ZyXEL

Firmware Release Note

Prestige 660HW-61

Standard version

Release 3.40(PE.11)C0

Date: **May 22,2006**
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Supported Platforms:

ZyXEL Prestige 660HW-61

Versions:

ZyNOS Version   : V3.40(PE.11) | 05/22/2006   13:27:56
Bootbase Version   : V1.06 | 04/01/2004 11:22:33

Notes:

The Prestige 660HW-61, is 4th generation of ZyXEL ADSL product family. It is a high performance ADSL/ADSL2/ADSL2+ router for small/medium office to have Internet access and LAN-to-LAN application over the existing copper line. P660HW-61 takes advantage of much higher data rate than ADSL, speed up to 12Mbps (ADSL2) or 26Mbps (ADSL2+), greater reach, faster start-up, advanced diagnostics and better power management. This high performance ADSL router is a high integrated advanced Firewall, Bandwidth Management and IEEE 802.11g wireless features to meet the demand of high-end market.
P660HW-61 provides an embedded mini-PCI module for 802.11g Wireless LAN connectivity, four single auto-sensing, auto-detection 10/100BASE-T Ethernet ports for connection to the user's local network, and a single RJ-11/RJ-45 port for connection to ADSL/ADSL2/ADSL2+ line.
Support Multiboot V2.3
ADSL data pump version: TI AR7 05.01.03.00

Features:
Modifications in V 3.40(PE.11)C0 | 05/22/2006
1.change to FCS version
Modifications in V 3.40(PE.11)b3 | 05/16/2006
1. [BUG FIX] SPRID: 060515857
   Sysptom: In GUI,the Active item of RADIUS anthtication page can configure from yes to no ,but can not configure from no to yes
   Condition: In GUI,the Active item of RADIUS anthtication page can configure from yes to no ,but can not configure from no to yes
2. [BUG FIX] SPRID: 060515860
   Sysptom: In GUI ,select 256-bits WEP in WEP Encryption,fill 29 charactors or 58 hexdecimal digits in key 1(key2 key3. key 4)when apply, it will show error

Condition: In GUI ,select 256-bits WEP in WEP Encryption,fill 29 charactors or 58 hexdecimal digits in key 1(key2 key3. key 4)when apply, it will show error

3. [BUG FIX] SPRID: 060515858

Sysptom:In GUI,when RADIUS server is active ,the ip address can not be saved.
Condition: In GUI,when RADIUS server is active ,the ip address can not be saved.

Modifications in V 3.40(PE.11)b2 | 05/05/2006

1. [ENHANCEMENT]
   Update new WLAN Channel.
2. [ENHANCEMENT]
   Add Philippines, Taiwan, India and Brazil for the Tx output power Test.
3. [BUG FIX] SPRID: 060511642

Sysptom: In CI command, choose a node, type "wan node qos vbr_rt",after save,display this node qos is vbr_nrt
Condition: In CI command, choose a node, type "wan node qos vbr_rt",after save,display this node qos is vbr_nrt

4. [ENHANCEMENT]
   Engineer note: add SDRAM test item in htp
5. [ENHANCEMENT]
   Support Wi-Fi new spec requires 64 char shared key with Radius server.
6. [ENHANCEMENT]
    add wireless card check machine in HTP
7. [BUG FIX] SPRID: 060425986

Symptom:Press reset buttom about 1 sec , the OTIST can not work.
Condition: Press reset buttom about 1 sec , the OTIST can not work.

8. [BUG FIX] SPRID: 060425987

Symptom: WLAN - Set up one class traffic for FTP, it can't meet the MBM setting.
Condition: Step1. Edit web Advanced Setup/ Bandwidth Management /Summary/Active WLAN /Speed = 3000 / Scheduler = Priority -Based / Max Bandwidth Usage = disable --＞ Then click Apply. Step2. Edit web Advanced Setup/ Bandwidth Management /Class Setup/Interface = WLAN / Press Add Child -Class/BW Budget = 100 / Priority = 3 /Borrow bandwidth from parent class= disable /Active = Enable /Service = FTP --＞ApplyStep3. Do FTP file downstream file transfer in WLAN station, the station use LeapFtp or IE as FTP client.Step4. The rate can't meet our setting. Step5. While set the configuration in wizard, also has this issue. Step6. While use FTP tool CuteFtp as client, it has no this issue.

Modifications in V 3.40(PE.11)b1 | 03/03/2006

1. [Feature Enhancement]
      Change modem code to 5.1.3.0
2. [Feature Enhancement]
      Add triple play v2
3. [Feature Enhancement]
      Add triple play v2 in rom-t
4. [Feature Enhancement]
      Add quick route

5. [Feature Enhancement]
> In GUI, add a checkbox to control wireless g+ (by default enable)

6. [Feature Enhancement]
> Add a drop list for user to choose "802.11g only""802.11b only" "mixed"

7. [Feature Enhancement]
> Add Multi-boot V2.3

8. [Feature Enhancement]
> Add reset button test Function

9. [Feature Enhancement]
> Add Route path optimization for throughput enhancement

10. [Feature Enhancement]
> Support Rompager4.50

11. [Feature Enhancement]
> Add APDK 6.2

12. [Feature Enhancement]
> Add OTIST command

13. [Feature Enhancement]
> Update Firewall from HQ trunk

14. [Feature Enhancement]
> MBM update from HQ Trunk

15. [Feature Enhancement]
> DNS enhancement when DHCP is disabled

16. [Feature Enhancement]
> Add Qos VBR-rt support

17. [Feature Enhancement]
> ADSL LED train in 2Hz and 4Hz for TI

18. [Feature Enhancement]
> Move the MBuf data area to cacheable area, Write-Back is used

19. [Feature Enhancement]
> TI Performance Enhancement: Router gets bad FTP performance in TI platform no matter in normal route or quick route

20. [Feature Enhancement]
> Support EAP-SIM in 802.1x

21. [Feature Enhancement]
> Add CI command for SMT

22. [Feature Enhancement]
> Remove SYS_MBUF_DEBUG

23. [Feature Enhancement]
> Add TOS cache and Merge TOS bug fixes from HQ

24. [Feature Enhancement]
> Release new WLAN Channel

25. [BUG FIXED] SPRID: 060303315
> Symptom: Cannot associate Centrino to PE.10/660HW-61 with WPA/WPA2/802.1x + dynamic WEP
> Condition:
> 1. Intel Pro 2100 3B + WPA/WPA2-PSK

2. Intel Pro 2200 BG + WPA/WPA2/802.1x+Dynamic WEP

26. [BUG FIXED] SPRID: 060303316

Symptom: Cannot disable/enable 4x mode in Web GUI or command line

Condition: Cannot disable/enable 4x mode in Web GUI or command line

27. [BUG FIXED] SPRID: 060303317

Symptom: not configurable without any reminding about "RTS/CTS fixed to 4096 when 4x mode enabled"

Condition: user who wants to change the RTS/CTS value is going to get simple an error message

28. [BUG FIXED] SPRID: 060111535

Symptom: Users can not login in prestige device if they use IE in Mac OS as browser

Condition: Browser is IE on Mac OS

29. [BUG FIXED]   SPRID: 060111536

Symptom: when DUT as DHCP client, at the rebounding time, it is expected to send broadcast request according to RFC 2131

Condition: our device sends the unicast request

30. [BUG FIXED] SPRID: 060111537

Symptom: WPA2-PSK needs RADIUS server issue

Condition: in GUI/Wireless LAN/802.1x/WPA, choose WPA2-PSK, apply

31. [BUG FIXED] SPRID: 051121287

Symptom: WEB/GUI will show "Duplicate IP address to other node's IP address" error message when configuring WAN page

Condition:

1 Set two remote node (dynamic get IP) in SMT menu 11.1 and 11.2

2 and then Set Wan parameter in GUI

32. [BUG FIXED] SPRID: 060111539

Symptom: User had to put in 3 or 4 times of username and password in our PPP web redirect page to access Internet

Condition: User had to put in 3 or 4 times of username and password in our PPP web redirect page to access Internet

33. [BUG FIXED] SPRID: 060303318

Symptom: If LAN PC is in the configured subclass range, its real bandwidth is much lower

Condition: If LAN PC is in the configured subclass range, its real bandwidth is much lower

34. [BUG FIXED] SPRID: 060303319

Symptom: If LAN PC is out of the range, the real bandwidth is much higher than unallocated bandwidth, and even higher than the root class

Condition: If LAN PC is out of the range, the real bandwidth is much higher than unallocated bandwidth, and even higher than the root class

35. [BUG FIXED] SPRID: 060303320

Symptom: Chariot bug issue

Condition: Chariot testing will fail when simultaneously run 10 Chariot script

36. [BUG FIXED] SPRID: 051222326

Symptom: GUI Group Data Privacy issue

Condition: In P660HW-61 WEB (3.40(PE10) C0), when user chooses WPA-PSK, the group Date Privacy is available but if users chooses WPA2-PSK, the group Date Privacy isn't available. While in SMT, both are not available. According to RD, WPA-PSK encapsulation is TKIP by default, while WPA2-PSK is AES by default. So there is no need to have the "Group Date Privacy" for WPA-PSK

37. [BUG FIXED] SPRID: 060303321

Symptom: For some strange reasons then if you are connection a MAC to the P660HW-61 when using the Port policy v2, then the P660HW-61 will hang

Condition: For some strange reasons then if you are connection a MAC to the P660HW-61 when using the Port policy v2, then the P660HW-61 will hang

38. [BUG FIXED] SPRID: 060303322

Symptom: The error log will display "ERROR 192.168. exceeds the max. number of session per host!" in SMT when nat sessions are all used. The ip address was shortened.

Condition:

1. Enter menu 24.8 in SMT.
2. Enter "ip nat session 10" to set the nat session of per host to 10.
3. Create many traffic to internet in your PC(such as Ping, IE and FTP).
4. Monitor the nat session through "ip nat hashTable wanif0".And use "sys log error disp" to see the wrong log if the session number exceed 10.

39. [BUG FIXED] SPRID: 060303323

Symptom: DUT crash when perform pcflank "Exploits Test".

Condition: DUT receive a public IP, then go to "www.pcflank.com" website, select "Exploits Test" and select "Nestea", device will crash.

40. [BUG FIXED] SPRID: 060303324

Symptom: set a filter, when apply it use CI command in WAN, it must fill 4 parameter, but apply it in LAN it need not to fill 4 parameter, it can be save when it have only 1 parameter.

Condition: set a filter, when apply it use CI command in WAN, it must fill 4 parameter, but apply it in LAN it need not to fill 4 parameter, it can be save when it have only 1 parameter.

41. [BUG FIXED] SPRID: 060303286

Symptom: System can't accept 255.255.248.0 as valid subnet mask in LAN and WAN IP address setting.

Condition:

When you set IP address and subnet mask at:

(1)LAN configuration page
(2)WAN configuration page
(3)Wizard for LAN
(4)Wizard for WAN

Subnet mask 255.255.248.0 can't be accepted as a valid subnet mask

42. [BUG FIXED] SPRID: 060303288

Symptom: eWC time out but can reset DUT to the factory default.

Condition:

    Step1 enter eWC->maintenance->firmware

    Step2 enter SMT menu 24.8 CI command "sys reboot"

    Step3 after DUT startup click the reset button in eWC then can reset DUT to the factory default

43. [BUG FIXED] SPRID: 060303289

Symptom: In EWC ISP's name and ESSID can accept special characters which is not accordant with SMT

Condition: In SMT menu 4 and menu3.5 the ISP's name and ESSID can not accept special characters such as #$%^, but in eWC can accept it

44. [BUG FIXED] SPRID: 060303293

Symptom: The "Connection testing" page will change to "connection testing fail" Page for only one browser

Condition:

    1. If there are no correct PVC in hunting table

    2. Page will return to "Auto_Hunt_Fail"

    3. If there are two or more browsers, only one page will display "Auto_Hunt_Fail", the other pages will also display "Connection testing"

45. [BUG FIXED] SPRID: 051118186

Symptom: device will be crash

Condition: 1. set default romfile

        2. in vc hunt table have vpi/vci=0/33

        3. turn on vc hunt debug flag

46. [BUG FIXED] SPRID: 060303295

Symptom: It can't escape SMT24.1

Condition: When performing vc-hunt process

47. [BUG FIXED] SPRID: 060303298

Symptom: eWC timeout but telnet port still can save change

Condition:

    Step1.eWC in remote management

    Step2.change telnet port 23 to 23023 and wait 3 minutes

    Step3.apply it

    Step4 turn on login face and login step5.in remote management the telnet port has changed frome23 to 23023?

48. [BUG FIXED] SPRID: 060117825

Symptom: While set the DUT LAN "Client IP Pool Starting Address" and "Size of Client IP Pool" which are not match the "IP Subnet Mask", but this can be saved in GUI\Wizard Setup and rom-t.

Condition:

    Step1: While set the DUT LAN setting as below: "Client IP Pool Starting Address=192.168.1.4", "Size of Client IP Pool=4", "IP Subnet Mask=255.255.255.248", the DUT will show a prompt in SMT and GUI/Advanced Setup "Invalid DHCP Size of Client Pool"

    Step2: But in GUI/Wizard Setup and rom-t, this configuration will be saved, and LAN PC can get the IP from 192.168.1.4.

49. [BUG FIXED] SPRID: 060303299

Symptom: In "many to many no overload" mode, IGA and ILA does not match, but it can save in EWC

Condition:

Step 1: In the SMT menu 15.1.1, edit one rule, choose the type "many to many no overload", if the number of local IP is not equal to the number of global IP, there is error information "IGA and ILA does not match" and the setting can't be saved

Step 2: In the GUI setting, if the number of local IP is not equal to the number of global IP, there is no error, and in the SMT menu 15 the setting has been saved

50. [BUG FIXED] SPRID: 060303300

Symptom: CI command "sys stdio" does not follow the spec

Condition: Enter "sys stdio 4 30", it will set the timeout to 30 seconds.

51. [BUG FIXED] SPRID: 060303301

Symptom: Upload wrong romfile by SMT Restore Configuration may cause device crash.

Condition: If the upload romfile is text format or wrong content binary image, after restore from SMT 24.6, the device may crash.

52. [BUG FIXED] SPRID: 060303302

Symptom: device will crash

Condition: when we set menu 11.1 nat full feature and multicast choose IGMP V1 or IGMP V2

53. [BUG FIXED] SPRID: 060303290

Symptom: Prestige can not be managed from WAN side in RFC1483bridge mode

Condition: N/A

54. [BUG FIXED] SPRID: 060303291

Symptom: Set NAT rule, the DUT will crash. Set 10 rules in menu 15.1.1, then set rules one by one in menu 15.1.2, when you set the 9th rule, DUT will crash

Condition: N/A

55. [BUG FIXED] SPRID: 060303292

Symptom: "wlan display" CI command doesn't work after type once till reboot

Condition:

Step1: in CI command, type "wlan display" it shows right information

Step2: goto menu3.5, change some value (such as ESSID)

Step3: goto menu24.8, type "wlan display", it can't show the right value

56. [BUG FIXED] SPRID: 060303294

Symptom: Many to Many no overload does not work.

Condition:

Step1.reset the DUT to factory default

Step2.in menu 15 set address mapping rule is many to many no overload, in menu 4 select NAT=full feature

Step3. Reboot device, then LAN PC can not ping WAN PC, and the WAN PC can ping DUT's wan ip successfully

57. [BUG FIXED] SPRID: 060303296

Symptom: set a schedule, when apply it use CI command "wan node callsch" it

must fill 4 parameter, that is to say, you must type like this "wan node callsch 1 0 0 0", but not like "wan node callsch 1"

      Condition: set a schedule, when apply it use CI command "wan node callsch" it must fill 4 parameter, that is to say, you must type like this "wan node callsch 1 0 0 0", but not like "wan node callsch 1"

58. [BUG FIXED] SPRID: 060303297

      Symptom: Configure firewall will cause DUT crash.

      Condition: In GUI->advanced setup ->firewall->rule summary, create a rule and apply it, then enter the rule and delete it, click back button in IE column and apply it again ,the DUT will crash

59. [BUG FIXED] SPRID: 060303303

      Symptom: After issuing "sys atwe" to change mac address without rebooting, the mac address of wlan doesn't be changed

      Condition: N/A

60. [BUG FIXED] SPRID: 060303304

      Symptom: DUT will show display the debug information"action2=1" or "action2=3"ceaselessly when schedule is used?

      Condition:

          Step1 use PPPOA and nailed-it up

          Step2 set a schedule start time 00:03 and duration time is 00:02 and force down

          Step3 in menu11.1 schedule set =1, now time is 00:02 when time is 00:03 then PPPOA turn down. Now SMT will show display the debug information"action2=1" ceaselessly

          Step4 if the schedule action is set to disable dial-on-demand, it will show "action2=3"

          Step5 use the pppoe has the same issue

61. [BUG FIXED] SPRID: 060303305

      Symptom: The RIP via IP alias 1 and IP alias 2 can not works correctly.

      Condition:

          Step1.in GUI, config the IP alias 1 and IP alias 2, set the RIP direction = Both or In only, the RIP Version = RIP-1, RIP-2B or RIP-2M.

          Step2.in LAN PC use tool generate RIP packet, the DUT can't receive the RIP packet.

          Step3.use CI commands setup, have the same issue.

62. [BUG FIXED] SPRID: 060303306

      Symptom: When select authencation mode: WPA, client can not link to AP

      Condition: When select authencation mode: WPA, client can not link to AP

63. [BUG FIXED] SPRID: 060303307

      Symptom: MIB Browser timeout but it still can set "sysName"

      Condition:

          Step 1: Set with CI command "sys romr" and choose setting to "y" in menu 24.8 to reset default romfile

           Step 2: Edit SMT menu 22 to set Get Community = 123456 and Set Community =123456, Trusted Host = 0.0.0.0, Trap Community = 123456, Destination = 192.168.1.33(LAN set PC IP address)

Step 3: Don't exit SMT

Step 4: To MIB Tree/iso/org/dod/internet/mgmt/mib-2/system/sysName, then choose "Set" function -->To "Value to Set" Item, key in "AAA" --> press "Set Value in Remote SNMP Agent" button

Step 5: When request time out, the information can still be stored

64. [BUG FIXED] SPRID: 060303308

Symptom: PPPoA idle time issue

Condition1:

1. PPPoA and LAN PC ping WAN PC continuously

2. Reboot device, it can not connection to the remote node

Conditon2:

1. PPPoA and choose nail-up yes

2. In SMT-4 or SMT-11 change between two right accounts, device can not connect to remote node

65. [Feature Enhancement]

Change default romfile, change NAT session to 512

66. [BUG FIXED] SPRID: 060303309

Symptom: Exception: We config system name = 30 characters via SMT and use WPA in wireless security. If the wireless client try to associate to Router via WPA, then router exception.

Condition: Exception: We config system name = 30 characters via SMT and use WPA in wireless security. If the wireless client try to associate to Router via WPA, then router exception.

67. [BUG FIXED] SPRID: 060303313

Symptom: In SMT and GUI, timezone miss some items such as: GMT+9.5 (Adelaide, Central Australian Standard Time). The number of missed items is 50. The total should be 75 just like WinXP.

Condition: N/A

68. [BUG FIXED] SPRID: 060117823

Symptom: There're some problems in the wireless-WPA/802.1x of GUI.

Condition:

1. In GUI there is a WPA mixed mode when you select WPA-PSK, but in SMT there does not have this mode.

2. In GUI there is a Authentication database selection in WPA2, but in SMT there does not have this selection.

3. Sometimes in GUI the authentication database can't be selected in 802.1x mode.

69. [BUG FIXED] SPRID: 051031196

Symptom: the release note is different from the SMT

Condition:

step1.Menu 15 Release note: Press ENTER to Confirm or ESC to Cancel:

SMT: Enter Menu Selection Number:

step2.Mune 23.4 Release note have: Data Privacy for Broadcast/Multicast packets= N/A

SMT: have no this item

70. [BUG FIXED] SPRID: 060303314

Symptom: frag threshold number should not be odd number

Condition: in GUI, Wireless LAN, Wireless, the Fragmentation Threshold should not be odd number

Modifications in V 3.40(PE.10)C0 | 10/28/2005
1. Change to FCS version
2. Change default rom file
   Enable wireless 4X mode; Enable Wireless qos.

Modifications in V 3.40(PE.10)b1 | 10/09/2005
1. [Feature Enhancement]
   Employ Cone NAT, N2P support.
2. [Feature Enhancement]
From APDK5.2 change to APDK6.0,support WMM and WPA2.
3. [Feature Enhancement]
   Enhancement for zero configuration. Add a new page zCfgTryAgain.html. This page will be showed when DSL line has not up. Close web redirect once PPPOE user name and password are right

4. [Feature Enhancement]
disable Webredirect, Ways to disable Zero configuration, web redirection and VC auto-hunt completely. Zero configurations should have right wording(it should show "PPP" in stead of former "PPPoE") in the URL about PPPoE/PPPoA.

5. [Feature Enhancement]
   Throughput enhancement for TI platform
6. [Feature Enhancement]
   Support MSN Messenger 6.2 & 7.0 passthrough without UPNP enabled.
7. [BUGFIXED]
   SPRID:050916691
   Symptom:Whiteboard(WAN to LAN) can't work well when UPNP is enable.
   Condition:Whiteboard(WAN to LAN) can't work well in all of the following conditions.
      1.OS is based on WinXP;
      2.enable UPNP and "Allow users to make configuration changes through UPnP " in GUI-UPNP;
      3.make sure that wan should be first to ask for whiteboard;

      4.MSN6.2-MSN6.2;MSN7.0-MSN6.2;MSN6.2-MSN7.0;MSN7.0-MSN7.0.
8. [BUGFIXED]
SPRID:050916685
   Symptom: if we set dhcp start ip address to a wrong range, we still can save these setting
   Condition: set dhcp ip address to conflict with router lan ip address, and we can save these setting in menu 3.2
9. [BUGFIXED]
SPRID:050916686
   Symptom: Chariot testing fail if simultaneously select multiple Chariot script.
   Condition: Topology: EndPoint1--660R--DSLAM--BRAS--Endpoint2

Selecting all 10 internet standard scripts(\netiq\chariot\script\internet\) run at
the same time for a long continuous time, error with the number
0245 in Chariot
will occur and it will stop the test.

10.   [BUGFIXED]
   SPRID:050916687
   Symptom: While WAN encapsulation is set to ENET ENCAP and dynamic IP address is
used, if WAN IP
        is changed, NAT session will not be reset, it will cause internet access fail.
   Condition: (1)Set DUT WAN encapsultion to ENET ENCAP and dynamic IP address,
after get IP address   from DHCP server on WAN side, internet access can be
successful.
        (2)Edit the static DHCP pool of DHCP server on WAN side to allocate another IP
address to   DUT, and pull out ADSL line for a moment and insert it to ensure IP
re-allocation.
        (3)After get new IP, internet access will be fail.

11.   [BUGFIXED]
   SPRID:050916688
     Symptom: The "Connection testing" page will not change to " Connection testing Fail"
             page If there are no corrcet PVC in hunting table
     Condition: If there are no corrcet PVC in hunting table then getHuntState()
             function never return AUTO_HUNT_FAIL.

12.   [BUGFIXED]
   SPRID:050916690
    Symptom: If wireless LAN card is removed from P660HW-6x board, rom-t file get from
device   will be disorder
    Condition: Remove wireless LAN card from device, then get rom-t, title and content will
not
         match for some items.

13.   [BUGFIXED]
   SPRID:050916692
     Symptom:In GUI, The WAN Backup functions need at least one none-zero Check WAN
IP
     Condition:ICMP mode this is right,but in DSL Link mode this is wrong.

14.   [BUGFIXED]
   SPRID:050916696
     Symptom: lan can't ping wan when change encapsulation
     Condition: 1.lan ping wan 192.168.8.2 continusly.
             2.In SMT Menu4,change encapsulation to PPPoE,lan can ping wan.
             3.change encapsulation to ENETCAP or RFC1483,lan PC can't ping wan.

15.   [BUGFIXED]
   SPRID:050916708
     Symptom: Traffic redirect work have problem.
     Condition: Step1 Use ENEP ENCAP, in DUT and device in menu 3.2 turn off RIP
     Step2 In DUT menu2.1 set backup gateway is 192.168.1.5 and in device 3.2 LAN ip set
192.168.1.5

   Step3 from LAN pc ping wan pc 192.168.8.11 -t (same subnet as wan ip) it is ok ,then pull off DUT wan
      line, the traffic go out from device, but when plug into the DUT wan line, then the traffic can
      not go out, pc reboot is ok but use ENET ENCAP ping outside ip such as 202.96.209.5 is ok, and
      use PPPOE ping inside ip such as 192.168.8.1 is also ok)
16.   [BUGFIXED]
   SPRID:050916710
   Symptom: If one WLAN client connect to device using WPA-PSK, then change the mode
         from WPA-PSK to WPA. Device will exception.
      Condition: If one WLAN client connect to device using WPA-PSK, then change the mode
         from WPA-PSK to WPA. Device will exception.
17.   [BUGFIXED]
   SPRID:050916711
   Symptom: If turn on the WLAN WPA-PSK mode, then the second PPPoE connection will not work.
      Condition: 1. Set a PPPOE connection in remote node 2.
            2. The PPPOE will up.
            3. Turn on WLAN WPA-PSK then the PPPOE connection will down.
18.   [BUGFIXED]
   SPRID:050916712
   Symptom: If using MultiBoot V2 and update all files (bootbase, rom and ras)
         ,it should be no problem to support different size bootbase/rom , but occurs fail.
      Condition: upload all files,if bootbase/rom file size is different from old f/w ,it always occurs fail,
            RAS file can't write to flash.
19.   [BUGFIXED]
   SPRID:050916713
   Symptom: When DUT use static IP and set DNS server address in
            GUI->wizard, DUT won't resolve domain name successfully until reboot
      Condition:Step1 Go to GUI, configure DUT use static IP and set DNS server, then go
            to Maintenance->Diagnostic, try to resolve domain name, but failed
            Step2 Reboot DUT, it works fine
            Step3 This many cause TMSS/AV/CAC/DDNS functions doesn't work for these
            functions need DUT resolve domain name
20.   [BUGFIXED]
   SPRID:050916714
      Symptom：PPPoA idle time issue
      Condition1: 1. PPPoA and LAN PC ping WAN PC continuously
         2. Reboot device ,it can not connection to the remote node
      Conditon2: 1. PPPoA and choose nail-up yes
         2. in SMT-4 or SMT-11 change between two right accounts ,device can not connect

to remote node
21. Change datapump to 4.2.1.0
22. [BUGFIXED]
SPRID: 051008870
Symptom : PPPoE LED can't lighting when use PPPoA Encapsulation sync up.
Condition: Use PPPoA Encapsulation to sync up.

Modifications in V 3.40(PE.9)C0 | 5/13/2005
1 change to FCS
Modifications in V 3.40(PE.9)b3 | 5/13/2005
1[BUG FIXED]
  Wireless IOP issue.
Modifications in V 3.40(PE.9)b2| 4/28/2005
1[Feature Enhancement]
  When you use reset button to start OTIST, it also can general WPA-PSK key
2[BUGFIXED]
  Symptom: After disable SIP ALG, MBM can't work for VOIP traffic.
  Condition: (1)disable SIP ALG via C/I command,
        (2) Set a rule in MBM for SIP application
        (3)use a ATA to dial to another SIP client via SIP proxy, the traffic can't managed
     by MBM.
3[BUGFIXED]
SPRID:050419922
Symptom: then redirect to the page of Test Frame ceaselessly

Condition:
 When popup the page of change username and password in zero configurations, input the
inaccurate username and password,

Modifications in V 3.40(PE.9)b1| 4/11/2005
1Support ADSL 2+ by TI modem code 3.2.6
2 [Feature Update]
   add mutiboot firmware upgrade feature
3 [Feature Enhancement]
   Add SIP ALG enable /disable in eWC(by default disable)
4 [Feature Enhancement]
  In GUI ,add a checkbox to control wireless g+ (by default enable)
5[Feature Enhancement]
 Diffserv in MBM.
6 [Feature Enhancement]
 MBM mapping to ATM queque
4.5.6.7-> ATM high queue
0.1.2.3->ATM low queue
7[Feature Enhacnement]

Add a drop list for user to choose "802.11g only""802.11b only" "mixed "

8 [Feature Enhacement]

Pop-up a warning message" your pass word username is wrong please check", if user enter the wrong id and password when doing zeroconfig

9 change default   MAC to   001349000001

10. [BUG FIXED]

    TE report device will reboot about 3%-7% when change wireless config.

11[BUGFIXED]

  Symptom: it should show test html and popup a success html or change username or password html. But it show nothing else login GUI.

  Condition: when zero configure is enable .

12. [BUG FIXED]

   Symptom: device will crash

   Condition: we ftp to device and then change to http in IE browser

13 [BUG FIXED]

Symptom: it will show some error message, when device boot up

Condition: when F/W load to a device without wireless card.

14[BUG FIXED]

Symptom: wireless can not connect to device with WEB 256-bits

Condition: N/A

15. [BUG FIXED]

Symptom: they find the first hop and the second hop is the same one

Condition: the PC behind device tracert router

16．[BUG FIXED]

SPRID：050107337

Symptom: in eWC NAT can not work correctly if I change the Server Mapping Set.

Condition:

Step1: in eWC =>Advanced Setup=>NAT,choose Full Feature and Edit the Rule 1;

Step2: choose the Type as Server mode,and set the Globle IP as the Wan ip of the DUT;

Step3: Server Mapping Set choose 2,and Edit Details,and add the Port 2121 forward to the LAN PC "10.0.0.2";

Step3: using an PC in the Wan to access the ftp(port 2121) server on the LAN PC.This must be successful;

Step4: then choose the Server Mapping Set 3, and Edit Details to add the Port 23 forward to the LAN PC. then Apply.

ftp from the WAN to the LAN also can successful, but telnet from WAN to LAN can not work.

Then reboot the DUT, the Server Mapping Set 3 can work, but the details shows the error information.

17．[Bug Fixed]

SPRID: 041028829

   Symptom:You can not modify firewall rule, Nat - address mapping rule does not show in the approciate / exact colum

   Condition:if using other web browsers like Mozilla 1.7.5.

18．[BUG FIXED]
　Symptom: the device will crash
　Condition: when vchunt is active and delete menu 4
19．[Feature update]
　 Recovery 802.11 mode changing command.This command can't be saved into romfile same as 5.0.7.

20．BUG FIXED]
　Symptom: Customer reported if a link request is given in IE can hang/reboot the ZyXEL-device.
Condition:http://192.168.1.1/Forms/rpAuth_1?ZyXEL%20ZyWALL%20Series <script>top.location.pathname=%20""</script>
21.[BUG FIXED]
　　　Symptom: 　　　using wordpad edit the rom-t file, the PPPoE password will be changed unexpected.
　　　Condition: (1)In SMT menu4, set encapsulation to PPPoE mode and make sure the DUT can dial up.
　　　　　　(2) Get rom-t and use wordpad to edit it, change the sysname to "hehe" and save.
　　　　　　(3) upload the edited file to the DUT, and the DUT can't dial up PPPoE password is changed to correct one.(use notepad and UltraEdit have no problem)
22 [BUG FIXED]
SPRID:041230566
Symptom: The "Back" button in LAN Setup can't work correct.
Condition: Step1. In GUI/Advanced Setup/LAN/LAN Setup, change some settings.
Step2. Click "Back" button, the DUT can save it successfully.

23[BUG FIXED]
　Symptom: secondary DNS server doesn't work
　Condition: connect DUT to LAN port of ZyWALL via IES, the wan port of ZyWALL is connected to internet; DUT gets IP address and DNS server from ZyWALL's DHCP server; when primary DNS server is unreachable, secondary DNS server doesn't work either.
24[BUG FIXED]
　Symptom: When we get rom-t from LAN side by FTP , and modified it, then put rom-t ,the device won't accept the new rom-t. (Just only use ultraedit modify rom-t, the DUT can accept it, but while use other utilities--DOS Edit/Word/Notepad/WordPad modify the rom-t, the DUT can not accept it.)
　Condition: N/A
25[BUG FIXED]
　Symptom: TFTP Firmware upload failure
　Condition: In menu 24.11, leave the telnet server port default, upload firmware using tftp from lan side pc, it always fails; but if telnet server port is changed to 23, the function works well
26[BUG FIXED]

SPRID: 041224286

Symptom: SMT&eWC standard show is different

Condition: In menu 24.2.1, show Standard :Multi-Mode, but in eWC

Maintenance->System Status,Standard :ADSL_G.dmt

27[BUGFIXED]

Symptom: it failed to login eWC when input 31 characters

Condition: When set 31 characters password on eWC,DUT will accept it

28[BUGFIXED]

SPRID:050329394，050307379

Symptom: When 2 PCs visit eWC of DUT, the priority have some problem

Condition: Step1 The first PC visit the eWC of DUT, and keep login status

Step2 Then the second PC temp to access the eWC of DUT, and show the page of

password entry Step3 Clicking login make the first PC logout automatically, although

the second PC also can not login eWC

29[BUGFIXED]

Symptom: After disable SIP ALG, MBM can't work for VOIP traffic.

Condition: (1)disable SIP ALG via C/I command,

  (2) Set a rule in MBM for SIP application

  (3)use a ATA to dial to another SIP client via SIP proxy, the traffic can't managed

by MBM.

30[BUGFIXED]

SPRID: 050310549

symptom: we can not set device ip 0.0.0.0 in SMT ,but we can set it in eWC

condition: N/A

31 ADSL CI command format changes

32 [Feature Change]

   We can not delete menu 4.

33[BUGFIXED]

Symptom:Wireless hang-up eMule throught WLAN

Condition: N/A

34[BUG FIXED]

Symptom: Special URL will cause system crash.

Condition: Form LAN site, enter

http://192.168.1.1/Forms/rpAuth_1?ZyXEL%20ZyWALL%20Seriesscript>top.locat

ion.pathname=%20""</script> on browser, the device

 will crash.

35 [BUG FIXED] (Bridge Performance)

  Symptom: Bridge performance is poor.

  Solution: Remove unnecessary memory movement in bpdu_handling() function.

36 [FEATURE ENHANCEMENT] (MULTICAST)

  Symptom: While injecting multicast traffic from WAN to LAN in bridge

   mode, CPU loading is heavier than injecting unicast traffic.

37 [FEATURE CHANGE]

Change CI command" wlan chgmode" make it can show 802.11 mode. And save to romfile.

38[BUG FIXED]

SPRID:050301058，050310508

Symptom: In smt21.1 IP filter, IP=*.*.*.*, mask=255.255.255.0, it can save...

the correct mask is 255.255.255.255. or IP=*.*.*.0, mask=255.255.255.0

Condition: N/A

39[BUG FIXED]

SPRID: 050329394，050316845

Symptom: In GUI wireless LAN page, if click passphrase button, make checkbox of Enable Wireless g+ inactive automatically.

Condition: Step1: In GUI wireless LAN page, input passphrase key and click "Generate" button.

Step2: The Checkbox of Enable Wireless g+ change from active to inactive automatically

Modifications in V 3.40(PE.8)C0| 12/23/2004

1 change to FCS

Modifications in V 3.40(PE.8)b2| 12/17/2004

1. [BUG FIXED]

Symptom: When the PC is being connected to DUT through wireless, reboot system, the DUT will crash.

Condition: Step1: PC(install SP2) is being connected to DUT through wireless.

Step2: At this time, reboot system

Step3: DUT will crash.

2. [BUG FIXED]

Symptom: The "Back" button in Wireless-MAC filter can't work correct.

Condition: 1.in GUI, Advanced Setup-Wireless LAN-MAC Filter, change some setting   2.click Back button, the DUT can save it successfully.

3. [BUG FIXED]

Symptom:

our WLAN device should disallow the client with MAC "00:00:00:00:00:00" when user define only allowed MAC (ex. only "01:02:03:04:05:06" can access) via MAC filter

Condition:

Take one B220 for example, its MAC is "00:A0:C5:43:FD:C5".

1. Add one allowed MAC filter to "01:02:03:04:05:06" on device via SMT menu 3.5.

2. The B220 cannot access to the device because it only allow MAC "01:02:03:04:05:06" to access.

3. Modify B220's MAC to "00:00:00:00:00:00".

4. Then you find B220 can access device.

The WLAN client is possible to change its MAC address to "00:00:00:00:00:00".

Customer hope our devices should not allow the MAC like 00:00:00:00:00:00 by default.

4. [BUG FIXED]

Symptom: anyip can't inactive in eWC immediately

Condition: step1 in eWC active anyip it can work

step2 when inactive anyip it can still work but in SMT don't have problem

5. [Feature Enhancement]
   support wlan auto security key lenghth 0-8.
   Change name to OTIST
   Add help page.
6. [BUG FIXED]
   Symptom: IP source address become zero in WAN side.
   Condition: IP source address is translated to zero by NAT, if
   destination IP address is multicast group.
7 [BUG FIXED]
   Symptom: The natSetSessionPerHostForIface() causes excetion
   Condition: due to the NULL pointer access. The st_p will become NULL in some
   case.
8 [BUG FIXED]
   Symptom: vc hunt can not alloc mbuf again when vc hunt table is more than 8
   Condition: N/A
9 [BUGFIXED]
   Symptom: The WLAN stations can't access the network anymore.
   Condtion: After config the Bandwidth management from Wizard.Just leave the default
   setting.
10 [BUGFIXED]
   Symptom: ping can not continue
   Condition: if you set enet encap, and then ping a ip to wan , and then pull off wan,
pull on it again .
11 change default romfile.
   Change Wireless ESSID to ZyXEL

Modifications in V 3.40(PE.8)b1| 12/03/2004
1 [BUG FIXED]
   Symptom: Configure DNS server in SMT 3.2, it can take effect only after reboot the
            device.
   Condition: Reset default romfile, Configure DNS server in menu 3.2 and save, then
            do "ip ping www.hinet.net", it can not work. But it will be OK after we
            reboot the device.

2 [BUG FIXED]
   Symptom: PPPoE cannot up when exchange "forced down"to "forced on" or "Enable
            dial-on damand".
   Condition: In menu11 nailed-up set "yes", when action exchange from "forced down"
            to "forced on" or to "enable dial-on demand" in menu 26, PPPoE can not
            link up unless you reboot the device.

3 [BUG FIXED]
   Symptom& Condition : When we enable "ping traffic is blocked from the WAN "
            function that it will also block the ping traffic from LAN->WAN

4   [BUG FIXED]
   Symptom: ZyXEL Prestige Router Discloses Portions of Memory Contents to Remote
                Users .
   Condition: When send icmp packet with less data than normal, remote interface pad
                with data to complete the frame memory contents.

5   [BUG FIXED]
   Symptom: In eWC If we do ping function from DOS mode then change Encapsulation
                to PPPoA or PPPoE that you can see the connection can't connect.
   Condition: N/A

6   [BUG FIXED]
   Symptom and Condition: the bonk attack will cause the device exception.

7   [BUG FIXED]
   Symptom: WE delete menu4 the system do reboot while VC hunt function enable,
                system reboot.
   Condition: Delete SMT>> menu 4, then configure menu11, when connecting to
                DSLAM with VC hunt function enable, system will reboot.
8. [BUG FIXED]
   Symptom:The SIP ALG has some problem, some fields in SIP message do not
translated by ALG.
   Condition:N/A
9. [BUG FIXED]
   Symptom: CPU loading will reach to 100% easily with multiple PVCs in bridge mode.
   Condition: Under heavy downstream traffic with multiple PVCs in bridge mode.

10. [BUG FIXED]
   Symptom: the Content filter function can not work
   Condition: if we key in capital letter . Such as "yahoo" is keyed as "Yahoo""
11. [BUG FIXED]
   Symptom :Traffic redirect can't work properly
   Condition: In Dsl link mode when We set Enet encap mode.
12. [BUG FIXED]
   Symptom:In smt 3 2 ,when we change nothing but it still save to romfile.
   Condition: we change nothing in smt menu 3-2

13. [BUG FIXED]
   Symptom:Ippr will not be active.
   Condition: we have set IPPR rule in menu 25 and apply it in menu 3-2 ,and then reboot
device.

14. [BUG FIXED]
   Symptom: PPPoE Pass through under Wireless function can not work.
   Condition:N/A

15 . [BUG FIXED]

    Symptom: Sometime the status keep in N/A and can't dial again in PPPoA or PPPoE mode

    Condition: while we changed PPPoA or PPPoE setting several times like statin IP <-> Dynamic IP , Idle time out <-> Nailed , VC<-> LLC . --> The device must reboot just can work again

16[BUG FIXED]

  Symptom: device will crash

  Condition: if PPPOE server use Password Authentication Protocol and then our device will receive a packet PAP_ACK or PAP_NAK which data field is NULL

17[BUG FIXED]

  Symptom: PPPOE pass-through work not properly

  Condition: When we set PPPoE pass-through in Menu 11.8, the LAN side PC can dymanic get the IP address, but can not get reply from ping the LAN IP address

18[BUG FIXED]

  Symptom: user can access some html page without user name and password

 Condition:N/A

19[BUG FIXED]

  Symptom: Device will Crash

  Condition: In smt ,ip ping and Ctrl+c repeat quickly

20[BUG FIXED]

   symptom: In eWC, config a server when select NAT Full Feature. the server set in smt and the one in eWC are different.

  Condition:

  condition1

  step 1: In eWC, Advanced Setup--->NAT--->Full Feature--->Edit Details.

  step 2: Click one of the rules.

  step 3: Select "Type" as Server, input the Globe IP and select a Server Mapping Set (2~10) such as 4.

  step 4: Click "Edit Details" into the Server Set, config and save.

  step 5: Go to SMT---> menu 15.2, we will find Server Set 4 has no information we configged in eWC, the information was stored in Server Set 1 which is special for SUA.

  condition2

  step 1: In eWC, Advanced Setup--->NAT--->Full Feature--->Edit Details.

  step 2: Click one of the rules.

  step 3: Select "Type" as Server, input the Globe IP and select a Server Mapping Set (2~10) such as 4.

  step 4: Click "Apply" to save it.

  step 5: Again enter the rule, click "Edit Details" into the Server Set, config and save.

  step 6: Go to SMT---> menu 15.2, we will find Server Set 4 has no information we configged in eWC, the information was stored in Server Set 5 which was not configged in eWC ever.

  21[BUG FIXED]

  symptom: the old routing entry is still exsit.

Condition: if we set a staic ip then routing table will add one , but when we change this static ip , we found the old routing entry is still exsit.

22．[Feature Enhancement]
IP Policy Router
23. [Feature Enhancement]
Up grade TI WLAN Driver to APDK 5.2.2.22 and Accommodate 4x Mode
24. [Feature Enhancement]
Triple Play-Port Base Policy
25. [Feature Enhancement]
Support wlan auto security
26. [Feature Enhancement]
Support pass phrase.

Modifications in V 3.40(PE.7)C0| 09/29/2004
1 Change to FCS.
Modifications in V 3.40(PE.7)b3| 09/20/2004
1[BUG FIXED]
 Symptom :Index of menu1 Domain Name display error： (2) the symbol of ＇,＇ can not work.
 Conditon: N/A
2[BUG FIXED]
 Symptom:QoS criteria violation. Do not comply with the rule: Priority(CBR) > Priority(VBR) > Priority(UBR)
 Conditon:N/A
3[BUG FIXED]
 Symptom: Bug fixed incompletely. eWC NAT/ full feature/ edit details needn't apply but save successfully.
 Conditon: N/A
4[BUG FIXED]
 Symptom: The router incorrectly leasing static DHCP address to the wrong computers.
 Condition:
    1. Go to Advanced Setup>LAN>Static DHCP and configure the first rule with the MAC address of workstation 1 and the IP Address 192.168.1.33.
    2. Attach workstation 2 to the router. It will get the 192.168.1.33 address.
    3. Attach workstation 1 to the router. It will fail to get an IP address from the router.
5[BUG FIXED]
 Symptom: Wan Backup Help message window is wrong.
 Condition: N/A
6[BUG FIXED]
 Symptom : There is a CI command set "wan adsl errorsecond xxx" doesn't work in TI platform.
 Condition: N/A
7[BUG FIXED]
 Symptom :Menu 15.1 the info "Enter Menu selection number" is showed duplicate.

Condition: N/A
8[BUG FIXED]
Symptom: eWC will hang when UPNP feature of our device is enabled.

Condition:(1) install windows xp service packet 2 in PC

(2)enable firewall of windows xp and also enable UPNP
framework pass through or disable firewall of windows XP.

(3) login in P660HW via eWC and enable UPNP, eWC will not be
able to access.

(4)the bug doesn't occur every time, but most time it will
occur.
9[BUG FIXED]
Symptom: Use CI command "wlan association" to show association list, it will cause system reboot.
Condition: When 3 stations connect to AP and users use CI command "wlan association" to show association list, it will cause system reboot.
10[BUG FIXED]
Symptom: When multiple stations connected to AP, once the previous one leave, the other stations also disappeared.
Condition: 1.Use Web to show association list.
2.When station disconnect the association, the system will not update the list.
3.When one station disconnect and another join, the association list will show error.
11[BUGFIXED]
Symptom: Wlan will receive the same multicast packet twice from PVC.
Condition: N/A
12 [ENHANCEMENT]
Remove CI command "wan is ","wan oos";
Modifications in V 3.40(PE.7)b2| 09/03/2004
1[BUG FIXED]
Symptom: config new time "12:22:22", click apply button, then the time show "11:22:22".
It reduce one hour.
Condition: Time, Synchronize system clock with Time Server.
2[BUG FIXED]
Symptom: Advanced Setup >> NAT Edit Address Mapping Rule, click "Edit Details".information will be save. eWC/Advanced Setup >> NAT Edit Address Mapping Rule, click "Edit Details". information will be saved.
Condition: Step 1 : To eWC/Advance setup/NAT
Step 2 : Click "Edit Details" but doesn't press "Apply" button
Step 3 : The to other items like "LAN"
STep 4 : Then to " NAT" again that you can see the setting have been save but we don't press "Apply' button.
3[BUG FIXED]
Symptom: WE delete menu3 the system do reboot while VC hunt function enable ,

System reboot.
Condition: Step (1) Delete SMT>> Menu 4. (2) Config Menu11. (3) Connect to DSLAM.
Reference: reboot info.

4[BUG FIXED]
Symptom: device will reboot.
Condition: login via eWC GUI with long password (about more than 50 characters).
5[BUG FIXED]
Symptom: "Index of menu1 Domain Name display error： 1. it should be "" A-Z"" instead of "" A-z"". 2. and the symbol of '，' cannot work."
Condition: Index of menu1 Domain Name display
6[BUG FIXED]
Symptom: Exception occur while End ip smaller then Start ip in SMT menu , save it DUT will reboot .
Condition: At NAT full feature use many to one or many to many. set End IP smaller than start IP save it in SMT menu . Then DUT exception occur. Ex : Start IP set to 192.168.1.33. End IP set to 192.168.1.5
7[BUG FIXED]
Symptom: We delete Menu4 the mode change to Multi mode while default set to G.DMT ot other.
Condition: We delete Menu4 the mode change to Multi mode while default set to G.DMT ot other.
8[BUG FIXED]
Symptom:Device will hang
Condition: when change NAT configuration in SMT menu 4, when performing change from SUA to Full feature if press "Enter" fast.
9 [BUG FIXED]
Symptom: then PPPoE could link successfully but PPPoE Pass-through is failed.
Condition: In eWC wan set up, select the PPPoE mode and enable PPPoE pass-through.
10[BUG FIXED]
Symptom: Can't establish PPPoE connection after PPPoE server reboot.
Condition: When router receive OAM AIS packets, PPPoE will not be triggered
again.
11[BUG FIXED]
Symptom: The router discloses portions of memory contents to remote users.
Condition: When send icmp packet with less data than normal, remote interface pad with data to complete the frame memory contents.
12[Enhancement]
 Assign staitic DHCP by MAC
Modifications in V 3.40(PE.7)b1| 08/19/2004
1 [BUG FIXED]
  Symptom: Two PVCs will work in improper manner.
  Condition: After two PVCs are established, change one VPI/VCI in DSLAM side.
2 [BUG FIXED]
  Symptom: DNS will resolve www.123.com as 0.123.0.0.
  Condition: When issue "ip ping www.123.com", the domain name will be resolved as

0.123.0.0.

Modifications in V 3.40(PE.6)C0| 08/12/2004
1 chang to FCS
Modifications in V 3.40(PE.6)b2| 08/06/2004
1 [BUG FIXED]
  Symptom: MBM wizard link to blank screen inGUI
  Condition: MBM wizard link to blank screen inGUI
2[BUG FIXED]
  Symptom: Http can not trigger PVC, and go to zeroconfig GUI
  Condition: set one remote note .
3 [BUG FIXED]
  Symptom: system exception
  Condition: device run MBM test and refresh MBM monitor
Modifications in V 3.40(PE.6)b1| 08/02/2004
1. [Enhancement]
   Add Media bandwidth management.

Modifications in V 3.40(PE.5)C0| 07/16/2004
1. Change to FCS version.

Modifications in V 3.40(PE.5)b3| 07/15/2004
1.Change xDSL GUI to completely solve login security problem.

Modifications in V 3.40(PE.5)b2| 07/12/2004
1. [Enhancement]
   Support IPv6 and AX.25 packet format in firewall available service.

2. [Enhancement]
   SPTGEN support for 8 PVC, WLAN Enable/Disable, and WPA, 802.1x

3. [Enhancement]
   CI command to enable/disable SIP ALG

4. [BUG FIXED]
   Symptom: Configure customer port in firewall will cause exception.
   Condition: Add, edit or delete a customer port or a range of customer ports will cause
             system reboot.

5. [BUG FIXED]
   Symptom: content filter sometimes can not work fine when using search engine
   Condition: 1. Setting content filter restricte keyword and enable keyword blocking on
               eWC.
             2. To setting content filter schedule on eWC.
             3. Using seach engine like "google" to search keyword.
             4. Sometimes could link restricted keyword's website.

6. [BUG FIXED]
   Symptom: Remove SMT4 ISP node, and doing VC auto-hunt, system will get exception

7. [BUG FIXED]
   Symptom: Java script error when configuring zero-configuration on WEB.

8. [BUG FIXED]
   Symptom: Traffic redirect function cannot work.
   Condition: When used as the mean of dial backup, Traffic Redirect won't work when
             ADSL link fails.

9. [BUG FIXED]
   Symptom: SMT sometimes would show wrong noise margin value.
   Condition: 1. Using CI command to see DSL noise margin after ADSL link-up.
              2. Sometimes would show wrong value when noise margin small than zero.

10. [BUG FIXED]
    Symptom: If PC is with windows XP, the AnyIP feature sometimes doesn't work
    Condition: Only happens on Windows XP PC

11. [BUG FIXED]
    Symptom: xDSL GUI has login security problem.

12. [BUG FIXED]
    Symptom: Fix bug that the selection data of radio button can be saved when Apply
             button is done.

13. [BUG FIXED]
    Symptom: ROM-D cannot work.

Modifications in V 3.40(PE.5)b1| 06/25/2004
1. [BUG FIXED]
   Symptom: Wireless WEP key should not treat character as HEX value on eWC.
   Condition: 1. Into Wireless LAN -> Wireless on eWC and setting WEP Encryption is
                 64-bit WEP.
              2. To input "0123456789" on key1 then to press apply button.
              3. The eWC can not display any error message.
              4. The 128 and 256 bit WEP have the same bug.

2. [BUG FIXED]
   Symptom: Device will reply wrong packet under ENET ENCAP + IES1000
            combination.
    Condition: One PC and two devices with ENET ENCAP are connected to IES1000.
               After PC ping device 1 and power-off device 1, PC pinging device 1 again
               will get reply from device 2.

3. [BUG FIXED]
   Symptom: Error ARP reply under 2 remote nodes. One is routing mode, and the other is
           bridge mode.
   Condition: Device is set 2 remote nodes. The 1st remote node is routing mode, and the
           2nd is bridge mode. When device recieves ARP request from the 1st remote
           node, it will reply it from 2nd remote node. This problem makes the remote
           VLAN enabled router confused and the communication will fail.

Modifications in V 3.40(PE.4)C0| 06/18/2004
1. Change to FCS version

Modifications in V 3.40(PE.4)b2| 06/15/2004
1. [Enhancement]
   Enhance accuracy of Feature "AUTO_MODIFY_PRODUCTNAME" which will
   automatically determine its product name: either P660HW-61 or P660H-61.

2. [Bug Fixed]
   Symptom: Web GUI and SMT setting in firewall are inconsistent on all release before
           (PE.4)b1, including (PE.4)b1.
   Condition: Previous release were based on old WEB GUI

3. [Bug Fixed]
   Symptom: QoS criteria violation.
           Do not comply with the rule: $Priority_{(CBR)} > Priority_{(VBR)} > Priority_{(UBR)}$
   Condition: When being loaded traffic beyond line rate, the remote node traffic
           configured in CBR doesn't maintain its rate which is achievable. Rather,
           CBR traffic could be worse than VBR traffic. It is because the system sets
           $Priority_{(CBR)} = Priority_{(VBR)}.$

Modifications in V 3.40(PE.4)b1 | 06/03/2004
1. Change TI datapump to TI AR7 03.00.09.00

Modifications in V 3.40(PE.3)c0 | 05/24/2004
 1. Change to FCS version.

Modifications in V 3.40(PE.3)b3 | 05/18/2004
1. [ENHANCEMENT]
   Enhance zero configuration web pages.

2. [BUG FIXED]
    Symptom: If you set right accounting server, password and enable it, when turn on/off
           authentication server or accounting server then system possible occurs
           reset.
   Condition: This is because when smt23-2 changing setting, system would send out
           accounting off packet to server and then create a timer to wait ack in 5

seconds period. Once receiving ack off system would delete parameter entry_p. In this time the "timer needs be stop" or after next 5 seconds the parameter entry_p would cause double free problem, then system reset.

3. [BUG FIXED]
    Symptom: 802.1x with dynamic WEP key cannot work when shared secret of accounting server is invalid
    Condition: 1. Enable smt23.2 authenticatior server and acctounting server.
    2. 802.1x supplicant associate to AP with mode 802.1x dynamic wep.
    3. Modify smt23.2 acctounting server shared secret with a wrong value.
    4. 802.1x supplicat was prohibited by 802.1x module.

4. [BUG FIXED]
    Symptom: SPT would show redundant error message "set TKIP key error" in Authentication required WPA mode if WPA broadcast key update Timer expired when wlan is not active
    Condition: Because wlan is not active so wlan chip is not initialized. In this time if setkeymapping() still set key into chip, it is natually generate set key error.

5. [BUG FIXED]
    Symptom: Manually change current hour and press "Save" button, the saved value is wrong.
    Condition: Using Web to setting current hour then to save it.

6. [BUG FIXED]
    Symptom: Use ROM-d to put default ROM file will get malloc fail even available memory size is still large than RAS size.
    Condition: Use FTP_BUFFER_SIZE to alloc memory, instead of allocate the size of flash.

Modifications in V 3.40(PE.3)b2 | 05/12/2004
1. [BUG FIXED]
    Symptom: Apple Power book can't get IP when enable AnyIP..
    Condition: Ask IP behavior in Apple is different with PC. Router would misunderstand Apple wants to ask IP or do any IP. We add a condition for Apple which don't run any IP.

2. [BUG FIXED]
    Symptom: ATM UBR, VBR can't work.
    Condition: Fixed. Add VBR configuration at SAR channel setup.

3. [BUG FIXED]
    Symptom: Using 802.1X + dynamic WEP key under WPA mixed mode, it will ping timeout after re-authentication.

Condition: In SMT 23.4, Setting 802.1x and Dynamic WEP key and setting the Re-authentication Timer as 60 secs---after the Client re-authentication, then the ping data from LAN to WAN will "timed out".

4. [BUG FIXED]
Symptom: Using WPA-PSK must enable RADIUS server.
Condition: Already fixed. Setting conflict problem.

5. [BUG FIXED]
Symptom: Upload firmware from TFTP, FTP or eWC failed when DSL is link up.
Condition: Fixed.

Modifications in V 3.40(PE.3)b1 | 04/26/2004
7. [ENHANCEMENT]
Add feature: bandwidth management, zero configuration (include: any ip, auto-hunting, web-redirect), firmware re-download mechanism in boot extension.

8. [ENHANCEMENT]
Add new firmware upgrade mechanism via FTP/TFTP/WEB in RAS.

Modifications in V 3.40(PE.2)c0 | 04/09/2004
1. Change to FCS version

Modifications in V 3.40(PE.1)c0 | 03/03/2004
2. Change to FCS version

Annex A CI Command List

Command Class List Table		
System Related Command	Exit Command	Ethernet Related Command
WAN Related Command	WLAN_Related_Command	IP Related Command
PPP Related Command	Bridge Related Command	Radius Related Command
8021x Related Command	Firewall Related Command	Configuration Related Command
SMT Related Command		

System Related Command   Home

Command				Description
sys				
	adjtime			retrive date and time from Internet
	cbuf			
		display	[a|f|u]	display cbuf a: all f: free u: used
		cnt		cbuf static
			display	display cbuf static
			clear	clear cbuf static
	baud		<1..5>	change console speed

	callhist			
		display		display call history
		remove	<index>	remove entry from call history
	clear			clear the counters in GUI status menu
	countrycode		[countrycode]	set country code
	date		[year month date]	set/display date
	domainname			display domain name
	edit		<filename>	edit a text file
	enhanced			return OK if commands are supported for PWC purposes
	errctl		[level]	set the error control level 0:crash no save,not in debug mode (default) 1:crash no save,in debug mode 2:crash save,not in debug mode 3:crash save,in debug mode
	event			
		display		display tag flags information
		trace		display system event information
			display	display trace event
			clear <num>	clear trace event
	extraphnum			maintain extra phone numbers for outcalls
		add	<set 1-3> <1st phone num> [2nd phone num]	add extra phone numbers
		display		display extra phone numbers
		node	<num>	set all extend phone number to remote node <num>
		remove	<set 1-3>	remove extra phone numbers
		reset		reset flag and mask
	feature			display feature bit
	fid			
		display		display function id list
	firmware			display ISDN firmware type
	hostname		[hostname]	display system hostname
	iface			
		disp	[#]	display iface list
	isr		[all|used|free]	display interrupt service routine
	interrupt			display interrupt status
	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
			mten [0:none/1:log]	record the system maintenance logs
			upnp [0:none/1:log]	record upnp logs
			urlblocked [0:none/1:log/2:alert/3:both]	record and alert the web blocked logs
			urlforward [0:none/1:log]	record web forward logs
		clear		clear log
		display		display all logs
		errlog		
			clear	display log error
			disp	clear log error

			online	turn on/off error log online display
		load		load the log setting buffer
		mail		
			alertAddr [mail address]	send alerts to this mail address
			display	display mail setting
			logAddr [mail address]	send logs to this mail address
			schedule display	display mail schedule
			schedule hour [0-23]	hour time to send the logs
			schedule minute [0-59]	minute time to send the logs
			schedule policy [0:full/1:hourly/2:daily/3:weekly/4:none]	mail schedule policy
			schedule week [0:sun/1:mon/2:tue/3:wed/4:thu/5:fri/6:sat]	weekly time to send the logs
			server [domainName/IP]	mail server to send the logs
			subject [mail subject]	mail subject
		save		save the log setting buffer
		syslog		
			active [0:no/1:yes]	active to enable unix syslog
			display	display syslog setting
			facility [Local ID(1-7)]	log the messages to different files
			server [domainName/IP]	syslog server to send the logs
	mbuf			
		cnt		
			disp	display system mbuf count
			clear	clear system mbuf count
		link	link	list system mbuf link
		pool	<id> [type]	list system mbuf pool
		status		display system mbuf status
		disp	<address>	display mbuf status
		debug	[on|off]	
	memory		<address> <length>	display memory content
	memwrite		<address> <len> [data list ...]	write some data to memory at <address>
	memwl		<address>	write long word to memory at <address>
	memrl		<address>	read long word at <address>
	memutil			
		usage		display memory allocate and heap status
		mqueue	<address> <len>	display memory queues
		mcell	mid [f|u]	display memory cells by given ID
		msecs	[a|f|u]	display memory sections
		mtstart	<n-mcell>	start memory test
		mtstop		stop memory test
		mtalloc	<size> [n-mcell]	allocate memory for testing
		mtfree	<start-idx> [end-idx]	free the test memory
	model			display server model name
	proc			
		display		display all process information
		stack	[tag]	display process's stack by a give TAG
		pstatus		display process's status by a give TAG
	queue			
		display	[a|f|u] [start#] [end#]	display queue by given status and range numbers
		ndisp	[qid]	display a queue by a given number

	quit			quit CI command mode

	reboot		[code]	reboot system
				code = 0 cold boot,
				    = 1 immediately boot
				    = 2 bootModule debug mode

	reslog			
		disp		display resources trace
		clear		clear resources trace
	stdio		[second]	change terminal timeout value
	time		[hour [min [sec]]]	display/set system time
	timer			
		disp		display timer cell
		trace	[on|off]	set/display timer information online
		start	[tmValue]	start a timer
		stop	<ID>	stop a timer
	trcdisp			monitor packets
	trclog			
		switch	[on|off]	set system trace log
		online	[on|off]	set on/off trace log online
		level	[level]	set trace level of trace log #:1-10
		type	<bitmap>	set trace type of trace log
		disp		display trace log
		clear		clear trace
		call		display call event
		encapmask	[mask]	set/display tracelog encapsulation mask
	trcpacket			
		create	<entry> <size>	create packet trace buffer
		destroy		packet trace related commands
		channel	<name> [none|incoming|outgoing|bothway]	<channel name>=enet0,sdsl00, fr0 set packet trace direction for a given channel
		string		enable smt trace log
		switch	[on|off]	turn on/off the packet trace
		disp		display packet trace
		udp		send packet trace to other system
			switch [on|off]	set tracepacket upd switch
			addr <addr>	send trace packet to remote udp address
			port <port>	set tracepacket udp port
		parse	[[start_idx], end_idx]	parse packet content
		brief		display packet content briefly
	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
	spt			

		dump		dump spt raw data
			root	dump spt root data
			rn	dump spt remote node data
			user	dump spt user data
			slot	dump spt slot data
		save		save spt data
		size		display spt record size
		clear		clear spt data
	cmgr			
		trace		
			disp <ch-name>	show the connection trace of this channel
			clear <ch-name>	clear the connection trace of this channel
		cnt	<ch-name>	show channel connection related counter
	socket			display system socket information
	filter			
		clear		clear filter statistic counter
		disp		display filter statistic counters
		sw	[on|off]	set filter status switch
		set	<set>	display filter rule
		netbios		
			disp	display netbios filter status
			config <0:LAN to WAN, 1:WAN to LAN, 2:LAN to DMZ, 3:IPSec passthrough, 4:Trigger Dial> <on|off>	config netbios filter
	ddns			
		debug	<level>	enable/disable ddns service
		display	<iface name>	display ddns information
		restart	<iface name>	restart ddns
		logout	<iface name>	logout ddns
	cpu			
		display		display CPU utilization

Exit Command

Command			Description
exit			exit smt menu

Ethernet Related Command

Command			Description
ether			
	config		display LAN configuration information
	driver		
		cnt	
			disp <name>	display ether driver counters
			clear <name>	clear ether driver counters
		iface	<ch_name> <num>	send driver iface
		ioctl	<ch_name>	Useless in this stage.
		mac	<ch_name> <mac_addr>	Set LAN Mac address
		reg	<ch_name>	display LAN hardware related registers
		rxmod	<ch_name> <mode>	set LAN receive mode. mode: 1: turn off receiving

				2: receive only packets of this interface 3: mode 2+ broadcast 5: mode 2 + multicast 6: all packets
		status	<ch_name>	see LAN status
		init	<ch_name>	initialize LAN
	version			see ethernet device type
	pkttest			
		disp		
			packet <level>	set ether test packet display level
			event <ch> [on|off]	turn on/off ether test event display
		sap	[ch_name]	send sap packet
		arp	<ch_name> <ip-addr>	send arp packet to ip-addr
		mem	<addr> <data> [type]	write memory data in address
	test		<ch_id> <test_id> [arg3] [arg4]	do LAN test
	pncconfig		<ch_name>	do pnc config
	mac		<src_ch> <dest_ch> <ipaddr>	fake mac address

WAN Related Command

Command				Description
wan	adsl	bert		ADSL ber
		chandata		ADSL channel data, line rate
		close		Close ADSL line
		coding		ADSL standard current
		ctrleint		ADSL CTRLE response command
		defbitmap		ADSL defect bitmap status
		dyinggasp		Send ADSL dyinggasp
		fwav		Test the ADSL F/W available ping
		fwdl		Download modem code, but must reset first
		linedata		
			near	Show ADSL near end noise margin
			far	Show ADSL far end noise margin
		open		Open ADSL line
		opencmd		Open ADSL line with specific standard
		opmode		Show the operational mode
		perfdata		Show performance information,CRC,FEC, error seconds..
		rdata	[start] [length]	Read DSP CTRLE registers 512 bytes
		reset		Reset ADSL modem, and must reload the modem code again
		selftest		
			long	ADSL long loop test
			short	ADSL short loop test
		status		ADSL status (ex: up, down or wait for init)
		version		ADSL version information
		vendorid		ADSL vendor information
		utopia		Show ADSL utopia information
		cellcnt		Show ADSL cell counter
		display		
			shutdown	Show the counter of rate adaptive mechanism happening
			rateup	Show real status that rate adaptive mechanism happened

		rateadap	[on|off]	Turn on/off rate adaptive mechanism
		dumpcondition	[on|off]	Turn on/off online debug information of rate adaptive mechanism
		sampletime	[mins]	Tune the sample time of rate adaptive mechanism
		noisegt	[dB]	if noise margin is 3db greater than before, and rate is worse than before, then system will do "L1 shutdown RA3", default is 3db
		noisemargin	[dB]	if noise margin is greater than this value, and rate is worse than before, then system will do "L1 shutdown RA3", default is 8db
		persisttime	[time]	when the adaptive condition is matched system will continue to monitor the time period "persisttime" before doing "L1 shutdown RA3", default is 30 seconds
		timeinterval	[mins]	when "L1 shutdown RA3" is done twice, and still can't reach the max rate which system recorded, it will delay a time period that the period base time is"timeinterval" before starting again. The time-based default is 2 hrs
		defectcheck	[on|off]	Turn on/off detect table checking, default is on
		txgain	[value]	Set the CTRLE register (0xc3), the value is from 0xfa to 0x06
		targetnoise	[value]	Set the CTRLE register (0xc4), the value is from 0xfa to 0x06
		maxtonelimit	[value]	Set the CTRLE register (0xc5), the value is from 0xfa to 0x06
		rxgain	[value]	Set the CTRLE register (0xc6), the value is from 0xfa to 0x06
		txoutputpwr	[value]	Set the CTRLE register (0xc7), the value is from 0xfa to 0x06
		rxoutputpwr	[value]	Set the CTRLE register (0xc8), the value is from 0xfa to 0x06
		maxoutputpwr	[value]	Set the CTRLE register (0xc9), the value is from 0xfa to 0x06
		errorsecond		
			sendes	Send current error second information immediately
		dygasprecover		
		dygasprecover	level [value]	By default is 100, after receiving 100 dying gasp system will reboot
		dygasprecover	active [on|off]	Turn on/off this mechanism
		rsploss	[1|0]	Turn on means to response signal loss of CTRLE immediately, default is off
	atm	test	[fix|rand|period|oam|loopback]	Generate ATM traffic
	hwsar	disp		Display hwsar packets incoming/outgoing information
		clear		Clear hwsar packets information

WLAN Related Command   [Home]

Command				Description
Wlan				
	active	[on|off]	[0|1]	Turn on/off wireless lan
	association			Show association list
	load			Load WLAN configuration into buffer.

	Display			Display WLAN configuration data.
	chid			Configure channel ID
	essid			Configure ESSID
	hiddenssid		[on/off]	Enable/Disable hidden SSID
	threshold			
		rts	<RTS threshold value>	Set threshold rts value
		Fragment	<Fragment threshold value>	Set threshold fragmentation value
	wep			
		type	<none|64|128|256>	Set WEP key to 64, 128 or 256 bits.
		Key	Set <set> <value>	Set WEP key value per set
		Key	Default <set>	Set WEP default key set
	macfilter			
		Enable		Enable macfilter
		Disable		Disable macfilter
		Action	<allow|deny>	When action match, allow or deny this mac
		Set	<Set#> <MAC Address>	Set mac address by set
	Clear			Clear all WLAN configuration data.
	Save			Save WLAN configuration working buffer to Rom file.
	Power		[1:19dbm, 2:18dbm, 3:16dbm, 4:15dbm, 5:14dbm]	Change TX power level.
	reset			Reset WLAN
	filter			
		[incoming | outgoing]	<generic>[set#1][set#2][set#3][set#4]	To set generic filter for wireless channel
	fildisp			Display wireless filter setting
	1130cmd			Internal usage.
		restart_stat		Show WLAN restart statistics
		chg_dot11mode		Set WLAN state to mix mode, B only or G only
		show_rxDesc		Show number of Rx host descriptors
		acxstat		Show acx run time statistics

IP Related Command   [Home](#)

Command				Description
ip				
	address		[addr]	display host ip address
	loopbackaddr		<IP1> [IP2]	Set loopback address.
	alias		<iface>	alias iface
	aliasdis		<0|1>	disable alias
	arp			
		status	<iface>	display ip arp status
		add	<hostid> ether <ether addr>	add arp information
		resolve	<hostid>	resolve ip-addr
		drop	<hostid> [hardware]	drop arp
		flush		flush arp table
		publish		add proxy arp
	dhcp		<iface>	
		client		
			release	release DHCP client IP
			renew	renew DHCP client IP
		mode	<server|relay|none|client>	set dhcp mode
		relay	server <serverIP>	set dicp relay server ip-addr

		reset		reset dhcp table
		server		
			probecount <num>	set dhcp probe count
			dnsserver <IP1> [IP2] [IP3]	set dns server ip-addr
			winsserver <winsIP1> [<winsIP2>]	set wins server ip-addr
			gateway <gatewayIP>	set gateway
			hostname <hostname>	set hostname
			initialize	fills in DHCP parameters and initializes (for PWC purposes)
			leasetime <period>	set dhcp leasetime
			netmask <netmask>	set dhcp netmask
			pool <startIP> <numIP>	set dhcp ip pool
			renewaltime <period>	set dhcp renew time
			rebindtime <period>	set dhcp rebind time
			reset	reset dhcp table
			server <serverIP>	set dhcp server ip for relay
			dnsorder [router|isp]	set dhcp dns order
		status	[option]	show dhcp status
		static		
			delete <num>|all	delete static dhcp mac table
			display	display static dhcp mac table
			update <num> <mac> <ip>	update static dhcp mac table
	dns			
		query		
			address <ipaddr> [timeout]	resolve ip-addr to name
			debug <num>	enable dns debug value
			name <hostname> [timeout]	resolve name to ip-addr
			status	display dns query status
			table	display dns query table
		server	<primary> [secondary] [third]	set dns server
		stats		
			clear	clear dns statistics
			disp	display dns statistics
		table		display dns table
	httpd			
		debug	[on|off]	set http debug flag
	icmp			
		echo	[on|off]	set icmp echo response flag
		data	<option>	select general data type
		status		display icmp statistic counter
		trace	[on|off]	turn on/off trace for debugging
		discovery	<iface> [on|off]	set icmp router discovery flag
	ifconfig		[iface] [ipaddr] [broadcast <addr> |mtu <value>|dynamic]	configure network interface
	ifdrop		<iface>	chaek if iface is available.
	ping		<hostid>	ping remote host
	pong		<hostid> [<size> <time-interval>]	pong remote host
	extping		<target address>	
			[-t]	Continue to send ECHO_REQ until Ctrl-C input
			[-c]	Validate the reply data
			[-d] [Data]	Data pattern. The maximum length of data is 255 characters.
			[-f]	Set DF flag.
			[-l] [Data size]	Datagram size in bytes (with 28 bytes Header).

			[-v] [TOS value]	Specify the value of TOS flag.
			[-n] [Repeat value]	The number of times to send ECHO_REQ packet.
			[-w] [Timeout value]	Specify the value of Timeout in seconds.
			[-o] [IP address/IFace]	To specify one IP address or interface to be the Source IP address.
			[-p] [Min MTU] [Max MTU] [Interval size]	Sweep range of sizes.
	route			
		status	[if]	display routing table
		add	<dest_addr|default>[/<bits>] <gateway> [<metric>]	add route
		addiface	<dest_addr|default>[/<bits>] <gateway> [<metric>]	add an entry to the routing table to iface
		addprivate	<dest_addr|default>[/<bits>] <gateway> [<metric>]	add private route
		drop	<host addr> [/<bits>]	drop a route
		flush		flush route table
		lookup	<addr>	find a route to the destination
		errcnt		
			disp	display routing statistic counters
			clear	clear routing statistic counters
	status			display ip statistic counters
	adjTcp		<iface> [<mss>]	adjust the TCP mss of iface
	udp			
		status		display udp status
	rip			
		accept	<gateway>	drop an entry from the RIP refuse list
		activate		enable rip
		merge	[on|off]	set RIP merge flag
		refuse	<gateway>	add an entry to the rip refuse list
		request	<addr> [port]	send rip request to some address and port
		reverse	[on|off]	RIP Poisoned Reverse
		status		display rip statistic counters
		trace		enable debug rip trace
		mode		
			<iface> in [mode]	set rip in mode
			<iface> out [mode]	set rip out mode
		dialin_user	[show|in|out|both|none]	show dialin user rip direction
	tcp			
		ceiling	[value]	TCP maximum round trip time
		floor	[value]	TCP minimum rtt
		irtt	[value]	TCP default init rtt
		kick	<tcb>	kick tcb
		limit	[value]	set tcp output window limit
		max-incomplete	[number]	Set the maximum number of TCP incomplete connection.
		mss	[value]	TCP input MSS
		reset	<tcb>	reset tcb
		rtt	<tcb> <value>	set round trip time for tcb
		status	[tcb] [<interval>]	display TCP statistic counters
		syndata	[on|off]	TCP syndata piggyback
		trace	[on|off]	turn on/off trace for debugging
		window	[tcb]	TCP input window size

	samenet		<iface1> [<iface2>]	display the ifaces that in the same net
	uninet		<iface>	set the iface to uninet
	tftp			
		support		pritn if tfpt is support
		stats		display tftp status
	xparent			
		join	<iface1> [<iface2>]	join iface2 to iface1 group
		break	<iface>	break iface to leave ipxparent group
	antiprobe		<0|1> 1:yes 0:no	set ip anti-probe flag
	anyip			
		status		display that if any ip work now
		enable	[yes|no]	enbale|disable anyop feature
		display		display all any ip entry
		restrict	[yes|no]	restrict the connection between any ip client
		flush		delete all any ip entry
		save		Save any ip enable status to rom
	igmp			
		debug	[level]	set igmp debug level
		forwardall	[on|off]	turn on/off igmp forward to all interfaces flag
		querier	[on|off]	turn on/off igmp stop query flag
		iface		
			<iface> grouptm <timeout>	set igmp group timeout
			<iface> interval <interval>	set igmp query interval
			<iface> join <group>	join a group on iface
			<iface> leave <group>	leave a group on iface
			<iface> query	send query on iface
			<iface> rsptime [time]	set igmp response time
			<iface> start	turn on of igmp on iface
			<iface> stop	turn off of igmp on iface
			<iface> ttl <threshold>	set ttl threshold
			<iface> v1compat [on|off]	turn on/off v1compat on iface
		robustness	<num>	set igmp robustness variable
		status		dump igmp status
	pr			
		clear		clear ip pr table counter information
		disp		dump ip pr table counter information
		switch		turn on/off ip pr table counter flag
	nat			
		timeout		
			gre [timeout]	set nat gre timeout value
			iamt [timeout]	set nat iamt timeout value
			generic [timeout]	set nat generic timeout value
			reset [timeout]	set nat reset timeout value
			tcp [timeout]	set nat tcp timeout value
			tcpother [timeout]	set nat tcp other timeout value
		update		create nat system information from spSysParam
		iamt		display nat iamt information
		iface	<iface>	show nat status of an interface
		lookup	<rule set>	display nat lookup rule
		new-lookup	<rule set>	display new nat lookup rule
		loopback	[on|off]	turn on/off nat loopback flag
		reset	<iface>	reset nat table of an iface
		server		
			disp	display nat server table

			load <set id>	load nat server information from ROM
			save	save nat server information to ROM
			clear <set id>	clear nat server information
			edit active <yes|no>	set nat server edit active flag
			edit svrport <start port> [end port]	set nat server server port
			edit intport <start port> [end port]	set nat server forward port
			edit remotehost <start ip> [end ip]	set nat server remote host ip
			edit leasetime [time]	set nat server lease time
			edit rulename [name]	set nat server rule name
			edit forwardip [ip]	set nat server server ip
			edit protocol [protocol id]	set nat server protocol
		service		
			irc [on|off]	turn on/off irc flag
			sip active <1/0> (enable/disable)	Enable/disable SIP ALG
		resetport		reset all nat server table entries
		incikeport	[on|off]	turn on/off increase ike port flag

PPP Related Command

Command				Description
ppp				
	autotrigger			
		on	<remoteNodeIndex>	turn on packet trigger, default is enable
		off	<remoteNodeIndex>	turn off packet trigger
		status		show autotrigger status
	retry		<interval>	adjust PPP retrial interval

Bridge Related Command

Command				Description
bridge				
	mode		<1/0> (enable/disable)	turn on/off (1/0) LAN promiscious mode
	blt			related to bridge local table
		disp	<channel>	display blt data
		reset	<channel>	reset blt data
		traffic		display local LAN traffic table
		monitor	[on|off]	turn on/off traffice monotor. Default is off.
		time	<sec>	set blt re-init interval
	brt			related to bridge route table
		disp	[id]	display brt data
		reset	[id]	reset brt data
	cnt			related to bridge routing statistic table
		disp		display bridge route counter
		clear		clear bridge route counter
	stat			related to bridge packet statistic table
		disp		display bridge route packet counter
		clear		clear bridge route packet counter
	disp			display bridge source table

Radius Related Command

Command				Description
radius				
	auth			show current radius authentication server configuration

				show current radius accounting server configuration
acco				

8021x Related Command

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

Configuration Related Command

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

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

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

Firewall Related Command   <u>Home</u>

Command					Description
sys					
	firewall				
		acl			
			disp		Display specific ACL set # rule #, or all ACLs.
		active	<yes|no>		Active firewall or deactivate firewall
		cnt			
			disp		Display firewall log type and count.
			clear		Clear firewall log count.
		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		
			triangle	Set if firewall ignore triangle route in lan/wan/dmz/wlan

SMT Related command

No	Command	Description	Comment
	sys general load	Load system general info to buffer	Menu 1
	sys general bridge [on|off]	Set system bridge on/off	Menu 1
	sys general routeip [on|off]	Set system IP routing on/off	Menu 1
	sys general location [geographic location]	Set the geographic location of your prestige.	Menu 1
	sys general hostname [hostname]	Set system name	Menu 1
	sys general contactname [contactname]	Set contact person's name	Menu 1
	sys general domainname [domainname]	Set domainname	Menu 1
	sys general save	Save general info to flash.	Save Menu 1
	sys general display	Display information in menu 1	Display Menu 1
	sys ddns debug	Open dynamic DNS debug mode	Menu 1.1
	sys ddns display	Display dynamic DNS information	Menu 1.1
	sys ddns restart	Restart dynamic DNS	Menu 1.1
	sys ddns logout	Logout dynamic DNS	Menu 1.1
	sys ddns config load	Load dynamic DNS to buffer	Menu 1.1
	sys ddns config active [0|1]	Active dynamic DNS	Menu 1.1
	sys ddns config hostname	Set the domain name assigned by dynamic DNS provider	Menu 1.1
	sys ddns config emailaddress	Set your E-mail address	Menu 1.1
	sys ddns config username	Set your user name	Menu 1.1
	sys ddns config password	Set the password assigned to you	Menu 1.1
	sys ddns config save	Save dynamic DNS setting to flash	Menu 1.1
	sys default	Load All Default Settings Except LAN and DHCP.	
	sys save	Save all the parameters which will include menu1, menu 3.2 LAN, menu 4 or menu 11 WAN, menu 12 static route, menu 15 NAT server set, menu 21 filter sets, menu 22 SNMP, menu 24.11 remote management and 3.5 Wireless LAN	
	lan index [1|2|3] 1: Select main LAN Interface 2: Select IP Alias 1 3: Select IP Alias 2	Select a LAN interface to edit	Menu 3.2
	lan active [on|off]	Turn on or off on IP Alias Interface	Menu 3.2.1
	lan ipaddr [address] [subnet mask]	Set LAN IP address and subnet mask Example: > lan ipaddr 192.168.1.1 255.255.255.0	Menu 3.2
	lan rip [none|in|out|both] [rip1|rip2b|rip2m]	Set LAN IP RIP mode and RIP version, if you choose none in the first parameter, the second parameter is also necessary	Menu 3.2
	lan multicast [none|igmpv1|igmpv2]	Set LAN IP multicast mode	Menu 3.2
	lan filter [incoming|outgoing] [tcpip|generic] [set#1] [set#2] [set#3] [set#4]	Set LAN filter to be incoming/outgoing or protocol /device and the filter set could be 1-12, 0 means empty	Menu 3.1

		Example: Lan filter incoming tcpip 1 0 0 0	
	lan dhcp mode [server|relay|none]	Set DHCP mode to be"server", "relay", "none"	Menu 3.2
	lan dhcp server dnsserver [pri dns] [sec dns]	Set primary and secondary LAN DNS server	Menu 3.2
	lan dhcp server pool [start-address] [num]	Set DHCP start address and pool size	Menu 3.2
	lan dhcp server gateway [IP address]	Set DHCP gateway	Menu 3.2
	lan dhcp server netmask [subnet mask]	Set DHCP subnet mask	Menu 3.2
	lan dhcp server leasetime [second]	Set DHCP lease time	Menu 3.2
	lan dhcp server renewaltime [second]	Set DHCP renew time	Menu 3.2
	lan dhcp server rebindtime [second]	Set DHCP rebind time	Menu 3.2
	lan dhcp relay server [IP address]	Set IP address of DHCP relay server	Menu 3.2
	lan display	Display LAN or IP alias parameters	Display Menu 3
	lan clear	Clear the Working Buffer	
	lan save	Save LAN related parameters	
	wan node index [1-8]	Set the node pointer to specific wan profile. If you want to set WAN profile, please use this command first, system will use the index number for pointing to specific PVC (remote node), and for consequent commands reference, if index = 1 means it's ISP node	Menu 11.1
	wan node clear	Clear the parameters of the temporary WAN profile	Menu 11.1
	wan node ispname [ISP name]	Enable the name of wan node	Menu 11.1
	wan node enable	Enable the wan profile	Menu 11.1
	wan node disable	Disable the wan profile	Menu 11.1
	wan node encap [1483|pppoa|pppoe|enet]	Set the wan protocol	Menu 11.1
	wan node mux [vc|llc]	Set the wan multiplex	Menu 11.1
	wan node ppp authen [chap|pap|both]	Set PPP authentication type	Menu 11.1
	wan node ppp username [name]	Set PPP username	Menu 11.1
	wan node ppp password [password]	Set PPP password	Menu 11.1
	wan node service [name]	Set PPPoE service name	Menu 11.1
	wan node bridge [on|off]	Set the wan bridge mode	Menu 11.1
	wan node routeip [on|off]	Set the wan IP routing mode	Menu 11.1
	wan node callsch [set1#][set2#][set3#][set4#]	Set call schedule set, set number 0 means empty	Menu 11.1
	wan node nailedup [on|off]	Set nailed up connection on/off	Menu 11.1
	wan node vpi [num]	Set the wan vpi. Range : 0~255	Menu 11.6
	wan node vci [num]	Set the wan vci. Range : 32~65535	Menu 11.6
	wan node qos[ubr|cbr]	Set the wan QOS type to be UBR or CBR	Menu 11.6
	wan node pcr [num]	Set the wan PCR value	Menu 11.6
	wan node scr [num]	Set the wan SCR value	Menu 11.6
	wan node mbs [num]	Set the wan MBS value	Menu 11.6
	wan node wanip [static|dynamic] [address]	Set the wan IP address	Menu 11.3
	wan node remoteip [address] [subnet mask]	Set the remote gateway IP address and subnet mask	Menu 11.3
	wan node nat [off | sua | full] [address mapping #]	Set type wan NAT mode to be off or SUA or Full feature	Menu 11.3
	wan node metric [num]	Set the wan metric number	Menu 11.3
	wan node private [yes|no]	Set the wan private or not.	Menu 11.3
	wan node rip [none|in|out|both] [rip1|rip2b|rip2m]	Set the wan RIP mode and RIP version	Menu 11.3
	wan node multicast [none|igmpv1|igmpv2]	Set the wan IP multicast mode	Menu 11.3
	wan node ippolicy [set #1] [set #2] [set #3] [set #4]	Set WAN IP policy can be specified, and policy set can be 1-12, value 0 means empty	Menu 11.3
	wan node bridgetimeout [min#]	Set wan bridge mode, Ethernet address timeout minutes.	Menu 11.3

wan node filter [incoming|outgoing] [tcpip|generic] [set #1] [set #2] [set #3] [set #4]	Set WAN filter, incoming or outgoing can be specified, and filter set can be 1-12, value 0 means empty	Menu 11.5
wan node save	Save the related parameters of WAN node	
wan node display	Display WAN profile configuration in buffer	Display Menu 11
ip route addrom index [Rule #]	Select a Static Route index 1-16 to edit	Menu 12.1
ip route addrom name [Name]	Set Rule Name	Menu 12.1
ip route addrom active [on|off]	Set Active or Inactive Flag	Menu 12.1
ip route addrom set [dest address/ mask bits] [gateway] [metric]	Set IP static route Example: > ip ro addrom set 192.168.1.33/24 192.168.1.1 2	Menu 12.1
ip route addrom private [yes|no]	Set Private Flag	Menu 12.1
ip route addrom disp	Display both working buffer and Editing Entry	Menu 12.1
ip route addrom freememory	Discard all changes	Menu 12.1
ip route addrom save	Save edited settings	Menu 12.1
ip route addrom clear [Index #]	Clear Static Route Index	Menu 12.1
bridge staticRoute index [Rule #]	Select a bridge Static Route index 1-16 to edit	Menu 12.3
bridge staticRoute name [Name]	Set Rule Name	Menu 12.3
bridge staticRoute active [on|off]	Set Active or Inactive Flag	Menu 12.3
bridge staticRoute set [ether address] [ipaddress] [gatewayNode]	Set bridge static route Example: >bridge staticRoute set 001349012345 192.168.1.1 1	Menu 12.3
bridge staticRoute display	Display both working buffer and Editing Entry	Menu 12.3
bridge staticRoute freememory	Discard all changes	Menu 12.3
bridge staticRoute save	Save edited settings	Menu 12.3
bridge staticRoute clear [Index #]	Clear Static Route Index	Menu 12.3
sys dialinUser index [index #]	Set the index of dial-in user, you may apply this command first before you begin to configure the dial-in user.	Menu 14
sys dialinUser username [username]	Set the name of dial-in user	Menu 14
sys dialinUser active [yes | no]	Active the dial-in user	Menu 14
sys dialinUser password [password]	Set password	Menu 14
sys dialinUser display	Display configuration	Menu 14
sys dialinUser save	Save configuration	Menu 14
sys dialinUser free	Free buffer info of the dial-in user	Menu 14
sys dialinUser clear	Delete the dial-in user	Menu 14
ip nat addrmap map [map#] [set name]	Select NAT address mapping set and set mapping set name, but set name is optional Example: > ip nat addrmap map 1 myset	Menu 15.1
ip nat addrmap rule [rule#] [insert | edit] [type] [local start IP] [local end IP] [global start IP] [global end IP] [server set #]	Set NAT address mapping rule. If the "type" is not "inside-server" then the "type" field will still need a dummy value like "0". Type is 0 - 4 = one-to-one, many-to-one, many-to-many-overload, many-to-many-non overload, inside-server Example: > ip nat addrmap rule 1 edit 3 192.168.1.10 192.168.1.20 192.168.10.56 192.168.1.56 0	Menu 15.1
ip nat addrmap clear [map#] [rule#]	Clear the selected rule of the set	Menu 15.1
ip nat addrmap freememory	Discard Changes	Menu 15.1

ip nat addrmap disp	Display nat set information	Menu 15.1
ip nat addrmap save	Save settings	Menu 15.1
ip nat server load [set#]	Load the server sets of NAT into buffer	Menu 15.2
ip nat server disp [1]	"disp 1" means to display the NAT server set in buffer, if parameter "1" is omitted, then it will display all the server sets	Menu 15.2
ip nat server save	Save the NAT server set buffer into flash	Menu 15.2
ip nat server clear [set#]	Clear the server set [set#], must use "save" command to let it save into flash	Menu 15.2
ip nat server edit [rule#] active	Activate the rule [rule#], rule number is 1 to 24, the number 25-36 is for UPNP application	Menu 15.2
ip nat server edit [rule#] svrport <start port> <end port>	Configure the port range from <start port > to <end port>	Menu 15.2
ip nat server edit [rule#] remotehost <start IP> <end IP>	Configure the IP address range of remote host (Leave it to be default value if you don't need this command)	Menu 15.2
ip nat server edit [rule#] leasetime <seconds>	Configure the lease time (Leave it to be default value if you don't want this command)	Menu 15.2
ip nat server edit [rule#] rulename <string>	Configure the name of the rule (Leave it to be default value if you don't want this command)	Menu 15.2
ip nat server edit [rule#] forwardip <IP address>	Configure the LAN IP address to be forwarded	Menu 15.2
ip nat server edit [rule#] protocol <TCP|UDP|ALL>	Configure the protocol to be used TCP , UDP or ALL (it must be capital)	Menu 15.2
sys filter set index [set#] [rule#]	Set the index of filter set rule, you must apply this command first before you begin to configure the filter rules	Menu 21 filter sets
sys filter set name [set name]	Set the name of filter set	Menu 21 filter sets
sys filter set type [tcpip | generic]	Set the type of filter rule	Menu 21 filter sets
sys filter set enable	Enable the rule	Menu 21 filter sets
sys filter set disable	Disable the rule	Menu 21 filter sets
sys filter set protocol [protocol #]	Set the protocol ID of the rule	Menu 21 filter sets
sys filter set sourceroute [yes|no]	Set the sourceroute yes/no	Menu 21 filter sets
sys filter set destip [address] [subnet mask]	Set the destination IP address and subnet mask of the rule	Menu 21 filter sets
sys filter set destport [port#] [compare type = none|equal|notequal|less|greater]	Set the destination port and compare type (compare type could be 0(none)|1(equal)|2(not equal)|3(less)|4(greater))	Menu 21 filter sets
sys filter set srcip [address] [subnet mask]	Set the source IP address and subnet mask	Menu 21 filter sets
sys filter set srcport [port#] [compare type = none|equal|not equal|less|greater]	Set the source port and compare type (compare type could be 0(none)|1(equal)|2(not equal)|3(less)|4(greater))	Menu 21 filter sets
sys filter set tcpEstab [yes|no]	Set TCP establish option	
sys filter set more [yes|no]	Set the more option to yes/no	Menu 21 filter sets
sys filter set log [type 0-3= none | match| notmatch | both]	Set the log type (it could be 0-3 =none, match, not match, both)	Menu 21 filter sets
sys filter set actmatch[type 0-2 = checknext | forward | drop]	Set the action for match	Menu 21 filter sets
sys filter set actnomatch [type 0-2 = checknext | forward | drop]	Set the action for not match	Menu 21 filter sets
sys filter set offset [#]	Set offset for the generic rule	Menu 21, it's for generic filter
sys filter set length [#]	Set the length for generic rule	Menu 21, it's for generic filter
sys filter set mask [#]	Set the mask for generic rule	Menu 21, it's for generic filter
sys filter set value [(depend on length in hex)]	Set the value for generic rule	Menu 21, it's for generic filter
sys filter set clear	Clear the current filter set	Menu 21

sys filter set save	Save the filter set parameters	
sys filter set display [set#][rule#]	Display Filter set information. W/o parameter, it will display buffer information.	
sys filter set freememory	Discard Changes	
sys snmp disp	Display SNMP parameters	Menu 22
sys snmp get [community]	Set the community string of get	Menu 22 SNMP
sys snmp set [community]	Set the community string of set	Menu 22 SNMP
sys snmp trusthost [IP address]	Set the IP address of trusted host	Menu 22 SNMP
sys snmp trap community [community]	Set the community string of trap	Menu 22 SNMP
sys snmp trap destination [IP address]	Set the destination address of trap	Menu 22 SNMP
sys snmp discard	Discard changes	
sys snmp clear	Clear Working Buffer	
sys snmp save	Set the SNMP parameters	Menu 22 SNMP
sys password	Set system password: input current password->input new password-> confirm new password	Menu 23 system password
sys baud [1:38400|2:19200|3:9600|4:57600|5:115200]	Index 12,3 will be 38400,19200, 9600, 57600, 115200 bps [save immediately]	Menu 24.2.2 console speed
Wan adsl version	Display chipset vendor and modem code version	Menu 24.2.1
Wan adsl opmode display	Display DSL setting mode	Menu 24.2.1
sys timeserver load	Load time server info to buffer.	Menu 24.10 time server
sys timeserver protocol [0: daytime RFC 867	1:time RFC 868	2: NTP RFC 1305]	Set time protocol	Menu 24.10 time server
sys timeserver address [address]	Set time server address, it can be an IP address or domain name	Menu 24.10 time server
sys timeserver timezone [-12 ~12]	Set time zone, -12 means GMT-12, 0 mean GMT, 12 means GMT+12.	Menu 24.10 time server
sys timeserver daylightsaving active[yes	no]	Set daylight saving	Menu 24.10 time zone
sys timeserver daylightSaving start [month] [day]	Set daylight saving start day	Menu 24.10 daylight saving
sys timeserver daylightSaving end [month] [day]	Set daylight saving end day	Menu 24.10 daylight saving
sys timeserver save	Save time server and daylight saving setting	Menu 24.10 daylight saving
sys timeserver checktime	Connect to time server and check time.	Menu 24
sys timeserver display	Display time server and daylight saving setting	Menu 24
sys server load	Load setting before editing	
sys server access [ftp|telnet|web] [access type]	Set the server access type to be 0: ALL, 1: None, 2:LAN only, 3:WAN only	Menu 24.11 remote management
sys server port [ftp|telnet|web] [port]	Set the server port number	Menu 24.11 remote management
sys server secureip[ftp|telnet|web] [address]	Set the server security IP address	Menu 24.11 remote management
sys server disp [1]	Display server settings in buffer, [1] means display flash	
sys server save	Save the embedded server (remote management) parameters	
ip policyRouting set index [set#] [rule#]	Set the index of IP routing policy set rule. You must apply	Menu 25 IP routing

		this command first before you begin to configure the IP routing policy rules	policy
	ip policyRouting set name [set name]	Set the name of IP routing policy set	Menu 25 IP routing policy
	ip policyRouting set active [yes |no]	Enable/Disable the rule	Menu 25 IP routing policy
	ip policyRouting set criteria protocol [protocol #]	Set the protocol ID of the rule	Menu 25 IP routing policy
	ip policyRouting set criteria serviceType [0: don't care | 1: normal | 2: min delay | 3: max thruput | 4: max reliable| 5: min cost]	Set the IP routing policy criteria type of service	Menu 25 IP routing policy
	ip policyRouting set criteria precedence [0~7 | 8 =don't care]	Set the IP routing policy precedence	Menu 25 IP routing policy
	ip policyRouting set criteria packetlength [#]	Set the IP routing policy packet length	Menu 25 IP routing policy
	ip policyRouting set criteria lencomp [0: greater | 1: less or equal | 2: greater or equal | 3: equal | 4: not equal | 5: less]	Set the IP routing policy len comp	Menu 25 IP routing policy
	ip policyRouting set criteria srcip [start ip] [end ip]	Set the IP routing policy source IP address	Menu 25 IP routing policy
	ip policyRouting set criteria srcport [start port] [end port]	Set the IP routing policy source port	Menu 25 IP routing policy
	ip policyRouting set criteria destip [start ip] [end ip]	Set the IP routing policy destination IP address	Menu 25 IP routing policy
	ip policyRouting set criteria destport [start port] [end port]	Set the IP routing policy destination port	Menu 25 IP routing policy
	ip policyRouting set action actmatched	Set the IP routing policy matched action	Menu 25 IP routing policy
	ip policyRouting set action actnomatched	Set the IP routing policy no matched action	Menu 25 IP routing policy
	ip policyRouting set action gatewaytype [1 gateway node | 0 gateway addr]	Set IP routing policy gateway type	Menu 25 IP routing policy
	ip policyRouting set action gatewayaddr [gateway address #]	Set IP routing policy gateway address	Menu 25 IP routing policy
	ip policyRouting set action gatewaynode [gateway node #]	Set IP routing policy gateway node	Menu 25 IP routing policy
	ip policyRouting set action serviceType [0: don't care | 1: normal | 2: min delay | 3: max thruput | 4: max reliable| 5: min cost]	Set IP routing policy type of service	Menu 25 IP routing policy
	ip policyRouting set action precedence [0~7 | 8 =don't care]	Set IP routing policy precedence	Menu 25 IP routing policy
	ip policyRouting set action log [yes | no]	Set IP routing policy log	Menu 25 IP routing policy
	ip policyRouting set display	Display the current IP routing policy setting	Menu 25 IP routing policy
	ip policyRouting set save	Save the current IP routing policy setting	Menu 25 IP routing policy
	ip policyRouting set freememory	free the current IP routing policy setting	Menu 25 IP routing policy
	ip policyRouting set clear	Clear the IP routing policy setting	Menu 25 IP routing policy
	ip policyRouting clear	Clear the IP routing policy count	Menu 25 IP routing policy
	ip policyRouting display	Display the IP routing policy count	Menu 25 IP routing policy

	ip policyRouting switch	Switch on or off IP routing policy count.	Menu 25 IP routing policy
	wan callsch index [set#]	Set call schedule index #. You must apply this command first before you begin to configure call schedule	Menu 26 schedule
	wan callsch name [set name]	Set the schedule name	Menu 26 schedule
	wan callsch active [Yes | No]	Enable/Disable schedule	Menu 26 schedule
	wan callsch startday [year] [month] [day]	Set schedule start day	Menu 26 schedule
	wan callsch onceday [year] [month] [day]	Set schedule once day	Menu 26 schedule
	wan callsch weeklyday Sunday [1:active|0:inactive]	Set schedule weekly day	Menu 26 schedule
	wan callsch weeklyday Monday [1:active|0:inactive]	Set schedule weekly day	Menu 26 schedule
	wan callsch weeklyday Tuesday [1:active|0:inactive]	Set schedule weekly day	Menu 26 schedule
	wan callsch weeklyday Wednesday [1:active|0:inactive]	Set schedule weekly day	Menu 26 schedule
	wan callsch weeklyday Thursday [1:active|0:inactive]	Set schedule weekly day	Menu 26 schedule
	wan callsch weeklyday Friday [1:active|0:inactive]	Set schedule weekly day	Menu 26 schedule
	wan callsch weeklyday Saturday [1:active|0:inactive]	Set schedule weekly day	Menu 26 schedule
	wan callsch starttime [hour] [minute]	Set schedule start time	Menu 26 schedule
	wan callsch duration [hour] [minute]	Set schedule duration time	Menu 26 schedule
	wan callsch action [0:fource on | 1 force down | 2: enable dial-on-demand | 3: disable dial-on-demand]	Set action	Menu 26 schedule
	wan callsch display	display the current call schedule set	Menu 26 schedule
	wan callsch save	Save the current call schedule set	Menu 26 schedule
	wan callsch freememory	free the current call schedule set	Menu 26 schedule
	wan callsch clear	Clear the call schedule set	Menu 26 schedule
	wlan load	Load system parameters into working buffer	Menu 3.5 for Wireless LAN
	wlan disp	Display the working buffer	Menu 3.5 for Wireless LAN
	wlan essid [name]	Set the wireless ESSID	Menu 3.5 for wireless LAN
	wlan hideessid [on|off]	Set to hide ESSID or not	Menu 3.5 for wireless LAN
	wlan chid [#=1~13]	Set channel ID 1-13	Menu 3.5 for wireless LAN
	wlan threshold rts [value]	Set the RTS threshold value	Menu 3.5 for wireless LAN
	wlan threshold fragment [value]	Set fragment threshold	Menu 3.5 for wireless LAN
	wlan wep type [none|64|128]	Set the wep type to be none, 64bit or 128bits	Menu 3.5 for wireless LAN
	wlan wep key set [key set#1-4] [key value]	Set wep key value	Menu 3.5 for wireless LAN
	wlan wep key default [key set # 1-4]	Set default key set value	Menu 3.5 for wireless LAN

	wlan macfilter enable	Enable mac filter	Menu 3.5.1 for wireless LAN
	wlan macfilter disable	Disable mac filter	Menu 3.5.1 for wireless LAN
	wlan macfilter action [allow|deny]	Set the action type of filter	Menu 3.5.1 for wireless LAN
	wlan macfilter set [set# 1-12] [mac address]	Set the mac address of filter	Menu 3.5.1 for wireless LAN
	wlan clear	Clear Working Buffer	
	wlan save	Save wireless MAC filter parameters	

3. Manufactory Data in Bootbase

```
ZyNOS Version          :  V3.40(PE.11) | 05/22/2006  13:27:56
Bootbase Version       : V1.06 | 04/01/2004 11:22:33
Vendor Name            : ZyXEL Communications Corp.
Product Model          : Prestige 660HW-61
ZyNOS Code Model       : P660HW-61 ATU-R
HTP Code Model         : HTP_P660 V 0.05
ZyNOS ROM address      : b0010000
System Type            : 7
MAC Address            : 001349000001
Default Country Code   : FF
Boot Module Debug Flag : 01
RomFile Version        : 8A
RomFile Checksum       : ecdf
ZyNOS Checksum         : 736d
Core Checksum          : ceef
SNMP MIB level & OID   : 0601020304050607080910111213141516171819 20
Main Feature Bits      : C0
Other Feature Bits     :
     92 4B 00 00 00 00 00 00-00 00 00 00 00 00 00 00
     00 00 00 00 00 00 00 00-02 41 13 00 00 00
```

Notes:

- Debug Flag should be 0 after production. In our default release will be 1. Because in the manufacture process will need it to set the MAC address.
- MAC address will be change by production process. Only the fist 3 octets will be correct. The last 3 octets will depend on the production process.
- Country code value will be change by production process. It will depend on the shipping country.

4. Default ROM File Value Setting

·   Menu 1: General Setup

```
               Menu 1 - General Setup

               System Name= ?
               Location=
               Contact Person's Name=
               Domain Name=
               Edit Dynamic DNS= No

               Route IP= Yes
               Bridge= No


               Press ENTER to Confirm or ESC to Cancel:
```

·   Menu 2 – Wan Backup Setup

```
                    Menu 2 - Wan Backup Setup

             Check Mechanism = DSL Link
             Check WAN IP Address1 = 0.0.0.0
             Check WAN IP Address2 = 0.0.0.0
             Check WAN IP Address3 = 0.0.0.0
                KeepAlive Fail Tolerance = 0
                Recovery Interval(sec) = 0
                ICMP Timeout(sec) = 0
             Traffic Redirect = No



             Press ENTER to Confirm or ESC to Cancel:
```

●   Menu 2.1 – Advanced Dial Backup Setup

```
                  Menu 2.1 - Traffic Redirect Setup

             Active= No
             Configuration:
               Backup Gateway IP Address= 0.0.0.0
               Metric= 15

             Press ENTER to Confirm or ESC to Cancel:
```

●   Menu 3: LAN Setup

```
                  Menu 3 - LAN Setup

             1. LAN Port Filter Setup
             2. TCP/IP and DHCP Setup


             5. Wireless LAN Setup

                Enter Menu Selection Number:
```

●   Menu 3.1: LAN Port Filter Setup

```
                  Menu 3.1 – LAN Port Filter Setup

             Input Filter Sets:
               protocol filters=
               device filters=
             Output Filter Sets:
               protocol filters=
```

```
                                device filters=

                       Press ENTER to Confirm or ESC to Cancel:
```

· Menu 3.2 TCP/IP and DHCP Setup

```
                    Menu 3.2 – TCP/IP and DHCP Setupp

              DHCP Setup
                DHCP= Server
                Client IP Pool Starting Address= 192.168.1.33
                Size of Client IP Pool= 32
                Primary DNS Server= 0.0.0.0
                Secondary DNS Server= 0.0.0.0
                Remote DHCP Server= N/A
              TCP/IP Setup:
                IP Address= 192.168.1.1
                IP Subnet Mask= 255.255.255.0
                RIP Direction= None
                  Version= N/A
                Multicast= None
                IP Policies=
                Edit IP Alias= No

              Press ENTER to Confirm or ESC to Cancel:
```

· Menu 3.5 `Wireless LAN Setup`

```
                    Menu 3.5- Wireless LAN Setup

              ESSID= ZyXEL
              Hide ESSID= No
              Channel ID= CH06 2437MHz
              RTS Threshold= 4096
              Frag. Threshold= 4096
              WEP= Disable
                Default Key= N/A
                Key1= N/A
                Key2= N/A
                Key3= N/A
                Key4= N/A
              Edit MAC Address Filter= No

              Press ENTER to Confirm or ESC to Cancel:
```

· Menu 3.5.1 `WLAN MAC Address Filter`

```
                    Menu 3.5.1 - WLAN MAC Address Filter

                 Active= No
                 Filter Action= Allowed Association
 --------------------------------------------------------------------------------
  1=  00:00:00:00:00:00   13=  00:00:00:00:00:00   25=  00:00:00:00:00:00
  2=  00:00:00:00:00:00   14=  00:00:00:00:00:00   26=  00:00:00:00:00:00
  3=  00:00:00:00:00:00   15=  00:00:00:00:00:00   27=  00:00:00:00:00:00
  4=  00:00:00:00:00:00   16=  00:00:00:00:00:00   28=  00:00:00:00:00:00
  5=  00:00:00:00:00:00   17=  00:00:00:00:00:00   29=  00:00:00:00:00:00
  6=  00:00:00:00:00:00   18=  00:00:00:00:00:00   30=  00:00:00:00:00:00
  7=  00:00:00:00:00:00   19=  00:00:00:00:00:00   31=  00:00:00:00:00:00
  8=  00:00:00:00:00:00   20=  00:00:00:00:00:00   32=  00:00:00:00:00:00
  9=  00:00:00:00:00:00   21=  00:00:00:00:00:00
 10=  00:00:00:00:00:00   22=  00:00:00:00:00:00
 11=  00:00:00:00:00:00   23=  00:00:00:00:00:00
 12=  00:00:00:00:00:00   24=  00:00:00:00:00:00
 --------------------------------------------------------------------------------
                 Enter here to CONFIRM or ESC to CANCEL:
```

· Menu 4 Internet Access Setup

```
                    Menu 4 - Internet Access Setup

                 ISP's Name= MyISP
                 Encapsulation= ENET ENCAP
                 Multiplexing= LLC-based
                 VPI #= 8
                 VCI #= 35
                 ATM QoS Type= CBR
                   Peak Cell Rate (PCR)= 0
                   Sustain Cell Rate (SCR)= 0
                   Maximum Burst Size (MBS)= 0
                 My Login= N/A
                 My Password= N/A
                 ENET ENCAP Gateway= N/A
                 IP Address Assignment= Dynamic
                   IP Address= N/A
                 Network Address Translation= SUA Only
                   Address Mapping Set= N/A


                 Press ENTER to Confirm or ESC to Cancel:
```

● Menu 11 Remote Node Setup

```
                    Menu 11 - Remote Node Setup

                 1. MyISP (ISP, SUA)
                 2. _____
                 3. _____
                 4. _____
                 5. _____
                 6. _____
                 7. _____
                 8. _____




                    Enter Node # to Edit
```

· Menu 11.1 Remote Node Profile

```
                    Menu 11.1 - Remote Node Profile

    Rem Node Name= MyISP                  Route= IP
```

```
        Active= Yes                          Bridge= No

        Encapsulation= ENET ENCAP            Edit IP/Bridge= No
        Multiplexing= LLC-based              Edit ATM Options= No
        Service Name= N/A                    Edit Advance Options= N/A
        Incoming:                            Telco Option:
          Rem Login= N/A                       Allocated Budget(min)= N/A
          Rem Password= N/A                    Period(hr)= N/A
        Outgoing:                              Schedule Sets= N/A
          My Login= N/A                        Nailed-Up Connection= N/A
          My Password= N/A                   Session Options:
          Authen= N/A                          Edit Filter Sets= No
                                               Idle Timeout(sec)= N/A


                      Press ENTER to Confirm or ESC to Cancel:
```

· Menu 11.3 Remote Node Network Layer Options

```
                   Menu 11.3 - Remote Node Network Layer Options

        IP Options:                          Bridge Options:
          IP Address Assignment = Dynamic      Ethernet Addr Timeout(min)= N/A
          Rem IP Addr = 0.0.0.0
          Rem Subnet Mask= 0.0.0.0
          My WAN Addr= N/A
          NAT= SUA Only
            Address Mapping Set= N/A
          Metric= 2
          Private= No
          RIP Direction= None
            Version= RIP-1
          Multicast= None
          IP Policies=

                       Enter here to CONFIRM or ESC to CANCEL:
```

· Menu 11.5 Remote Node Filter

```
                       Menu 11.5 - Remote Node Filter

                      Input Filter Sets:
                        protocol filters=
                          device filters=
                      Output Filter Sets:
                        protocol filters=
                          device filters=



                       Enter here to CONFIRM or ESC to CANCEL:
```

● Menu 11.6 Remote Node ATM Layer Options

```
                   Menu 11.6 - Remote Node ATM Layer Options
                   VPI/VCI (LLC-Multiplexing or PPP-Encapsulation)

                         VPI #= 8
                         VCI #= 35
                         ATM QoS Type= CBR
                         Peak Cell Rate (PCR)= 0
                         Sustain Cell Rate (SCR)= 0
                         Maximum Burst Size (MBS)= 0

                       Enter here to CONFIRM or ESC to CANCEL:
```

· Menu 12 Static Route Setup

```
                        Menu 12 - Static Route Setup

            1. IP Static Route
            3. Bridge Static Route


                        Please enter selection:
```

· Menu 12.1 IP Static Route Setup

```
                     Menu 12.1 - IP Static Route Setup

            1. _____
            2. _____
            3. _____
            4. _____
            5. _____
            6. _____
            7. _____
            8. _____
            9. _____
            10. _____
            11. _____
            12. _____
            13. _____
            14. _____
            15. _____
            16. _____


                        Enter selection number:
```

· Menu 12.1.1 Edit IP Static Route

```
                     Menu 12.1.1 - Edit IP Static Route

            Route #: 1
            Route Name= ?
            Active= No
            Destination IP Address= ?
            IP Subnet Mask= ?
            Gateway IP Address= ?
            Metric= 2
            Private= No

            Press ENTER to Confirm or ESC to Cancel:
```

● Menu 12.3 Bridge Static Route Setup

```
                     Menu 12.3 - Bridge Static Route Setup

            1. _____
            2. _____
            3. _____
            4. _____


                        Enter selection number:
```

· Menu 12.3.1 - Edit Bridge Static Route

```
                     Menu 12.3.1 - Edit Bridge Static Route

            Route #: 1
            Route Name= ?
            Active= No
            Ether Address= ?
            IP Address=
```

```
                        Gateway Node= 1

                        Press ENTER to Confirm or ESC to Cancel:
```

· Menu 15 - NAT Setup

```
                        Menu 15 – NAT Setup

                  1. Address Mapping Sets
                  2. NAT Server Sets

                     Enter Menu Selection Number:
```

· Menu 15.1 - Address Mapping Sets

```
                    Menu 15.1 – Address Mapping Sets

                  1.
                  2.
                  3.
                  4.
                  5.
                  6.
                  7.
                  8.
                255. SUA (read only)

                     Enter Menu Selection Number:
```

· Menu 15.1.1 – Address Mapping Rules

```
                    Menu 15.1.1 - Address Mapping Rules

    Set Name= ?

   Idx  Local Start IP   Local End IP    Global Start IP  Global End IP   Type
   --- --------------- --------------- --------------- --------------- ------
    1.
    2.
    3.
    4.
    5.
    6.
    7.
    8.
    9.
   10.
                     Action= None          Select Rule= N/A

                  Press ENTER to Confirm or ESC to Cancel:
```

● Menu 15.2 – NAT Server Sets

```
                        Menu 15.2 – NAT Server Sets

                  1. Server Set 1 (Used for SUA Only)
                  2. Server Set 2
                  3. Server Set 3
                  4. Server Set 4
                  5. Server Set 5
                  6. Server Set 6
                  7. Server Set 7
                  8. Server Set 8
                  9. Server Set 9
```

```
                          10. Server Set 10



                       Enter Set Number to Edit:
```

· Menu 15.2 –NAT Server Setup

```
                    Menu 15.2 - NAT Server Setup


            Rule    Start Port No.    End Port No.    IP Address
            ---------------------------------------------------
             1.     Default           Default         0.0.0.0
             2.        0                 0            0.0.0.0
             3.        0                 0            0.0.0.0
             4.        0                 0            0.0.0.0
             5.        0                 0            0.0.0.0
             6.        0                 0            0.0.0.0
             7.        0                 0            0.0.0.0
             8.        0                 0            0.0.0.0
             9.        0                 0            0.0.0.0
            10.        0                 0            0.0.0.0
            11.        0                 0            0.0.0.0
            12.        0                 0            0.0.0.0



                  Press ENTER to Confirm or ESC to Cancel:
```

· Menu 21.1 – Filter Set Configuration

```
                     Menu 21.1 - Filter Set Configuration

       Filter                              Filter
       Set #        Comments               Set #          Comments
       ------    -----------------         ------     -----------------
         1       _____             7        _____
         2       NetBIOS_WAN                 8        _____
         3       NetBIOS_LAN                 9        _____
         4       IGMP                       10        _____
         5       _____            11        _____
         6       _____            12        _____




                     Enter Filter Set Number to Configure= 0

                     Edit Comments= N/A

                     Press ENTER to Confirm or ESC to Cancel:
```

· Menu 21.1.2 - Filter Rules Summary (NetBIOS_WAN)

```
                       Menu 21.1.2 - Filter Rules Summary

  # A Type                    Filter Rules                           M m n
  - - ---- ----------------------------------------------------------- - - -
  1 Y IP    Pr=6, SA=0.0.0.0, DA=0.0.0.0, DP=137                       N D N
  2 Y IP    Pr=6, SA=0.0.0.0, DA=0.0.0.0, DP=138                       N D N
  3 Y IP    Pr=6, SA=0.0.0.0, DA=0.0.0.0, DP=139                       N D N
  4 Y IP    Pr=17, SA=0.0.0.0, DA=0.0.0.0, DP=137                      N D N
  5 Y IP    Pr=17, SA=0.0.0.0, DA=0.0.0.0, DP=138                      N D N
  6 Y IP    Pr=17, SA=0.0.0.0, DA=0.0.0.0, DP=139                      N D F
```

```
                          Enter Filter Rule Number (1-6) to Configure:
```

· Menu 21.1.3 - Filter Rules Summary (NetBIOS_LAN)

```
                          Menu 21.1.3 - Filter Rules Summary

 # A Type                     Filter Rules                             M m n
 - - ---- ---------------------------------------------------------- - - -
 1 Y IP   Pr=17, SA=0.0.0.0, SP=137, DA=0.0.0.0, DP=53                N D F
 2 N
 3 N
 4 N
 5 N
 6 N



                    Enter Filter Rule Number (1-6) to Configure:
```

· Menu 21.1.4 - Filter Rules Summary (IGMP)

```
                          Menu 21.1.4 - Filter Rules Summary

 # A Type                     Filter Rules                             M m n
 - - ---- ---------------------------------------------------------- - - -
 1 Y Gen  Off=0, Len=3, Mask=ffffff, Value=01005e                     N D F
 2 N
 3 N
 4 N
 5 N
 6 N



                    Enter Filter Rule Number (1-6) to Configure:
```

· Menu 21.2 - Firewall Setup

```
                       Menu 21.2 - Firewall Setup

     The firewall protects against Denial of Service (DoS) attacks when
     it is active. The default Policy sets

         1. allow all sessions originating from the LAN to the WAN and
         2. deny all sessions originating from the WAN to the LAN

     You may define additional Policy rules or modify existing ones but
     please exercise extreme caution in doing so

         Active: Yes

         LAN-to-WAN Set Name: ACL Default Set
         WAN-to-LAN Set Name: ACL Default Set

     Please configure the Firewall function through Web Configurator

                  Press ENTER to Confirm or ESC to Cancel:
```

· Menu 22 - SNMP Configuration:

```
                       Menu 22 - SNMP Configuration
```

```
                      SNMP:
                        Get Community= public
                        Set Community= public
                        Trusted Host= 0.0.0.0
                        Trap:
                          Community= public
                          Destination= 0.0.0.0


                      Press ENTER to Confirm or ESC to Cancel:
```

● Menu 23 – System Security:

```
                       Menu 23 - System Security

                    1. Change Password
                    2. RADIUS Server

                    4. IEEE802.1x



                   Enter Menu Selection Number:
```

● Menu 23.1 – System Security- Change Password

```
                   Menu 23.1 - System Security - Change Password

                   Old Password= ?
                   New Password= ?
                   Retype to confirm= ?



                    Enter here to CONFIRM or ESC to CANCEL:
```

● Menu 23.2 – System Security –RADIUS Server

```
                      Menu 23.2 - System Security - RADIUS Server

                     Authentication Server:
                       Active= No
                       Server Address= 0.0.0.0
                       Port #= 1812
                       Shared Secret= ********

                     Accounting Server:
                       Active= No
                       Server Address= 0.0.0.0
                       Port #= 1813
                       Shared Secret= ********



                     Press ENTER to Confirm or ESC to Cancel:
```

● Menu 23.4 – System Security – IEEE802.1x

```
                       Menu 23.4 - System Security - IEEE802.1x

           Wireless Port Control= No Authentication Required
           ReAuthentication Timer (in second)= N/A
           Idle Timeout (in second)= N/A



           Key Management Protocol= N/A
           Dynamic WEP Key Exchange= N/A
           PSK= N/A
           WPA Mixed Mode= N/A

```

```
        WPA Broadcast/Multicast Key Update Timer= N/A

    Authentication Databases= N/A




                  Press ENTER to Confirm or ESC to Cancel:
```

· Menu 24.2.1: System Maintenance –Information

```
                Menu 24.2.1 - System Maintenance - Information

                  Name:
                  Routing: IP
                  ZyNOS F/W Version: V3.40(PE.11) | 05/22/2006
                  ADSL Chipset Vendor: TI AR7 05.01.03.00
                  Standard: Multi-Mode

                  LAN
                    Ethernet Address: 00:13:49:00:00:01
                    IP Address: 192.168.1.1
                    IP Mask: 255.255.255.0
                    DHCP: Server

                        Press ESC or RETURN to Exit:
```

· Menu 24.2.2: System Maintenance – Change Console Port Speed

```
      Menu 24.2.2 - System Maintenance - Change Console Port Speed

              Console Port Speed: 9600

              Press ENTER to Confirm or ESC to Cancel:
```

· Menu 24.3.2: System Maintenance – UNIX Syslog

```
                Menu 24.3.2 - System Maintenance - UNIX Syslog

                  UNIX Syslog:
                  Active= No
                  Syslog IP Address= 0.0.0.0
                  Log Facility= Local 1




                  Press ENTER to Confirm or ESC to Cancel:
```

● Menu 24.10: System Maintenance – Time and Date Setting

```
            Menu 24.10 - System Maintenance - Time and Date Setting

        Use Time Server when Bootup= None
        Time Server Address= N/A

        Current Time:                     00 : 23 : 45
        New Time (hh:mm:ss):              00 : 23 : 43

        Current Date:                     2000 - 01 - 01
        New Date (yyyy-mm-dd):            2000 - 01 - 01

        Time Zone= (GMT-12:00) International Date Line West
```

```
              Daylight Saving= No
              Start Date (mm-dd):                       01 - 00
              End Date (mm-dd):                         01 - 00



                      Press ENTER to Confirm or ESC to Cancel:
```

● Menu 24.11: System Maintenance – Remote Management Control

```
                    Menu 24.11 - Remote Management Control

       TELNET Server:
         Server Port = 23              Server Access = ALL
         Secured Client IP = 0.0.0.0

       FTP Server:
         Server Port = 21              Server Access = ALL
         Secured Client IP = 0.0.0.0

       Web Server:
         Server Port = 80              Server Access = ALL
         Secured Client IP = 0.0.0.0



                      Press ENTER to Confirm or ESC to Cancel:
```

● Menu 25: IP Routing Policy Setup

```
                       Menu 25 - IP Routing Policy Setup

         Policy                          Policy
         Set #        Name               Set #           Name
         ------  -----------------        ------   -----------------
           1     _____          7      _____
           2     _____          8      _____
           3     _____          9      _____
           4     _____         10      _____
           5     _____         11      _____
           6     _____         12      _____


                    Enter Policy Set Number to Configure= 0

                    Edit Name= N/A

                    Press ENTER to Confirm or ESC to Cancel:
```

● Menu 26: Schedule Setup

```
                         Menu 26 - Schedule Setup

         Schedule                        Schedule
         Set #        Name               Set #           Name
         ------  -----------------        ------   -----------------
           1     _____          7      _____
           2     _____          8      _____
           3     _____          9      _____
           4     _____         10      _____
           5     _____         11      _____
           6     _____         12      _____
```

```
                        Enter Schedule Set Number to Configure= 0

                        Edit Name= N/A

                        Press ENTER to Confirm or ESC to Cancel:
```

· ras > sys view autoexec.net
```
   sys errctl 0
   sys trcl level 5
   sys trcl type 1180
   sys trcp cr 64 96
   sys trcl sw off
   sys trcp sw off
   ip tcp mss 512
   ip tcp limit 2
   ip tcp irtt 65000
   ip tcp window 2
   ip tcp ceiling 6000
   ip rip activate
   ip rip merge on
   ppp ipcp compress off
   sys wdog sw on
   ip icmp discovery enif0 off
   bridge mode 1
   sys quick enable
   wan adsl rate off
   ether driver qroute 2
   sys quickbrg arp on
```

- ## Default settings by CI-commands

- ras > wan adsl opencmd multimode

- ras > wlan active 1

- ras > wlan filter outgoing generic 4

- ras > sys firewall ignore triangle all on

- ras > ip anyip status

  ```
  Any IP turn on ...
  Aging Timer is 300 seconds
  The max number of any IP entry is 30
  Total 0 Any IP entry in arp table
  It allow the connection between any ip client.
  ```

- ras> wan atm vc disp

(1) Configure Buffer

(2) RemoteNode (Read Only)

 RN VPI   VCI | RN VPI   VCI | RN VPI   VCI | RN VPI   VCI |

```
  1    8    35 |  2    0      0 |  3    0      0 |  4    0      0 |

  5    0     0 |  6    0      0 |  7    0      0 |  8    0      0 |
```

(3) VC Hunt Table: (User setting)

 Flags: Active(1)

```
 RN VPI    VCI serv| RN VPI    VCI serv| RN VPI    VCI serv| RN VPI   VCI serv

-------------------------------------------------------------

  1    0  33    3fH|  1    0   35    3fH|  1    1   35    3fH|  1    8   32    3fH|

  1    0 101    3fH|  1    0   50    3fH|  1    0   32    3fH|  1   14   24    3fH|

  0    0   0    0H|  0    0    0    0H|
```
(4) WebRedirect: Enable