ZyXEL

Firmware Release Note

P-2602HWNLI-D7A

Standard version

Release 3.40(ADV.2)C0

Date: **December 29, 2006**
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Supported Platforms:

ZyXEL P-2602HWNLI-D7A

Versions:

ZyNOS Version: V3.40(ADV.2) | 12/29/2006 14:06:15
Bootbase Version: V1.05 | 6/30/2006 13:57:00

Notes:

The P-2602HWNLI-D7A, is the 4th generation of ZyXEL ADSL product family. The P-2602HWNLI is a ADSL integrated access device (IAD), which provides high-speed ADSL/ADSL2/ADSL2+ internet access, firewall, IEEE 802.11g wireless access, voice over IP communication, and ISDN phone capability for residential users. P-2602HWNLI-D7A provides an embedded mini-PCI module for 802.11g wireless LAN connectivity. P-2602HWNLI allows users to keep their existing ISDN phone or PBX to easily dial VoIP phone call. P-2602HWNLI provides one FXO port for ISDN line or PSTN line. The user can use VoIP service and also make/receive the ISDN or PSTN call via fixed line.

The version of modem code is 06.00.04.00.
The version of wireless APDK code is 6.3.1.26.

Features:

Modifications in V 3.40(ADV.2) | 12/29/2006

1. Change to FCS version.

Modifications in V 3.40(ADV.2)b3 | 12/27/2006

2. [BUG FIX] Disable clock interference by DSP chip toward SPI bus. This can make SLIC not be initialized properly.
3. [BUG FIX] Change VLYNQ clock to 40MHz instead of 80MHz for DSP chip.

Modifications in V 3.40(ADV.1) | 08/17/2006

4. Change to FCS version.

Modifications in V 3.40(ADV.1)b2 | 08/07/2006

1. [BUG FIX] (SPRID : 060724527)
   Symptom: The VoIP > PSTN Line page disappears.

2. [BUG FIX] (SPRID : 060724528)
   Symptom: During long period of VoIP conversation, the system may crash due to memory leakage.

Modifications in V 3.40(ADV.1)b1 | 07/19/2006

1. [BUG FIX]
   Symptom: Revise uniform font, size or alignment in Help pages.
2. [BUG FIX] (SPRID : 060331669)
   Symptom: Voice quality is too low and can't pass criteria.
3. [BUG FIX] (SPRID : 060620145)
   Symptom: Restart device sometimes failed.
   Condition: Device halt, console display:
   !!!!! vlynq fail count = 10 !!!!!
   Not there yet. Still problems.
   Still problematic.
4. [BUG FIX] (SPRID : 060323959)
   Symptom: IPSEC debug mode cause device crash.
   Condition:
   Step1: Setup one VPN tunnel rule.
   Step2: Turn on debug mode via SMT.
   Step3: Try to trigger the VPN tunnel, then device will crash.
5. [BUG FIX] (SPRID : 060620173)
   Symptom: Enable music on hold and Ringback tone on DUT-A, DUT-B and DUT-C, select "Primary Compression Type" to G.729, when device makes 3-way conference connections, user can't converse bi-directionally.
   Condition:
   Step1: DUT-A goes offhook, DUT-A receives dialtone
   Step2: DUT-A dials DUT-B, DUT-B rings, DUT-A has ringback
   Step3: DUT-B goes offhook, DUT-A and DUT-B converse
   Step4: DUT-A FLASHES, DUT-A Receives Secondary DT, DUT-B receives MOH
   Step5: DUT-A dials DUT-C, DUT-C rings, DUT-A has ringback
   Step6: DUT-C goes offhook, DUT-A and DUT-C converse
   Step7: DUT-A flash +3, do 3-way converse.
   Step8: DUT-A flash +2, DUT-A can't speak.
6. [BUG FIX] (SPRID : 060328297)
   Symptom: In CI command, use "voice config signal disp 1" command, you can see some message about Fake wan IP, please remove them.
   Fake SIP Active: Off
   Fake SIP Server IP:
   Fake SIP Port: 0
7. [BUG FIX] (SPRID : 060328300)
   Symptom: The dialing interval of phone1 shows 5, but the dialing interval of phone2 shows 3.
8. [BUG FIX] (SPRID : 060329524)
   Symptom: Default ATM QoS Type of "Remote Node 2 to 8" should not be "CBR".

9. [BUG FIX] (SPRID : 060508456)
   Symptom: In eWC \ WIRELESS \ MAC Filter page, it can accept the same MAC.
10. [BUG FIX] (SPRID : 060508465)
    Symptom: In Web GUI, VPN "Advanced Setup" button should not be under "Apply" button.
11. [BUG FIX] (SPRID : 060511692)
    Symptom: In GUI, RTS threshold default value is "0". (It should be 2432).
12. [BUG FIX]
    Symptom: Making external call from PSTN to ISDN phone which is connected to device NT port, the external user can't hear voice from ISDN phone.

Modifications in V 3.40(ADV.0)C0 | 06/22/2006

1. Change to FCS version. For FCS Sample Run only.

Modifications in V 3.40(ADV.0)b5 | 06/14/2006

1. [FEATURE ENHANCE]
   Upgrade to WLAN APDK 6.3.1.26.
2. [FEATURE ENHANCE]
   Support WiFi new spec requires 64 char shared key with Radius server.
3. [FEATURE ENHANCE]
   Support Web help pages.
4. [FEATURE ENHANCE]
   Support ISDN configuration via. ROM-t.
5. [FEATURE ENHANCE]
   Upgrade ADSL modem code to 6.0.4.0.
6. [BUG FIX]
   Symptom: Update bootbase to 1.04 to correct SYS LED abnormally blink during power up (DRAM post).
7. [BUG FIX]
   Symptom: During power on/off testing at high temperature environment, some mini wireless cards have initial fail issue.
8. [BUG FIX]
   Symptom: Set WLAN settings from Web GUI, logout GUI and get ROM-t via. FTP. Change WLAN settings from Web GUI again and logout GUI. Put ROM-t to device, the WLAN settings can't recover to original WLAN configuration.
9. [BUG FIX]
   Symptom: After open Ringback tone and music on hold function, the SLIC noise from the device is easily happened.
10. [BUG FIX]
    Symptom: Enable music on hold will occur the DUT has some problem.
11. [BUG FIX]
    Symptom: If configure WAN backup type as "DSL Link or ICMP" and enter "Check WAN IP Address", DUT will work failed.
12. [BUG FIX]
    Symptom: Without ISDN phone connected on NT port, if there's incoming phone call and keep ringing, the phone call will be dropped.

13. [BUG FIX]
    Symptom: Enable caller ring tone, if there's incoming VoIP call from ISDN phone, pick up the call, user can't converse.
14. [BUG FIX] (SPRID : 060512772)
    Symptom: Internal call issue. The phone 1 can't dial "####" to phone2.
15. [BUG FIX] (SPRID : 060510610)
    Symptom: System crashes after WAN Bakcup.
    Condition:
    1. By default, configure as "PPPoE/LLC + Dynamic IP", go to "Network > WAN > WAN Backup", configure "Backup Type" as "ICMP", "Check WAN IP Address 1" as "192.168.15.12", check "Active Traffic Redirect", and "Backup Gateway" as "192.168.1.254".
    2. After transfer to backup and turn back for a few times, system crashes.
    3. Continue to "ping 192.168.12.1 -t" and "ping 192.168.15.12 -t".
16. [BUG FIX] (SPRID : 060404148)
    Symptom: When the DUT deal with phone calls has some problems, the DUT will occur crash. The DUT auto restarts by itself. It can't duplicate, but it occurs over 5 times.
17. [BUG FIX] (SPRID : 60509552)
    Symptom: Under some condition, with default, configure WAN setting, DUT crashes.
    Condition:
    1. By default, go to "Network > WAN > Internet Connection", modify settings and click "Apply" button, sometimes system crashes.
    2. Can't reproduce but with specified port (Alcatel DSLAM), it always happened.
18. [BUG FIX] (SPRID : 060512773)
    Symptom: When testing the Phase II feature, sometimes the calls have the noise.
19. [BUG FIX] (SPRID : 60508467)
    Symptom: There is no any protection to Range and Subnet in VPN rules.
    Condition: Go to "Security > VPN > Setup" to create VPN rule 1.
    1. If Local (Remote) Address Type is "Subnet", IP Address Start as "10.0.0.3", then system accepts "Subnet Mask" as same "10.0.0.3".
    2. If Local (Remote) Address Type is "Range", IP Address Start as "10.0.0.3", then system accepts "IP Address End" as "255.255.255.0".
    3. Both are wrong expressions.
20. [BUG FIX] (SPRID : 060510608)
    Symptom: If configure WAN backup as "DSL Link" and enter "Check WAN IP Address", DUT will work failed.
    Condition:
    1. Go to "Network > WAN > WAN Backup", configure "Backup Type" as "DSL Link", "Check WAN IP Address 1" as "192.168.12.45 (and unreachable IP)", check "Active Traffic Redirect", and "Backup Gateway" as "192.168.1.254".
    2. Other backup unit connects with LAN port of DUT and open MS-DOS, "ping 192.168.12.1 -t".
    3. Unplug DSL of DUT and you will find DUT can't turn to backup and traffic can't go out. Check MS-DOS, the message is "Reply from 192.168.1.1: Destination host unreachable.".

21. [BUG FIX] (SPRID : 060510611)
    Symptom: If setup WAN ICMP backup IP as an unreachable IP, DUT can't turn to backup and traffic can't go out.
    Condition:
    1. By default, configure as "PPPoE/LLC + Dynamic IP", go to "Network > WAN > WAN Backup", configure "Backup Type" as "ICMP", "Check WAN IP Address 1" as "192.168.12.45", check "Active Traffic Redirect", and "Backup Gateway" as "192.168.1.254".
    2. Other backup unit connects with LAN port of DUT and both can reach "192.168.12.45".
    3. Open MS-DOS, "ping 192.168.12.45 -t".
    4. Unplug "192.168.12.45" to make both DUT and backup can't reach to it.
    5. You will find DUT can't turn to backup and traffic can't go out. Check MS-DOS, the message is "Reply from 192.168.1.1: Destination host unreachable".
    6. Then DUT system crashes.
22. [BUG FIX] (SPRID : 060511676)
    Symptom: During VoIP conversation, DUT phone LED turns off when DUT send out registration.
    Condition:
    1. Shorten registration to 60 sec
    2. Make VoIP call conversation.
    3. DUT turn off Phone LED when registration.
23. [BUG FIX] (SPRID : 060511678)
    Symptom: After the DUT-A pick up, the DUTB can hear the IVR for DUT-A and DUT-A can't speak.
    Condition:
    1. DUT A turns on ringback tone.
    2. DUTB call DUTA
    3. After the DUT-A pick up, the DUTB can hear the IVR for DUT-A and DUT-A can't speak.
24. [BUG FIX] (SPRID : 060515832)
    Symptom: When do Auto Firmware upgrade Function test, phone2 offhook and hear firmware upgrade notification sound. The DUT will crash.
    Condition:
    1. Get ROM-t
    2. Restore DUT default setting.
    3. Plug in ISDN line, ISND phone, phone1 and phone2.
    4. Set WAN setting and auto provision.
    5. When do Auto Firmware upgrade Function test, Phone2 offhook and hear firmware upgrade notification sound.
    6. Phone2 onhook, then Phone1 offhook and hear firmware upgrade notification sound.
    7. Phone1 onhook, then ISDN phone offhook and hear firmware upgrade notification sound. The ISDN can't hear firmware upgrade notification sound.
    8. ISND Phone onhook, then Phone 2 offhook and hear firmware upgrade notification sound.
    9. Phone2 onhook, the DUT will crash.

25. [BUG FIX] (SPRID : 060323959)
    Symptom: IPSEC debug mode cause device crash.
    Condition:
    1. Setup one VPN tunnel rule.
    2. Turn on debug mode via SMT.
    3. Try to trigger the VPN tunnel, then device will crash.
26. [BUG FIX] (SPRID : 060330542)
    Symptom: DUT run FTP session overnight to verify stress test , when firewall enable , it will block WAN to LAN FTP session(MS-DOS; Cuteftp; ftp programs).
    Condition:
    1. Enable firewall
    2. LAN PC download and upload file to WAN side FTP server, use Red-com /Qpro
    3. Test it over night, it will occure firewall to block WAN to LAN FTP session.

Modifications in V 3.40(ADV.0)b4 | 05/04/2006

1. [BUG FIX] (SPRID : 060323955)
   Symptom: After de-active first MBM rule, second MBM rule setting will changed.
2. [BUG FIX] (SPRID : 060323959)
   Symptom: IPSEC debug mode cause device crash.
3. [BUG FIX] (SPRID : 060323960)
   Symptom: If enabled SUA default server, SIP can't register.
4. [BUG FIX] (SPRID : 060324073)
   Symptom: Dynamic DNS inconsistent with eWC and SMT.
5. [BUG FIX] (SPRID : 060324986)
   Symptom: VPN log behavior not correct.
6. [BUG FIX] (SPRID : 060324076)
   Symptom: De-active VPN rule will kill original VPN tunnel.
7. [BUG FIX] (SPRID : 060324048)
   Symptom: IGMP testing DUT will crash.
8. [BUG FIX] (SPRID : 060328380)
   Symptom: Internet Wizard always stays in "Manually Configuration" page and can't finish all procedures.
9. [BUG FIX] (SPRID : 060328383)
   Symptom: From Web GUI, setup as "Bridge" in "More Connections", it doesn't work actually.
10. [BUG FIX] (SPRID : 060328384)
    Symptom: From Web GUI, if select as "Bridge" mode, "RIP & Multicast Setup" should not be active.
11. [BUG FIX] (SPRID : 060328415)
    Symptom: After ISDN call incoming, the LED of Phone1 and Phone2 always bright.
12. [BUG FIX] (SPRID : 060328418)
    Symptom: Session expire time fail, because DUT can't send out re-invite packet every 1/2"Session Expires" seconds.
13. [BUG FIX] (SPRID : 060329496)
    Symptom: Link rate displayed in UPnP icon is not same with actual ADSL link rate.
14. [BUG FIX] (SPRID : 060329497)

Symptom: WAN connection will be down after configured "WAN Backup Setup".

15. [BUG FIX] (SPRID : 060329498)
    Symptom: DUT always crashes after modified WAN Backup.
16. [BUG FIX] (SPRID : 060329499)
    Symptom: If enabled SUA default server, SIP can't register.
17. [BUG FIX] (SPRID : 060329519)
    Symptom: Internet LED still lights up while PPPoE or PPPoA idle timeout.
18. [BUG FIX] (SPRID : 060329521)
    Symptom: From Web GUI, system back to "Network > NAT > Address Mapping" after edit SUA in "More Connections".
19. [BUG FIX] (SPRID : 060330542)
    Symptom: DUT run FTP session overnight to verify stress test, when firewall enable, it will block WAN to LAN FTP session (MS-DOS; Cuteftp; ftp programs).
20. [BUG FIX] (SPRID : 060329456)
    Symptom: Interoperability issue with Intel 2200B/G (driver_v9.0.3.9) Tx or Rx throughput is low.(9~15Mbps) (No Wep、Static WEP、WPA-PSK、WPA2-PSK).
21. [BUG FIX] (SPRID : 060331670)
    Symptom: DTMF loss on PSTN (RED-COM/QPRO).
22. [BUG FIX] (SPRID : 060331671)
    Symptom: When DUT send/receive FAX through VoIP, make VoIP call at the same time. The fax will stop.(G.711 Passthrough).
23. [BUG FIX] (SPRID : 060404089)
    Symptom: When incoming and outgoing VOIP call, the LED can't flash bright.
24. [BUG FIX] (SPRID : 060404090)
    Symptom: Sometimes dial internal calls by “####”, device may occur crash or reboot.
25. [BUG FIX] (SPRID : 060404093)
    Symptom: DUT-A call DUT-B, DUT-A and DUT-B converse, DUT-A delay 2 Sec then DUT-B could hear the sound of DUT-A.
26. [BUG FIX] (SPRID : 060404107)
    Symptom: The DUT can't use speed dial on non-proxy.
27. [BUG FIX] (SPRID : 060404108)
    Symptom: [Procedure] 0) CID delivery : OFF , 1) make VoIP conversation, 2)make on-hook callee side, ==> caller will not hang up.
28. [BUG FIX] (SPRID : 060404136)
    Symptom: Change "Call Service mode" in Web GUI, the selected PSTN Line is disappeared.
29. [BUG FIX] (SPRID : 060404139)
    Symptom: Music on hold can't work.
30. [BUG FIX] (SPRID : 060404140)
    Symptom: DUT B select SIP INFO.DUTB send DTMF key, the DTMF tone of SIP INFO is wrong.
31. [FEATURE ENHANCE]
    Add new DSL link state “Detect signal” when DSL tries to detect carrier signal, user can check the status by CI command “wan adsl status” and DSL interface status in Web GUI. In the carrier detect state, the DSL LED will slowly blink.
32. [FEATURE NOTE]

When user makes conference call by ISDN phone through 2 VoIP connections, he needs to configure the same voice compression types in 2 SIP settings. Otherwise the conference conversation can't be successful.

33. [FEATURE NOTE]
    The following feature keys are applied on ISDN phone :
    "****" = IVR embedded
    "####" = internal call
    "*99#" = enable f/w update
    "#99#" = disable f/w update.
34. [FEATURE NOTE]
    The following ISDN supplementary services are supported in current version :
    Calling Line Identification Presentation (CLIP)
    Calling Line Identification Restriction (CLIR)
    Connected Line Identification Presentation (COLP)
    Calling Line Identification Restriction (COLR)
    Advice of Charge – during the call (AOC-D)
    Advice of Charge – at the end of the call (AOC-E)
    Call Hold/Retrieve
    Second Call
    Call Waiting
    Call Transfer
    Three Party Conference
    Malicious Call Identification (MCID)
    Date/Time Service
35. [FEATURE ENHANCE]
    Support "Outbound Proxy" in Web GUI VoIP->SIP->SIP settings->Advanced.

Modifications in V 3.40(ADV.0)b3 | 04/24/2006

1. Skip the version.

Modifications in V 3.40(ADV.0)b2 | 03/17/2006

1. [BUG FIX]
   Symptom: IVR can't work. Dial 1 1 0 1 #, can't record sound.
2. [BUG FIX]
   Symptom: The functiuon of Auto firmware upgrade can't work.
3. [BUG FIX]
   Symptom: When do VoIP Phase II Function (flash + 2 to switch back and forth) many times, DUT will crash.
4. [BUG FIX]
   Symptom: Long VoIP conversation with G.711/ G.729 codec on SIP1/SIP2. The conversation will stop.
5. [BUG FIX]
   Symptom: Continuous VoIP call with G.711 / G.729 codec by using SIP1/SIP2 account with data traffic. One DUT will show "RTP insert fail'. The other DUT will reboot system.
6. [BUG FIX]

Symptom: VOIP Fax can't work.The DUT will occur exceptin.

7. [BUG FIX]
   Symptom: DUT B select SIP INFO.DUTB send DTMF key, the DUT will crash.
8. [BUG FIX]
   Symptom: VOIP PHASE II can’t use USA country code.
9. [BUG FIX]
   Symptom: DUT can't receive CLID from PSTN CO simulator.
10. [BUG FIX]
    Symptom: PSTN phone will not receive ringing.
11. [BUG FIX]
    Symptom: DUT will pick up PSTN incoming signal after DUT DAA relay on. DUT should play busy tone or play PSTN call-waiting signal.
12. [BUG FIX]
    Symptom: PSTN DTMF tone is wrong.
13. [BUG FIX]
    Symptom: Make Phone off-hook during receiving PSTN signal through life line.
    The phone will not rining after receiving PSTN signal again unless to make Phone on-off hook again.
14. [BUG FIX]
    Symptom: call transfer can't work.
15. [BUG FIX]
    Symptom: Flash+ 0 can't reject waiting call.
16. [BUG FIX]
    Symptom: Set speed dial, and select non-proxy: IP address. The DUTA call speed dial, DUT B off-hock. The tone is no any voice.
17. [BUG FIX]
    Symptom: Default setting : Call-Waiting Reject Time=20 Sec can't reject incoming call.
18. [BUG FIX]
    Symptom: If the third compression type set G.711u, the call can’t establish.
    1. DUT A set " G.729>G.729>G.711u.
    2. DUT B set "G.711u>G.711u>G.711u.
    3. DUT A can't call DUT B.
19. [BUG FIX]
    Symptom: DUT crash after run Internet Wizard.
20. [BUG FIX]
    Symptom: DUT crash if quickly to delete several firewall rules of "LAN to LAN/ Router".
21. [BUG FIX]
    Symptom: Internet Wizard always remains as "Auto detecting ISP Please wait a moment".
22. [BUG FIX]
    Symptom: Although support Multi-Language, some wordings are still English.
23. [BUG FIX]
    Symptom: "DSL Mode" shows nothing in "Status" page.
24. [BUG FIX]

Symptom: Default ATM QoS Type should not be "CBR" for OBM model.

25. [BUG FIX]
    Symptom: WMM: If we enable QoS and save it, the QoS is disabled after we reboot Router/AP.
26. [BUG FIX]
    Symptom: From the Wizard, when config with Wireless active is disable, and proceeded with it, then device crashes.
27. [BUG FIX]
    Symptom: Load default first, and from the Wizard, configure wireless with active and enable OTIST, then configure with "setup key"=1234, it will show the message "Please type at least 8 characters into the key entry field." and you can apply the back button, but you will not see the "setup key" field.
28. [BUG FIX]
    Symptom: When config OTIST function, the "setup key" we can accept 0-8 chars, but from wizard, this error message was showed "Please type leatest 8 characters into the key entry field" so this function can't work well.
29. [BUG FIX]
    Symptom: If the firewall is enable, the TFTP autopro can't work.
30. [BUG FIX]
    Symptom: If the firewall is disable, then running TFTP/ HTTP auto provision. The DUT will crash.
31. [BUG FIX]
    Symptom: Make conference call with Mixer onhook, the DUT-B and DUT-C can't converse.
32. [BUG FIX]
    Symptom: DUT-A dial 0000, DUT-A receives second dial tone, DUT-A can't dial PSTN number.
33. [BUG FIX]
    Symptom: VoIP Fase II Function has two bugs.
    1. DUT-A and DUT-B make VoIP call conversation, when DUT-A press R key, DUT-B will hear short noise.
    2. Seconed Call issue.
34. [BUG FIX]
    Symptom: DUT-A call DUT-B, DUT-A and DUT-B converse, DUT-A delay 2 Sec then DUT-B could hear the sound of DUT-A.
35. [BUG FIX]
    Symptom: In VOIP>SIP>SIP Settings, don't select "active SIP Account", and apply. The "active SIP account" still can be selected.
36. [BUG FIX]
    Symptom:Configure wireless with no security, Enable G+ then G-162(driver:7.0.1.33/ utility:3.01) connect to DUT and download / upload 50 MB file from ethernet PC, then disable G+ , device crashes.
37. [BUG FIX]
    Symptom: Do "dialing interval select" 1-10, the DUT will crash two times.
38. [BUG FIX]
    Symptom: Configure WAN as PPPoE/LLC and enable "PPPoE passthrough", it works

failed.

39. [BUG FIX]
    Symptom: Configure some webpages, IE6.0 shows warning messages.
40. [BUG FIX]
    Symptom: In GUI, if configure as static WAN IP, both only enter IP Address. But in "Status" page, PPPoE shows Default Gateway as "WAN IP Address", but PPPoA shows "N/A".
41. [BUG FIX]
    Symptom: About Internet Wizard, after first time user gets this product, Internet Wizard will be useless forever.
42. [BUG FIX]
    Symptom: "DSL Firmware Version" shows nothing in "Status" page.
43. [BUG FIX]
    Symptom: Active, Inactive Remote Node has problem.
44. [BUG FIX]
    Symptom: After "sys romreset", DSL physical link can't sync up.
45. [BUG FIX]
    Symptom: IP Address of PPPoE, PPPoA and Enet Encap in other Remote Node will be gone.
46. [BUG FIX]
    Symptom: Default route of Remote Node 1 will be removed after deleted other Remote Node.
47. [BUG FIX]
    Symptom: In eWC, there is no "IP Subnet Mask" in Static Route display page.
48. [BUG FIX]
    Symptom: Configure wireless security =WEP64, and 3 stations connected and ping each other over night, then change some configure of wireless (ex: channel, security mode), device crashes.
49. [BUG FIX]
    Symptom: Sometimes, when we configure wireless setting, device crashes.
50. [BUG FIX]
    Symptom: IOP issue with Intel 2200BG wireless card.
51. [BUG FIX]
    Symptom: Issue for add Firewall rule.
    1. eWC-> Firewall-> Rules page, add 4 Firewall rules for LAN to LAN and the rules are:
        - Any (ICMP)
        - AIM/NEW-ICQ (TCP: 5190)
        - AUTH (TCP: 113)
        - BGP (TCP: 179)

    2. After last step, you will see 2 rules for AUTH (TCP: 113) in this page.
52. [BUG FIX]
    Symptom: Add keyword has some problem in content filter.
    1. eWC-> Content Filter-> Keyword, enable "Active Keyword Blocking" and click Apply button.
    2. Then add keyword " yahoo" in this page, will have error message " ERROR: Add

keyword fail.".

53. [BUG FIX]
    Symptom: "Active" checkbox of Firewall issue.
    1. In eWC, Firewall LAN to WAN page, add one Firewall rule and status is active.
    2. In the Rule Table, check the "Active checkbox" to in-active this rule.
    3. Change to WAN to WAN page, you will see the default rule also show in-active. So, active or in-active one rule will impact all firewall rules.
54. [BUG FIX]
    Symptom: IE browser script error.
    1. By default in GUI WAN page.
    2. Select RFC1483 for WAN encapsulation.
    3. Click the IP address field, the browser will pop out a window and show some html object is error.
    4. Other encapsulatio still has this issue.
55. [BUG FIX]
    Symptom: CI prompt name won't change back after modified System Name back to blank.
56. [BUG FIX]
    Symptom: GUI in "Maintenance > Diagnostic > DSL Line" page, should not display the LAN IP information.
57. [BUG FIX]
    Symptom: Date Time, Time and NTP can't work under some condition.
58. [BUG FIX]
    Symptom: There is no "Traffic Redirect" page in eWC.
59. [BUG FIX]
    Symptom: DHCP criteria have some problem.
    1. Now, LAN enabled DHCP server. Connect 2 PC with LAN and get 192.168.1.33 and 192.168.1.34.
    2. Unplug PC1 and PC2, plug other 3 devices with LAN, get 192.168.1.35 ~ 37.
    3. Unplug these 3 devices, plug PC1 and PC2 with LAN again. PC1 gets IP Address 192.168.1.33 but PC2 gets "192.168.1.38".
    4. Captured picture attached.
60. [BUG FIX]
    Symptom: If NAT Address Mapping selects "Server", system accepts "Server Mapping Set" as "N/A".
61. [BUG FIX]
    Symptom: Remote Management secure IP work Fail.
62. [BUG FIX]
    Symptom: Load default first, configure wireless security=static WEP and Passphrase=1 --> Generate -->apply, then change the security to WPA-PSK or WPA2 .. whatever, but no click the apply button, and logout , when login again , you can find the configure stay at the WPA-PSK (the configure that no applied)
63. [BUG FIX]
    Symptom: Session expire time fail, because DUT can't send out re-invite packet every 1/2"Session Expires" seconds.
64. [BUG FIX]

Symptom: Load default first, configure wireless security=No Security SSID=PQA-3214, click the OTIST tab then start it!! When process finished, change the security to static WEP, passphrase =1 -->Generate (No apply), now change the security to WPA-PSK (No apply), then click the OTIST tab, it will pop the message" The security is WPA-PSK mode on WLAN now. The key is...."caused the OTIST function start.

65. [BUG FIX]
    Symptom: In Web, SIP Account can't disable.
66. [BUG FIX]
    Symptom: Can't add 11th Port Forwarding set in eWC NAT.
67. [BUG FIX]
    Symptom: System displays "ERROR: Duplicate IP Address!" while adding NAT forwarding rule.
68. [BUG FIX]
    Symptom: Change NAT but system won't take effect frequently.
69. [BUG FIX]
    Symptom: CID delivery set to OFF, make VoIP conversation, make on-hook at callee side, ==> caller will not hang up.
70. [BUG FIX]
    Symptom: Make second call will hear reoder tone.
71. [BUG FIX]
    Symptom: System displays error message while Many-to-Many-Overload.
72. [BUG FIX]
    Symptom: Internet Wizard detects incorrectly under some conditions.
73. [BUG FIX]
    Symptom: Manually Configure Internet Connection" in Internet Wizard doesn't work.
74. [BUG FIX]
    Symptom: Internet LED lights on during VC Hunt.
75. [BUG FIX]
    Symptom: Web Redirect of VC Hunt can't work sometimes.
76. [BUG FIX]
    Symptom: Link rate displayed in UPnP icon is not same with actual ADSL link rate.
77. [BUG FIX]
    Symptom: After de-active first MBM rule, second BWM rule setting will changed.
78. [BUG FIX]
    Symptom: MBM traffic will meet wrong rule.
79. [BUG FIX]
    Symptom: Cannot dial to peer PSTN phone after hearing dial tone, when P2602 PSTN port is connected with P2002 phone port.
80. [BUG FIX]
    Symptom: Can’t make ISDN phone calls.
81. [FEATURE ENHANCE]
    Support last number redial.
82. [FEATURE ENHANCE]
    ISDN NT supports VoIP supplementary services.
83. [FEATURE ENHANCE]

Add IVR tone support in new GUI.

84. [FEATURE CHANGE]
Change modem code from 5.0.5.0 to 5.3.2.0.

Modifications in V 3.40(ADV.0)b1 | 03/09/2006

1. First create the beta firmware.

Annex B U-R2 CI Command List

Command Class List Table		
System Related Command	Exit Command	Ethernet Related Command
WAN Related Command	WLAN_Related_Command	IP Related Command
IPSec 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
	log			
		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 Home

Command				Description
exit				exit smt menu

Ethernet Related Command Home

Command				Description
ether				
	config			display LAN configuration information
	driver			
		cnt		
			disp <name>	display ether driver counters
			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 Home

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.
	filter			
		[incoming | outgoing]	<generic>[set#1][set#2][set#3][set#4]	To set generic filter for wireless channel

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
	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
	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
		resetport		reset all nat server table entries
		incikeport	[on|off]	turn on/off increase ike port flag

IPSec Related Command Home

Command				Description
ipsec				
	debug	<1|0>		turn on|off trace for IPsec debug information
	route	lan	<on|off>	After a packet is IPSec processed and will be sent to LAN side, this switch is to control if this packet can be applied IPSec again.
				Remark: Command available since 3.50(WA.3)
		wan	<on|off>	After a packet is IPSec processed and will be sent to WAN side, this switch is to control if this packet can be applied IPSec again.
				Remark: Command available since 3.50(WA.3)
	show_runtime	sa		display runtime phase 1 and phase 2 SA information
		spd		When a dynamic rule accepts a request and a tunnel is established, a runtime SPD is created according to peer local IP address. This command is to show these runtime SPD.
	switch	<on|off>		As long as there exists one active IPSec rule, all packets will run into IPSec process to check SPD. This switch is to control if a packet should do this. If it is turned on, even there exists active IPSec rules, packets will not run IPSec process.
	timer	chk_my_ip	<1~3600>	- Adjust timer to check if WAN IP in menu is changed
				- Interval is in seconds
				- Default is 10 seconds
				- 0 is not a valid value
		chk_conn.	<0~255>	- Adjust auto-timer to check if any IPsec connection has no traffic for certain period. If yes, system will disconnect it.
				- Interval is in minutes
				- Default is 2 minuets
				- 0 means never timeout
		update_peer	<0~255>	- Adjust auto-timer to update IPSec rules which use domain name as the secure gateway IP.
				- Interval is in minutes
				- Default is 30 minutes
				- 0 means never update
				Remark: Command available since 3.50(WA.3)
	updatePeerIp			Force system to update IPSec rules which use domain name as the secure gateway IP right away.
				Remark: Command available since 3.50(WA.3)
	dial	<rule #>		Initiate IPSec rule <#> from ZyWALL box
				Remark: Command available since 3.50(WA.3)

	display	<rule #>		Display IPSec rule #
	config	netbios	active <on|off>	Set netbios active flag
			group <group index1, group index2…>	Set netbios group
		name	<string>	Set rule name
		active	<Yes | No>	Set active or not
		keeyAlive	<Yes| No>	Set keep alive or not
		lcIdType	<0:IP | 1:DNS | 2:Email>	Set local ID type
		lcIdContent	<string>	Set local ID content
		myIpAddr	<IP address>	Set my IP address
		peerIdType	<0:IP | 1:DNS | 2:Email>	Set peer ID type
		peerIdContent	<string>	Set peer ID content
		secureGwAddr	<IP address | Domain name>	Set secure gateway address or domain name
		protocol	<1:ICMP | 6:TCP | 17:UDP>	Set protocol
		lcAddrType	<0:single | 1:range | 2:subnet>	Set local address type
		lcAddrStart	<IP>	Set local start address
		lcAddrEndMask	<IP>	Set local end address or mask
		lcPortStart	<port>	Set local start port
		lcPortEnd	<port>	Set local end port
		rmAddrType	<0:single | 1:range | 2:subnet>	Set remote address type
		rmAddrStart	<IP>	Set remote start address
		rmAddrEndMask	<IP>	Set remote end address or mask
		rmPortStart	<port>	Set remote start port
		rmPortEnd	<port>	Set remote end port
		antiReplay	<Yes | No>	Set anitreplay or not
		keyManage	<0:IKE | 1:Manual>	Set key manage
		ike	negotiationMode <0:Main | 1:Aggressive>	Set negotiation mode in phase 1 in IKE
			preShareKey <string>	Set pre shared key in phase 1 in IKE
			p1EncryAlgo <0:DES | 1:3DES>	Set encryption algorithm in phase 1 in IKE
			p1AuthAlgo <0:MD5 | 1:SHA1>	Set authentication algorithm in phase 1 in IKE
			p1SaLifeTime <seconds>	Set sa life time in phase 1 in IKE
			p1KeyGroup <0:DH1 | 1:DH2>	Set key group in phase 1 in IKE
			activeProtocol <0:AH | 1:ESP>	Set active protocol in phase 2 in IKE
			p2EncryAlgo <0:Null | 1:DES | 2:3DES>	Set encryption algorithm in phase 2 in IKE
			p2AuthAlgo <0:MD5 | 1:SHA1>	Set authentication algorithm in phase 2 in IKE
			p2SaLifeTime <seconds>	Set sa life time in phase 2 in IKE
			encap <0:Tunnel | 1:Transport>	set encapsulation in phase 2 in IKE
			pfs <0:None | 1:DH1 | 2:DH2>	set pfs in phase 2 in IKE
		manual	activeProtocol <0:AH | 1:ESP>	Set active protocol in manual
		manual ah	encap <0:Tunnel | 1:Transport>	Set encapsulation in ah in manual
			spi <decimal>	Set spi in ah in manual
			authAlgo <0:MD5 | 1:SHA1>	Set authentication algorithm in ah in manual
			authKey <string>	Set authentication key in ah in manual
		manual esp	encap <0:Tunnel | 1:Transport>	Set encapsulation in esp in manual
			spi <decimal>	Set spi in esp in manual
			encryAlgo <0:Null | 1:DES | 2:3DES>	Set encryption algorithm in esp in manual
			encryKey <string>	Set encryption key in esp in manual
			authAlgo <0:MD5 | 1:SHA1>	Set authentication algorithm in esp in manual
			authKey < string>	Set authentication key in esp in manual

PPP Related Command Home

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 Home

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 Home

Command				Description
radius				
	auth			show current radius authentication server configuration
	acco			show current radius accounting server configuration

8021x Related Command Home

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

Configuration Related Command Home

Command					Description
config					The parameters of config are listed below.
edit	firewall	active			Activate or deactivate the saved firewall settings

		<yes|no>			
retrieve	firewall				Retrieve current saved firewall settings
save	firewall				Save the current firewall settings
display	firewall				Displays all the firewall settings
		set <set#>			Display current entries of a set configuration; including timeout values, name, default-permit, and number of rules in the set.
		set <set#>	rule <rule#>		Display current entries of a rule in a set.
		attack			Display all the attack alert settings in PNC
		e-mail			Display all the e-mail settings in PNC
		?			Display all the available sub commands
		e-mail	mail-server <mail server IP>		Edit the mail server IP to send the alert
			return-addr <e-mail address>		Edit the mail address for returning an email alert
			e-mail-to <e-mail address>		Edit the mail address to send the alert
			policy <full | hourly |daily | weekly>		Edit email schedule when log is full or per hour, day, week.
			day <sunday | monday | tuesday | wednesday | thursday | friday | saturday>		Edit the day to send the log when the email policy is set to Weekly
			hour <0~23>		Edit the hour to send the log when the email policy is set to daily or weekly
			minute <0~59>		Edit the minute to send to log when the email policy is set to daily or weekly
			Subject <mail subject>		Edit the email subject
		attack	send-alert <yes|no>		Activate or deactivate the firewall DoS attacks notification emails
			block <yes|no>		Yes: Block the traffic when exceeds the tcp-max-incomplete threshold
					No: Delete the oldest half-open session when exceeds the tcp-max-incomplete threshold
			block-minute <0~255>		Only valid when sets 'Block' to yes. The unit is minute
			minute-high <0~255>		The threshold to start to delete the old half-opened sessions to minute-low
			minute-low <0~255>		The threshold to stop deleting the old half-opened session
			max-incomplete-high <0~255>		The threshold to start to delete the old half-opened sessions to max-incomplete-low
			max-incomplete-low <0~255>		The threshold to stop deleting the half-opened session
			tcp-max-incomplete <0~255>		The threshold to start executing the block field
		set <set#>	name <desired name>		Edit the name for a set
			default-permit <forward|block>		Edit whether a packet is dropped or allowed when it does not match the default set
			icmp-timeout <seconds>		Edit the timeout for an idle ICMP session before it is terminated

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

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

Firewall Related Command Home

Command				Description
sys				
	firewall			
		acl		
			disp	Display specific ACL set # rule #, or all ACLs.
		active	<yes|no>	Active firewall or deactivate firewall
		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 Home

No	Command	Description	Comment
	sys bridge [on|off]	Set system bridge on/off	Menu 1
	sys routeip [on|off]	Set system IP routing on/off	Menu 1
	sys hostname [hostname]	Set system name	Menu 1
	sys display	Display hostname, routing/bridge mode information in menu 1	Display Menu 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	
	wan backup mechanism [dsl | icmp]	Set wan backup mechanism to DSL link or ICMP	Menu 2
	wan backup addr [index] [IP addr]	Set wan ip address <index>	Menu 2
	wan backup tolerance [number]	Set keepalive fail tolerance	Menu 2
	wan backup recovery [interval(sec)]	Set recovery interval	Menu 2
	wan backup timeout [number]	Set ICMP timeout	Menu 2
	wan backup save	Save wan backup related parameters	Menu 2
	wan backup display	Display wan backup configurations	Menu 2
	wan tredir active [on|off]	Set traffic redirect on/off	Menu 2.1
	wan tredir ip [IP addr]	Set traffic redirect gateway IP address	Menu 2.1
	wan tredir metric [number]	Set traffic redirect metric	Menu 2.1
	wan tredir save	Save traffic redirect related parameters ** Have to apply “wan backup save” command thereafter	Menu 2.1
	wan tredir display	Display traffic redirect configurations	Menu 2.1
	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 Example: Lan filter incoming tcpip 1 0 0 0	Menu 3.1
	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 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 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
	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,	Menu 15.1

		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	
	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 may 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 [new password]	Set system password [save immediately]	Menu 23 system password
	sys baud [1-5]	Index 12,3 will be 38400,19200, 9600, 57600, 115200 bps [save immediately]	Menu 24.2.2 console speed
	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, [1] means display buffer	
	sys server save	Save the embedded server (remote management) parameters	
	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	

The CI commands currently implemented for SMT features

SMT Related command Home

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	
	wan backup display	Display the backup information	Menu 2
	wan backup load	Load the setting	Menu 2
	wan backup free	Free the load setting	Menu 2
	wan backup checkmech [ICMP | DSL]	Setting check mechanism	Menu 2
	wan backup checkip1[IP address]	Setting Check WAN IP Address1	Menu 2
	wan backup checkip2 [IP address]	Setting Check WAN IP Address2	Menu 2
	wan backup checkip3 [IP address]	Setting Check WAN IP Address3	Menu 2
	wan backup tolerance [num]	Setting the KeepAlive Fail Tolerance	Menu 2
	wan backup recoveryInterval [num]	Setting the recovery interval	Menu 2
	wan backup icmptimeout [num]	Setting the ICMP timeout	Menu 2
	wan backup trafficredirect active [yes | no]	Enable the traffic redirect	Menu 2.1
	wan backup trafficredirect backupgateway [IP address]	Setting the Backup Gateway IP Address	Menu 2.1
	wan backup trafficredirect metric [num]	Setting the gateway IP address metric	Menu 2.1
	#ifdef DIAL_BACKUP		
	wan backup dialbackup active [yes | no]	Enable dial backup	Menu 2.2
	wan backup dialbackup portspeed [num]	Setting the dial backup port speed	Menu 2.2
	wan backup dialbackup atcommand init [init]	Setting the AT Command String of init.	Menu 2.2
	Wan backup dialbackup atcommand dial [Dail]	Setting the AT Command String of dial.	Menu 2.2.1
	wan backup dialbackup atcommand drop [Drop]	Setting the AT Command String of drop.	Menu 2.2.1
	wan backup dialbackup atcommand answer [Answer]	Setting the AT Command String of answer.	Menu 2.2.1
	wan backup dialbackup dropDTR [yes | no]	Drop DTR When Hang Up	Menu 2.2.1
	wan backup dialbackup atresponse clid [CLID]	Setting the AT Response String of CLID.	Menu 2.2.1
	wan backup dialbackup atresponse callid [Called Id]	Setting the AT Response String of Called ID	Menu 2.2.1
	wan backup dialbackup atresponse speed [Speed]	Setting the AT Response String of speed	Menu 2.2.1
	wan backup dialbackup callctl dialtimeout [second]	Setting dial backup call control dial timeout	Menu 2.2.1
	wan backup dialbackup callctl retrycount [num]	Setting dial backup call control retry count	Menu 2.2.1
	wan backup dialbackup callctl retryinterval [second]	Setting dial backup call control retry interval	Menu 2.2.1
	wan backup dialbackup callctl droptimeout [second]	Setting dial backup call control drop timeout	Menu 2.2.1
	wan backup dialbackup callctl callbackdelay [second]	Setting dial backup call control call back delay	Menu 2.2.1

	#endif		
	wan backup save	Save the setting	Menu 2
	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 Example: Lan filter incoming tcpip 1 0 0 0	Menu 3.1
	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
	#ifndef VBR-RT		
	wan node qos[ubr|cbr|vbr]	Set the wan QoS type to be UBR ,CBR,or VBR	Menu 11.6
	#else		
	wan node qos[ubr|cbr|vbr_nrt|vbt_rt]	Set the wan QoS type to be UBR, CBR,VBR_nrt or VBT-rn	Menu 11.6
	#endif		
	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 ppp idletimeout [second]	Set idle timeout.	Menu 11.1
	#ifdef DIAL_BACKUP and index = the last remote node		
	wan node backup ispname [ISP name]	Enable the name of wan node	Menu 11.1
	wan node backup enable	Enable the wan profile	Menu 11.1
	wan node backup disable	Disable the wan profile	Menu 11.1
	wan node backup ppp authen [chap|pap|both]	Set PPP authentication type	Menu 11.1
	wan node backup ppp username [name]	Set PPP username	Menu 11.1
	wan node backup ppp password [password]	Set PPP password	Menu 11.1

	wan node backup priph [Pri Phone]	Set backup ISP primo phone	Menu 11.1
	wan node backup secph [Sec Phone]	Set backup ISP second phone	Menu 11.1
	wan node backup pppopt encap [std | cisco]	Set PPP option, standard PPP or CISCO	Menu 11.2
	wan node backup pppopt com [yes | no]	Set PPP option, compression or not	Menu 11.2
	wan node backup wanip [static|dynamic] [address]	Set the wan IP address	Menu 11.3
	wan node backup remoteip [address] [subnet mask]	Set the remote gateway IP address and subnet mask	Menu 11.3
	wan node backup nat [off | sua | full] [address mapping #]	Set type wan NAT mode to be off or SUA or Full feature	Menu 11.3
	wan node backup metric [num]	Set the wan metric number	Menu 11.3
	wan node backup private [yes|no]	Set the wan private or not.	Menu 11.3
	wan node backup rip [none|in|out|both] [rip1|rip2b|rip2m]	Set the wan RIP mode and RIP version	Menu 11.3
	wan node backup multicast [none|igmpv1|igmpv2]	Set the wan IP multicast mode	Menu 11.3
	wan node backup script active [yes | no]	Active remote node script	Menu 11.4
	wan node backup script set1 [expect] [send]	remote node script setting	Menu 11.4
	wan node backup script set2 [expect] [send]	remote node script setting	Menu 11.4
	wan node backup script set3 [expect] [send]	remote node script setting	Menu 11.4
	wan node backup script set4 [expect] [send]	remote node script setting	Menu 11.4
	wan node backup script set5 [expect] [send]	remote node script setting	Menu 11.4
	wan node backup script set6 [expect] [send]	remote node script setting	Menu 11.4
	wan node backup nailedup [on|off]	Set nailed up connection on/off	Menu 11.1
	wan node backup 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 backup idletimeout [second]	Set idle timeout.	Menu 11.1
	#endif		
	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	Menu 15.2

		to let it save into flash	
	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 1,2,3 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
	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 this command first before you begin to configure the IP routing policy rules	Menu 25 IP routing 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	Set schedule weekly day	Menu 26 schedule

	[1:active|0:inactive]		
	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	
	vlan load	Load system parameters into working buffer	Menu 3.6 for VLAN
	vlan disp	Display the working buffer	Menu 3.6 for VLAN
	vlan free	Free the working buffer	Menu 3.6 for VLAN
	vlan port2-3 [yes|no]	Set port2 and port 3 as a VLAN	Menu 3.6 for VLAN
	vlan port2-4 [yes|no]	Set port2 and port 4 as a VLAN	Menu 3.6 for VLAN
	vlan port3-4 [yes|no]	Set port3 and port 4 as a VLAN	Menu 3.6 for VLAN
	vlan save	Save VLAN configuration	Menu 3.6 for VLAN