ZyXEL

Firmware Release Note

P-2608HWL-D1
Standard Version

Release 3.40(ADT.0)C0

Date: **October 3, 2006**
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Supported Platforms:

ZyXEL P-2608HWL-D1

Versions:

ZyNOS Version: V3.40(ADT.0) | 10/03/2006 19:10:00
Bootbase Version: V1.13 | 02/16/2006 14:05:00

Notes:

ZyXEL P-2608HWL is a business class VoIP IAD, which allows service providers to offer VoIP service as well as secure high-speed Internet data access for SMB segment users.
It is an all-in-one integrated access device, which provides high-speed ADSL/2/2+ Internet access, 4-port 10/100M auto MDI/MDIX Ethernet switch, secure VPN/Firewall, IEEE 802.11g wireless, and SIP based VoIP functionalities for up to 8 FXS ports connection.
By connecting 8 FXS ports to existing PBX system, P-2608HWL acts as an extension box to enable small business users the have up to 8 VoIP extension lines on their PBX system. Small business users are allowed to reduce cost of their telephony tariff, but to keep the same phone usage behavior.

The version of modem code is 06.00.04.00.

Features:

Modification in 3.40(ADT.0)C0 | 10/03/2006
1.   Change to FCS version.

Modification in 3.40(ADT.0)b8 | 09/26/2006
1.   [Bug Fixed]

SPR	Description	Comments
060830684	” Group Ring” configurations did not be recorded in the Rom-t file.	
060925675	When do PSTN test, first to dial Prefix only on Analog Phone, then dial PSTN number, sometimes will fail.	

| 060925677 | Make PSTN Call and converse, when press DTMF key from DUT to PSTN CO simulator, the DTMF tone is failed. | |

Modification in 3.40(ADT.0)b7 | 09/21/2006

1. [Bug Fixed]

SPR	Description	Comments
060828526	Wireless client can not access LAN's server after we config system name.	
060828538	"New Firmware found and upgrade firmware" test will hear noise. Step1: Update autoprovision file on DUT-A and set new firmware update information. Step2. DUT-A goes offhook, DUT-A play fimrware upgrade notification sound. Step3: DUT-A dial *98# to upgrade firmware. DUT-A will hear noise.	
060828542	DUT send/receive T.38 FAX through VoIP call with T.38 protocol, while send many pages (over 3 pages), the fax will fail.	
060828543	When does "DUT receive CLID from PSTN CO simulator" test, sometimes Phone1~ Phone8 can't display CLID. (Random)(USE TLE)(Average: 2/5)	
060829575	After three hours continuous VoIP conversation with FTP data traffic, DUT will occur exception and reboot.	
060829588	DUT will occur exception after dialing itself own number for serveral times.	
060829592	NTP time server no work till reboot device.	
060829597	OTIST with static 256 WEP key do not work!! 1. If this DUT do not support OTIST + 256 WEP key, please protect it!	OTIST doesn't support WEP256
060829617	When DUT-A incoming call applys to two phones with phone1 mapping to SIP1 and 2 and phone2 mapping to SIP 2, DUT-B cannot make SIP2 VoIP conversation with DUT-A phone1.	
060830637	IE brower will pop up an script error message after clicking the "Edit/delete" button in Web\Speed Dial Phone Book\Modify.	
060830663	802.1x + dynamic WEP can pass WPA security! .	
060830684	" Group Ring" configurations did not be recorded in the Rom-t file.	
060830687	Configure DUT encap with PPPoA/PPPoE to do FTP over night test results in DUT crash.	

| 060831776 | The user cannot set Compression Type to G.711u in RAS. DUT will display the error message "Wrong compressType!" . | |

Modification in 3.40(ADT.0)b6 | 08/24/2006
1. [Bug Fixed]

SPR	Description	Comments
060503153	When does "DUT receive CLID from PSTN CO simulator" test, only first time can display CLID. (Must restart DUT)(USE TLE)	
060503156	Symptom: When does "Listen to IP address (IVR Function)" test, if dial 5 + any key + #, it will play IP address. Condition: Step1: DUT goes offhook, DUT receives dialtone Step2: DUT dials ****, DUT into IVR system Step3. DUT dial 5# to play IP address. But if DUT dial 5 + any key + #, it still can play IP address.	
060724538	WLAN can not access WAN: We load the default setting first(Quick Route = "On"), and config WAN setting = "PPPoE" and wireless security= "No security". 1. The Host that is behind LAN can access Internet 2. Wireless's client can't access Internet via WAN port 3. After we turn off "Quick Route", wireless client can asscess Internet	
060725688	To do AutoProvision by using TFTP or HTTP can't be successful with Encrypted file. The Function will fail and console will show: "Wrong Configuration file format!(AutoPro) version = 340ADT0b6 ownAdWdr = rftp:/o/192.n168.1g1.31 v oiceTCype =o us - 0 f username = andyho WLAN TFTP Client Start ation file format!(AutoPro)"	Can't use whole rom-t for AutoProvisi on.
060725689	Please check it. Enable "Caller Ringing" & "On Hold" function, to do3-way Conference function, the Callee1 only hear the "On Hold" sound. 1. Edit web /VoIP > SIP > SIP Settings/SIP Account=SIP1/Advance Setting/Primary Compression Type to "G.729" on DUT-A and DUT-B. 2. Enable "Caller Ring" and "On Hold" (Tone select default.) 3. DUT-A and DUT-B make VoIP call and converse. 4. DUT-A FLASHES, DUT-A Receives Secondary DT, DUT-B receives MOH 5. DUT-A dials DUT-C, DUT-C rings, DUT-A has ringback 6. DUT-C goes offhook, DUT-A and DUT-C converse 7. DUT-A FLASHES+3, navigates to conference call, but DUT-B still hear MOH and can't hear DUT-A and DUT-C's sound. 8. DUT-A, DUT-B and DUT-C on-hook, then DUT-A make VoIP call to DUT-B and converse. Sometimes DUT-B can't hear DUT-A's sound.	
060725691	The reset button of OTIST's time is wrong, now is 5 sec, but currect is 3 sec.	

060725692	When DUT send/receive FAX through VoIP, make VoIP call many times at the same time. The fax will stop.
060725695	Symptom: GUI Web browser pop out the error message when configure LAN DHCP setup page. Conditon:1. By default, Go to GUI DHCP setup page. 2. Web browser will pop out the script error message.
060725696	Symptom: GUI has problem if import a wrong file as trusted CA. Condition: 1. By default, GUI, Certificates page, Trusted CA page. 2. Import any wrong small file as the trusted CA. 3. Device will not accept, but now click "Back" button it does not work. The page will not back to last page. 4. Also Trusted Remote host Import also has this issue. 5. Also, My certificates Import also has this issue.
060725697	Symptom: HTTPs can not work Conditon: HTTPs can not work
060725702	All Phone can't display CallerID.
060807442	Symptom: DUT crash when change VPN setting Conditon: PC A --- ZW70 --- PQA --- DUT --- PC B 1. Add a VPN rule, Local IP=192.168.1.0/255.255.255.0, Remote IP=192.168.100.0/255.255.255.0, Local ID Type=DNS, Peer ID Type=DNS. Peer ID Content is error. 2. ZW70 add opposite rule 3. Modify DUT Peer ID content to correct, DUT will crash 4. Attach dump
060808530	Enable UPnP function, press RESET button, sometimes DUT will occur exception.

Modification in 3.40(ADT.0)b5 | 07/17/2006

1. [Enhancement]
    Change TI WLAN image from version 6.3.0.22 to 6.3.1.26.
2. [Enhancement]
    Support OTIST.
3. [Bugfix]

SPR	Description	Comments
060330610	IPSEC debug mode cause device crash.	
060330613	Dynamic DNS inconsitency with eWC and SMT.	Hide SMT
060330621	WAN connection will be down after configured "WAN Backup Setup".	
060417240	No VOIP third compression type in SMT 24.8(v c s dis 1). And this function can't work.	

060425993	If we select WPA/WPA-PSK/WPA2/WPA2-PSK and save it, then status page show "WEP: Disable". Suggestion: Security : Disable/ 64-bit WEP/ 128-bit WEP/ 256-bit WEP/WPA/WPA-PSK ...	
060425994	WMM: If we select QoS tab, then the top screen show "Network > Wireless LAN > Qos". Please change the "Qos" to "QoS"	
060425001	Wireless security do not support IEEE 802.1x: Because new ZyXEL product does not support wireless security=802.1x, please remove 1. In SMT menu 23.4, remove the selection "802.1x" of the Key Management Protocol 2. In SMT menu 23.4, remove "Dynamic WEP Key Exchange" 3. In SMT menu 23.4, remove "Authentication Databases" 4. In SMT menu 14, remove "14. Dial-in User Setup"	
060425002	WPA selection in SMT menu modification: If user config WPA nvironment via SMT, then please modify: 1. Wording change from "WPA Mixed Mode" to "WPA Compatible" 2. Modify to "WPA Compatible=N/A" while user select WPA. 3. The default value of the "WPA Broadcast/Multicast Key Update Timer" is 1800(not "10")	
060425007	The time that GUI save setting is too long: 1. If user try to change the VoIP setting and save the setting, it cost about 7~8 seconds 2. If user try to change the wireless setting and save the setting, it cost about 20 seconds	
060425008	OTIST function for OBM version: Please add OTIST function in next version	
060428241	The throughput od the G+ doesn't pass PQA criterion: We enable G+ mode and test the throughput. We found that the throughput (AP --> Client) doesn't pass the 26M bps. (It is under 18M bps)	
060428242	Currently, the device's name is show "Prestige 2608HWL-D1". It is not consistant with other IAD products. It should be "P-2608HWL-D1". This issue happen in login page and Main GUI page. Also in SMT.	
060428244	Device crash if import a small wrong file as trusted CA.	
060428291	WPA-PSK stress test: We prepare 16 wireless clients to associate to AP, then every wireless client use FTP application to access the server that is behind the wired LAN. 1. Router/AP reboot twice after overnight 2. Router/AP shows some warning message "MBOX status = 14(CMD_STATUS_INVALID_PARAM) for command 0xC (IE[0x3000])".(as the attached file) 3. Only 8 wireless clients still transmiss data	
060428295	When romt-t's profile is too big(default settings), the AutoProvision can't work.	
060428296	Test case of "New Firmware found and don't upgrade firmware" is fail.	
060428297	If dial *98#, it will call internal's Phone1 except Phone1.	
060428298	When test unplug DUT WAN cable during VoIP call, callee side can't in idle state.	
060428311	If Resolution of PC is less than "800 x 600", Wizard can't display well.	

060503131	Change the LAN IP will cause the DNS relay did not work well.	
060503132	the reset button need to consist with new implementation.	
060503133	Using GUI do DHCP relay cause device exception.	
060503138	Just found the logs sent from the new P2602 models are shon off by one hour in MS Outlook since dhe DST changed from +0100 to +0200	
060503152	Change " Call Service mode", the selected PSTN Line is disappear.	
060503153	When does "DUT receive CLID from PSTN CO simulator" test, only first time can display CLID. (Must restart DUT)(USE TLE)	
060503154	When DUT send/receive FAX through VoIP, make VoIP call at the same time. The fax will stop.	
060503155	When dose 3-way conference, sometimes DUT will occur exception. (Enable Music on hold & Ring back tone Function.)	
060504202	Turn on the MBM, then TCP application can not use in WLAN interface.	
060504203	MBM cause WLAM client can not get the IP from DHCP.	
060504205	MBM will not manage the Traffic from WLAM.	
060504207	SN white board can not work fine if we do not turn on the UPnP.	
060504208	If ADSL is in initializing state, save the configuration to flash problem.	

Modification in 3.40(ADT.0)b4 | 04/21/2006
1. [Bugfix] [SPR No: 060329512]
   "Call Service Mode" = Europe Type, make second call function, when you press Flash +2, you will hear transient noise.

2. [Bugfix] [SPR No: 060329514]
   Call Service Mode = Europe Type, make second call function, when you press Flash +2, you will hear transient noise.

3. [Bugfix] [SPR No: 060331736]
   To do Continuous VoIP call with G.711 & G.729 codec with data traffic overnight test,
   DUT will occur exception. (Use RED COM_Qpro).
4. [Bugfix] [SPR No: 060401012]
   When DUT power on , the PSTN call will hang up.

5. [Bugfix] [SPR No: 060404162]
   Symptom: Device crash if import a wrong trusted CA.
   Condition: - By default, GUI, Certificates page, Trusted CA page.
           - Import any wrong file as the trusted CA.
           - Device will crash.
           - Also Trusted Remote host Import also has this issue.
           - Also, My certificates Import also has this issue..

6. [Bugfix] [SPR No: 060404167]
   Symptom: Remote management HTTPs secured client IP issue.
   Condition: - By default, setup HTTPs secured IP as 192.168.1.33 and work fine.
           - Then, add WWW secured IP as 192.168.1.33.
           - You will find the HTTPs can not connect to system.

7. [Bugfix] [SPR No: 060406260]
   Symptom: Turn on the zero-configuration after VC hunt did successflly will cause
   device crash.
   Conditon:
     - By default, turn on the VC auto-hunt and setup corrcet the PVC in hunting table.
     - After the vc auto-hunt did successfully, turn on the zero-configuration again in GUI.
     - Device will exception.

8. [Bugfix] [SPR No: 060406260]
   Symptom: Turn on the zero-configuration after VC hunt did successflly will cause
   device crash.
   Conditon:
     - By default, turn on the VC auto-hunt and setup corrcet the PVC in hunting table.
     - After the vc auto-hunt did successfully, turn on the zero-configuration again in GUI.
     - Device will exception.

9. [Bugfix] [SPR No: 060406261]
   Symptom: The system do exception while we do remote management DNS test , it can
   be duplicate.
   Conditon: The system do exception while we do remote management DNS test , it can
   be duplicate
     - Do remote management DNS -WAN funciton , firewall disable.
     - Set WAN IP in WAN side PC NIC -DNS server.
     - Ping www.hinet.net.
     - Change Encapsulation form PPPoA mode to PPPoE mode , or from PPPoA to
     PPPoE mode , or from 1483 mode to PPPoE mode several times.

- The system exception occur.

10. [Bugfix] [SPR No: 060410478]
Symptom: WLAN WPA, WPA-PSK and WPA2, WPA2-PSK work fail.
Conditon: - By default, configure device WLAN as WPA or WPA2.
- It work fail.

11. [Bugfix] [SPR No: 060410572]
Make VoIP call conversation, then make PSTN Incoming Call, the VoIP call will hear call-waiting tone. If press flash key, it can does PSTN call conversation, but if press flash key again, DUT will occur exception.

12. [Bugfix] [SPR No: 060410573]
Make VoIP call conversation, then press flash key and dial PSTN call and conversation, if press flash key again, DUT will occur exception.

13. [Bugfix] [SPR No: 060410574]
Make 8 VoIP call with G.279 codec, DUT will occur exception.

14. [Bugfix] [SPR No: 060410576]
DUT can't restore 3-way conference.
- Phone1 make 3-way Conference.
- Phone2 receive VoIP Incoming Call and converse.
- Then Phone1 press flash key, it always keep second call. It can't restore 3-way conference state. Make 8 VoIP call with G.279 codec, DUT will occur exception.

15. [Bugfix] [SPR No: 060417236]
Auto Firmware upgrade function fail.
 - No IVR voice.
 - Firewall=on or off, it still fail.
 - When press *99#, console will show
 - Passive mode address scan failure. Shouldn't happen !
 - FTP get error

16. [Bugfix] [SPR No: 060417238]
Modify some default settings.
 - Auto Provision Function:
 - Expire Time = 1800 (Now is 0)
 - Retry Expire Time = 180 (Now is 0)
 - In Web, VoIP > SIP > SIP Settings > Advanced/MWI-Expiration Time = 1800

17. [Bugfix] [SPR No: 060417239]
About Wizard Setup : Woice Over Internet Setup has some problems.
 - Wizard setting only SIP1 and SIP2, it don't include SIP3~SIP8 settings.
 - When after Wizard setting, some default settings will be changed.
   - SIP1 and SIP Codec will be changed to G.729 > G.711u (default : G.711u >

G.729)
- RTP Port Range_Start Port will be changed to 40000 (default : 50000)
- Phone Incoming Call Mapping will be changed to Phone1 ~ Phone 8 have select
  SIP1 and SIP2 and it's owner SIP number.(default : only select it's owner SIP
  number.)(Ex. Phone1 -> SIP1)

18. [Enhancement] [Outbound Proxy]
    Support outbound proxy in GUI page

Modification in 3.40(ADT.0)b3 | 04/10/2006
1. [Bugfix] [SPR No: 060329518]
    Phone feature unstable, when make VoIP call several times, DUT will occur exception.

2. [Bugfix] [SPR No: 060329516]
   Some VoIP default setting are wrong.

3. [Bugfix] [SPR No: 060329528]
   When make PSTN call several times, sometimes DUT will occur exception.

4. [Bugfix] [SPR No: 060329529]
   Sometimes make PSTN call, use Pre-fix number only will can't dial OK.
   Step1 Edit web /VoIP > PSTN Line > General/PSTN Line Pre-fix Number and set
   "PSTN Pre-fix Number" to "0000"
   Step2: Click "APPLY" to save rom file.
   Step3: Close web
   Step4: Attach analog phone to DUT-A Phone1.
   Step5: DUT-A offhook, DUT-A receives dialtone.
   Step6: DUT-A dial 0000
   Step7: DUT-A receives second dial tone, DUT-A dial "Lifeline Nunber".

5. [Bugfix] [SPR No: 060330616]
   Symptom: De-active VPN rule will kill original VPN tunnel
   Condition:
     PC A -- ZyWALL70 --- PQA lab --- DUT --- PC B
       Step1. DUT add 3 Static VPN rules, ZyWALL 70 had match rules.
       Step2. Dail up 3 VPN tunnel successful. In DUT GUI Security > VPN > Summary
       page, de-active Rule#3
       Step3. Check Monitor VPN Rule #1 and Rule #2 tunnel are killed.
       Step4. Check log page DUT will send 2-3 [HASH][DEL] packet out.

6. [Bugfix] [SPR No: 060330618]
   Symptom: Default "WAN to WAN / Router" rule displays incorrectly.
   Condition: By Default, go to "Security > Firewall > Rules" then select Packet Direction
              as "WAN to WAN / Router", you can see the "Source IP" and "Destination
              IP" of Rule 1 shows blank.

7. [Bugfix] [SPR No: 060330624]
   Remove VPN Certificate option

8. [Bugfix] [SPR No: 060330651]
   PSTN call has echo problem

9. [Bugfix] [SPR No: 060331733]
   To do simultaneous many VoIP calls incoming test, DUT will occur exception (Over 1 hour).(Use Invite tool.)

10. [Bugfix] [SPR No: 060401005]
    Sometimes to do Continuous PSTN call test_ console will show:"Channel sClosem ErroDr=-11". If make PSTN-PSTN call from PSTN Phone to DUT and converse, will hear transient noise then can't hear any voice.

11. [Bugfix] [SPR No: 060401006]
    PSTN Incomming Voice quailty is to low. (Use RED COM_Qpro test)
    Setp1. To do PSTN Outgoing & Imcoming Voice Quality test with Phone1: The MOS value and Insertion Loss is good.
    Setp2. Phone1 test OK, then change to Phone2, to do PSTN Outgoing & Imcoming Voice Quality test, the Imcoming MOS value and Insertion Loss is too lower. (MOS : 3.27, Insertion Loss : 17.03dB)
    Setp3. When Setp2 test OK, then change to Phone1 to test, the PSTN Imcoming MOS value and Insertion Loss will be changed too lower. DUT Must reboot, then the Imcoming MOS value and Insertion Loss will OK.

12. [Bugfix] [SPR No: 060401014]
    When Firewall=ON, the AutoProvision function can't work

13. [Bugfix] [SPR No: 060401015]
    When Firewall-Off, the AutoProvision_Protocol=TFTP or HTTP can't work

14. [Bugfix] [SPR No: 060404165]
    Symptom: Remote management HTTPs GUI page issue.
    Condition: 1. By default, GUI, Remotement page, HTTPs page.
    2. Click the "Authenticate Client Certificate" check box.
    3. System will pop out an error message windows.
    4. Also, if click the (Trusted CAS) hyper link, it will not work.
    5. Also, the server host key field should has one default Certificate.

15. [Bugfix] [SPR No: 060404170]
    Symptom: HTTPs management issue.
    Condition: 1. By default, using HTTPs login to device.
    2. Replace the Factory default certificate in login page.
    3. You will see the no good page in " select wizard or advanced mode" page.

4. Enter advanced mode.
5. click the "Remote Management" page, device will reboot.

16. [Bugfix] [SPR No: 060406259]
Symptom: IE browser pop out some error message windows in WAN and DHCP page.
Condition: 1. By default, GUI, WAN page.
2. Select PPPoE or PPPoA or ENET encapsulation. The IE will pop out the error message window.
3. Change dynamic IP or Static IP also has this issue.
4. In LAN DHCP page also has this issue.

17. [Bugfix] [SPR No: 060406285]
Symptom: Call Forward Table select Table3 ~ 8, it will always be changed to Table2.
Condition: Step1. Edit Web VoIP->SIP->SIP Settings/Advanced/Call Forward/Call Forward Table select Table3 ~ 8.
Step2. Click "APPLY" to save rom file.
Step3. The setting will always be changed to Table2

18. [Bugfix] [SPR No: 060330653]
In CI command, to do "voice config common save 1", the saving time is too long (1 min), and while saving period, if off-hook phone, will hear noise.

19. [Bugfix] [SPR No: 060331734]
In Web, change "VoIP -> Phone -> Voice Volume Control/SpeakingVolume & Listening Volume" from -1 to 0 or 1, use "RED COM_Qpro" to test, the "Insertion Lose (dB)" always = 6~ 7

20. [Bugfix] [SPR No: 060401011]
Change Incoming Call apply to SIP1~SIP8 will not work on GUI unless reboot to DUT

21. [FEATURE CHANGE] Default user password for eWC is "user".

Modification in 3.40(ADT.0)b2 | 04/04/2006
1. [FEATURE ENHANCE] Support T.38 and Fax Pass through
2. [FEATURE ENHANCE] Support simple multi-user login web
3. [FEATURE ENHANCE] Support Music On Hold
4. [FEATURE ENHANCE] Support Early Media
5. [Bugfix] [SPR No: 060329502]
DUT will occur exception when DUT-A SIP1 call DUT-A SIP2 & converse

6. [Bugfix] [SPR No: 060329503]
"Call Service Mode" = USA Type (default) or Europe Type, when do 3-way Conference function, it will always 3-way Conference.

7. [Bugfix] [SPR No: 060329505]

Make full VoIP conversation (8 Calls) with G.711 codec, DUT will happen some problem

8. [Bugfix] [SPR No: 060329506]
When do second call test, sometimes can't hear any voice and caller side DUT's console will show "createLocalPeerMeetingRoom : NULL new dsp channel pointer destroyLocalPeerMeetingRoom : Can't find new dsp channel".

9. [Bugfix] [SPR No: 060329507]
Make full VoIP conversation (8 Calls), 4 call with G.729 codec and 4 call with G.711 codec, DUT will occur exception

10. [Bugfix] [SPR No: 060329509]
"Call Service Mode" = USA Type (default), when do second call test, sometimes will hear noise.

11. [Bugfix] [SPR No: 060329510]
When do 3-way Conferencesecond test, press flash key several times, DUT will occur exception.

12. [Bugfix] [SPR No: 060329511]
When press Phone's Key, console will show key's status.

13. [Bugfix] [SPR No: 060329520]
Change incoming PSTN call doesn't work on GUI unless reboot to DUT.
Setp1. Edit "VoIP -> Phone -> Analog Phone/ Incoming Call apply to" on DUT and disable Phone1 ~ Phone8.
Setp2. Click "APPLY" to save rom file.
Setp3. Make PSTN call.
Setp4. Edit "VoIP -> Phone -> Analog Phone/ Incoming Call apply to" on DUT and enable Phone1~ Phone8.
Setp5. Click "APPLY" to save rom file.
DUT can't receive PSTN call and alert Phone1 ~ Phone8 unless reboot to DUT..

14. [Bugfix] [SPR No: 060329522]
PSTN phone will not receive ringing.

15. [Bugfix] [SPR No: 060329526]
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.

16. [Bugfix] [SPR No: 060329527]
DUT will pick up PSTN incoming signal after DUT DAA relay on. Phone -> DUT -> PSTN emulator -> PSTN phone
Step1: Make Phone off-hook.
Step2: Calling from PSTN phone to DUT.

Step3: Phone dial "0000" to enable PSTN relay.
Step4: Phone and PSTN phone will be able to communicate.

17. [Bugfix] [SPR No: 060330614]
VPN log behavior not correct.

18. [Bugfix] [SPR No: 060330635]
GUI Restore configuration file cause device exception.

19. [Bugfix] [SPR No: 060330637]
The Administrator Inactivity Timer in GUI Maintenance > System > General page issue.

20. [Bugfix] [SPR No: 060330614]
VPN log behavior not correct.

21. [Bugfix] [SPR No: 060330640]
Static DHCP has problem.
Step1: Let two LAN PC connect to Device and get IP from DHCP server.
Step2: PC1 enter the GUI and check the client list page and see two clients.
Step3: Reserve and change another client's IP, system will not accetp.
Step4: PC2 type "ipconfig /release" to release IP.
Step5: PC1 click "Refresh", you will see there are new entey be created.

22. [Bugfix] [SPR No: 060330652]
When SIP Account InActive, the Phone LED is still bright.

23. [Bugfix] [SPR No: 060330653]
In CI command, to do "voice config common save 1", the saving time is too long (1 min), and while saving period, if off-hook phone, will hear noise.

24. [Bugfix] [SPR No: 060331700]
Configure the Wizard ENET mode DNS field cause device crash.

25. [Bugfix] [SPR No: 060331706]
Run BWM Wizard will only erase existed LAN speed but not erase WAN speed.

26. [Bugfix] [SPR No: 060331707]
After de-active MBM rule and active rule will change it's configuration.

27. [Bugfix] [SPR No: 060331710]
DUT crash easily, when VPN Agreesive + Tunnel + Phase2 AES.

28. [Bugfix] [SPR No: 060331714]
BM rule will mismatch after sending different kinds of traffic.

29. [Bugfix] [SPR No: 060331734]
    In Web, change "VoIP -> Phone -> Voice Volume Control/SpeakingVolume &
    Listening Volume" from -1 to 0 or 1, use "RED COM_Qpro" to test, the "Insertion
    Lose (dB)" always = 6~ 7.

30. [Bugfix] [SPR No: 060331735]
    [Procedure] 0)CID delivery:OFF , 1)make VoIP conversation, 2)make on-hook callee
    side, ==> caller will not hang up.

31. [Bugfix] [SPR No: 060401008]
    VAD Function can't work.

32. [Bugfix] [SPR No: 060401011]
    Change Incoming Call apply to SIP1~SIP8 will not work on GUI unless reboot to
    DUT.

33. [Bugfix] [SPR No: 060401013]
    Sometimes DUT can't receive CLID from PSTN CO simulator. (USE TLE).

34. [Bugfix] [SPR No: 060403051]
    Group Ring" have some problems.
    Step1: In Web, VoIP -> Phone Book -> Group Ring/Test the Ring : G can't to test.
    Step2: Can't distinguish the change of the tinkle of bells.
    Step3: When test the "Test the Ring", hope it can continue ring..

35. [Bugfix] [SPR No: 060404169]
    In GUI VOIP statistics page, it should show 8 SIP and 8 Phone in this page.

Modification in 3.40(ADT.0)b1 | 03/24/2006
1. [FEATURE ENHANCE] Support 8 FXS to PSTN
2. [FEATURE ENHANCE] Support Extension table
3. [FEATURE ENHANCE] Support Group Ring
4. [FEATURE ENHANCE] Support MAC spoofing
5. [FEATURE ENHANCE] Support PKI and HTTPS
6. [FEATURE ENHANCE] Support New GUI

Modification in 3.40(ADT.0)a1 | 1/27/2006
1. Create this project.

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

Command				Description
exit				exit smt menu

Ethernet Related Command

Command				Description
ether				
	config			display LAN configuration information
	driver			
		cnt		
			disp <name>	display ether driver counters
			clear <name>	clear ether driver counters
		iface	<ch_name> <num>	send driver iface
		ioctl	<ch_name>	Useless in this stage.
		mac	<ch_name> <mac_addr>	Set LAN Mac address
		reg	<ch_name>	display LAN hardware related registers
		rxmod	<ch_name> <mode>	set LAN receive mode. mode: 1: turn off receiving 2: receive only packets of this interface 3: mode 2+ broadcast 5: mode 2 + multicast 6: all packets
		status	<ch_name>	see LAN status
		init	<ch_name>	initialize LAN
	version			see ethernet device type
	pkttest			
		disp		
			packet <level>	set ether test packet display level
			event <ch> [on|off]	turn on/off ether test event display
		sap	[ch_name]	send sap packet
		arp	<ch_name> <ip-addr>	send arp packet to ip-addr
		mem	<addr> <data> [type]	write memory data in address
	test		<ch_id> <test_id> [arg3] [arg4]	do LAN test
	pncconfig		<ch_name>	do pnc config
	mac		<src_ch> <dest_ch> <ipaddr>	fake mac address

WAN Related Command

Command				Description
wan	adsl	bert		ADSL ber
		chandata		ADSL channel data, line rate
		close		Close ADSL line
		coding		ADSL standard current
		ctrleint		ADSL CTRLE response command
		defbitmap		ADSL defect bitmap status
		dyinggasp		Send ADSL dyinggasp
		fwav		Test the ADSL F/W available ping
		fwdl		Download modem code, but must reset first
		linedata		
			near	Show ADSL near end noise margin
			far	Show ADSL far end noise margin

		open		Open ADSL line
		opencmd		Open ADSL line with specific standard
		opmode		Show the operational mode
		perfdata		Show performance information,CRC,FEC, error seconds..
		rdata	[start] [length]	Read DSP CTRLE registers 512 bytes
		reset		Reset ADSL modem, and must reload the modem code again
		selftest		
			long	ADSL long loop test
			short	ADSL short loop test
		status		ADSL status (ex: up, down or wait for init)
		version		ADSL version information
		vendorid		ADSL vendor information
		utopia		Show ADSL utopia information
		cellcnt		Show ADSL cell counter
		display		
			shutdown	Show the counter of rate adaptive mechanism happening
			rateup	Show real status that rate adaptive mechanism happened
		rateadap	[on|off]	Turn on/off rate adaptive mechanism
		dumpcondition	[on|off]	Turn on/off online debug information of rate adaptive mechanism
		sampletime	[mins]	Tune the sample time of rate adaptive mechanism
		noisegt	[dB]	if noise margin is 3db greater than before, and rate is worse than before, then system will do "L1 shutdown RA3", default is 3db
		noisemargin	[dB]	if noise margin is greater than this value, and rate is worse than before, then system will do "L1 shutdown RA3", default is 8db
		persisttime	[time]	when the adaptive condition is matched system will continue to monitor the time period "persisttime" before doing "L1 shutdown RA3", default is 30 seconds
		timeinterval	[mins]	when "L1 shutdown RA3" is done twice, and still can't reach the max rate which system recorded, it will delay a time period that the period base time is"timeinterval" before starting again. The time-based default is 2 hrs
		defectcheck	[on|off]	Turn on/off detect table checking, default is on
		txgain	[value]	Set the CTRLE register (0xc3), the value is from 0xfa to 0x06
		targetnoise	[value]	Set the CTRLE register (0xc4), the value is from 0xfa to 0x06
		maxtonelimit	[value]	Set the CTRLE register (0xc5), the value is from 0xfa to 0x06
		rxgain	[value]	Set the CTRLE register (0xc6), the value is from 0xfa to 0x06
		txoutputpwr	[value]	Set the CTRLE register (0xc7), the value is from 0xfa to 0x06
		rxoutputpwr	[value]	Set the CTRLE register (0xc8), the value is from 0xfa to 0x06
		maxoutputpwr	[value]	Set the CTRLE register (0xc9), the value is from

				0xfa to 0x06
	errorsecond			
		sendes		Send current error second information immediately
	dygasprecover			
	dygasprecover	level [value]		By default is 100, after receiving 100 dying gasp system will reboot
	dygasprecover	active [on|off]		Turn on/off this mechanism
	rsploss	[1|0]		Turn on means to response signal loss of CTRLE immediately, default is off
atm	test	[fix|rand|period|oam|loopback]		Generate ATM traffic
hwsar	disp			Display hwsar packets incoming/outgoing information
	clear			Clear hwsar packets information

WLAN Related Command

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

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

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

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

Bridge Related Command

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

Radius Related Command

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

8021x Related Command

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

Configuration Related Command

Command					Description
config					The parameters of config are listed below.
edit	firewall	active			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

Command					Description
sys					
	firewall				
		acl			
			disp		Display specific ACL set # rule #, or all ACLs.
		active	<yes|no>		Active firewall or deactivate firewall
		cnt			
			disp		Display firewall log type and count.
			clear		Clear firewall log count.
		pktdump			Dump the 64 bytes of dropped packet by firewall
		update			Update firewall
		dynamicrule			
		tcprst			
			rst		Set TCP reset sending on/off.
			rst113		Set TCP reset sending for port 113 on/off.
			display		Display TCP reset sending setting.
		icmp			
		dos			
			smtp		Set SMTP DoS defender on/off
			display		Display SMTP DoS defender setting.
			ignore		Set if firewall ignore DoS in lan/wan/dmz/wlan
		ignore			
			triangle		Set if firewall ignore triangle route in lan/wan/dmz/wlan

SMT Related command

No	Command	Description	Comment
	sys 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

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			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 12,3 will be 38400,19200, 9600, 57600, 115200 bps [save immediately]	Menu 24.2.2 console speed
Wan adsl version	Display chipset vendor and modem code version	Menu 24.2.1
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