DYNAMIX IP Phone

User Manual

V.08

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Safety Instructions and Approval

Safety Instructions

- To assure the finest performance, please read this manual carefully before install or operating the unit. Keep it in a safe place for future reference.
- Only authorized and qualified personnel may install or repair this product. Do not try to open or repair the unit yourself.
- Install the unit in a well ventilated, cool, dry, clean place, away from windows, direct sunlight, heat sources, vibration, dust, moisture, or cold. Don't touch the antenna unnecessarily.
- To prevent fire or electrical shock, don’t expose to rain or water.
- Do not operate the unit upside-down. It may overheat possibly causing damage.
- Grounding or polarization – Precaution should be taken so that the grounding or polarization of the unit is not defeated.
- To prevent damage by lightning, disconnect the power cord from the wall outlet during an electrical storm.
- The voltage to be used must be the same as that specified on this unit. Using this unit with a higher voltage than that which is specified is dangerous and may result in a fire or other type of accident causing damage. Dynamix will not be held responsible for any damage resulting from use of this unit with a voltage other than that which is specified.
- Sudden temperature changes and storage or operation in an extremely humid environment may cause condensation inside the unit.
- When not planning to use this unit for long period of time (i.e., vacation, etc.), disconnect the AC power plug from the wall outlet.
- Keep the unit out of reach of children.
- When you want to dispose of the unit, please follow local regulations on conservation of the environment.

Warranty

We warrant to the original end user (purchaser) that the products shall be confirmed to the relevant specifications and shall be free from defects in workmanship and materials for a period of one (1) year from date of purchase from the dealer.

Please keep your purchase receipt as it serves as proof of date of purchase. During the warranty period, and upon proof of purchase, should the product have indications of failure due to faulty workmanship and/or materials, we will, at our discretion, repair or replace the defective products or components, without charge for either parts or labor, to whatever extent we deem necessary tore-store the product to proper operating condition. Any replacement will consist of a new or re-manufactured functionally equivalent product of equal value, and will be offered solely at our discretion. This warranty will not apply if the product is modified, misused, tampered with, damaged by an act of God, or subjected to abnormal working conditions. The warranty does not cover the bundled or licensed software of other vendors. Defects which do not significantly affect the usability of the product will not be covered by the warranty. We reserve the right to revise the manual and online documentation and to make changes from time to time in the contents hereof without obligation to notify any person of such revision or changes.

Firmware & Documents Updates

It's due to the continuous evolution of Dynamix Pro. Co., Ltd., this model will be regularly upgraded. Please consult the DYNAMIX web site for more information on latest firmware, tools and documents.
http://www.godynamix.com

1 Introduction

This user manual is tailored for the DW IP Phone, which will explain the keypad instructions, web configurations, and Telnet command line configurations. Before using the DW IP Phone, some setup processes are required to make the DW IP Phone work properly. Please refer to the Setup Menu for further information.

1.1 Hardware Overview

The DW IP Phone has the following interfaces for Networking, telephone interface, LED indication, and power connector.

1.1.1 Two RJ-45 Networking interface, these two interfaces support 10/100Mps Fast Ethernet. You can connect one RJ-45 Fast Ethernet port to the ADSL or Switch, and connect the other one to your computer.

1.1.2 LED Indication: There is one LED indicator in the DW IP Phone to show the function status, such as speaker phone, register, incoming call etc.

1.2 Software Overview

<table>
<tr><td>Network Protocol</td><td>Tone</td></tr>
<tr><td>• SIP v1 (RFC2543), v2(RFC3261)
• IP/TCP/UDP/RTP/RTCP
• IP/ICMP/ARP/RARP/SNTP
• TFTP Client/DHCP Client/ PPPoE Client
• Telnet/HTTP Server
• DNS Client</td><td>• Ring Tone
• Ring Back Tone
• Dial Tone
• Busy Tone
• User Programming Tone</td></tr>
<tr><td>Codec</td><td>Phone Function</td></tr>
<tr><td>• G.711: 64k bit/s (PCM)
• G.723.1: 6.3k / 5.3k bit/s
• G.726: 16k / 24k / 32k / 40k bit/s (ADPCM)
• G.729A: 8k bit/s (CS-ACELP)
• G.729B: adds VAD & CNG to G.729</td><td>• Volume Adjustment
• Speed dial, Phone book
• Flash
• Speaker Phone</td></tr>
<tr><td>Voice Quality</td><td>IP Assignment</td></tr>
<tr><td>• VAD: Voice activity detection
• CNG: Comfortable noise generator
• LEC: Line echo canceller
• Packet Loss Compensation
• Adaptive Jitter Buffer</td><td>• Static IP
• DHCP
• PPPoE</td></tr>
<tr><td>Call Function</td><td>Security</td></tr>
<tr><td>• Call Hold
• Call Waiting
• Call Forward
• Caller ID
• 3-way conference</td><td>• HTTP 1.1 basic/digest authentication for Web setup
• MD5 for SIP authentication (RFC2069/ RFC 2617)</td></tr>
<tr><td>DTMF Function</td><td>QoS</td></tr>
<tr><td>• In-Band DTMF
• Out-of Band DTMF
• SIP Info</td><td>• ToS field</td></tr>
<tr><td>SIP Server</td><td>NAT Traversal</td></tr>
<tr><td></td><td>• STUN</td></tr>
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• Telnet
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<tr><td></td><td>Firmware Upgrade</td></tr>
</table>

• Registrar Server (three SIP account) • Outbound Proxy	• TFTP • HTTP • FTP

2 Keypad interface for IP Phone demo system

2.1 Keypad description

Key Name	Description	Note
1	“1”, “-“, “ ,”, “!”, “?”	
2	“2”, “a”, “b”, “c”, “A”, “B”, “C”	
3	“3”, “d”, “e”, ”f”, “D”, “E”, “F”	
4	“4”, “g”, “h”, “I”, “G”, “H”, “I”	
5	“5”, “j”, “k”, “l”, “J”, “K”, “L”	
6	“6”, “m”, “n”, “o”, “M”, “N”, “O”	
7	“7”, “p”, “q”, “r”, “s”, “P”, “Q”, “R”, ‘S”	
8	“8”, “t”, “u”, “v”, “T”, “U”, “V”	
9	“9”, “w”, “x”, “y”, “z”, “W”, “X”, “Y”, “Z”	
0	“0”, “space”	
*	“*”, “•”, “:”, “@”	
#	Start the dialing process.	
Conf	This is the three way conference function.	
Trans	Transfer calls to other phone numbers.	
Redial	Redial the previous number that was keyed in.	
Hold	This is the “HOLD” function that holds the conversation channel.	
Line1~Line3	The 3 separate lines that the phone can accommodate.	
MENU	Enters the Menu screen, IP Phone configuration options are listed here.	
VMS	This is the “Voice Mail” function.	
CALL IN	Displays the incoming call list.	
CALL OUT	Displays the outgoing call list.	
DND	This is the “Reject” function used to block all incoming calls.	
FORWARD	This is the “Forward” function; forwarding options can be configured here.	
SPEED	This is the “Speed Dial” function.	
PHONEBOOK	This is the “Phone Book” function.	
Mute	This is the “Mute” function.	
C	This is the “Delete” button, used to delete the number dialed or alphabets keyed.	
OK	This is the “OK” button, used as an enter button to accept settings in the LED user interface.	
UP/DOWN	Up↑ and Down↓ keys used to navigate the user interface.	
LEFT/RIGHT	Left← and Right→ keys used to navigate the user interface.	
SPK	This is the Speaker Phone.	

Volume -/+	Volume buttons used to increase/decrease the volume that is heard from the phone and speaker phone.	

2.2 Keypad Function and Setting List

Press **MENU** to access it and view the list from the LCD panel.

2.2.1 Phone Book

2.2.1.1 Search: Search entries in the phone book.

2.2.1.2 Add entry: Add a new phone number to the phone book. Speed dial: Add a speed dial phone number to the speed dial list. Erase all: Erase all the phone numbers in the Phone Book.

2.2.2 Call history

2.2.2.1 Incoming calls: Show all incoming calls.

2.2.2.2 Dialed numbers: Show all dialed calls. Erase record: Delete call history.

1. All: Delete all call histories.
2. Incoming: Delete all incoming calls. 3. Dialed: Delete all dialed out calls.

2.2.3 Phone setting

2.2.3.1 Call forward

2.2.3.1.1 All Forward.

1. Activation: To Enabled/Disabled this function.
2. Number: The speed dial number that the call will be forward to.

2.2.3.1.2 Busy Forward.

1. Activation: To Enabled/Disabled this function.
2. Number: The speed dial number that the call will be forward to.

2.2.3.1.3 No Answer Forward. Activation: To Enabled/Disabled this function.

2. Number: The speed dial number that the call will be forward to.

2.2.3.1.4 Ring Timeout: Set the number of ring back tones that will be heard before the no answer forward function will take place, e.g. if this option is set at 2, the phone will ring twice, if no one answers the phone by that period, the no answer forward function will forward the phone call to the number specified by the user.

2.2.3.2 Do Not Disturb

1. Always: Block all incoming calls
2. By Period: Block all incoming calls during a certain period
3. Period Time: Set the start time and end time when incoming calls will be blocked

2.2.3.3 Alarm setting

1. Activation: Enable/Disable the alarm clock
2. Alarm time: Specify the alarm time.

2.2.3.4 Date/Time setting: Date and Time Setting.

2.2.3.4.1 Date & Time: Set the IP Phone Date and Time.

2.2.3.4.2 SNTP setting

2.2.3.4.2.1 SNTP : Enabled / Disable SNTP. Primary SNTP: Set Primary SNTP server IP address. Secondary SNTP: Set Secondary SNTP server IP address.

2.2.3.4.2.2 Time zone: Set Time zone.

2.2.3.4.2.3 Adjustment Time: Set adjustment time period.

2.2.3.5 Volume and Gain

2.2.3.5.1 Handset volume: Set Handset volume from 0~15 (max.) for you to hear. Speaker volume: Set Spearer phone volume from 0~15 (max.) for you to hear. Handset Gain: Set Handset Gain from 0~15 (max.) for the other site to haer.

2.2.3.5.2 Speaker Gain: Set Spearer phone Gain from 0~15 (max.) for the other site to haer.

2.2.3.6 Ringer
2.2.3.6.1 Ringer volume: Ringer volume setting from 0~15 (max.).
2.2.3.6.2 Ringer type: Ringer tone selection from 1~4.

2.2.3.7 Auto Dial: Set Auto Dial time from 3~9 seconds.

2.2.4 Network
2.2.4.1 WAN Setup
2.2.4.1.1 IP Type
1. Fixed IP client:
2. DHCP client: DHCP
3. PPPoE client: PPPoE
2.2.4.1.2 Fixed IP setting
2.2.4.1.2.1 Host IP:
2.2.4.1.2.2 Network mask:
2.2.4.1.2.3 Gateway IP:
2.2.4.1.3 PPPoE setting
2.2.4.1.3.1 User name: PPPoE
2.2.4.1.3.2 Password: PPPoE

2.2.4.2 LAN Setup
1. Bridge: LAN.
2. NAT:

2.2.4.3 DNS
2.2.4.3.1 Primary DNS:
2.2.4.3.2 Secondary DNS:

2.2.4.4 VLAN
2.2.4.4.1 Activation
2.2.4.4.2 VID
2.2.4.4.3 Priority
2.2.4.4.4 CFI

2.2.4.5 Status: Show IP address and MAC address,

2.2.5 SIP Settings

If you want to use keypad to set the SIP setting, you have to go to item 7 *(Administrator)* System Authentication to input the password, or you can not change the SIP setting.

2.2.5.1 Service domain
2.2.5.1.1 First realm
2.2.5.1.1.1 Activation: SIP
2.2.5.1.1.2 User name: SIP
2.2.5.1.1.3 Display name: SIP Register name: SIP Register password: SIP Proxy server: SIP Proxy Domain server: Domain Outbound proxy: Outbound Proxy

2.2.5.1.2 Second realm
2.2.5.1.2.1 Activation: SIP
2.2.5.1.2.2 User name: SIP
2.2.5.1.2.3 Display name: SIP
2.2.5.1.2.4 Register name: SIP
2.2.5.1.2.5 Register password: SIP
2.2.5.1.2.6 Proxy server Proxy:
2.2.5.1.2.7 Domain server: Domain Outbound proxy: Outbound Proxy
2.2.5.1.3 Third realm
2.2.5.1.3.1 Activation: SIP User name: SIP
2.2.5.1.3.2 Display name SIP:
2.2.5.1.3.3 Register name: SIP Register password: SIP
2.2.5.1.3.4 Proxy server Proxy: Domain server: Domain
2.2.5.1.3.5 Outbound proxy: Outbound Proxy

2.2.5.2 Codec
2.2.5.2.1 Codec type

1. G.711 uLaw: G.711 uLaw
2. G.711 aLaw: G.711 aLaw
3. G.723: G.723.1
4. G.729: G.729A
5. G.726-16: G.726 16Kbps G.726-24: G.726 24KbpG.726-32: G.726 32Kbps
6. G.726-40: G.726 40Kbps

2.2.5.2.2 VAD: Voice Active Detection Enable/Disable.

2.2.5.3 RTP setting
2.2.5.3.1 Outband DTMF: Outband DTMF

2.2.5.3.2 Duplicate RTP

1. No duplicate: 0
2. One duplicate: 1
3. Two duplicate: 2

2.2.5.4 RPort Setting: RPort Enabled/Disabled RPORT

2.2.5.5 Hold by RFC: (RFC3261)

2.2.5.6 Status: Show the SIP Proxy register status. You can use UP/Down key to check each Realm's status. SIP Proxy

1. First Realm: SIP
2. Second Realm: SIP
3. Third Realm: SIP

2.2.6 NAT Transversal
2.2.6.1 STUN setting
2.2.6.1.1 STUN: STUN
2.2.6.1.2 STUN server: STUN

2.2.7 Administrator

2.2.7.1 Auto Config

2.2.7.1.1 Config Mode: You can select Disable/TFTP/FTP to do the auto config function. This function must work with the Auto Config Server.

2.2.7.1.2 TFTP server: Setting the TFTP server IP address.

2.2.7.1.3 FTP server: Setting the FTP server IP address.

2.2.7.1.4 FTP Login Name: Setting the login name to the FTP server.

2.2.7.1.5 FTP Password: Setting the Password to the FTP server.

2.2.7.2 Upgrade system

2.2.7.2.1 Upgrade Now.

2.2.7.2.2 Status.

2.2.7.3 Default setting: You can restore to the default setting.

2.2.7.4 System Authentication: To do the SIP setting from Keypad, need to input the password first. Default is blank "".

2.2.7.5 Version: This will show the system's firmware version.

2.2.7.6 Watch Dog: You can use this to enable Watch Dog function to do the debugging.

2.2.7.7 Restart: You can use this function to restart your IP Phone.

3 Setup the DW IP Phone by Web Browser

The DW IP Phone provides a built-in web server. You can use Web browser to configure the DW IP Phone. First please input the IP address in the Web page. In the end of IP address, please add the port number ":9999". Ex: **http://192.168.123.1:9999**

3.1 Login.

3.1.1 Please input the username and password into the blank field. The default setting is:

1. For Administrator, the username is: **root**; and the password is: **test**. If you use the account login, you can configure all the setting.
2. For normal user, the username is: system or user; and the password is: null. If you use the account login, but you can not configure the SIP setting.

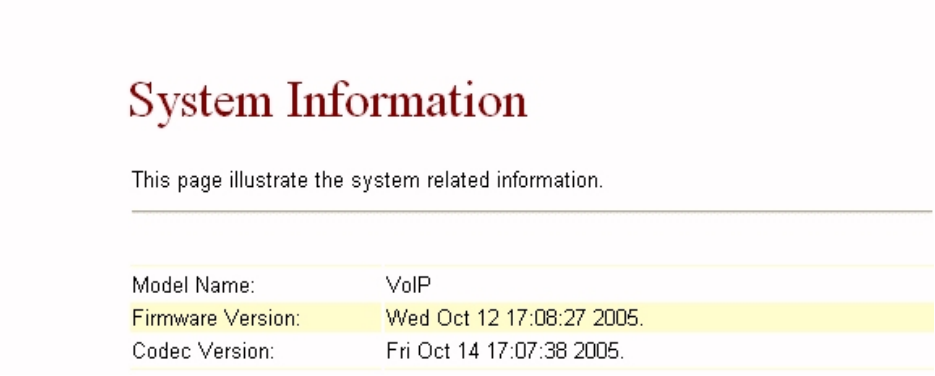
3.1.2 Click the "Login" button will move into the DW IP Phone web based management information page.

3.1.3 If you change the setting in the Web Management interface, please do remember to click the "Submit" button in that page. After you finished the change of the setting, click the "Save" function in the left side, and click the Save Button. When you finished the setting, please click the Reboot function in the left side, and click the Reboot button in that page. After the system restart, all the setting can work properly.

3.2 System Information for the DW IP Phone.

3.2.1 When you login the web page, you can see the DW IP Phone current system information like firmware version, company… etc in this page.

3.2.2 Also you can see the function lists in the left side. You can use mouse to click the function you want to set up.



3.3 Phone Book

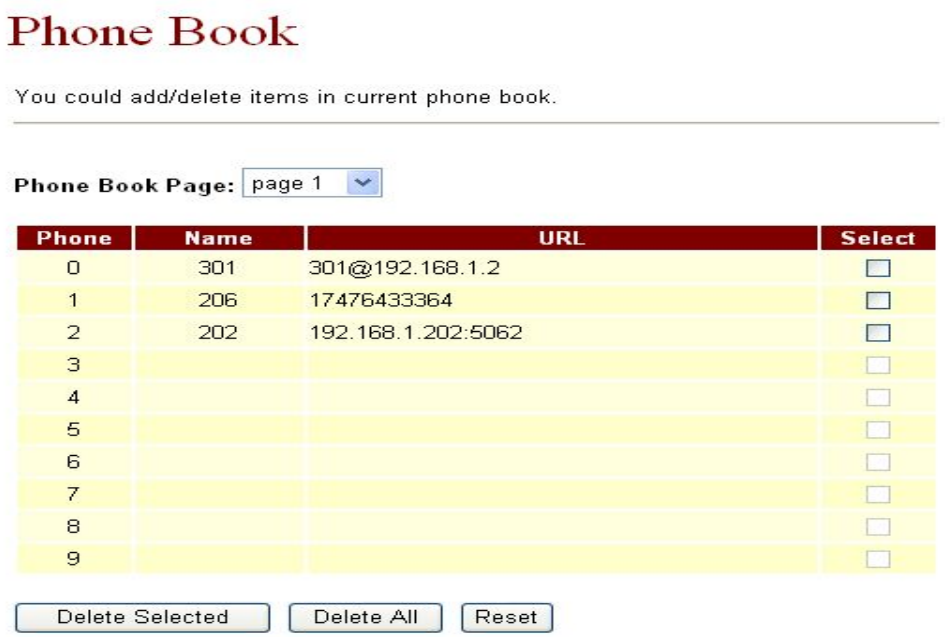
3.3.1 In Phone Book contains Phone Book and Speed Dial Settings. You can setup the Phone Book and Speed Dial number. The Phone Book can store 140 phone numbers and the Speed Dial can store 10 phone numbers. If you want to use Speed Dial you just dial the speed dial number (from 0~9) then press "#".

3.3.2 In the Phone Book function you can add/delete the phone number in the phone book list. You can input maximum 100 entries phone book list.

3.3.2.1 If you need to add a phone number into the phone book, you need to input the position, the name, and the phone number (by URL type). When you finished a new phone list, just click the "Add Phone" button.

3.3.2.2 If you want to delete a phone number, you can select the phone number you want to delete then click "Delete Selected" button.

3.3.2.3 If you want to delete all phone numbers, you can click "Delete All" button.



3.3.3 In Speed Dial setting function you can add/delete Speed Dial number. You can input maximum 10 entries speed dial list.

3.3.3.1 If you need to add a phone number into the Speed Dial list, you need to input the position, the name, and the phone number (by URL type). When you finished a new phone list, just click the "Add Phone" button.

3.3.3.2 If you want to delete a phone number, you can select the phone number you want to delete then click "Delete Selected" button.

3.3.3.3 If you want to delete all phone numbers, you can click "Delete All" button.

Speed Dial Phone List

You could set the speed dial phones in this page.

Phone	Name	URL	Select
0	0	192.168.96.153	☐
1	060005001	060005001@192.168.32.201	☐
2	2	192.168.96.151:5060	☐
3			☐
4			☐
5			☐
6			☐
7			☐
8			☐
9			☐

Delete Selected | Delete All | Reset

Add New Phone

Position: (0~9)

Name:

URL:

Add Phone | Reset

3.4 Phone Setting

3.4.1 In Phone Setting contains Call Forward, SNTP Settings, Volume Settings, Melody Settings, DND Settings, Dial Plan Settings, Call waiting Settings, Soft-key Setting, Hot line Settings, Alarm Settings.

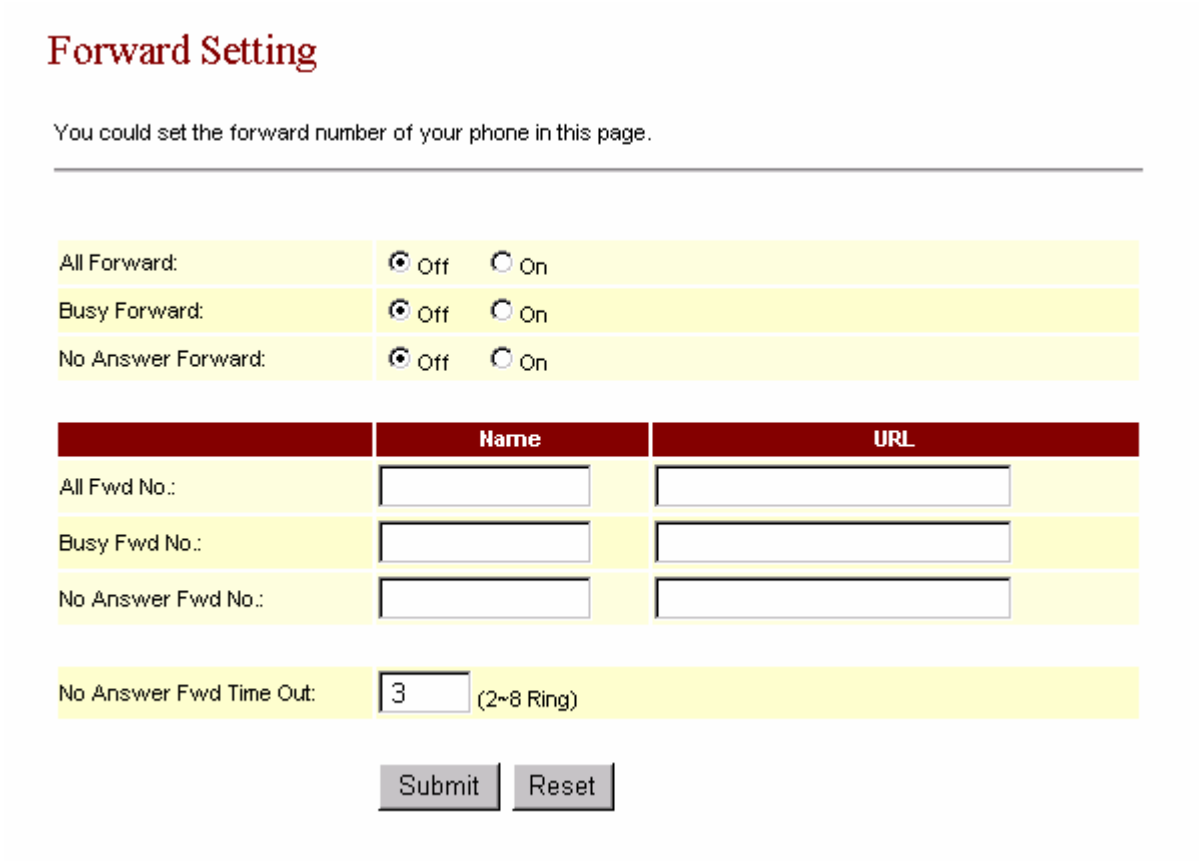
3.4.2 Call Forward function: you can setup the phone number you want to forward in this page. There are three type of Forward mode. You can choose All Forward, Busy Forward, and No Answer Forward by click the icon.

3.4.2.1 All Forward: All incoming call will forward to the number you choosed. You can input the name and the phone number in URL field. If you select this function, then all the incoming call will direct forward to the speed dial number you choose.

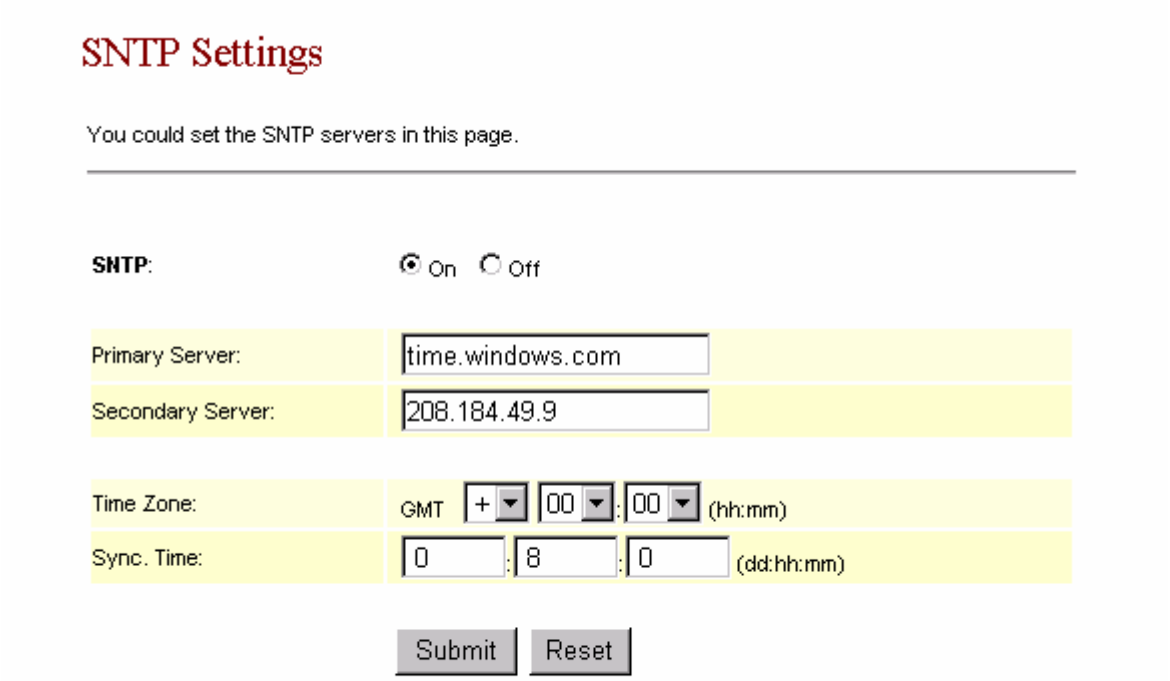
3.4.2.2 Busy Forward: If you are on the phone, the new incoming call will forward to the number you choosed. You can input the name and the phone number in URL field.

3.4.2.3 No Answer Forward: : If you can not answer the phone, the incoming call will forward to the number you choosed. You can input the name and the phone number in URL field. Also you have to set the Time Out time for system to start to forward the call to the number you choosed.

3.4.2.4 When you finished the setting, please click the Submit button.

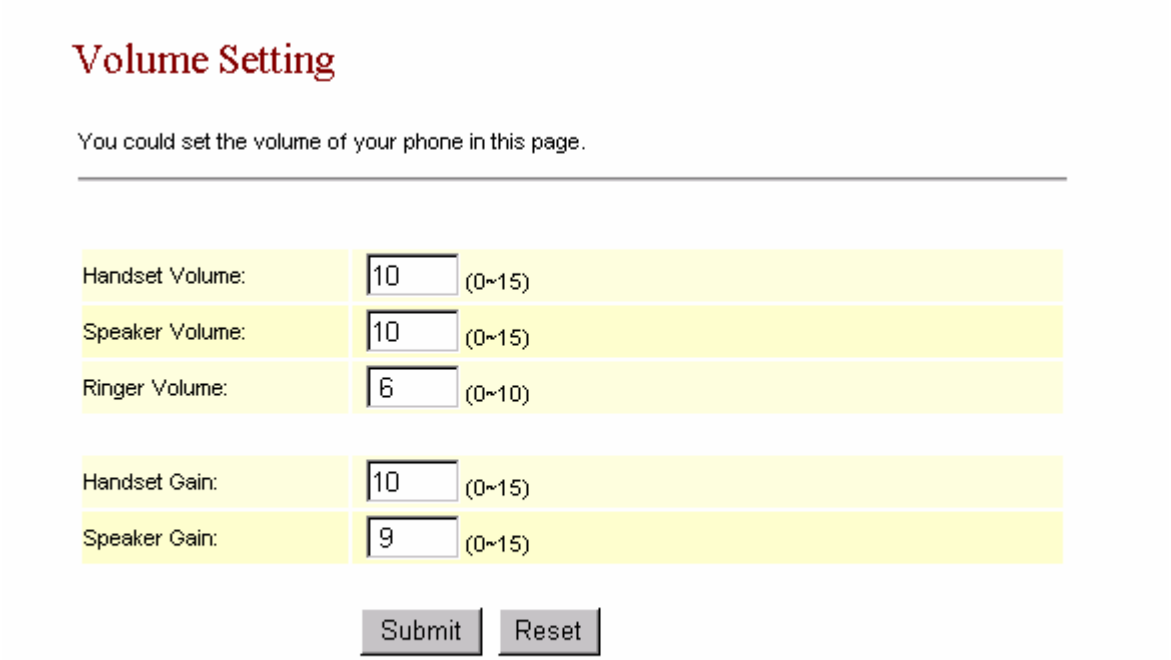


3.4.3 SNTP Setting function: you can setup the primary and second SNTP Server IP Address, to get the date/time information. Also you can base on your location to set the Time Zone, and how long need to synchronize again. When you finished the setting, please click the Submit button.

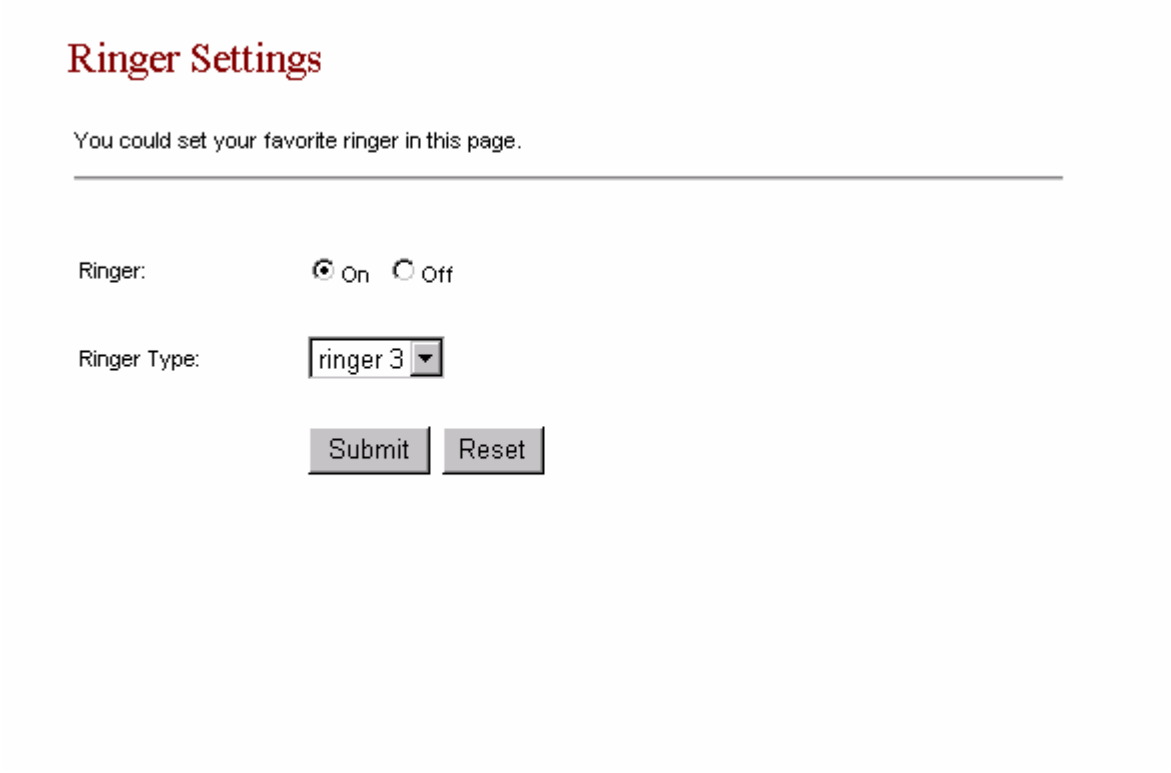


3.4.4 Volume Setting function: you can setup the Handset Volume, Ringer Volume, and the Handset Gain. When you finished the setting, please click the Submit button.

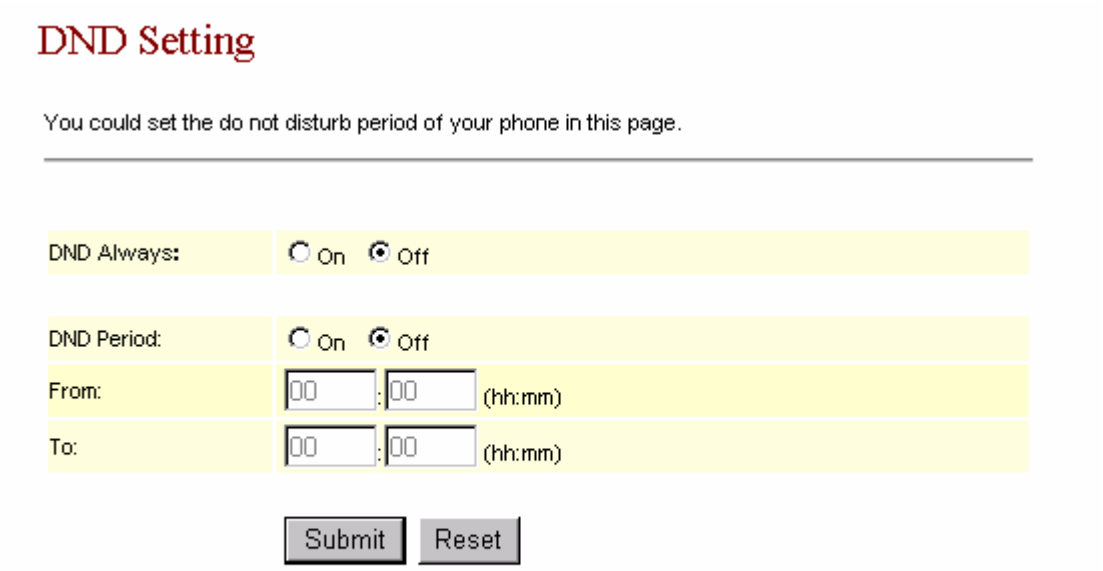
3.4.4.1 Handset Volume is to set the volume you hear from the handset.
3.4.4.2 Speaker Volume is to set the volume you hear from the speaker phone.
3.4.4.3 Ringer Volume is to set the ringer volume.
3.4.4.4 Handset Gain is to set the volume send out from from the handset.
3.4.4.5 Speaker Gain is to set the volume send out from from the micro phone.



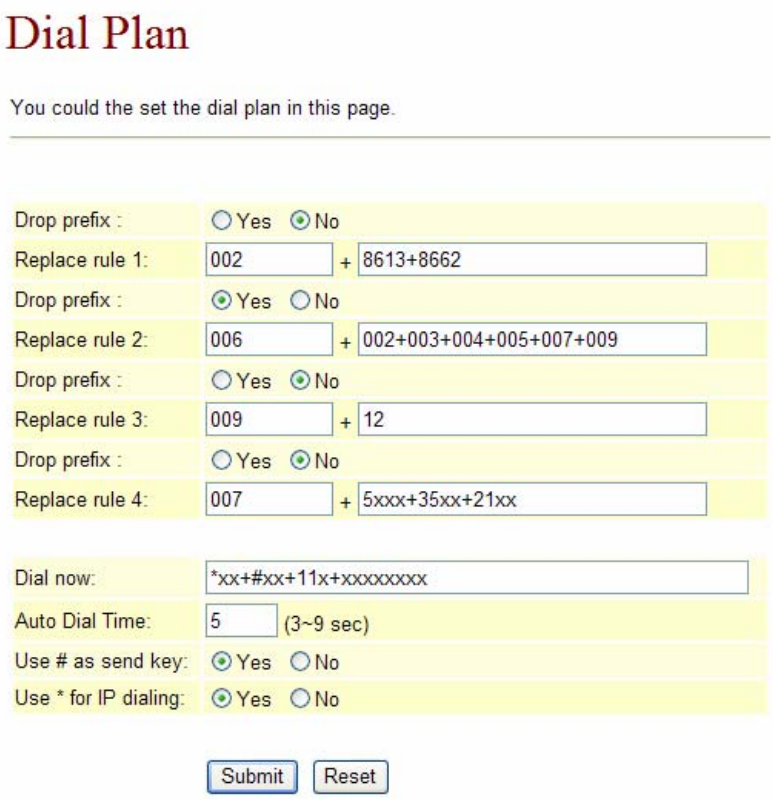
3.4.5 Melody Setting function: you can select the melody for the incoming call. When you finished with the setting, please click the Submit button.



3.4.6 DND function: In this section, you can choose two types of options for DND, these are DND Always and DND Period. DND Always will block all incoming calls, while DND Period allows users to specify the period of time when incoming calls should be blocked.



3.4.7 Dial Plan Setting: Allows users to set prefixes that can be applied to dialed numbers.



For example:

1: Drop prefix: No, Replace rule 1: 002, 8613+8662

Explanation ： If you dial a number that has a prefix matching 8613 or 8662, the device will automatically append the number 002 in front of the dialed number, therefore the number that will be dialed out is [002+8613+xxx] or [002+8662+xxx] depending on which of the two numbers were dialed.

2：Drop prefix: Yes, Replace rule 2: 006, 002+003+004+005+007+009；

Explanation ： If you dial a number that has a prefix matching 002, 003, 004, 005, 007 or 009, the device will drop all these numbers and replace it with 006, therefore the number that will be dialed out is [006+xxx].

3:Drop prefix: No, Replace rule 3: 009, 12

Explanation： If you dial a number that has a prefix matching 12, the device will automatically append the number 009 in front of the dialed number, therefore the number that will be dialed out is [009+12+xxx].

4:Drop prefix: No, Replace rule 4: 007, 5xxx+35xx+21xx

Explanation： This replacement rule will check if the first digit of the number is 5 followed by any three digits, if it is, the device will automatically append 007 to the dialed number. Therefore the number that will be dialed out is [007+5xxx]. This rule will also check whether the first two digits of the number dialed by the user is 35 or 21 followed by any two digits, if it matches, the device will automatically append 007 to the dialed number. Therefore the number that will be dialed out is [007+35xx] or [007+21xx] correspondingly. However, if the user dials a number that does not match the rule, for instance 534, the device will detect that only 2 digits were inputted to the end of the digit 5, not three, as a result the device will only dial the number 534 without appending 007. Likewise, if the number dialed does not match any of the prefix rules, only the original number will be dialed.

5:Auto Dial Time: 5

Explanation: While dialing a number, once the user stops pressing the keypad for 5 seconds, the device will commence the dialing process. For example, if the user dials 58946869 and stops dialing for 5 seconds, this number will be dialed. You can set this option within the range of 3 – 9 seconds.

6:Dial now: *xx+#xx+11x+xxxxxxxx

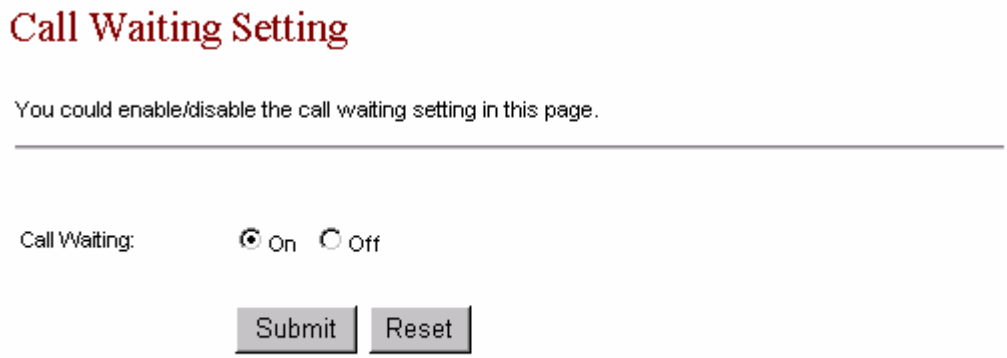
Explanation 1: If the number dialed matches the rule “*xx”, it will automatically dial the dialed number, e.g. *00, *01, *02… *99. If the user happens to dial more digits in the end such as *001111, the system will detect that the first two matches the rule, and send out the number *00 regardless of the remaining digits. Hence the name Dial Now.

Explanation 2: If the number dialed matches the rule”#xx”, it will automatically dial the dialed number, e.g. #00, #01, #02… #99. If the user happens to dial more digits in the end such as #001111, the system will detect that the first two matches the rule, and send out the number #00 regardless of the remaining digits. Hence the name Dial Now.

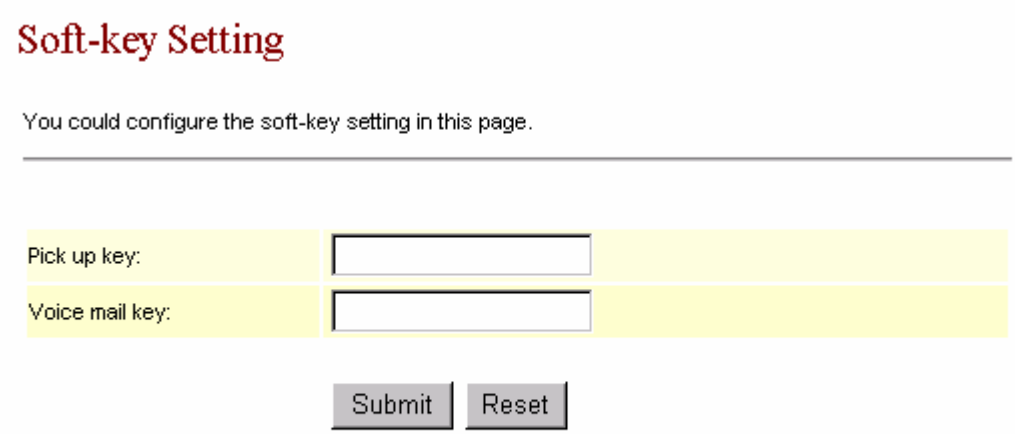
Explanation 3: If the number dialed matches the rule “11x”, then it will automatically dial the dialed number, e.g. 110, 111, 112…119. If the user happens to dial more digits in the end such as 1101234 the system will detect that the first three matches the rule, and send out the number 110 regardless of the remaining digits. Hence the name Dial Now.

Explanation 4: If it detects the number dialed is 8 digits, then it will automatically send out the number dialed, e.g. 12345678.

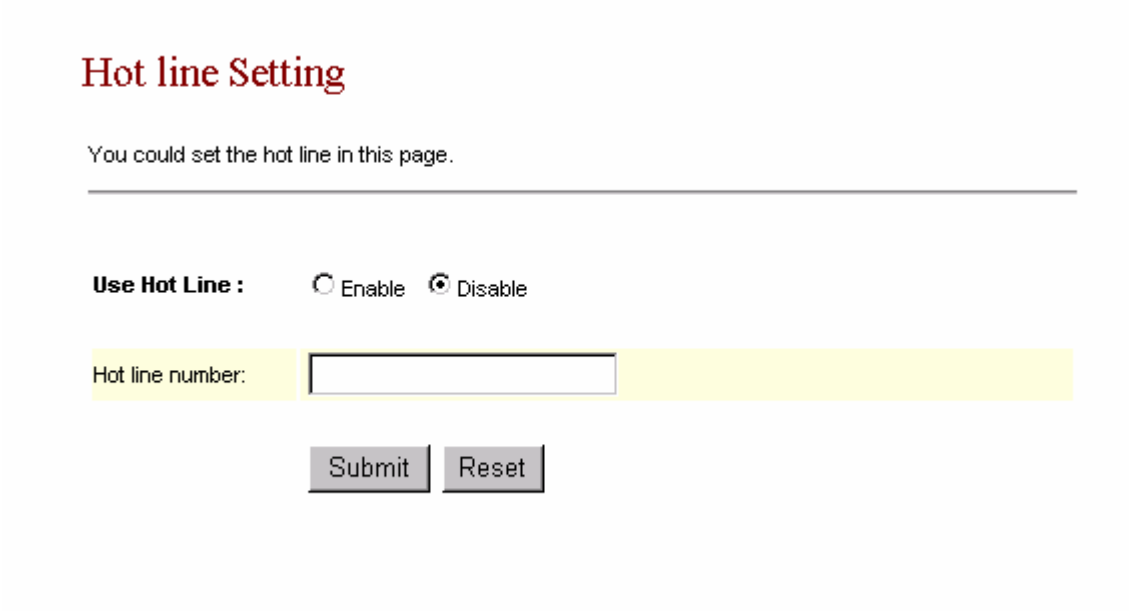
3.4.8 Call Waiting Setting: You can Enable/Disable the Call Waiting function, When you are talking with someone, there is a new incoming call, you will hear the call waiting tone. When you finished the setting, please click the Submit button. If there is nothing need to change, please click the Save Change Item in the left side, then click the Save button. The change you made will save into the system and the system will Reboot automatically.



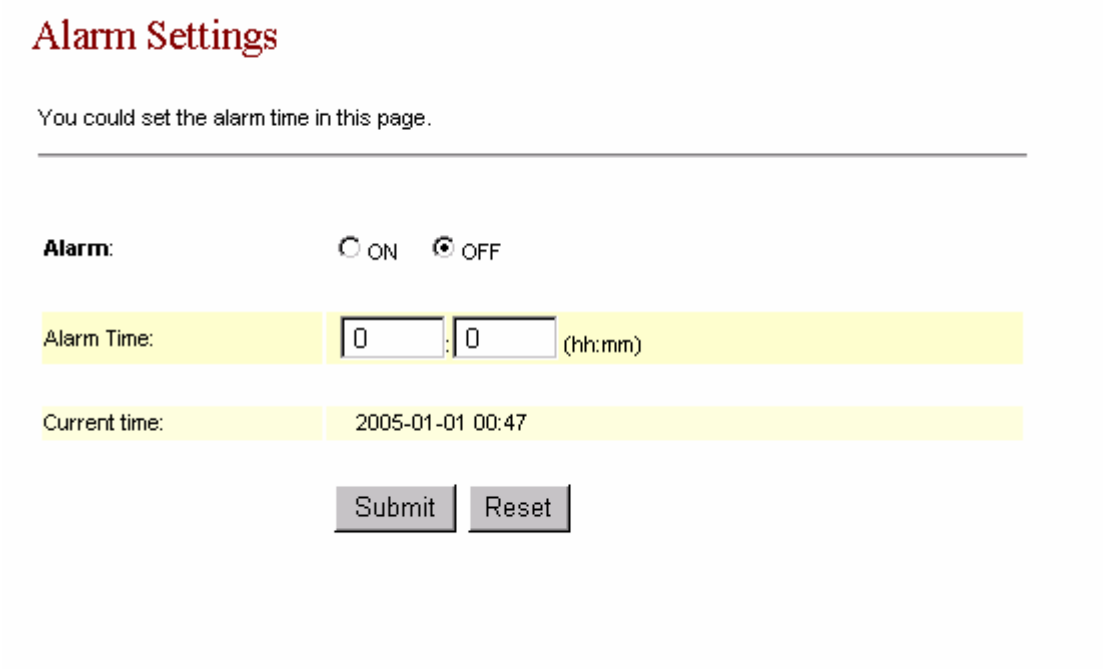
3.4.9 Soft-key Setting: Special function code for Pick up and Voice Mail function.



3.4.10 Hot line Setting: This function is support auto dial to you setting hot line number, when you setting this function device should can not dial any number.



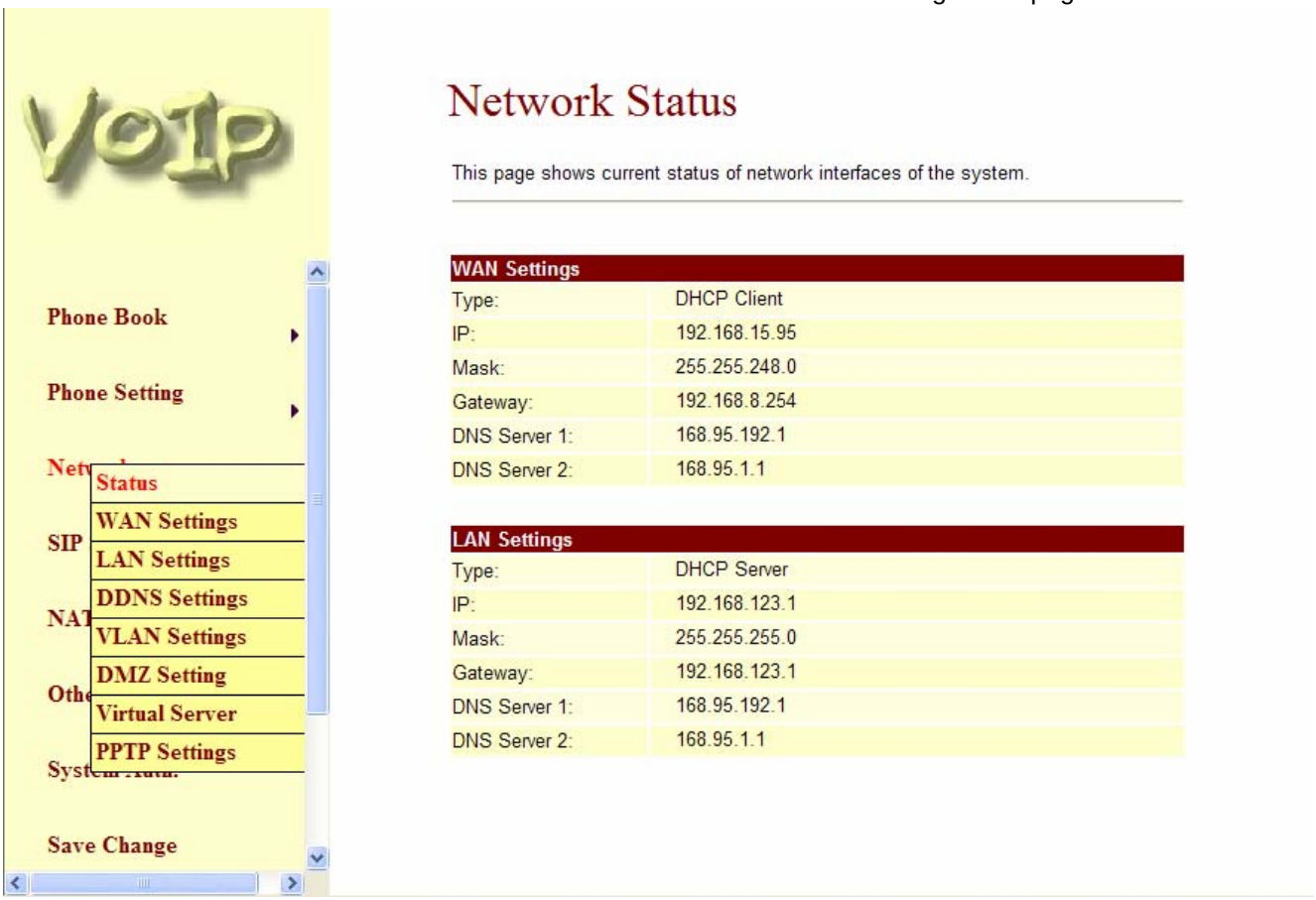
3.4.11 Alarm Setting: Setting telephone ring time, When you setting time with current time are match device should produce a ring ,this time format is 24 hours.



3.5 Network

3.5.1 In Network you can check the Network status, configure the WAN Settings, LAN Settings, DDNS settings, VLAN Settings, DMZ Setting, Virtual Server and PPTP Settings.

3.5.2 Network Status: You can check the current Network setting in this page.



3.5.3 WAN Settings: You can configure the DW IP Phone Network setting in this page.

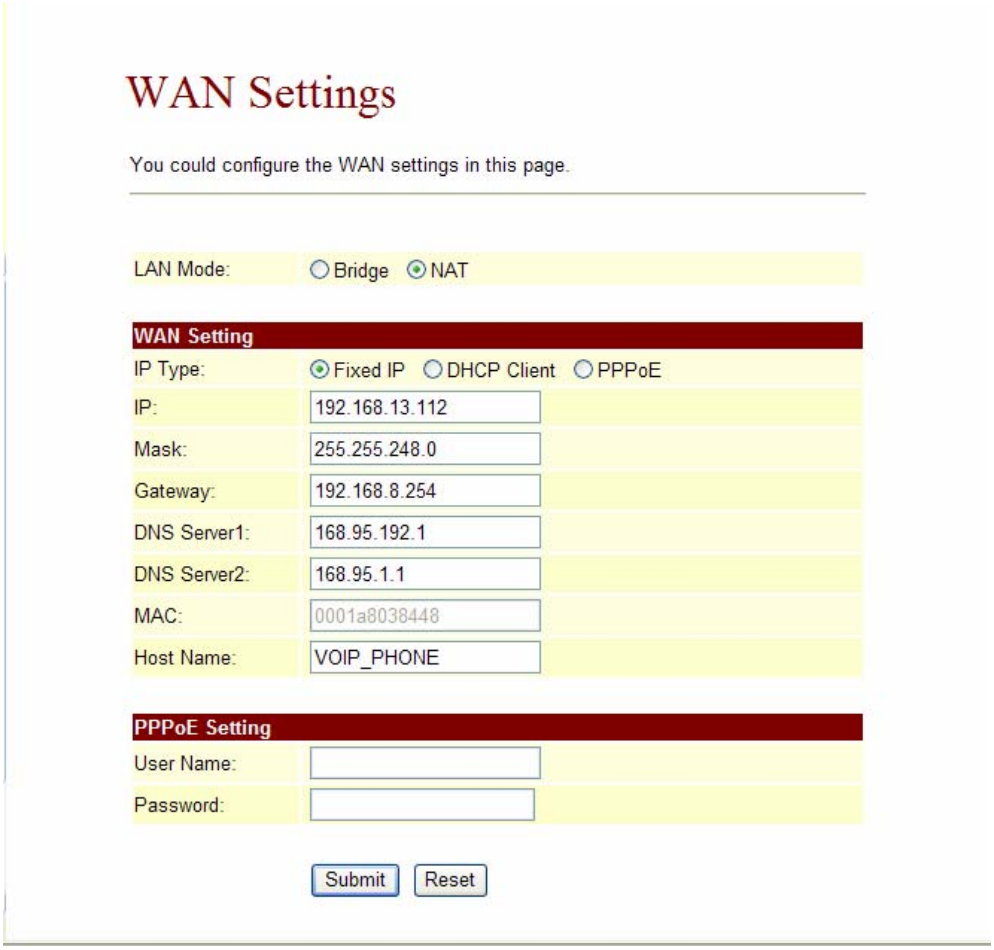
3.5.3.1 The Bridge Item is to setup the DW IP Phone Bridge mode Enable/Disable. If you set the Bridge On, then the two Fast Ethernet ports will be transparent.

3.5.3.2 LAN Mode: Set NAT mode, the port of LAN will support to assgin Private IP to other device which insert to LAN port.

3.5.3.3 The TCP/IP Configuration item is to setup the LAN port's network environment. You may refer to your current network environment to configure the DW IP Phone properly.

3.5.3.4 The PPPoE Configuration item is to setup the PPPoE Username and Password. If you have the PPPoE account from your Service Provider, please input the Username and the Password correctly.

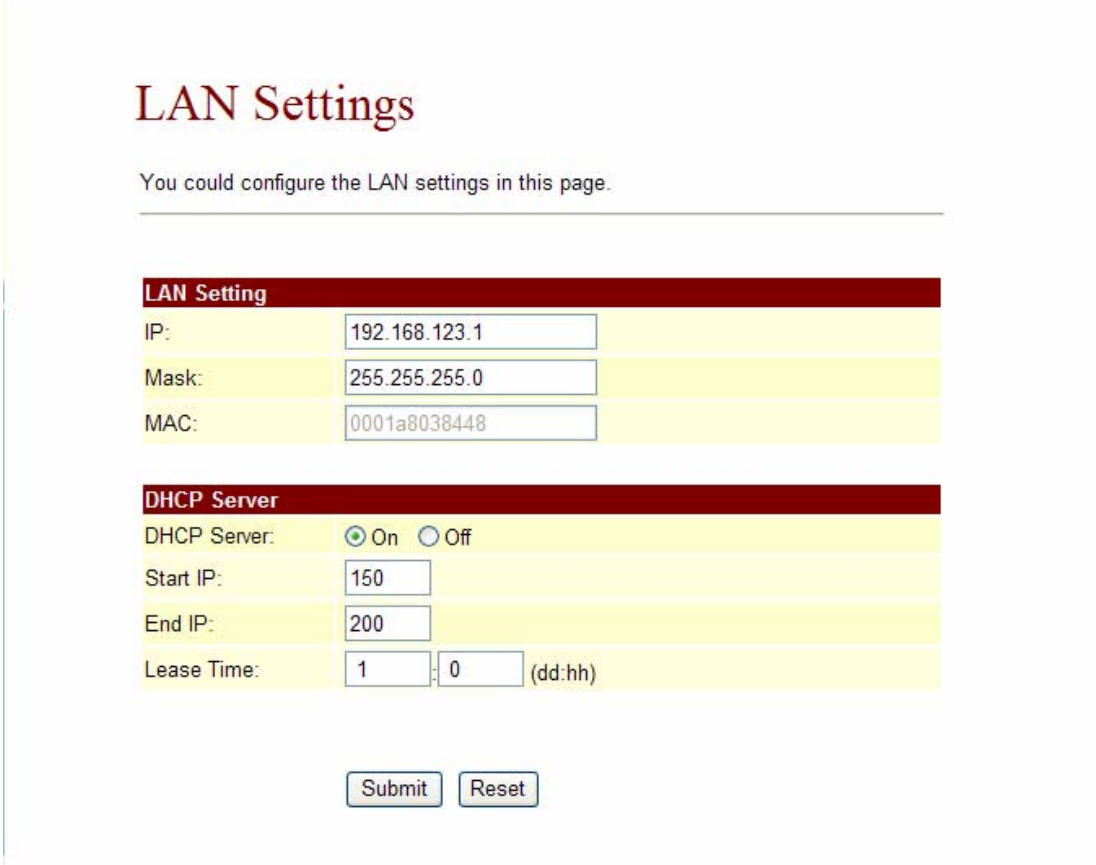
3.5.3.5 When you finished the setting, please click the Submit button.



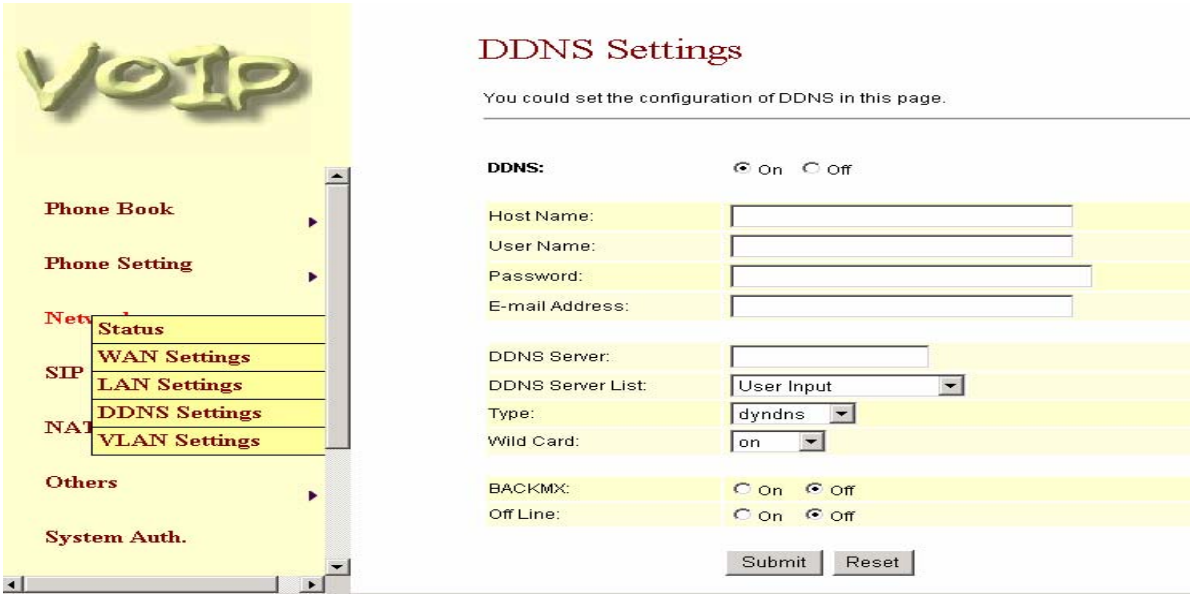
3.5.4 LAN Setting: If you choose NAT option in LAN mode, the port of LAN can support to assign Private IP to other device which insert to LAN port. You can also configure Private IP type on this page.

3.5.4.1 LAN Setting: The LAN port of lp-399 has the ability to act as a DHCP server. Therefore this setting menu allows users to specify an IP address and subnet mask for the virtual DHCP server which will be assigned to the LAN port of the phone.

3.5.4.2 DHCP Server: Allows you to Enable/Disable the virtual DHCP server function. The Start IP and End IP fields provides users the option to specify the range of IP addresses that the hosts will be assigned to. While the Lease Time field specifies how long the IP addresses assigned by the virtual DHCP is valid for. The format is dd:hh (days/hours).



3.5.5 DDNS Setting: You can configure the DDNS setting in this page. You need to have the DDNS account and input the informations properly. You can have a DDNS account with a public IP address then others can call you via the DDNS account. But now most of the VoIP applications are work with a SIP Proxy Server. When you finished the setting, please click the Submit button.



3.5.6 VLAN: You can set the VLAN setting in this page. Set the packets related to the LP399,

3.5.6.1 There are two kind of destination packets will come from the LP399's WAN port, one kind of packets will go to the LP399, the other will go through the LAN port to the PC.

3.5.6.2 VLAN Packets: if you enable the first VLAN Packets and set the VID, User Priority, and CFI, then all the incoming packets will be check with the IP Address and the VID.

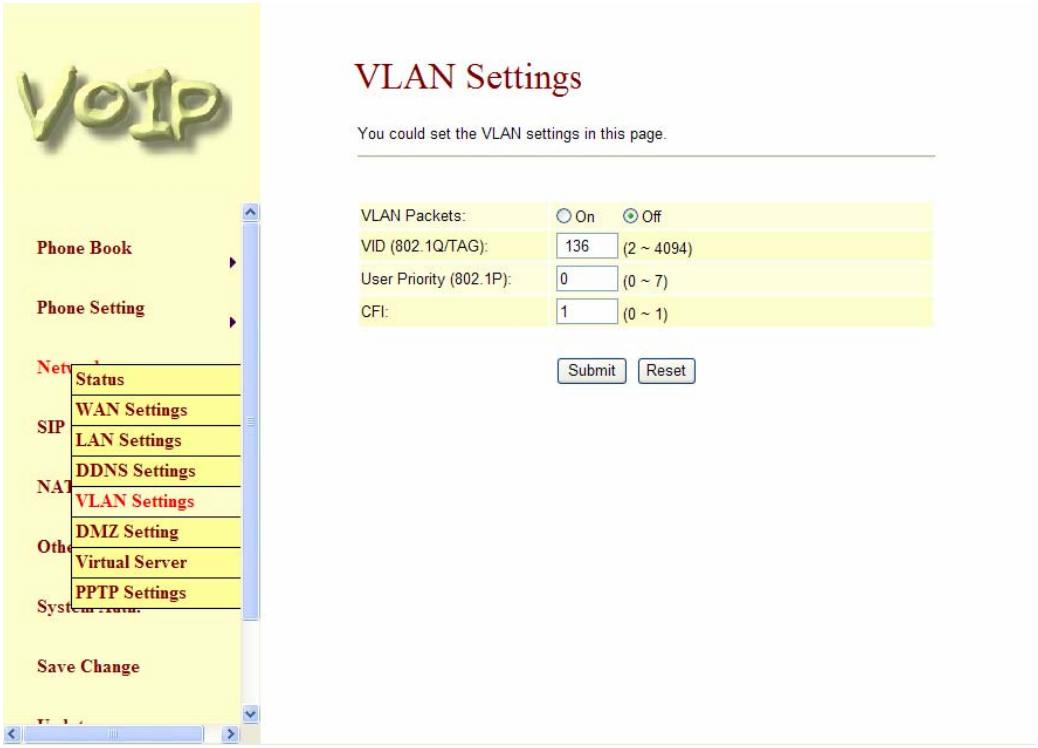
3.5.6.3 VID: You can follow your service provider to set your VID.

3.5.6.4 User Priority: Defines user priority, giving eight (2^3) priority levels. IEEE 802.1P defines the operation for these 3 user priority bits. Usually this will be defined by your service provider.

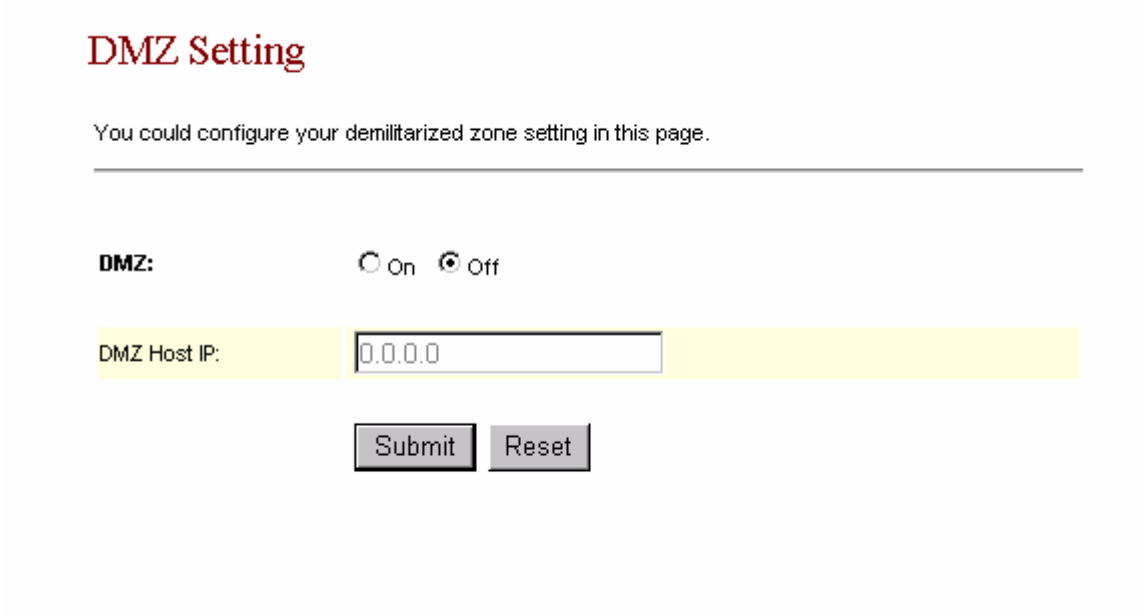
3.5.6.5 CFI: Canonical Format Indicator is always set to zero for Ethernet switches. CFI is used for compatibility reason between Ethernet type network and Token Ring type network. If a frame received at an Ethernet port has a CFI set to 1, then that frame should not be forwarded as it is to an untagged port.

3.5.6.6 When you enable the first VLAN Packets and set the VID, User Priority, and CFI, then all the incoming packets with the LP399's IP address and the same VID will be accept by the LP399. If the incoming packets with the LP399's IP address but the different VID then the packets will be discard by the LP399. The Other incoming packets with different IP address will go through the LAN port to the PC.

3.5.6.7 If there is nothing need to change, please click the Save Change Item in the left side, then click the Save button. The change you made will save into the system and the system will Reboot automatically.

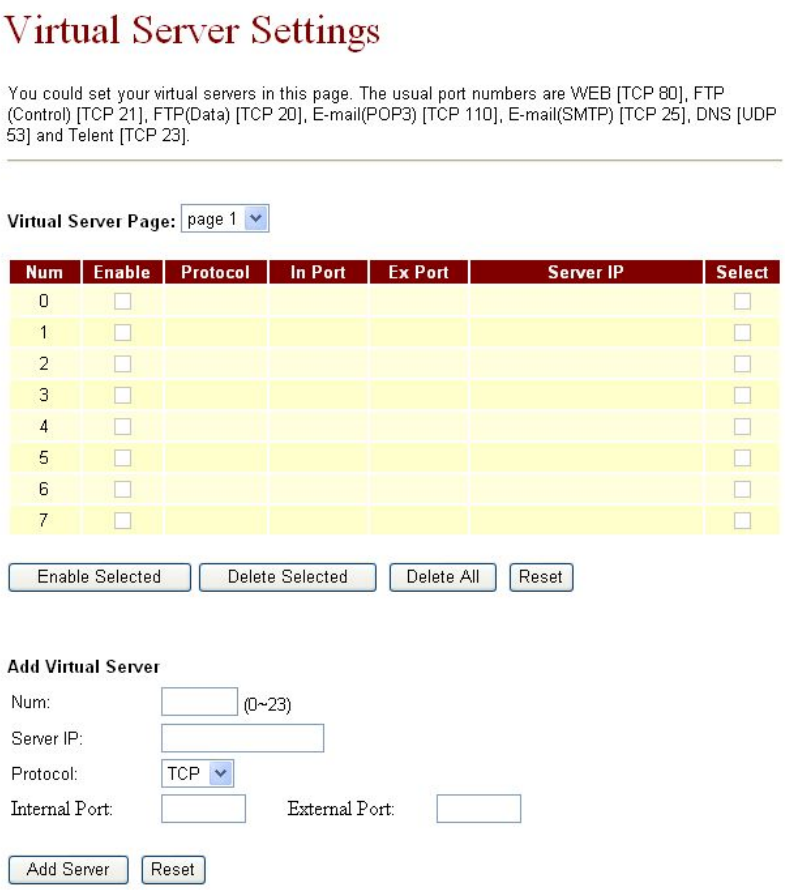


3.5.7 DMZ Setting: If you enable it, all packets will send to the specific IP(except SIP packets)



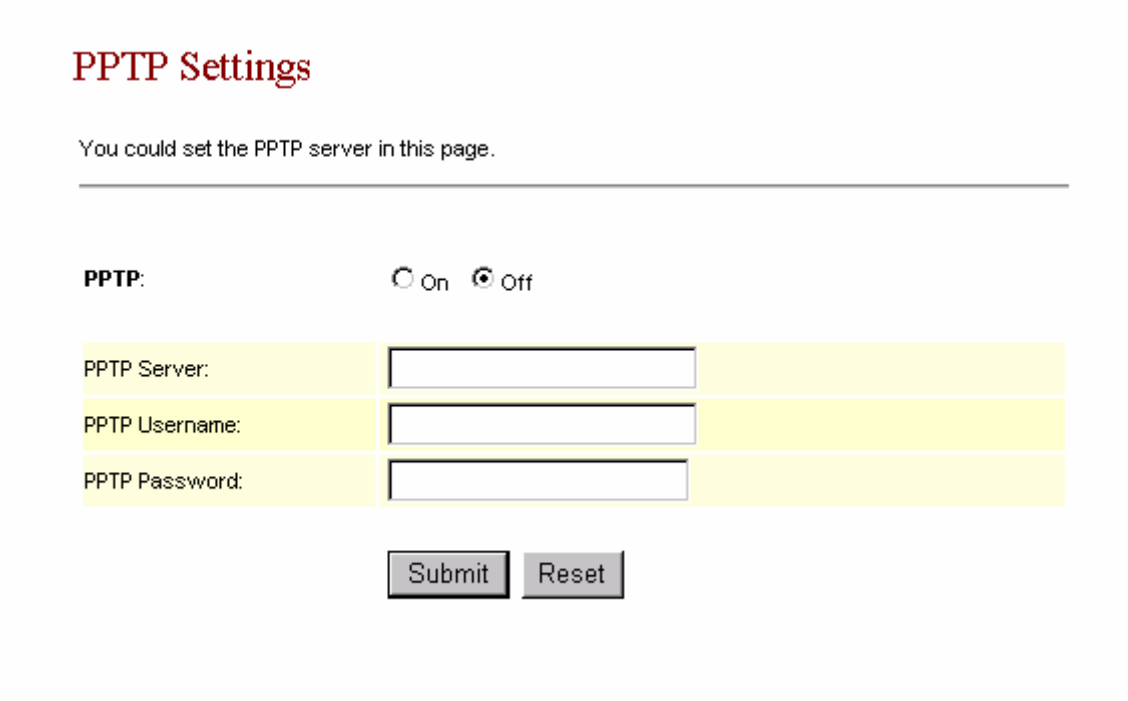
DMZ	Default setting is Off (not executed). When activated, all packets (excluding SIP related packets) will be sent to the designated IP address
DMZ Host IP	Input the special IP address of the DMZ host.
Submit [Button]	Saves the configuration
Reset [Button]	Erases the configuration

3.5.8 Virtual Server:



Virtual Server Page	To browse through different pages, click on the drop down box and select the page number you wish to view.
Num	This column displays the serial numbers, ranging from 0-23. There are 24 records in total.
Enable	Click on the check box to enable this option, the default option is unchecked (disabled).
Protocol	Displays the TCP and UDP port information.
In Port	Displays the internal port number.
Ex Port	Displays the external port number.
Server IP	Shows the IP address of the Server.
Select	To select a specific Virtual Server and perform configurations, click on the check box according to the server that you wish to configure.
Enable Selected [Button]	Enable the selected server.
Delete Selected [Button]	Delete the selected server.
Delete All [Button]	Delete all data.
Reset [Button]	Clean all data.
Num [Button]	Specify which record to insert the server on the table. The allowable range is 0-23.

3.5.9 PPTP: Sets your PPTP information.



PPTP	Default setting is Off (not executed). When set to On (executed), PPTP function will be activated.
PPTP Server	Input the IP address of the PPTP server's location.
PPTP Username	Input the username (login details).
PPTP Password	Input the password (login details).
Submit [Button]	Saves the configuration
Reset [Button]	Erases the configuration

3.6 SIP Settings

3.6.1 In SIP Settings you can setup the Service Domain, Port Settngs, Codec Settings, Codec ID Settings, RTP Setting, RPort Setting and Other Settings. If the VoIP service is provided by ISP, you need to setup the related informations correctly then you can register to the SIP Proxy Server correctly.

3.6.2 In Service Domain Function you need to input the account and the related informations in this page, please refer to your ISP provider. You can register three SIP account in the DW IP Phone. You can dial the DW IP Phone to your friends via first enable SIP account and receive the phone from these three SIP accounts.

3.6.2.1 First you need click Active to enable the Service Domain, then you can input the following items:

3.6.2.1.1 Display Name: you can input the name you want to display.

3.6.2.1.2 User Name: you need to input the User Name get from your ISP.

3.6.2.1.3 Register Name: you need to input the Register Name get from your ISP.

3.6.2.1.4 Register Password: you need to input the Register Password get from your ISP.

3.6.2.1.5 Domain Server: you need to input the Domain Server get from your ISP.

3.6.2.1.6 Proxy Server: you need to input the Proxy Server get from your ISP.

3.6.2.1.7 Outbound Proxy: you need to input the Outbound Proxy get from your ISP. If your ISP does not provide the information, then you can skip this item.

3.6.2.1.8 You can see the Register Status in the Status item. If the item shows “Registered”, then your DW IP Phone is registered to the ISP, you can make a phone call direcly.

3.6.2.1.9 If you have more than one SIP account, you can following the steps to register to the other ISP.

3.6.2.1.10 3.2.6.2.1.10 When you finished the setting, please click the Submit button.

3.2.6.2.1.11 MWI: Just support “Subscribe MWI mode”.

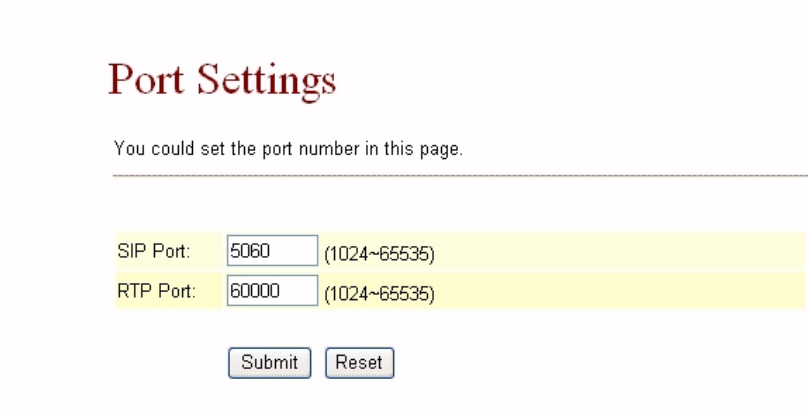
Service Domain Settings

You could set information of service domains in this page.

Realm 1 (Default)	
Active:	On Off
Display Name:	0702069702
User Name:	0702069702
Register Name:	0702069702
Register Password:	●●●●●●●●●●
Domain Server:	
Proxy Server:	192.168.32.253
Outbound Proxy:	
Subscribe for MWI:	On Off
Status:	Registered

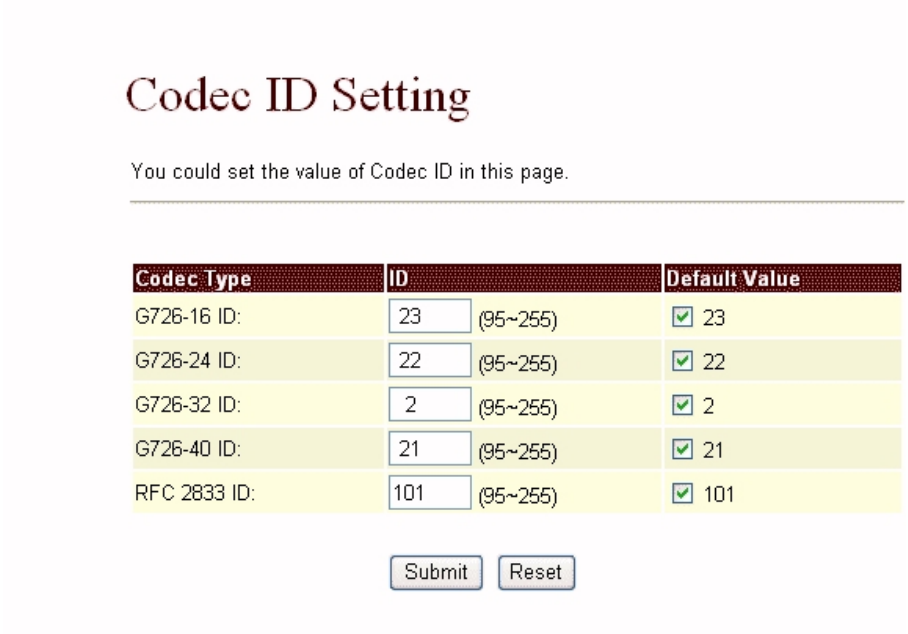
Realm 2	
Active:	On Off
Display Name:	
User Name:	
Register Name:	
Register Password:	
Domain Server:	
Proxy Server:	
Outbound Proxy:	
Subscribe for MWI:	On Off
Status:	Not Registered

3.6.3 Port Settings: you can setup the SIP and RTP port number in this page. Each ISP provider will have different SIP/RTPport setting, please refer to the ISP to setup the port number correctly. When you finished the setting, please click the Submit button.



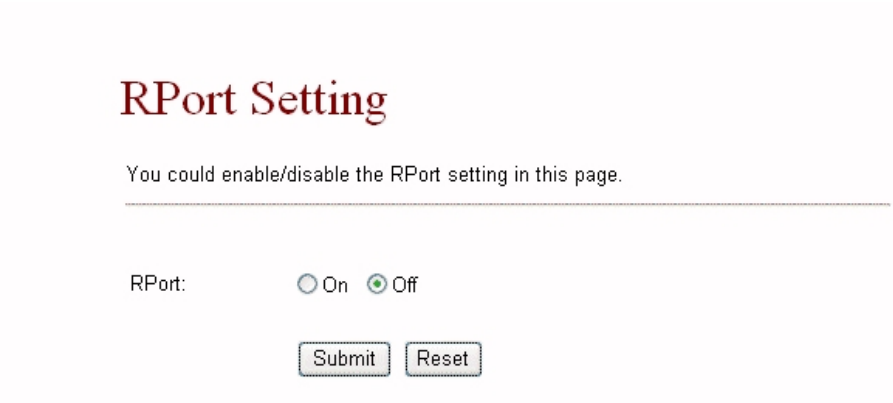
3.6.4 Codec Settings: You can setup the Codec priority, RTP packet length, and VAD function in this page. You need to follow the ISP suggestion to setup these items. When you finished the setting, please click the Submit button.

3.6.5 Codec ID Settings: You can set the Codec ID to meet the other device's requirement. When you finished the setting, please click the Submit button.

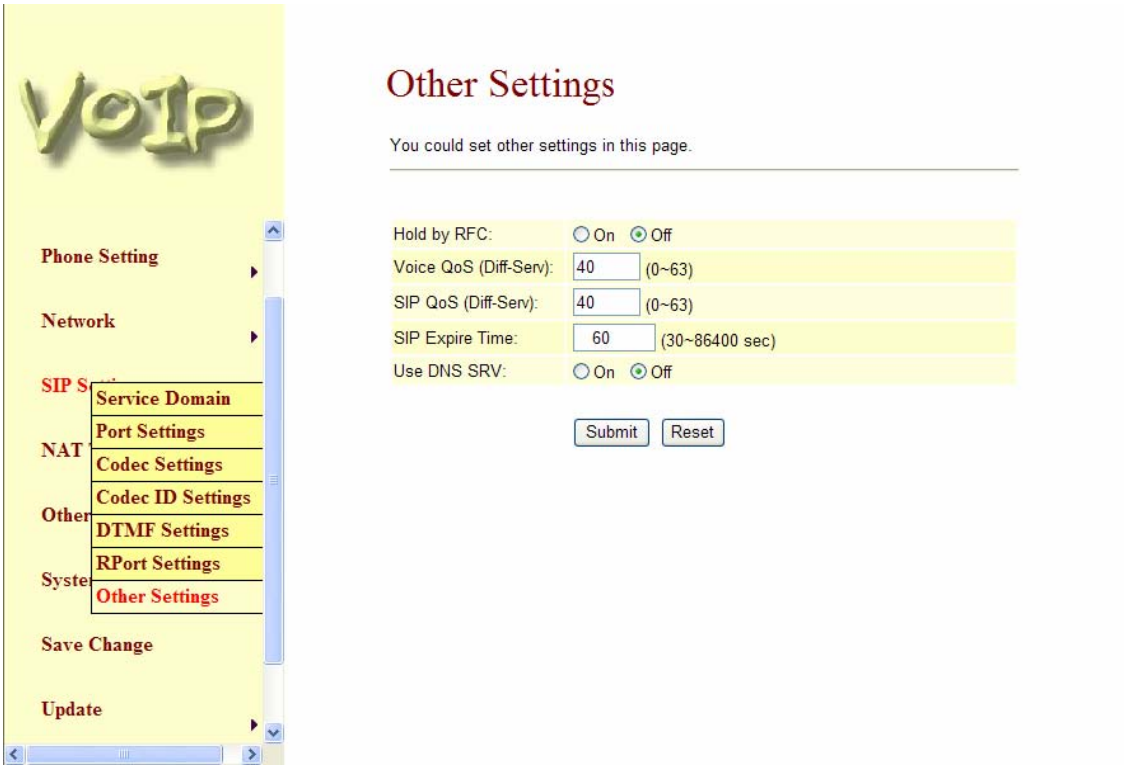


3.6.6 DTMF Setting: You can setup the RFC2833 Out-Band DTMF, Inband DTMF and Send DTMF SIP Info in this page. To change this setting, please following your ISP information. When you finished the setting, please click the Submit button.

3.6.7 RPort Function: You can setup the RPort Enable/Disable in this page. To change this setting, please following your ISP information. When you finished the setting, please click the Submit button.



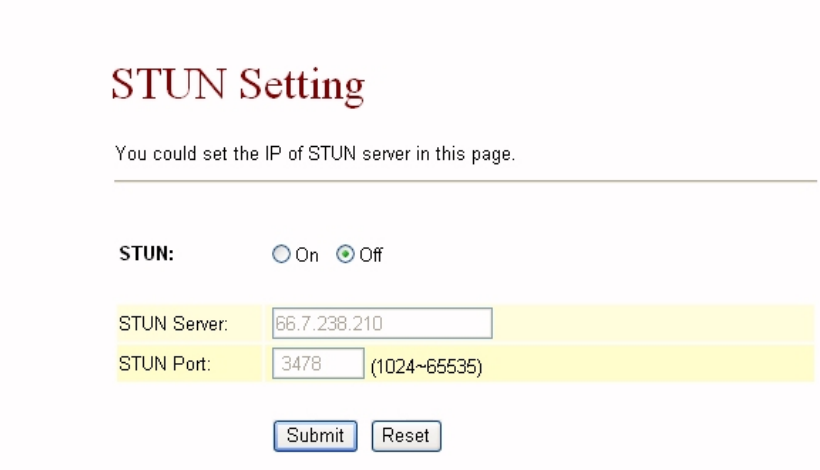
3.6.8 Other Settings: You can setup the Hold by RFC, Voice/SIP QoS and SIP expire time in this page. To change these settings please following your ISP information. When you finished the setting, please click the Submit button. The QoS setting is to set the voice packets' priority. If you set the value higher than 0, then the voice packets will get the higher priority to the Internet. But the QoS function still need to cooperate with the others Internet devices.



3.7 NAT Trans

3.7.1 In NAT Trans. you can setup STUN function. These functions can help your DW IP Phone working properly behind NAT.

3.7.2 STUN Setting: you can setup the STUN Enable/Disable and STUN Server IP address in this page. This function can help your DW IP Phone working properly behind NAT. To change these settings please following your ISP information. When you finished the setting, please click the Submit button.



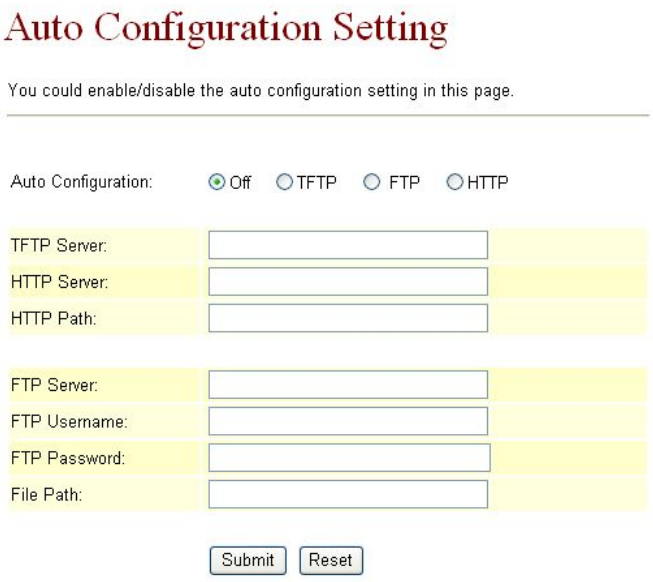
3.8 Others.

3.8.1 In Others you can setup Auto Config and ICMP Setting function. The function can configure your DW IP Phone automatically.

3.8.2 Auto Config: you can setup the Auto Configuration Enable/Disable and auto configuration by FTP or TFTP. You need to select the way to do the Auto Configurationand set the Server IP address in this page. This function can automatically download the configure file to setup your DW IP Phone. When you finished the setting, please click the Submit button.

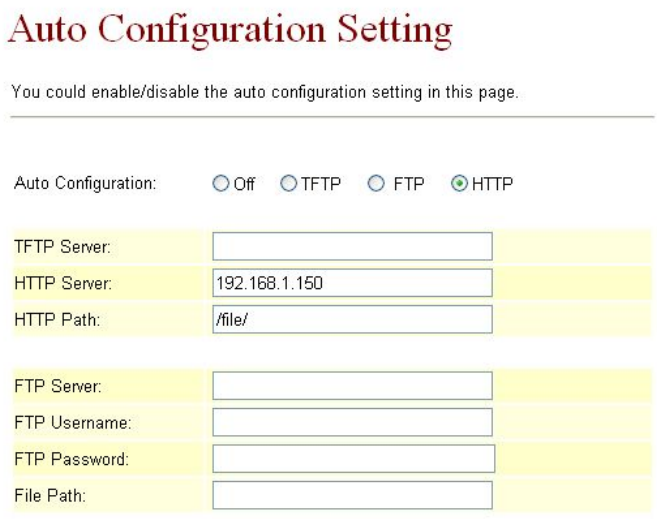
3.8.3 When you finished the setting, please click the Submit button.

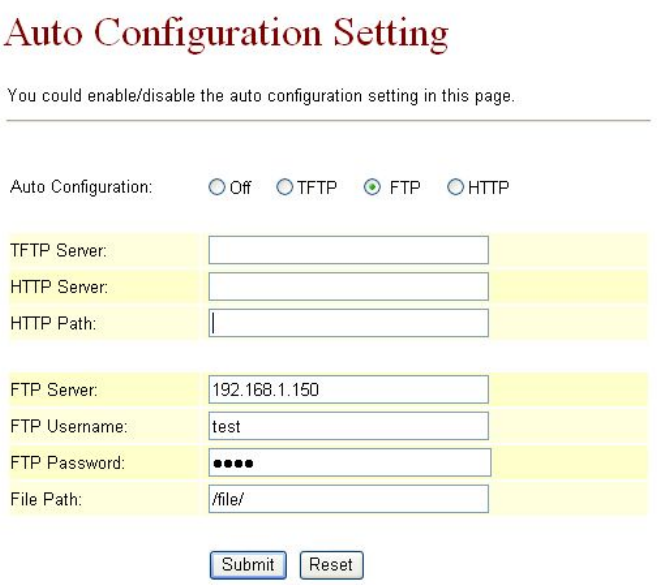
3.8.4 If there is nothing need to change, please click the Save Change Item in the left side, then click the Save button. The change you made will save into the system and the system will Reboot automatically.



Auto Configuration	Default setting is Off (not executed). Specify the methods on how auto configuration will be performed, the options are TFTP, FTP or HTTP.
TFTP Server	Set the TFTP Server's location, you can input IP address or Domain Name information in this text box.
HTTP Server	Set the HTTP Server's location, you can input IP address or Domain Name information in this text box.
HTTP Path	Specify the path to store data, for e.g. /123/
FTP Server	Set the FTP Server's location, you can input IP address or Domain Name information in this text box.
FTP Username	Enter the relevant Username to log on to the FTP Server。
FTP Password	Enter the relevant password associated with the inputted username to log on to the FTP Server
File Path	Specify the path to store data, for e.g. /123/
Submit [Button]	Saves the configuration
Reset [Button]	Erases the configuration

3.8.5 Auto configuration example





Example 1: Auto Configuration: HTTP，HTTP Server: 192.168.1.50，HTTP Path: /file/。

Explanation：device will connect to the HTTP Server's /file/ folder path and search the matching file。

2：Auto Configuration: FTP，FTP Server: 192.168.1.150，FTP Username: test，FTP Password: test，File Path: /file/。

Comment 1：device will connect to the FTP Server's /file/ folder path and search the matching file 。

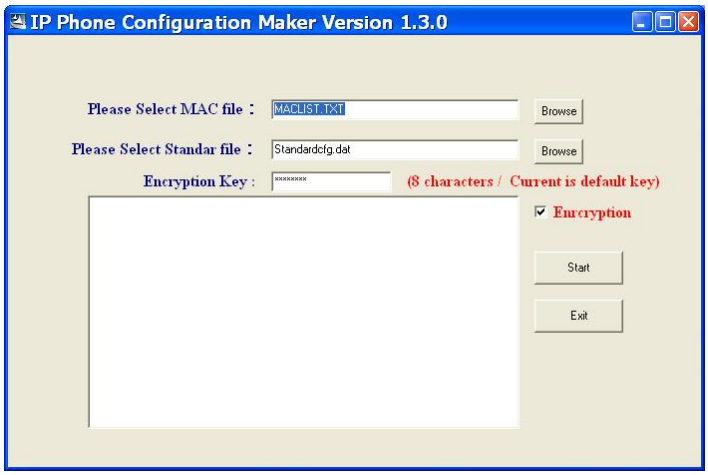
3.8.6 How to produce auto Configuration file

1： Firstly, you need to find the MAC address of the device that you want to configured，for e.g. MAC Address: 00059e812118。

Explanation 1：open the [MACList.txt] file then enter the these information in order[MAC Address, Display Name, User Name, Register Name, Register Pass](example ：00059e812118, UN_DO, 105, 105, 105)，when completed, please save your file.

Explanation 2：open the [StandardCFG.dat] file (use Windows notepad program to open the file)，then change the configurations parameters accordingly, once finished, please save the file。

Explanation 3：open the [MakeMACF.exe] file ，download [MAC File: MACList.txt, Standard File: StandardCFG.dat]，select [Start]，then encrypt the file。

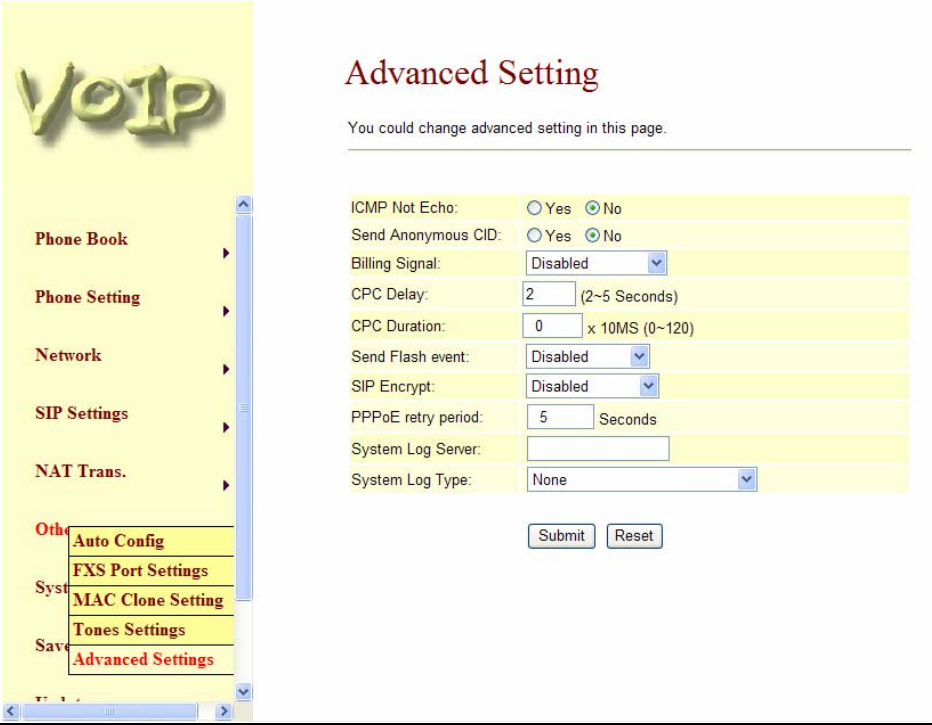


Explanation 4：the program will produce a encrypted string [00059e812118.dat] as the filename。

Explanation 5：please insert the name of the newly encrypted filename [00059e812118.dat] to your [HTTP or FTP or TFTP Server] file path。

3.8.7 Advanced Setting

ICMP Setting: you can setup the ICMP echo Enable/Disable in this page. This function can disable echo when someone ping this device, it can avoid haker try to attack the device. When you finished the setting, please click the Submit button.



ICMP Not Echo	Default setting is No (do not activate). Once activated all ping messages

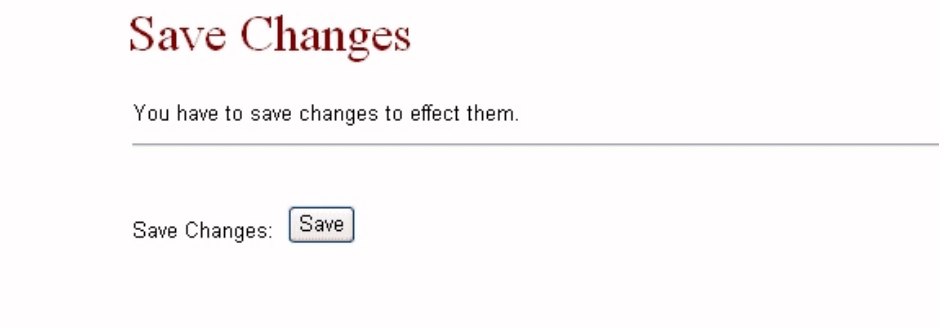
	will not be responded.
Send Anonymous CID	Default setting is No (do not activate). Once activated the device will not send its own number.
Billing Signal (*)	Default setting is Disabled (do not activate). Once activated the device will send a signal to notify about the billing status (Polarity Reversal, Tone_12K, Tone_16k) Support FXS Port
CPC Delay	Default is 2 seconds, allows the system the ability to adjust the time taken to lower the voltage to 0V upon disconnection. Support FXS Port
CPC Duration	Default value is 0ms (do not lower any voltage). Specifies how long the voltage will remain in ms when it is lowered to 0V.
Send Flash event	Default setting is Disabled (do not activate). Provides two methods for sending flash event messages; DTMF Event and SIP Info.
SIP Encrypt	Default setting is Disabled (do not activate). SIP's encryption method, four options to choose from; INFINET, AVS, WALKERSUN1, WALKERSUN2. Only works under environments that provide these services.
PPPoE retry period (*)	Default value is 5 seconds, range is from 5~255. Specifies the time taken to redial when PPPoE dialing fails.
System Log Server (*)	Specifies the location of the System log server where log information will be stored.
System Log Type (*)	Default setting is None (do not activate). Specifies the format of system log messages, four to choose from; None, Call Statistics, Debug Information and Both.
Submit [Button]	Save setting value.
Reset [Button]	Clean all setting.

3.9 System Auth.

3.9.1 In System Authority you can change your login name and password.

3.10 Save Change

3.10.1 In Save Change you can save the changes you have done. If you want to use new setting in the DW IP Phone, You have to click the Save button. After you click the Save button, the DW IP Phone will automatically restart and the new setting will effect.



3.11 Update Rom firmware:

3.11.1 In Update you can update the DW IP Phone's firmware to the new one or do the factory reset to let the DW IP Phone back to default setting.

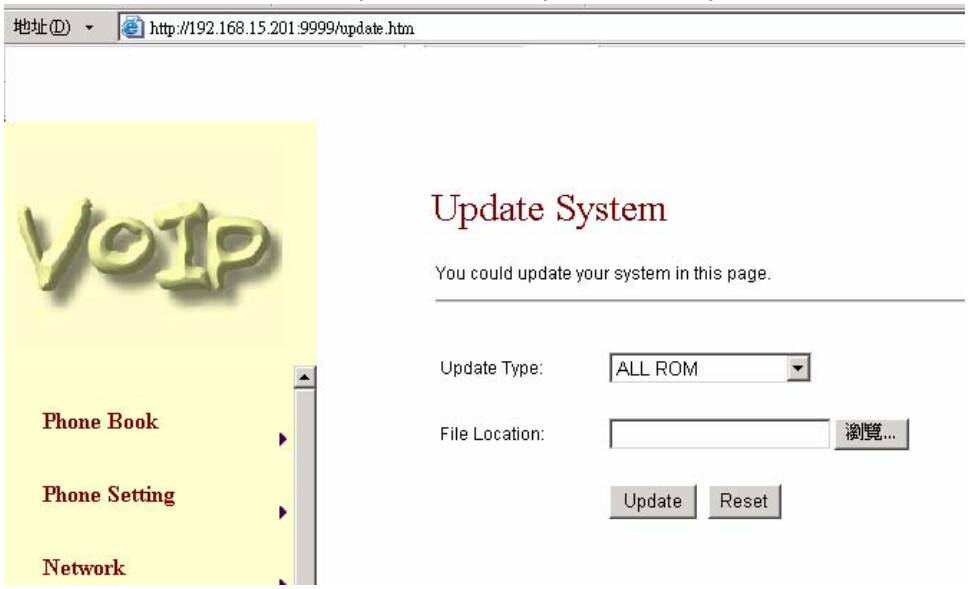
3.11.2 In New Firmware function you can update new firmware via HTTP in this page. You can ugrade the firmware by the following steps:

3.11.2.1 Select the firmware code type, ROM code.

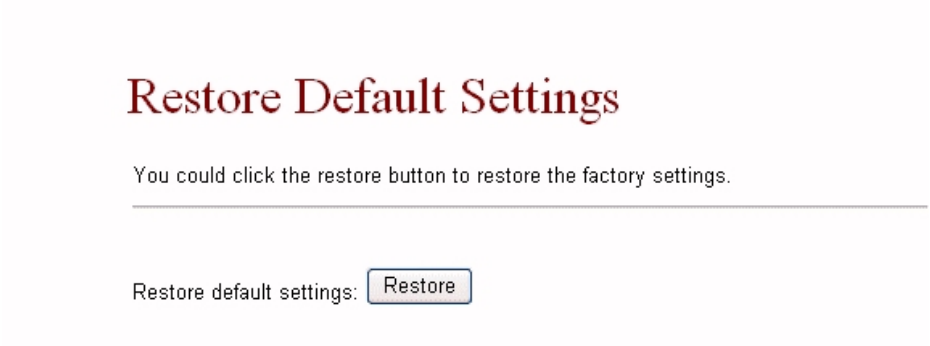
3.11.2.2 Click the "Browse" button in the right side of the File Location or you can type the correct path and the filename in File Location blank.

3.11.2.3 Select the correct file you want to download to the DW IP Phone then click the Update button.

3.11.2.4 After finished the update firmware process, the system will Reboot automatically.



3.11.3 In Default Setting you can restore the DW IP Phone to factory default in this page. You can just click the Restore button, then the DW IP Phone will restore to default and automatically restart again.



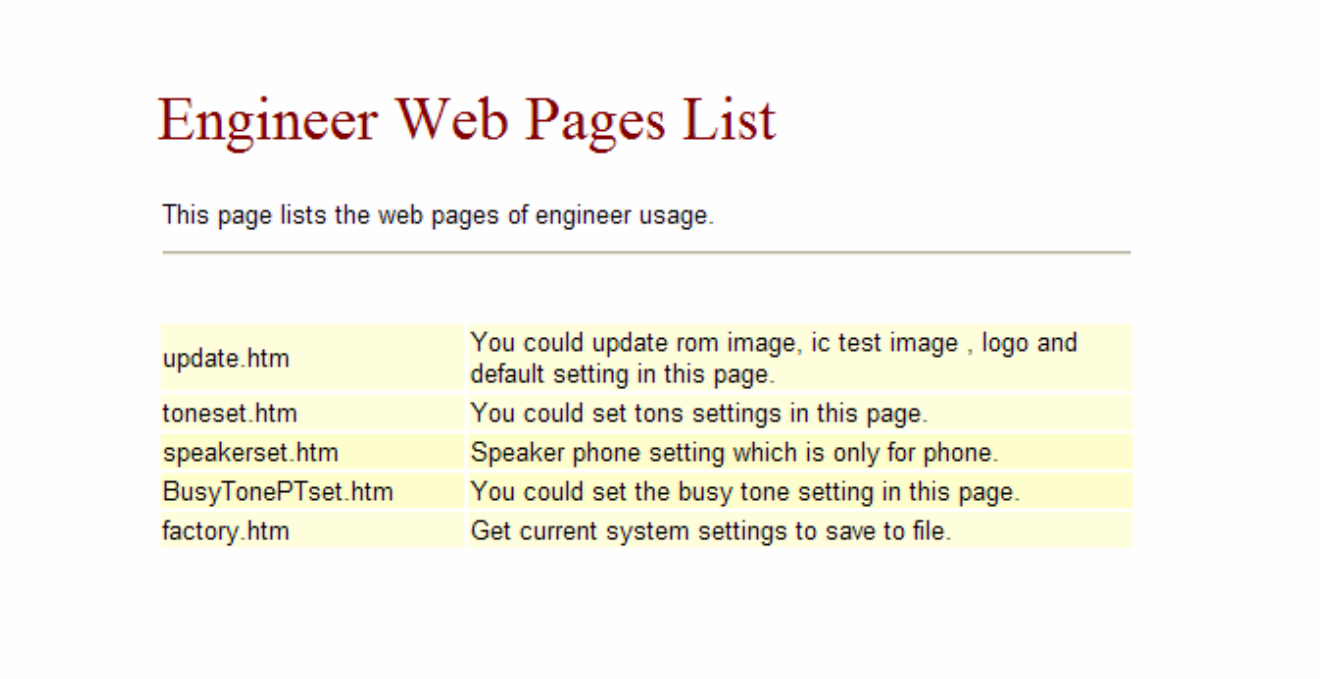
3.12 Reboot

3.12.1 Reboot function you can restart the DW IP Phone. If you want to restart the DW IP Phone, you can just click the Reboot button, then the DW IP Phone will automatically.

4 Engineering webpage

4.1 Engineer usage webpage list

4.1.1 You have to login the system first then change the webpage manually. In this webpage you will see the list about engineer webpage. You can change the webpage to what you want.



Engineer Web Pages List

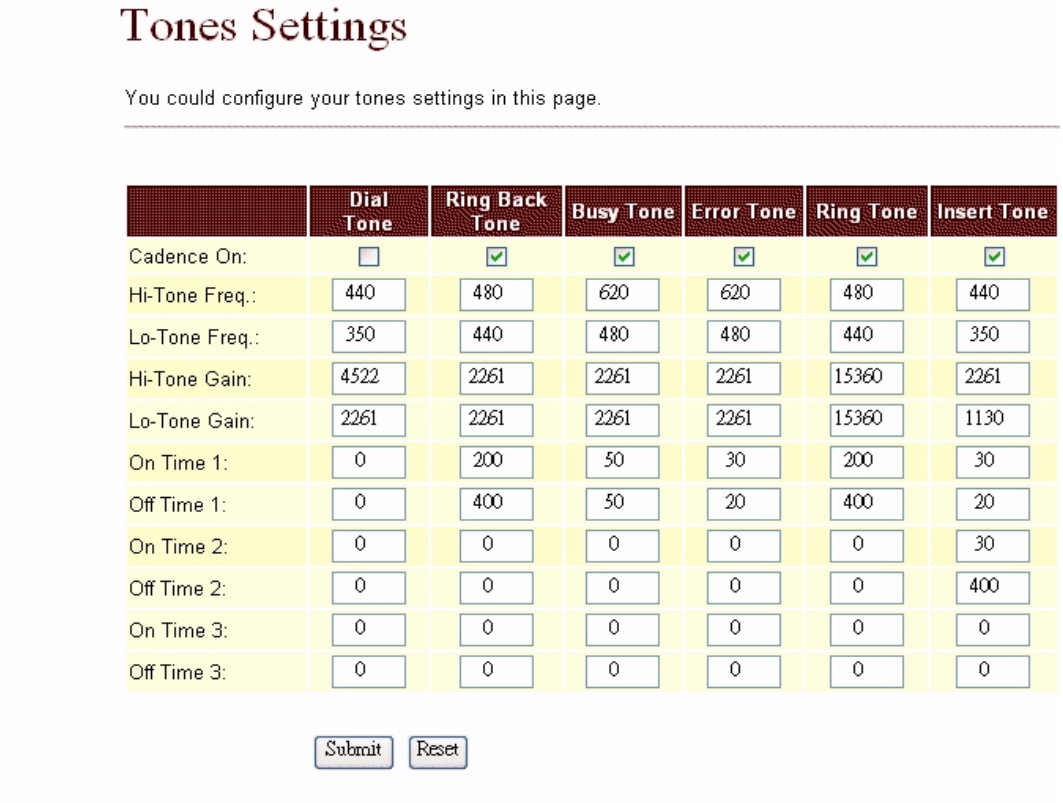
This page lists the web pages of engineer usage.

update.htm	You could update rom image, ic test image , logo and default setting in this page.
toneset.htm	You could set tons settings in this page.
speakerset.htm	Speaker phone setting which is only for phone.
BusyTonePTset.htm	You could set the busy tone setting in this page.
factory.htm	Get current system settings to save to file.

4.2 Toneset.htm

4.2.1 You have to login the system first then change the webpage to toneset.htm manually (http://ip address:9999/toneset.htm).

4.2.2 In this page you can setup the Tone frequency and cadence to meet the requirement.



4.3 Speakerset.htm

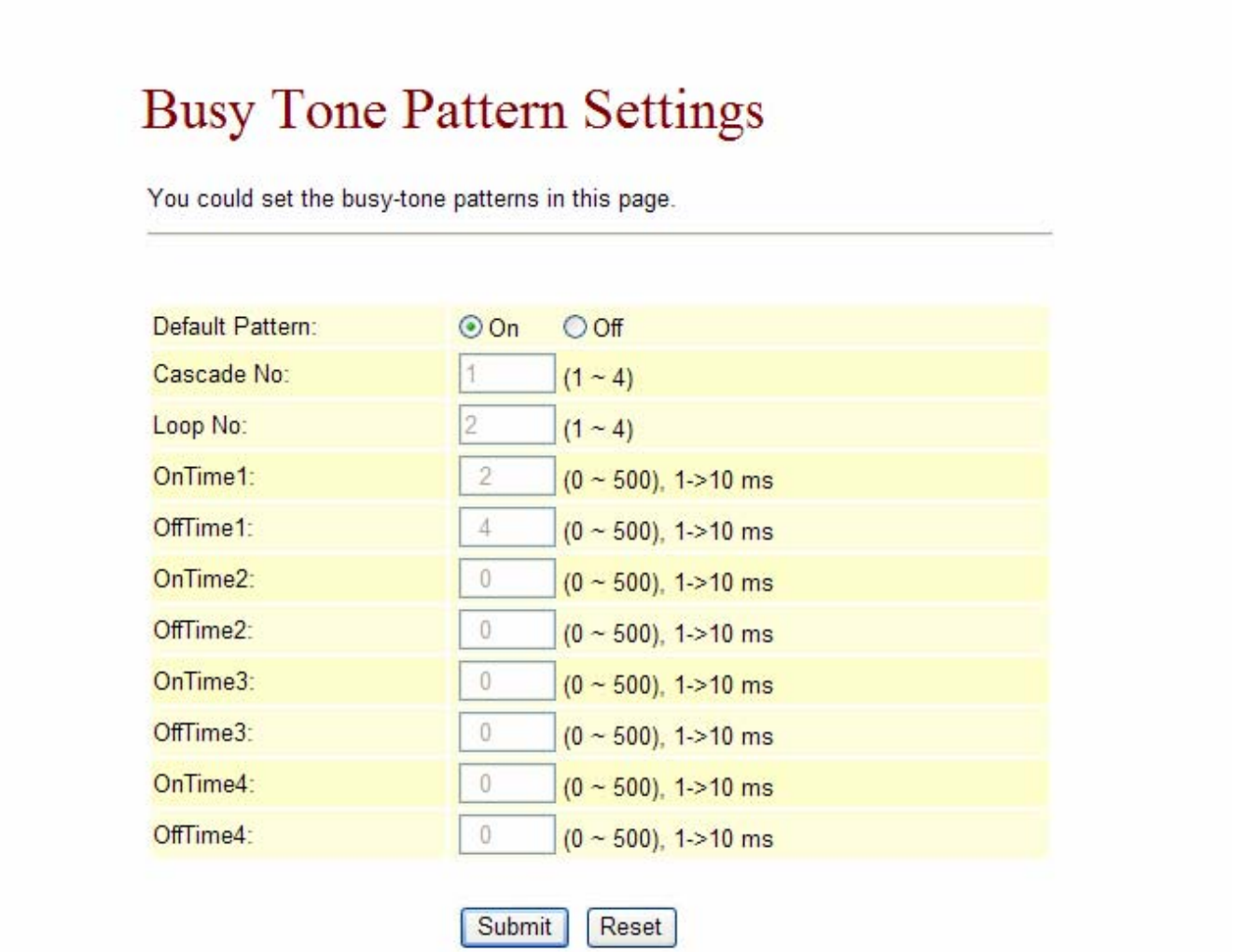
4.3.1 You have to login the system first then change the webpage to speakerset.htm manually (http://ip address:9999/toneset.htm).

4.3.2 In this page you can setup the Speaker function. Default we set the speaker is in half-duplex mode. If you want to set to full-duplex mode, it need to check if your housing is suitable for this function. Or you have to set it as half-duplex mode.

4.4 BusyTonePTset.htm

4.4.1 You have to login the system first then change the webpage to BusyTonePTset.htm manually (http://ip address:9999/BusyTonePTset.htm)

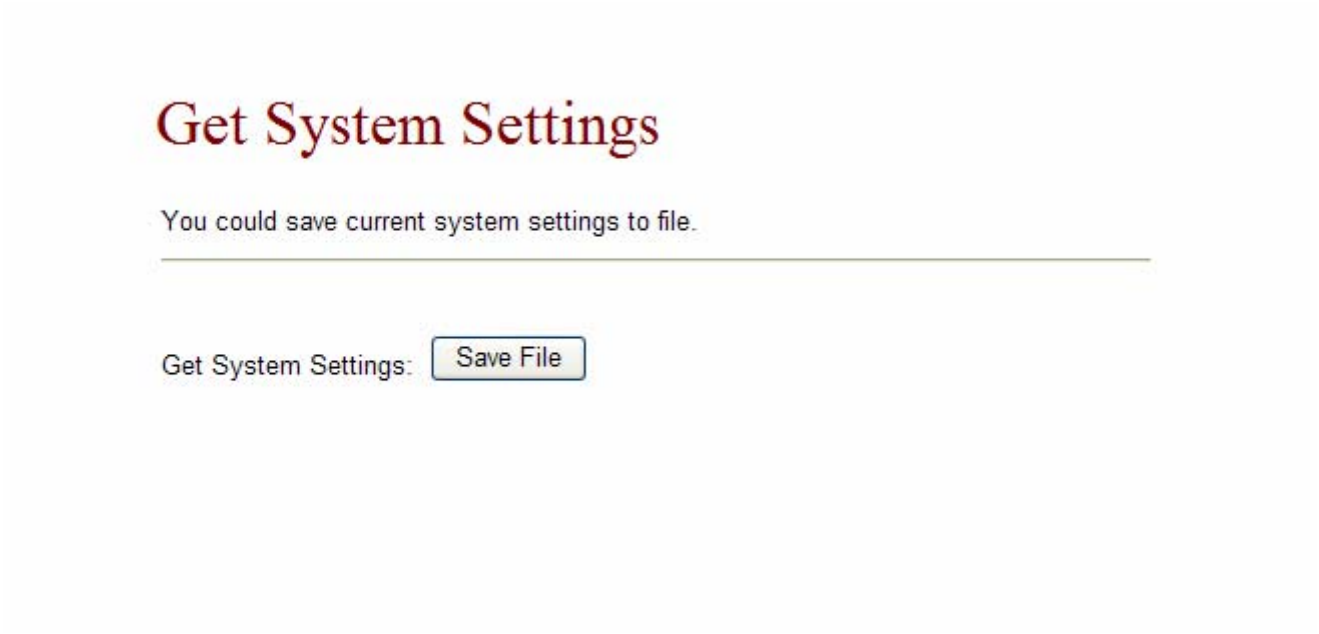
4.4.2 In this page you can set the busy tone setting



4.5 factory.htm

4.5.1 You have to login the system first then change the webpage to factory.htm manually (http://ip address:9999/factory.htm).

4.5.2 In this page you save your current settings to a file.



4.6 Using CLI command to configure the DW IP Phone

4.6.1 CLI command list as below:

Itno	Command	Description
1	?	Show CLI Command
2	arp	ARP Configuration
3	ipconfig	Interface Configuration
4	save	Save to flash
5	reboot	Reboot
6	exit	Exit
7	debugmode	Enter Debug Mode
8	update	Update Flash Code/RAM
9	auth	Change User Name and Password
10	nat	NAT Configuration
11	dns	DNS Configuration
12	ping	ping [-lN] [IP-addr|host-name]
13	sip	SIP Configuration
14	ddns	DDNS Configuration
15	sntp	SNTP Configuration
16	vlan	VLAN Configuration
17	time	Get System Time
18	mactab	Show MAC Learning Table
19	dump	Read/Write Memory
20	book	Edit phone book
21	reload	Reload Factory Setting
22	watchdog	WatchDog Function
23	phone	Phone Setting
24	weblogo	Change Web's logo
25	dsp	Show dsp type
26	addport	Add Nat Port Mapping
27	cid	Select slic Cid
28	slic	read or write slic registers
29	ver	Firmware Version

4.6.1.1 "?" function is to show CLI command list in the screen.

4.6.1.2 arp function

Itno	Command	Description
1	?	Show 'arp' Option
2	-a	Show ARP Table
3	-d	Delete ARP Table
4	-s	Set Static ARP Table
5	(null)	Show ARP Table

4.6.1.3 ipconfig function

Itno	Command	Description
1	?	Show 'ipconfig' Option
2	-if0	Interface 0
3	-if1	Interface 1
4	-if2	Interface 2
5	-h	Set Host Name
6	-a	Set ARP Cache Expire
7	-r	Restore Current Setting
8	(null)	Show IP Setting

4.6.1.3.1 ipconfig –ifN function → N is 0, 1, 2

Itno	Command	Description
1	?	Show 'ipconfig -ifN' Option
2	-t	Set Host Type
3	-m	Set MAC Address
4	-i	Set IP Address
5	-nm	Set Net Mask
6	-g	Set Gateway
7	-dns0	Set Primary DNS server
8	-dns1	Set Secondary DNS server
9	-dr	Set Default Route
10	-nat	Set NAT
11	on	Enable Interface
12	off	Disable Interface
13	-dhcps	DHCP Server Setting
14	-ddns	Set DDNS
15	-bridge	Set Bridge
16	-dev0	Set Device 0 Setting
17	-dev1	Set Device 1 Setting
18	-dev2	Set Device 2 Setting
19	(null)	Show Interface Setting

4.6.1.4 save function

Itno	Command	Description
1	?	Show 'save' Option
2	-book	Save phone book
3	-sys	Save system setting

4.6.1.5 reboot function is to restart the system.

4.6.1.6 exit function is to exit the CLI.

4.6.1.7 debugmode function is to enter the debugmode.

4.6.1.8 update function

Itno	Command	Description
1	?	Show 'update' Option
2	-os	Update OSImage(IP filename)
3	-dsp	Update DSP Image(IP filename)
4	-all	Update All Image(IP filename)
5	-server	Update Server (IP filename length)
6	-pcm	PCM(IP filename)
	-alaw	alaw (IP filename)
	-ulaw	ulaw (IP filename)
	-g729	g729 (IP filename)
	-g723	g723 (IP filename)
	-g726.16	g726.16 (IP filename)
	-g726.24	g726.24 (IP filename)
	-g726.32	g726.32 (IP filename)
	-g726.40	g726.40 (IP filename)

IP is the TFTP server's IP address, and the filename is the image you want to download into the system.

4.6.1.9 auth function

Itno	Command	Description
1	?	Show 'auth' Option
2	-admin	Change Administrator user name/password
3	-sys0	Change System user0 user name/password

4	-sys1	Change System user1 user name/password
5	-sys2	Change System user2 user name/password
6	-sys3	Change System user3 user name/password
7	-sys4	Change System user4 user name/password
8	-norm0	Change Normal user0 user name/password
9	-norm1	Change Normal user1 user name/password
10	-norm2	Change Normal user2 user name/password
11	-norm3	Change Normal user3 user name/password
12	-norm4	Change Normal user4 user name/password
13	-ppp	Change PPP user name/password
14	(null)	Show auth Setting

In each item includes

Itno	Command	Description
1	?	Show ‘auth’ Option
2	-user	Change User Name.’auth -sys3 -user xxx ‘
3	-pass	Change Password. ‘auth -sys3 -pass xxx xxx’
4	(null)	Show auth’s System/PPP Setting

If you want to change the password, you need to type the password twice in the CLI.

4.6.1.10 nat function

Itno	Command	Description
1	?	Show ‘nat’ Option
2	-vs	Set ‘nat -vs’ Option
3	-dmz	Set ‘nat -dmz’ Option
4	(null)	Show NAT Setting

In DMZ item includes

Itno	Command	Description
1	?	Show ‘nat -dmz’ Option
2	on	EnableDMZ
3	off	EnableDMZ
4	-ip	Set DMZ IP address
5	(null)	Show DMZ Setting

4.6.1.11 dns function

Itno	Command	Description
1	?	Show ‘dns’ Option
2	-q	DNS query. dns -q domain-name
3	(null)	Show DNS Table

4.6.1.12 ping function

Itno	Command	Description
1	?	Show ‘ping’ Option
2	-l	ping [-l N] [IP-addr|host-name]
3	(null)	ping [IP-addr|host-name]

4.6.1.13 sip function

Itno	Command	Description
1	?	Show ‘sip’ Option
2	-proxy0	sip -proxy0
3	-proxy1	sip -proxy1
4	-proxy2	sip -proxy2
5	-upnp	sip -upnp on/off/show
6	-exts	sip -exts sip upnp external-port
7	-extr	sip -extr rtp upnp external-port
8	-sipp	sip udp port
9	-rtpp	sip rtp port
10	-stun	sip -stun on/off
11	-rport	sip -rport on/off
12	-sserver	sip -sserver stun-server
13	-out	sip -out outbound-proxy
14	-dump	sip –dump
15	-log	sip -log on/off
16	-drtp	sip -drtp 0/1/2
17	-rtpnc	sip -rtpnc on/off
18	-wanip	sip –wanip
19	-nattype	sip –nattype
20	-hbyrfc	sip –hbyrfc
21	-dereg	sip -dereg
22	-restart	sip -restart
23	-jbt	sip -jitter buffer Threshold
24	(null)	Show SIP Setting

4.6.1.14 ddns function

Itno	Command	Description
1	?	Show ‘ddns’ Option
2	-type	Set DDNS Type
3	-host	Set Host Name
4	-wild	Set Wild Card Mode
5	-mx	Set Mail Exchanger
6	-backmx	Set Mail Exchanger Mode
7	-offline	Set Offline Mode
8	-user	Set Login User Name
9	-pass	Set Login Password
10	(null)	Show DDNS Setting

4.6.1.15 sntp function

Itno	Command	Description
1	?	Show ‘sntp’ Option
2	-on	Enable SNTP Client
3	-off	Disable SNTP Client
4	-ip1	Set SNTP Server1 IP
5	-ip2	Set SNTP Server2 IP
6	-mode	Set SNTP Client Mode
7	-zone	Set GMT Time Zone: [+|-][hour]:[min]
8	-adjust	Set Adjustment Time: [second]
9	(null)	Show SNTP Setting

4.6.1.16 vlan function

Itno	Command	Description
1	?	Show ‘vlan’ Option
2	-tx	Tx Vlan setting
3	-rx	Rx Vlan setting
4	(null)	Show Vlan Setting

4.6.1.17 time function

Itno	Command	Description
1	?	Show ‘Time’ Option
2	-t	Modify Time: hour:min:sec
3	-d	Modify date: year:mon:date
4	(null)	Show Data & Time

4.6.1.18 mactab function is to show MAC learning table.

4.6.1.19 dump function

Itno	Command	Description
1	?	Show ‘dump’ Option
2	-r	dump -r XXXXxxxx
3	-w	dump -w XXXXxxxx XX

4.6.1.20 book function

Itno	Command	Description
1	?	Show ‘book’ Option
2	-a	Show answer list
3	-c	Show call list
4	-s	speed dial
5	-p	phone book

4.6.1.21 reload function is to Reload Factory Setting, please make sure you want to do the factory reset.

4.6.1.22 watchdog function

Itno	Command	Description
1	?	Show ‘WatchDog’ Option
2	on	Enable WatchDog
3	off	Disable WatchDog
4	(null)	Show WatchDog Setting

4.6.1.23 phone function

Itno	Command	Description
1	?	Show ‘phone’ Option
2	-autoanswer	phone auto answer
3	-vol	Volume setting
4	-block	Block Incoming call
5	-ring	Set Melody Ringer
6	-forward	Auto-forward Incall to Phone[0-9] in Book
7	(null)	Show Phone Setting

4.6.1.24 weblogo function

Itno	Command	Description
1	?	Show ‘weblogo’ Option
2	-on	Vender Logo
3	-off	Remove original Logo
4	(null)	Show web logo Setting

4.6.1.25 dsp function is to show dsp code type.

4.6.1.26 addport function is to add Nat Port Mapping

4.6.1.27 cid function

Itno	Command	Description
1	?	Show ‘cid’ Option
2	-off	Disable Slic Cid signal
3	-1	Tx FSK after 1st Ring
4	-2	Tx FSK before 1st Ring
5	-3	Tx DTMF before 1st Ring
6	-4	Tx FSK with Line reversal before 1st Ring
7	-5	Tx DTMF with Line reversal before 1st Ring
8	-time	FSK cid with time message
9	-single	Single type FSK CID
10	(null)	Show Cid Option

4.6.1.28 slic function

Itno	Command	Description
1	?	Show ‘slic’ Option
2	-ring	Issue Ring signal
3	-r	read slic addr
4	-w	write slic addr
5	-a	read all slic reg
6	(null)	Show slic register

4.6.1.29 ver function is to show Firmware Version.

5 Phone function list

When your DW IP Phone is configured properly, you can make a phone call to your friend located in the same service provider. If you want to make a phone call, you can dial the phone number then press "#" button to start to dial the phone number or wait for a while then system will dial the number automatically.

The DW IP Phone provides some functions that list as below:

1. Call Hold: You can push the Hold key to hold the current call for a while, then push Hold key again to keep talking.
2. Call Waiting: When a new call is coming while you are talking, you can push the Flash button to switch to the new call. You can push the Flash button to switch between the two calls.
3. 3-Way Conference: If you want to make a 3-way conference call, you can make a phone call to the first phone number. After the call is established, push the Flash/Hold button then you can hear the Dial tone, then make a phone call to the second phone number. When the second call is established, press the Flash button again.
4. Call Transfer: Current we can support 3 kind of transfer application. Below is the operation method.
   A. Normal Transfer: A call B then transfer to C
      Step 1: A call B
      Step 2: B press "Flash" then A will be held
      Step 3: Make a new call to C
      Step 4: After C answer the call the press "Flash" to complete transfer

   B. 2 way Transfer: A call B then transfer to C but C is busy or C reject transfer then B want the call back to A
      Step 1: A call B
      Step 2: B press "Flash" then A will be held
      Step 3: Make a new call to C
      Step 4: If C is busy or reject then B hang up the phone
      Step 5: Press "Line 1" to restore call with A

   C. Blind Transfer: A call B then transfer to C and do not care about C's situation
      Step 1: A call B
      Step 2: B press "Blind transfer" then A will be held
      Step 3: Make a new call to C
      Step 4: B hang up the phone

5. Redial: User can push the Redial button to dial the last dialed number.
6. Flash: User can push the Flash button to make the IP Phone to dial mode.
7. Speaker Phone: You can use Speaker phone to make a phone call.
8. Pre Dial: User can dial the number first, after finished then raise the handset or push the speaker button; the IP Phone will start to dial.