entry from call history
	countrycode		[countrycode]	set country code
	date		[year month date]	set/display date
	domainname			display domain name
	edit		<filename>	edit a text file
	extraphnum			maintain extra phone numbers for outcalls
		add	<set 1-3> <1 st phone num> [2 nd phone num]	add extra phone numbers
		display		display extra phone numbers
		node	<num>	set all extend phone number to remote node <num>
		remove	<set 1-3>	remove extra phone numbers
		reset		reset flag and mask
	feature			display feature bit
	hostname		[hostname]	display system hostname
	logs			
		category		
			access [0:none/1:log/2:alert/3:both]	record the access control logs
			attack [0:none/1:log/2:alert/3:both]	record and alert the firewall attack logs
			display	display the category setting
			error [0:none/1:log/2:alert/3:both]	record and alert the system error logs
			ipsec [0:none/1:log/2:alert/3:both]	record the access control logs
			ike [0:none/1:log/2:alert/3:both]	record the access control logs
			javablocked [0:none/1:log]	record the java etc. blocked logs
			mten [0:none/1:log]	record the system maintenance logs
			upnp [0:none/1:log]	record upnp logs
			urlblocked [0:none/1:log/2:alert/3:both]	record and alert the web blocked logs
			urlforward [0:none/1:log]	record web forward logs
		clear		clear log
		display	[access attack error ipsec ike javablocked mten urlblocked urlforward]	display all logs or specify category logs
		errlog		
			clear	display log error
			disp	clear log error
			online	turn on/off error log online display
		load		load the log setting buffer

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		mail		
			alertAddr [mail address]	send alerts to this mail address
			display	display mail setting
			logAddr [mail address]	send logs to this mail address
			schedule display	display mail schedule
			schedule hour [0-23]	hour time to send the logs
			schedule minute [0-59]	minute time to send the logs
			schedule policy [0:full/1:hourly/2:daily/3:weekly/4:none]	mail schedule policy
			schedule week [0:sun/1:mon/2:tue/3:wed/4:thu/5:fri/6:sat]	weekly time to send the logs
			server [domainName/IP]	mail server to send the logs
			subject [mail subject]	mail subject
		save		save the log setting buffer
		syslog		
			active [0:no/1:yes]	active to enable unix syslog
			display	display syslog setting
			facility [Local ID(1-7)]	log the messages to different files
			server [domainName/IP]	syslog server to send the logs
	log			
		clear		clear log error
		disp		display log error
		online	[on/off]	turn on/off error log online display
		resolve		Resolve mail server and syslog server address
	mbuf			
		link	link	list system mbuf link
		pool	<id> [type]	list system mbuf pool
		status		display system mbuf status
		disp	<address>	display mbuf status
		cnt		
			disp	display system mbuf count
			clear	clear system mbuf count
		debug	[on/off]	
	pwderrtm		[minute]	Set or display the password error blocking timeout value.
	rn			
		load	<entry no.>	load remote node information
		disp	<entry no.>(0:working buffer)	display remote node information
		nat	<none sua full_feature>	config remote node nat
		nailup	<no yes>	config remote node nailup
		mtu	<value>	set remote node mtu
		save	[entry no.]	save remote node information
	smt			not support in this product
	stdio		[minute]	change terminal timeout value
	time		[hour [min [sec]]]	display/set system time
	trdisp			monitor packets
	trclog			
	trcpacket			
	syslog			
		server	[destIP]	set syslog server IP address
		facility	<FacilityNo>	set syslog facility
		type	[type]	set/display syslog type flag

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		mode	[on/off]	set syslog mode
	version			display RAS code and driver version
	view		<filename>	view a text file
	wdog			
		switch	[on/off]	set on/off wdog
		cnt	[value]	display watchdog counts value: 0-34463
	romreset			restore default romfile
	server			
		access	<telnet ftp web icmp snmp dns> <value>	set server access type
		load		load server information
		disp		display server information
		port	<telnet ftp web snmp> <port>	set server port
		save		save server information
		secureip	<telnet ftp web icmp snmp dns> <ip>	set server secure ip addr
	fwnotify			
		load		load fwnotify entry from spt
		save		save fwnotify entry to spt
		url	<url>	set fwnotify url
		days	<days>	set fwnotify days
		active	<flag>	turn on/off fwnotify flag
		disp		display firmware notify information
		check		check firmware notify event
		debug	<flag>	turn on/off firmware notify debug flag
	cmgr			
		trace		
			disp <ch-name>	show the connection trace of this channel
			clear <ch-name>	clear the connection trace of this channel
		cnt	<ch-name>	show channel connection related counter
	socket			display system socket information
	filter			
		netbios		
	roadrunner			
		debug	<level>	enable/disable roadrunner service 0: 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

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		save		save upnp information
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Exit Command

[Home](#)

Command				Description
exit				exit smt menu

Device Related Command

[Home](#)

Command				Description
dev				
	channel			
		drop	<channel name>	drop channel
	dial		<node#>	dial to remote node

Ethernet Related Command

[Home](#)

Command				Description
ether				
	config			display LAN configuration information
	driver			
		cnt		
			disp <name>	display ether driver counters
		ioctl	<ch_name>	Useless in this stage.
		status	<ch_name>	see LAN status
	version			see ethernet device type
	pkttest			
		disp		
			packet <level>	set ether test packet display level
			event <ch> [on/off]	turn on/off ether test event display
		sap	[ch_name]	send sap packet
		arp	<ch_name> <ip-addr>	send arp packet to ip-addr
	debug			
		disp	<ch_name>	display ethernet debug information
		level	<ch_name> <level>	set the ethernet debug level level 0: disable debug log level 1:enable debug log (default)
	edit			
		load	<ether no.>	load ether data from spt
		mtu	<value>	set ether data mtu
		accessblock	<0:disable 1:enable>	block internet access
		save		save ether data to spt

POE Related Command

[Home](#)

Command				Description
poe				
	status		[ch_name]	see poe status
	dial		<node>	dial a remote node
	drop		<node>	drop a pppoe call
	ether		[rfc3com]	set /display pppoe ether type

PPTP Related Command

[Home](#)

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

Configuration Related Command

[Home](#)

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

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

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				desport-custom <desired custom port name>	Type in the desired custom port name
delete	firewall	e-mail			Remove all email alert settings
		attack			Reset all alert settings to defaults
		set <set#>			Remove a specified set from the firewall configuration
		set <set#>	rule <rule#>		Remove a specified rule in a set from the firewall configuration
insert	firewall	e-mail			Insert email alert settings
		attack			Insert attack alert settings
		set <set#>			Insert a specified rule set to the firewall configuration
		set <set#>	rule <rule#>		Insert a specified rule in a set to the firewall configuration
cli					Display the choices of command list.
debug	<1 0>				Turn on/off trace for firewall debug information.

Wireless LAN Related Command

[Home](#)

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

Bridge Related Command

[Home](#)

Command				Description
Bridge				
	cnt			related to bridge routing statistic table
		Disp		display bridge route counter
		Clear		clear bridge route counter
	stat			related to bridge packet statistic table
		Disp		display bridge route packet counter
		Clear		clear bridge route packet counter

Radius Related Command

[Home](#)

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

802.1x Related Command

[Home](#)

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

IP Related Command

[Home](#)

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Command				Description
ip				
	address		[addr]	display host ip address
	alias		<iface>	alias iface
	aliasdis		<0 1>	disable alias
	arp			
		status	<iface>	display ip arp status
	dhcp		<iface>	
		client		
			release	release DHCP client IP
			renew	renew DHCP client IP
		status	[option]	show dhcp status
	dns			
		query		
		server	<primary> [secondary] [third]	set dns server
		stats		
			clear	clear dns statistics
			disp	display dns statistics
	httpd			
	icmp			
		status		display icmp statistic counter
		discovery	<iface> [on off]	set icmp router discovery flag
	ifconfig		[iface] [ipaddr] [broadcast <addr> mtu <value> dynamic]	configure network interface
	ping		<hostid>	ping remote host
	route			
		status	[if]	display routing table
		add	<dest_addr default>[/<bits>] <gateway> [<metric>]	add route
		addiface	<dest_addr default>[/<bits>] <gateway> [<metric>]	add an entry to the routing table to iface
		addprivate	<dest_addr default>[/<bits>] <gateway> [<metric>]	add private route
		drop	<host addr> [/<bits>]	drop a route
	smtp			
	status			display ip statistic counters
	stroute			
		display	[rule # buf]	display rule index or detail message in rule.
		load	<rule #>	load static route rule in buffer
		save		save rule from buffer to spt.
		config		
			name <site name>	set name for static route.
			destination <dest addr>[/<bits>] <gateway> [<metric>]	set static route destination address and gateway.
			mask <IP subnet mask>	set static route subnet mask.
			gateway <IP address>	set static route gateway address.
			metric <metric #>	set static route metric number.
			private <yes no>	set private mode.
			active <yes no>	set static route rule enable or disable.
	traceroute		<host> [ttl] [wait] [queries]	send probes to trace route of a remote host
	xparent			
		join	<iface1> [<iface2>]	join iface2 to iface1 group
		break	<iface>	break iface to leave ipxparent group
	ave			anti-virus enforce

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	urlfilter			
		reginfo		
			display	display urlfilter registration information
			name	set urlfilter registration name
			eMail <size>	set urlfilter registration email addr
			country <size>	set urlfilter registration country
			clearAll	clear urlfilter register information
		category		
			display	display urlfilter category
			webFeature [block/nonblock] [activex/java/cookei/webproxy]	block or unblock webfeature
			logAndBlock [log/logAndBlock]	set log only or log and block
			blockCategory [block/nonblock] [all/type(1-14)]	block or unblock type
			timeOfDay [always/hh:mm] [hh:mm]	set block time
			clearAll	clear all category information
		listUpdate		
			display	display listupdate status
			actionFlags [yes/no]	set listupdate or not
			scheduleFlag [pending]	set schedule flag
			dayFlag [pending]	set day flag
			time [pending]	set time
			clearAll	clear all listupdate information
		exemptZone		
			display	display exemptzone information
			actionFlags [type(1-3)][enable/disable]	set action flags
			add [ip1] [ip2]	add exempt range
			delete [ip1] [ip2]	delete exempt range
			clearAll	clear exemptzone information
		customize		
			display	display customize action flags
			actionFlags[filterList/disableAllExce ptTrusted/unblockRWFTToTrusted/k eywordBlock/fullPath/caseInsensiti ve/fileName][enable/disable]	set action flags
			logFlags [type(1-3)][enable/disable]	set log flags
			add [string] [trust/untrust/keyword]	add url string
			delete [string] [trust/untrust/keyword]	delete url string
			clearAll	clear all information
		logDisplay		display cyber log
		ftplist		update cyber list data
		listServerIP	<ipaddr>	set list server ip
		listServerName	<name>	set list server name
	tredir			
		failcount	<count>	set tredir failcount
		partner	<ipaddr>	set tredir partner
		target	<ipaddr>	set tredir target
		timeout	<timeout>	set tredir timeout
		checktime	<period>	set tredir checktime
		active	<on/off>	set tredir active
		save		save tredir information
		disp		display tredir information

		debug	<value>	set tredir debug value
	nat			
		server		
			disp	display nat server table
			load <set id>	load nat server information from ROM
			save	save nat server information to ROM
			clear <set id>	clear nat server information
			edit active <yes/no>	set nat server edit active flag
			edit svrport <start port> [end port]	set nat server server port
			edit intport <start port> [end port]	set nat server forward port
			edit remotehost <start ip> [end ip]	set nat server remote host ip
			edit leasetime [time]	set nat server lease time
			edit rulename [name]	set nat server rule name
			edit forwardip [ip]	set nat server server ip
			edit protocol [protocol id]	set nat server protocol
			edit clear	clear one rule in the set
		service		
			irc [on/off]	turn on/off irc flag
		resetport		reset all nat server table entries
		incikeport	[on/off]	turn on/off increase ike port flag
	igmp			
		debug	[level]	set igmp debug level
		forwardall	[on/off]	turn on/off igmp forward to all interfaces flag
		querier	[on/off]	turn on/off igmp stop query flag
		iface		
			<iface> grouptm <timeout>	set igmp group timeout
			<iface> interval <interval>	set igmp query interval
			<iface> join <group>	join a group on iface
			<iface> leave <group>	leave a group on iface
			<iface> query	send query on iface
			<iface> rsptime [time]	set igmp response time
			<iface> start	turn on of igmp on iface
			<iface> stop	turn off of igmp on iface
			<iface> ttl <threshold>	set ttl threshold
			<iface> vl compat [on/off]	turn on/off vl compat on iface
		robustness	<num>	set igmp robustness variable
		status		dump igmp status
	pr			

IPSec Related Command

[Home](#)

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

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

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.

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		disp		Display firewall log
		online		Set firewall log online.
		pktdump		Dump the 64 bytes of dropped packet by firewall
		update		Update firewall
		dynamicrule		
		tcprst		
			rst	Set TCP reset sending on/off.
			rst113	Set TCP reset sending for port 113 on/off.
			display	Display TCP reset sending setting.
		icmp		
		dos		
			smtp	Set SMTP DoS defender on/off
			display	Display SMTP DoS defender setting.
			ignore	Set if firewall ignore DoS in lan/wan/dmz/wlan
		ignore		
			dos	Set if firewall ignore DoS in lan/wan/dmz/wlan
			triangle	Set if firewall ignore triangle route in lan/wan/dmz/wlan

Annex A CI Command ListAuto WLAN Security Delivery Related Command

[Home](#)

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

Appendix 1

NAT solves the insufficient IP address problem and provide some security for the hosts behind it. Although it has many benefits, it also has many drawbacks. The most one is that NAT makes many popular IP applications difficult to communicate with each other. For example, MSN messenger, and Netmeeting through NAT box will cause video and audio communication fail. ALG can solve this problem with NAT enabled, but one application needs one ALG to support. This makes a big problem for the support on NAT box.

Most of NAT boxes will find a new port for a new connection. But for peer-to-peer application, using a new port will make the application fail because this new port is not allowed by peer application. To fully support IP applications on NAT box, Cone NAT is recommended. There are four types of NAT in RFC 3489:

1. Full Cone
2. Restricted Cone
3. Port Restricted Cone
4. Symmetric

NAT boxes that support Cone NAT will make sure that the same internal IP address and port are mapped to the same external IP address and port. This will easier to support current peer-to-peer applications.

Appendix 2

In our current bandwidth management strategy, there may be some problem when the Bandwidth Management is enabled but no classes are set or the classes are not set correctly.

The characteristic of packet transmitted by each application is not all the same. For example, the voice traffic like VoIP and Skype is sensitive to time, and the packet is small. To ensure the quality, such services always need to be deal with as soon as possible. While the packet of FTP and P2P application which need transferring film or any other large file are usually large and non real-time. Such services which need consume a lot of bandwidth would usually be expected to run in the background and not disturbing other applications. We would suggest the real-time small packet to be assigned to a high priority class and the non real-time large packet to a lower priority class.

In order to solve this problem and improve the bandwidth management convenience, we provide the “Automatic Traffic Classifier”, which automatically classify the incoming traffic packets into different priorities, and then all applications would be guaranteed to have enough bandwidth to use.

With this function, the configuration for bandwidth management becomes easily. User can get the same result by only enabling this “Automatic Traffic Classifier” bottom without setting all traffic services he wants to run into each class. If some classes are set previously, the “Automatic Traffic Classifier” can also control the other applications that are not set to any class. In this way, the problem like figure 1 will not occur.

Appendix 3

Scanning for available server of online games becomes an important demand for any NAT router. It basically sends thousands of requests to the servers with different IPs in a very short time. This action will occupy plenty of NAT sessions and fill up the NAT table by a single host. And the number of server found will be restricted by the number of available NAT sessions.

Because the max number of NAT sessions is 256 by default. This is fine for most browsing activity; however they will be run out quickly if we perform a search of game servers (Battlefield 1942, Counter Strike, Unreal Tournament, Doom III, Quake 3, etc). Under this circumstance, the communications between servers and the browser will take a longer time or even been dropped, such that there are only a few available servers in the list and the reported ping times for these servers are higher than normal.

For reasons described above, we provide methods to improve game search ability.

Appendix 4

TMSS v1.1 has the new features of Parental Controls that provide more flexibility and control.

Parental Controls has two modes: General mode and Per-User mode. When General mode is selected, all users attempting to access Web sites that contain restricted content (as determined by the administrator configured router settings,) are stopped. In Per-User mode, each individual accessing the Internet is required to log in. Before an individual is able to log on, the administrator must configure the appropriate level of viewing for the individual. There are six settings (General, PG13, Young Male, Young Female, No Restriction, Custom)—five of which are predefined settings that enable the administrator to quickly decide and implement an overall protection policy. When General or Per-User mode selected, the administrator can choose one of five predefined router blocking settings or create custom settings that are appropriate to either all users (General mode), or individual users (Per-User mode). The default setting for Parental Controls is General mode.

Another new feature is Parental Override. When an individual (in General or Per-User mode) attempts to access a Web site that contains restricted content, the user's browser will be redirected to a blocking page that asks for an override password. The user then has the option of entering an override password, closing the browser, or clicking back.

In addition to blocking Web sites, Parental Controls provides summary information that lets you know how many times users on your network. When operating in Per-User mode, the summary information displayed pertains only to the selected user. In General mode, the information displayed is the accumulative number of attempts and accesses of restricted Web sites by all users.

Port isolation for Virus-Infected & Vulnerable Host is designed (Port Isolation) to isolate the computer or network which is infected by virus or has vulnerable problem. So the impact of virus or other vulnerable problems can be restricted in a single computer or a segment of network until the problem is solved or the network administrator agrees to cancel the isolation.

Port Isolation locates in the gateway or switches and cooperates with the current protection technologies, such as TMSS or antivirus applications. (Currently it supports TMSS, but it is not restricted to TMSS only) It communicates with the engine of TMSS. If the engine reports that a computer is infected by viruses or suffers the vulnerable problems, Port Isolation blocks the traffic between the network port connected to the abnormal computer and other network ports. Since there is no communication between the network ports, the problem is isolated in a computer or a segment of LAN. After the problem on the computer is removed, the isolation will be canceled automatically. On the gateway, besides of the isolation between network ports, the network administrator can also specify the policy for the traffic between the isolated port and Internet/gateway. He/She may block the traffic so the problem will not impact the Internet/gateway. Or he/she may allow the traffic, such that user of abnormal computer can fetch and apply the patch from Internet directly.

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