VOIP Phone

Model: TL-IP

User Manual

Version1.3

(QRcode)

Smartphone Scantodownload PDF version

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1 Introduction

Before using the SIP Phone, some configurations are required to make the IP Phone work properly. The manual will illustrate how to configure the ip phone via web page.

1.1 Hardware Overview

One RJ-45 Networking interfaces for WAN port which supports10/100Mps Fast Ethernet. The default setting of WAN port is a DHCP client.

One LED that combine functions of ringer and message-waiting and one in-use LED.

The power is only supplied by switch hubs with POE (Power over Ethernet). There is no any jack for external power adaptor.

Message-waiting LED
Ringer LED
WAN (PoE)

Handset Volume control
(ringer volume control
when on-hook)
Hook Switch
Reset Key
(hook-switch with In-Use LED)
ROOM
PHONE #

1.2 Software Overview

Network Protocol	Codec
▫ SIP2 (RFC3261) ▫ IP/TCP/UDP/RTP/SNTP ▫ DHCP Client/PPPoE Client/PPTP Client ▫ HTTP Server ▫ DNS Client ▫ LLDP	▫ G71 aLaw ▫ G71 uLaw ▫ G722 ▫ G723 ▫ G729 ▫ iLBC
Voice Quality	**Tone**
▫ Comfortable noise generator ▫ Voice Activity Detector ▫ Voice QoS ▫ SIP QoS ▫ Jitter Buffer	▫ Ring Tone ▫ 350Hz/440Hz Dial Tone ▫ 400Hz Dial Tone ▫ Busy Tone ▫
Phone Function	**Cal l Function**
▫ Volume Adjustment ▫ 8 types of ringing melody ▫ Do Not Disturb ▫ Schedule Alarm ▫	▫ Call Hold ▫ Call Mute ▫ Call Waiting ▫ Call Forward ▫
IP As ignment	**DTMF**
▫ Static IP ▫ DHCP ▫ PPPoE	▫ RFC2833 ▫ In band ▫ SIP Info
NAT Traversal	**Firmware Upgrade**
▫ STUN	▫ TFTP ▫ FTP ▫ HTTP ▫ Local Computer
SIP Server	**Configuration**
▫ Up to two SIP account ▫ Outbound Proxy	▫ Web Browser ▫

1.3 Combination operation

Instructions	Describe
47*#	Gets the IP address assigned from the DHCP server
48*#	Get the native software version
49*#	Reset the factory device and clear the setting parameters
50*#	Get whether the VLAN Tag is on or off
51*#	Get the network connection
52*#	Gets the last 8-bit MAC address of the device
778899*#	Enter the engineering test mode

2 Setup the IP Phone system by using Web Browser

Before configure the IP Phone, Firstly user should press the keys "47*#" keys of IP phone in order to obtain the IP address which is assigned from a DHCP server.

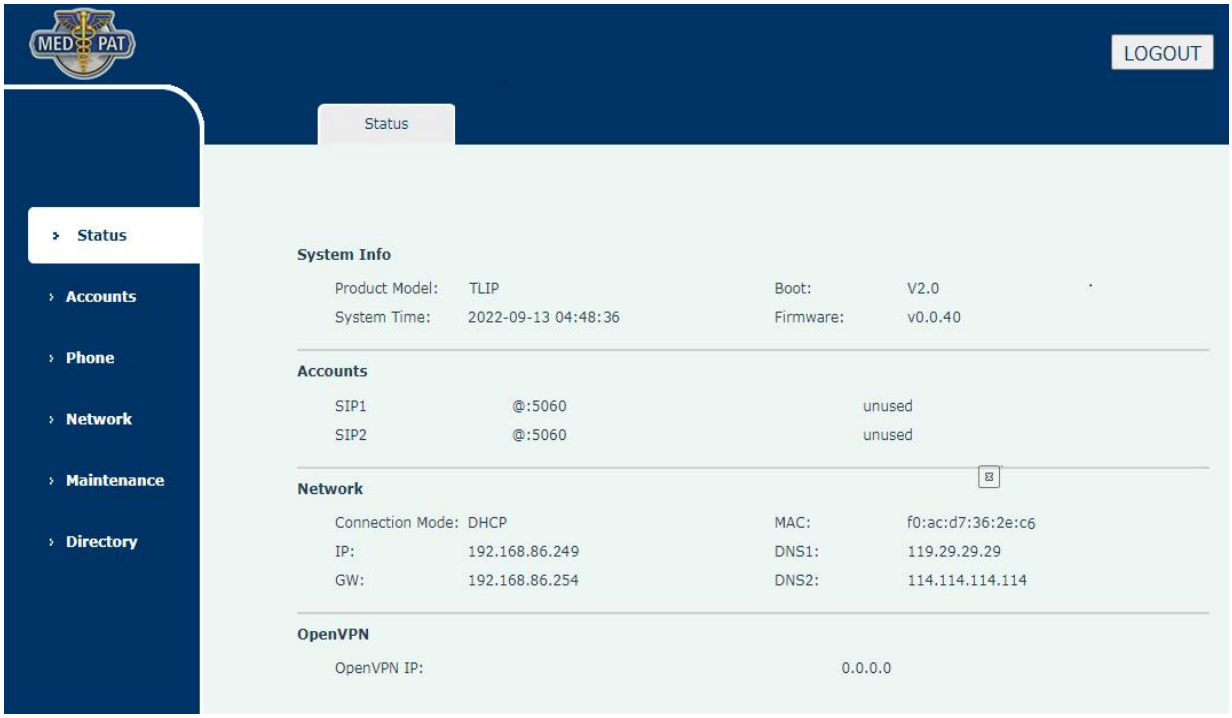
2.1 Login

Please input the default username and password into the blank fields. The user name is hidden by default, the default password is admin.Then click the Login button to login the SIP Phone.

2.2 System Information

After login the web page,user can see the system information such as model name and firmware version.

In addition, there is a function list in the left hand side. User can use mouse to click the function to setup and configure the IP phone.

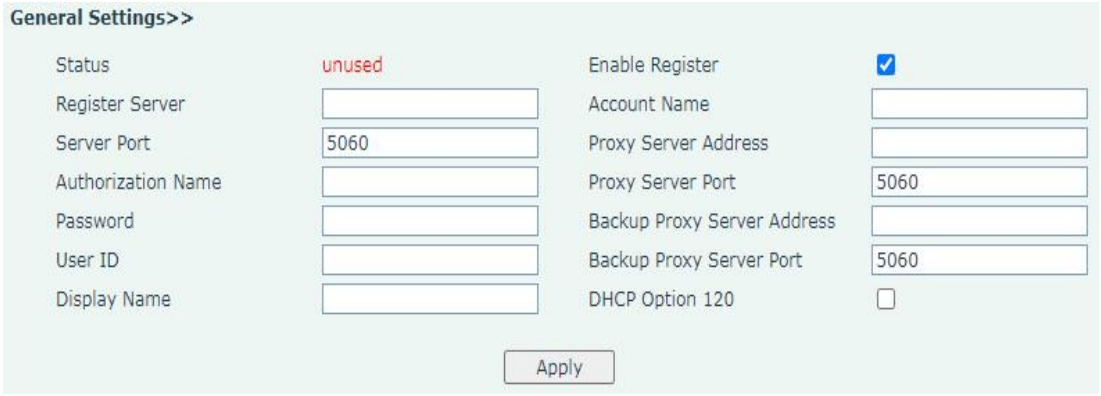


3 Accounts

The account setting page is displayed, and you can set the basic, audio coding, call, and advanced Settings of the account.

3.1 General Settings

Show registration status of this realm. Please click the "Apply" button after finishing.

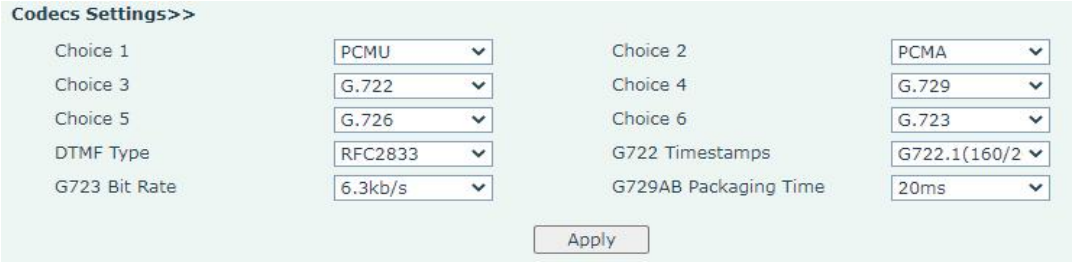


menu：

Accounts>SIP 1>General Settings

3.2 Codecs Settings

To change RFC2833event ID. When SIP phone communicate with other SIP device, if the codec ID that other SIP device deployed is non-standard, problem will occur. User can adjust the codec ID of SIP phone from default to a matching one. Please click the “Apply” button after finishing.



menu：

Accounts>SIP 1>Codecs Settings

3.2.1 G729AB Packaging Time

Set the number of seconds for codec G729AB RTP Packet Time.

3.2.2 Audio encoder selection

PCMU

To enable Choose PCMU encoder.

PCMA

To enable Choose PCMA encoder.

G.722

To enable Choose G.722 encoder.

G.729

To enable Choose G.729 encoder.

G.726

To enable Choose G.726 encoder.

G.723

To enable Choose G.723 encoder.

iLBC

To enable Choose iLBC encoder.

AMR_WB

To enable Choose AMR_WB encoder.

GSM

To enable Choose GSM encoder.

opus

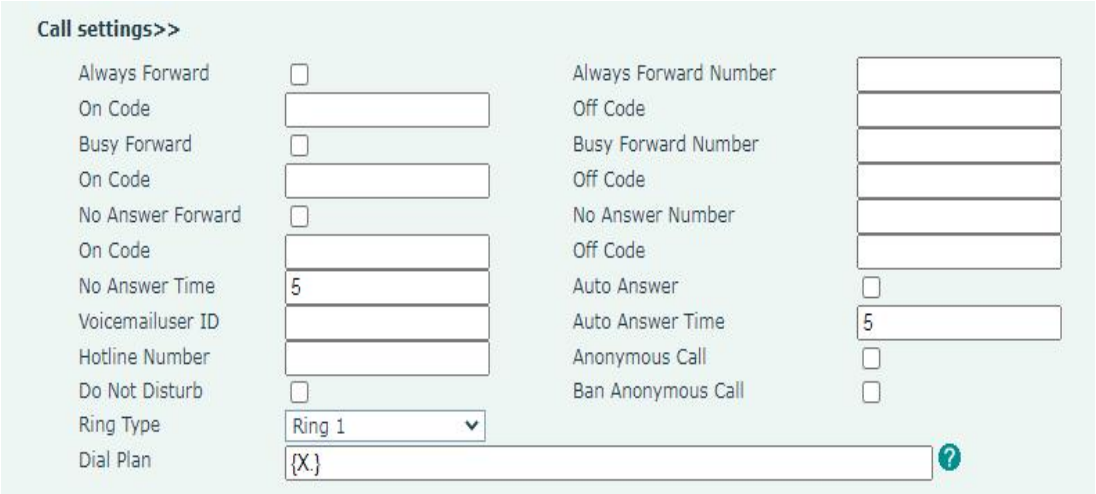
To enable Choose opus encoder.

3.2.3 DTMF Type

Currently, there are four common standards: DTMF, RFC2833, Audio and SIP Info, and Audio+SIP Info. The user should consult the service provider as to which setting is correct and appropriate. Click the "Apply" button when you are done.

3.3 Call Settings

Phone Settings contains Call Forward, Ring Type, Auto Answer and Dial Plan.



menu：

Accounts>SIP 1>Call settings

3.3.1 Call Forward

Always Forward All incoming call will be forward to the number that is filled. Please input the name in the name field and the phone number or IP address in the URL field.

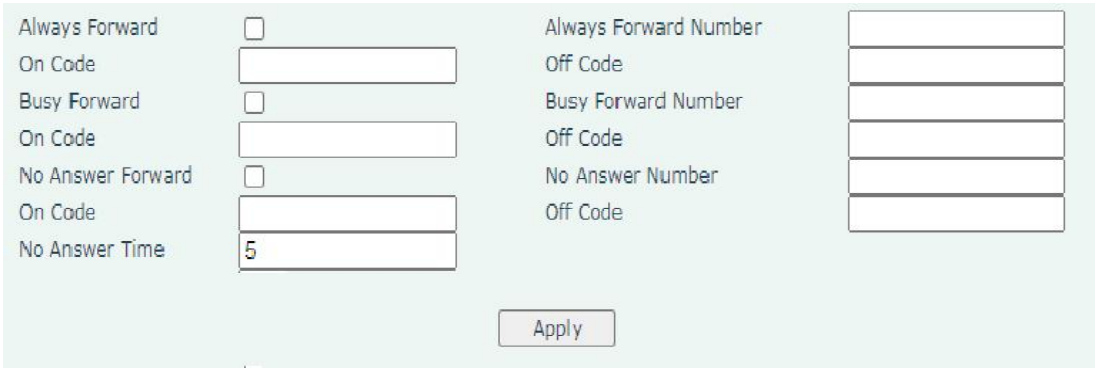
3.3.2 Busy Forward

When a user is engaged in a call, an incoming call is forwarded to a network number selected by the user.

3.3.3 No Answer Forward

User can have incoming calls answered by another phone whenever the IP phone is unanswered after several seconds of ring. How long the call will be forwarded is determined by the No Answer Fwd Time Out. The transfer time is shorter than the call time. The value ranges from 5 to 30 seconds.

If the user wants to disable the previous forward Settings, please select "Uncheck" in the checkbox. After setting, please click the "Apply" button.



3.3.4 Ring Type

User can select one of melodies from Ringer Type for ringing tone of incoming call. Please click the “Apply” button after finishing.

At present, there are three ringtones (Ring) that can be used, and three standby ones (User).

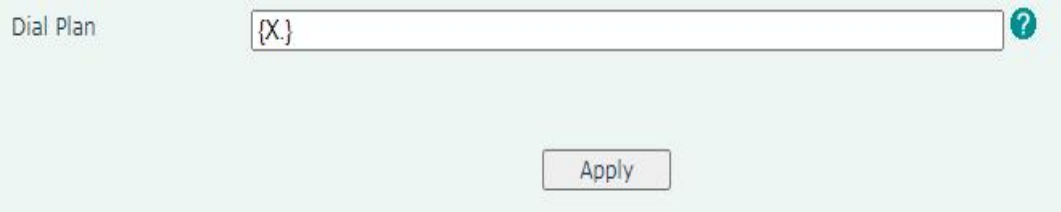
3.3.5 Auto Answer

When the automatic answer period ends, the system automatically answers the number of the calling party and communicates with the calling party.Automatically answer a call by handsfree.

Enable the auto answer option and auto answer time in your phone call Settings.Please click the “Apply” Button after finishing.

3.3.6 Dial Plan

Dial Plan:
'X' matches any number between 0-9, including *
'x' matches any digit from 0-9
'Z' matches any digit from 1-9
'N' matches any digit from 2-9
'.' wildcard, matches one or more characters
'!' wildcard is referred to as a barring rule
'?' wildcard matching function matches 0 or 1 x, X
'|' separates a dialing prefix from the number(for example:*74(xx|xxxx) would match when some dialed '*74xx' or '*74xxxx')
'[]' matches any digit or letter in the brackets (for example65[8-9] match 658 and 659
'<>' An element-to-literal transformation allows us to substitute the digit sequence matching elements with the given literals,If we want to add to the start of a dialed number, for example to add 02 to the start of an 8-digit number, we would write:<02>xxxx xxxx or <:02>xxxx xxxx
'^' An exclusion set matches any single alphanumeric character that is not within the set,Example:To match any arbitrarily long sequence of digits that does not start with * we would write our matching rule as follows:[^*]xx.
';' separates each one rules,for example:{1xxx;<1>[2-9]xxx;*74(xx|xxx)}
In addition, Dial Plan may have some incomplete functions, which will be added later.



3.3.7 Replace Rule

The Dial Plan function provides basic dial number replacement or drop rule. Maximum 4 rules user can apply at a same time. The rules will only be effective when matching digits are located at the beginning of dialed numbers.

menu：

Account>SIP 1>Call settings>Dial Plan

Example for operation of “replace number by”:

Digitsfor matching	Operation	Digitsfor operation
852	replace number by	1234

When user presses85291234567 on the keypad, the IP Phone will send out 123491234567 Example for operation of “drop number”:

Digitsfor matching	Operation	Digitsfor operation
0050	Drop number	

When user presses005091234567 on the keypad, the IP Phone will send out 91234567.

3.3.8 Dial Now

If user wants to dial some digits at once without waiting for timeout, please input the digits into the field of “Dial Now”.

User can set more than one rule in the field by adding “+”, e.g. *xx+#xx+11x+xxxxxxxx. If the number dialed matches the rule “*xx”, e.g. “*11”, “*1123”. “*11” will be automatically dial out at once no matter there are more digits followed by “*11”.

3.3.8.1 Use Pound Key(#) As Send Key

User can enable the pound key (#) as an end signal. It instructs the IP Phone dial out the numbers at once by pressing pound key. For example, 91234567#.

3.3.8.2 Use Asterisk Key(*) For IP Dialing

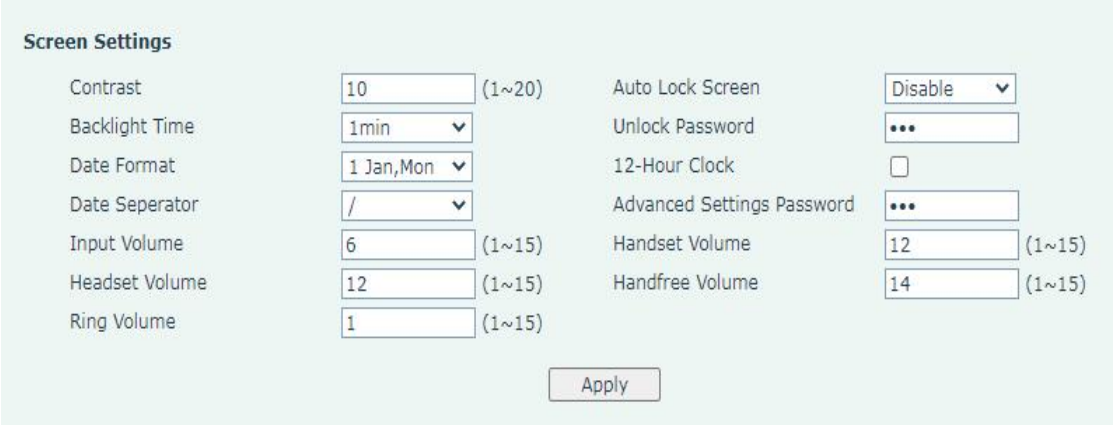
User can enable the asterisk key(*) as a dot-decimal notation of IP address.After user enabled it, user can direct input IP address by keypad.

4 Phone

On this page, you can set the date and time, personalization, function, and language.

4.1 Volume Settings

Screen Settings include call volume and ringtone volume.



menu：

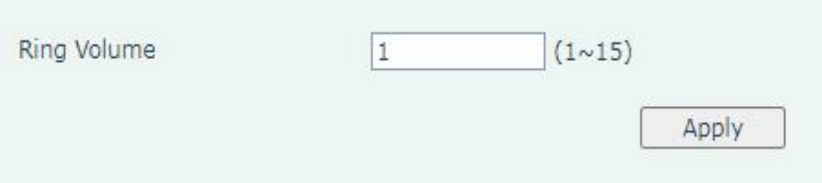
Phone>Preference>Screen Settings

4.1.1 Call volume

You can adjust the voice volume, handheld voice volume, during a call. The value ranges from 1 to 15 seconds. Please click the “Apply” Button after finishing.

4.1.2 Ringtone volume

You can adjust the ring tone volume during an incoming call.
The value ranges from 1 to 15 seconds . Click the "Apply" button when you are done.

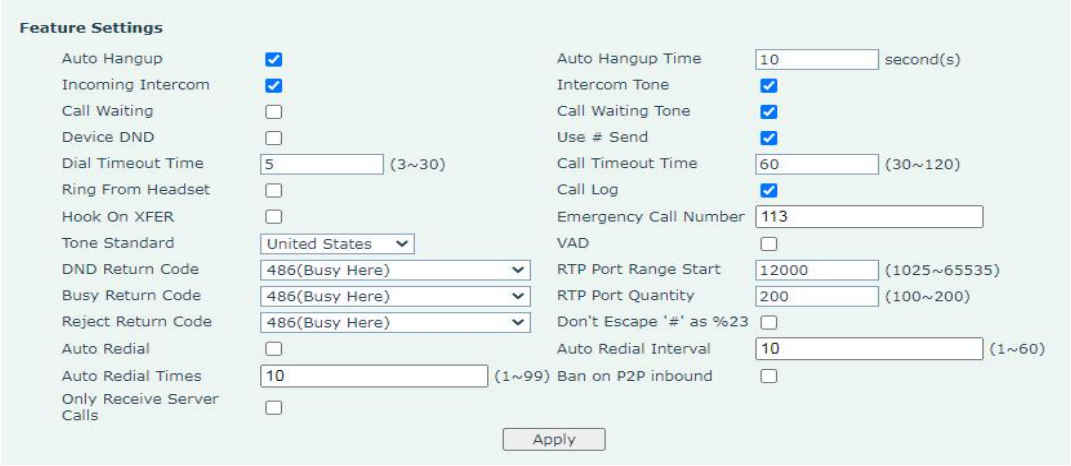


4.1.3 Dial Tone

At present, our company combines dial tone and ring tone. If one is modified, the other will be modified.The value ranges from 1 to 15 seconds .Please click the “Apply” button after finishing.

4.2 Feature Settings

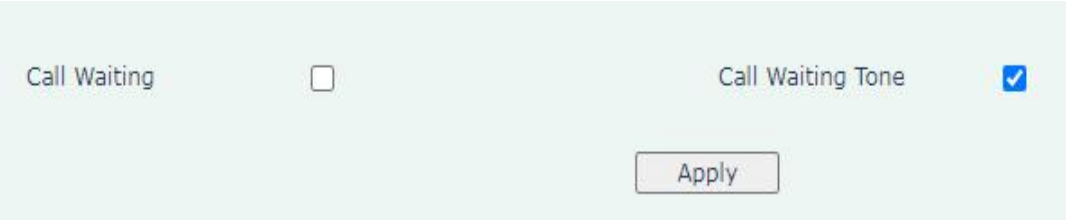
Feature Settings include Dial Timeout Time&Call Waiting Tone ,Call Waiting ,Tone Standard and Emergency Call Number.



menu：
Phone>Feature>Feature Settings

4.2.1 Call Waiting

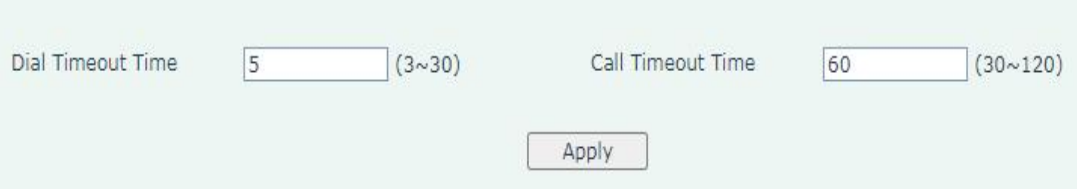
User can enable or disable the call waiting function.Once checked, click the "Apply" button.



4.2.2 Dial Timeout Time&Call Waiting Tone

Timeout period: duration for calling another phone. Click the "Apply" button when you are done.

Call Waiting Tone:The phone has an incoming call duration.Please click the “Apply” button after finishing.

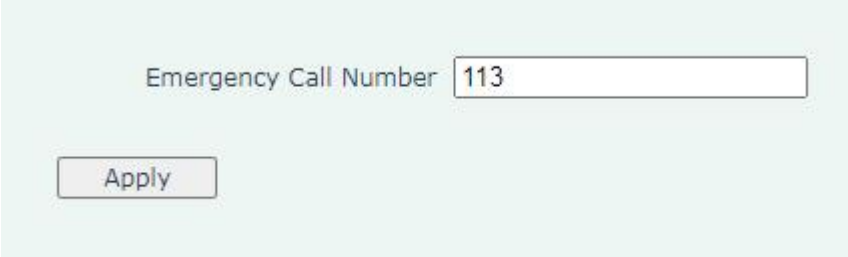


4.2.3 Tone Standard

If you need to adjust to the familiar voice. Users can access the， Select a combo box from the drop-down list. After setting, please click the "Apply" button.

4.2.4 Emergency Call Number

In case of emergency, you can directly call the toll-free help number. Generally, the number is short and easy to remember, and it is easy to connect. Different countries have different emergency numbers. Commonly used emergency numbers such as 119, 110, 120 and so on.After setting, please click the "Apply" button.

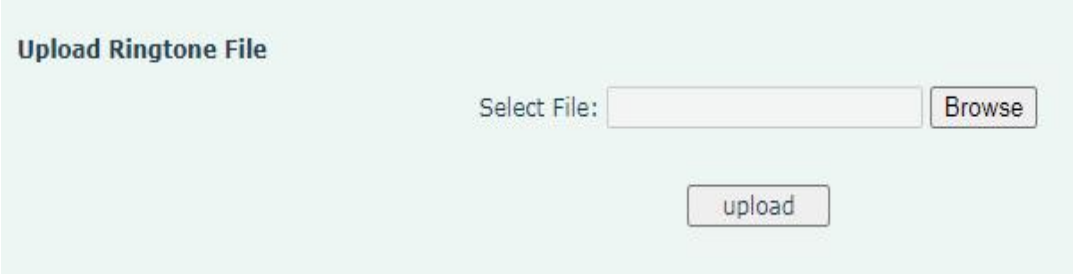


4.3 Ringtones

The ringtone Settings page is displayed.

4.3.1 Upload Ringtone File

On the ringtone setting page, click the "Select File" button, select the ringtone file to be uploaded, and click "OK". Click Upload on the ringtone Settings page to upload the ringtone.



menu：
Phone>Ringtones>Upload Ringtone File

5 Network

In Network page, user can configure all the network settings and check the network status of IP phone.

5.1 LAN

The LAN network configuration page is displayed.

5.1.1 Network Settings

You can set a fixed IP address or obtain an IP address through DHCP client or PPPoE. Select an IP Mode that is appropriate for your current network environment.

DHCP：

When DHCP is set, IP Phone acts as a DHCP client and obtains all TCP/IP parameters from DHCP server.

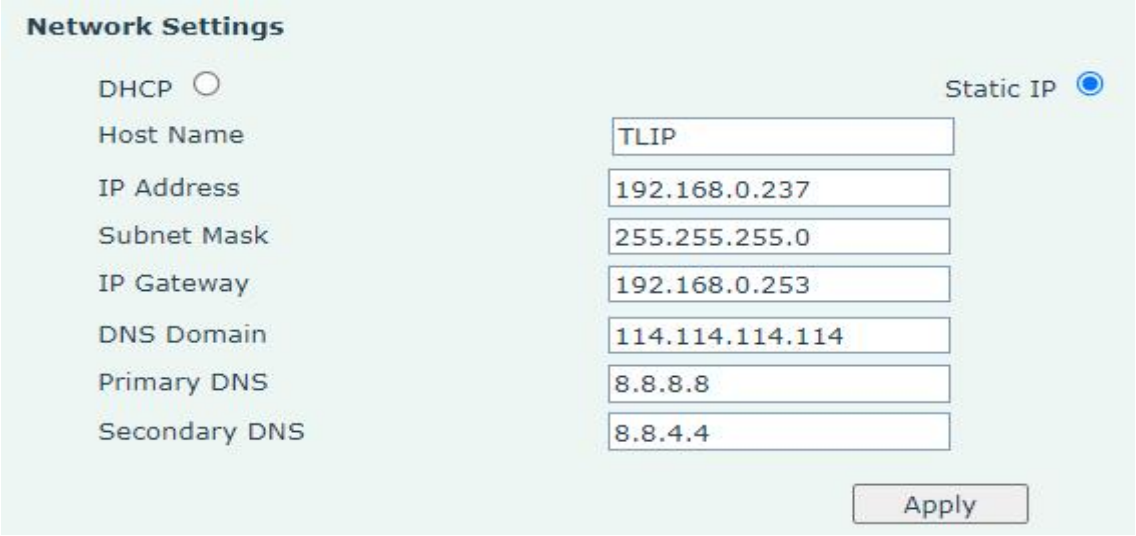
The sub net of LAN port and the device that connects to LAN port must be the same and must be different to WAN port. There is a feature of DHCP server in LAN port, user can enable it for automatically assigning IP address to the device that connected to LAN port.

menu：
Network>LAN>Network Settings>DHCP

Static IP：

User should input the IP address,the net mask and default gateway which are suitable to current network into the fields.

It shows the current status of connection, and the current information such as IP address, Net mask, Gateway, MAC address, IP address of Primary DNS and Secondary DNS. Please click the “Apply” button after finishing.



menu：
Network>LAN>Network Settings>Static IP

5.1.2 802.1X Settings

Enable or disable a user or device to access a LAN or WLAN through an Access port and change the user name and password. Click the "Apply" button when you are done.

menu：
Network>LAN>802.1X Settings

5.2 Qos & VLAN

Voice Quality of Service allows user set the priority of voice packet pass through the router or firewall which connects to Internet. The higher value is set, the higher priority it gets.

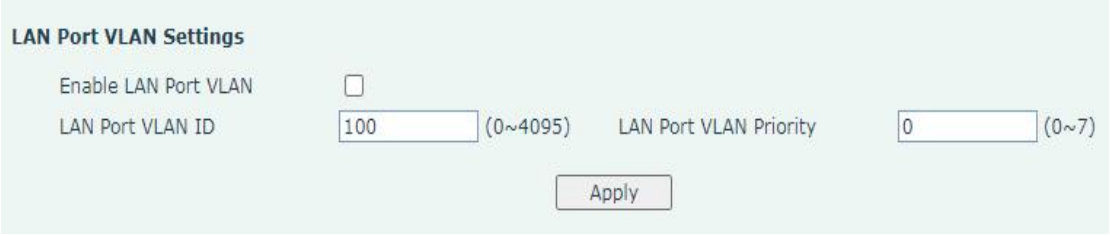
5.2.1 LLDP Settings

To enable/disable Link Layer Discovery Protocol. User can also set the interval for sending information by IP Phone after enabling it.Please click the “Apply” button after finishing.

menu：
Network>Qos & VLAN>LLDP Settings

5.2.2 LAN Port VLAN Settings

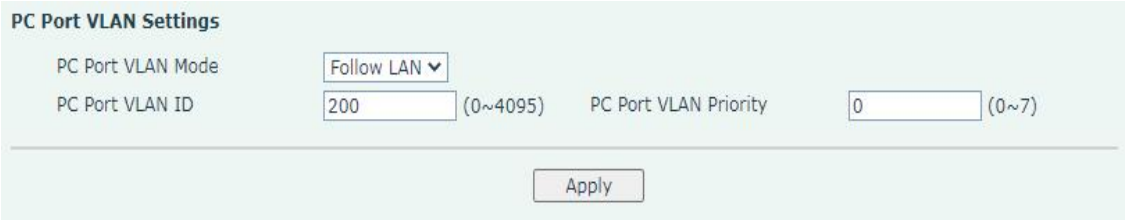
Set network parameters for LAN port. user should refer to current network environment to configure the IP phone properly.Please click the “Apply” button after finishing.



menu：
Network>Qos & VLAN>LAN Port VLAN Settings

5.2.3 PC Port VLAN Settings

Bridge Mode means the WAN port and LAN port are transparent.The IP address of the device which connects to LAN port, will be treated as same to WAN port over Internet. NAT Mode means the IP phone will act as a router, the IP address of LAN port will be translated to the same of WAN port. If user deploy NAT mode, parameters for NAT should be inputted. The LAN port can be disabled by selecting Disable option in LAN Mode. Please click the “Apply” button after finishing.



menu：
Network>Qos & VLAN>PC Port VLAN Settings

5.2.4 (QoS) Settings

To change the port for SIP and RTP connection.

RTP/SIP Quality of Service Allows users to set the priority of RTP/SIP packets through the router or firewall connected to the Internet. The higher the value, the higher the priority.Please click the “Apply” button after finishing.

menu：
Network>Qos & VLAN>(QoS) Settings

5.3 NAT Travel

The sub net of LAN port and the device that connects to LAN port must be the same and must be different to WAN port. There is a feature of DHCP server in LAN port, user can enable it for automatically assigning IP address to the device that connected to LAN port.

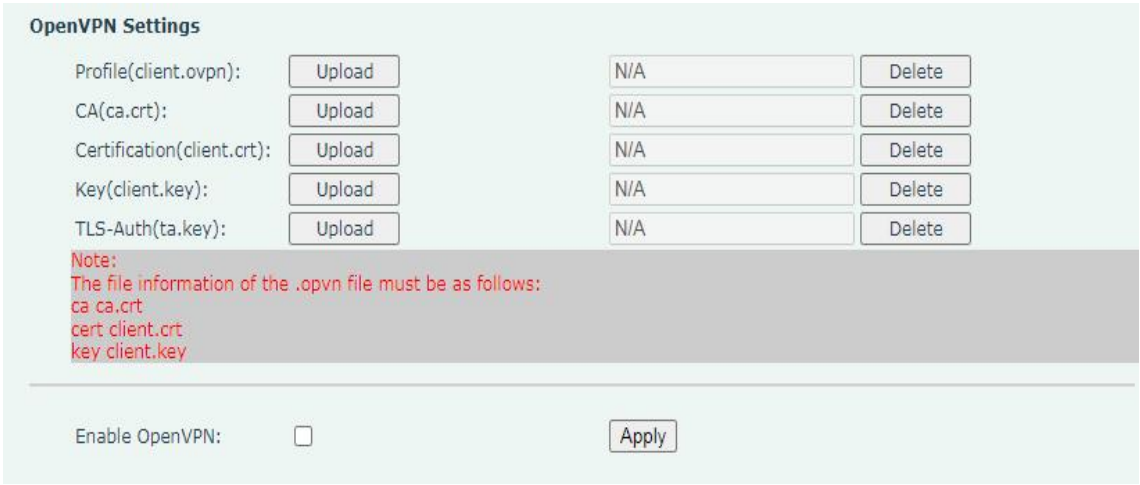
5.3.1 STUN Settings

If SIP phone is behind NAT, user should use a STUN server which is outside current local network, to translate the IP address from the private to public. Setup of STUN server allows SIP phone connect to SIP service provider outside current local network. There are some STUN servers which are free of charge over internet. The famous one is stun.xten.com. Please click the “Apply” button after finishing.

menu：
Network>NAT Travel>STUN Settings

5.4 Open VPN Settings

Use the point-to-point tunnel protocol to connect to the remote VPN server. After the connection is successful, the sub net of the IP phone is the same as the remote VPN server network. The IP phone becomes a member of the remote network. All data transmitted between the remote server and the IP phone is encrypted. Click the "Apply" button when you are done.



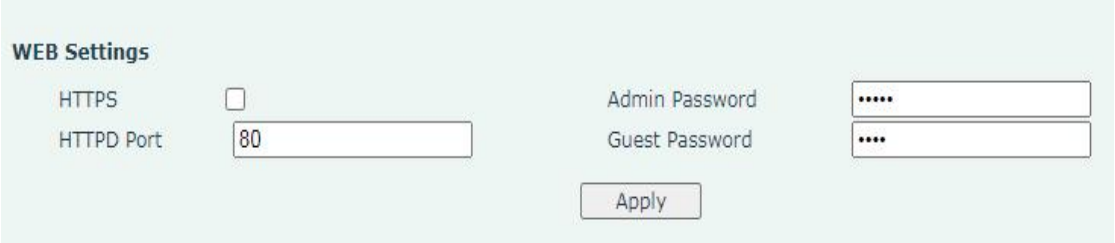
menu：
Network>Open VPN >Open VPN Settings

6 Maintenance

On this page, you can perform WEB management, automatic deployment management, log management, packet capture management, configuration management, and certificate management.

6.1 WEB

Set HTTPS and HTTPD connection values, and change the login passwords of the administrator and customer WEB terminals. Click the "Apply" button when you are done.

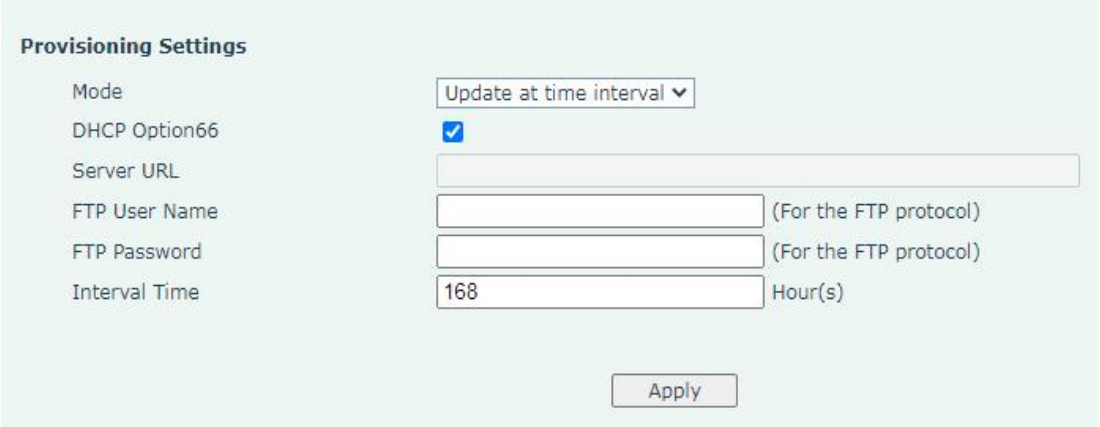


menu：
Maintenance>WEB >WEB Settings

6.2 Auto Provisioning

When user deploys a large number of SIP Phone son network, user can use DHCP Option 66 to automatically instruct the SIP Phone with the provisioning URL.

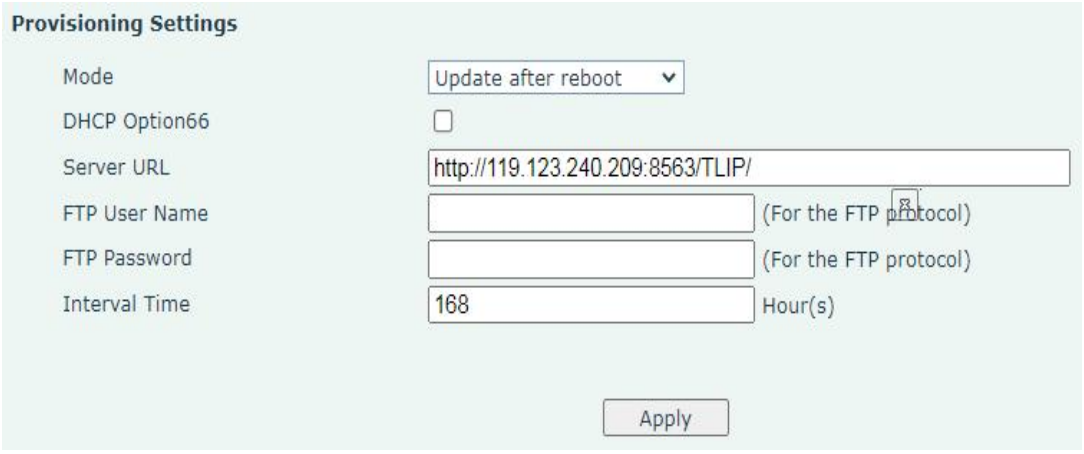
DHCP Server with Option 66 will instruct individual SIP Phone the URL path of individual configuration file that was stored in TFTP Server during SIP Phone acquires the IP address from it. The configuration file is named by its MAC address.The format of file name is something like 2E2ED39BD26D.xml.



menu：
Maintenance>Auto Provisioning >Auto Provisioning Settings

Users can automatically send the provisioning URL to Sip Phone without using DHCP Option 66.

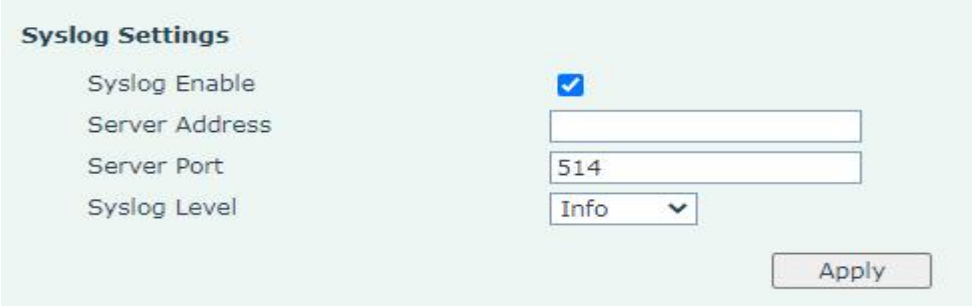
You can also log in to the WEB UI, export the configuration file, and add the modified URL path of the configuration file. The configuration file name is MAC address. The file name format is similar to 2e2ED39bd26d.



menu：
Maintenance>Auto Provisioning >Auto Provisioning Settings

6.3 Syslog

You can write the system logs of the IP phone to the remote log server to run syslog. Enter the IP address of the Log server and click Apply.



menu：
Maintenance>Syslog >Syslog Settings

6.4 Pcap

Pcap intercepts data packets for network interfaces, ports, and protocols. This capture library provides a high - level interface to the capture system. It also supports saving captured packets as local files and reading information from local files.

menu：
Maintenance>pcap>Capture Traces

【Start】Button to start packet capture.
【Stop】After starting packet capture, if packet capture stops, click [Stop] button to Stop packet capture.
【Export】After stopping packet capture, click [Export] button to Export captured packets.

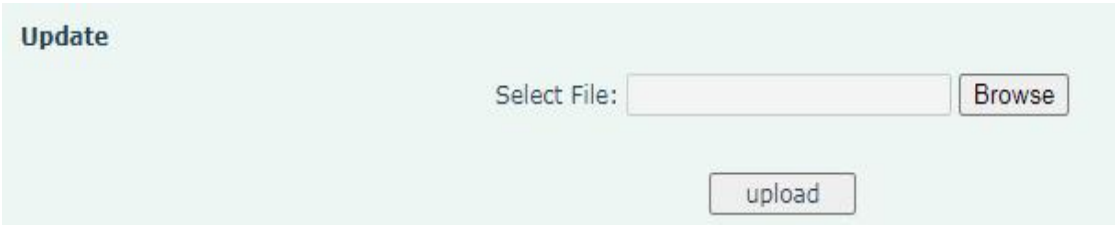
6.5 Config

The configuration page is displayed. You can update, back up, and clear device configurations.

6.5.1 Update

If you need to update the configuration file, click Upload to upload the configuration file to the server. To update the IP phone from the configuration file on the PC, click Apply.

The IP phone will automatically update it's firmware by checking the firmware version via TFTP,FTP or HTTP after rebooting. If the number of version file is larger than current version, IP phone will download the update file and upgrade itself. Otherwise, it will do nothing. The update procedure will take about several minutes, please make sure power supply to IP phone won't be interrupted during update.



menu：
Maintenance>Config>Update

6.5.2 Backup

Click the 【Export】 button to backup the phone configuration.

6.5.3 Clear

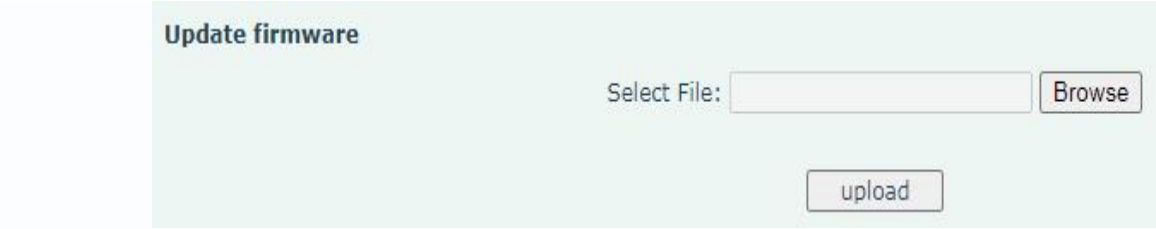
Click the 【Clear】 button to clear the phone configuration.

6.6 Firmware

The firmware upgrade page is displayed.

6.6.1 Update firmware

To upgrade the firmware locally by uploading the firmware from the computer, click the "Upload" button and click the "Apply" button to complete the version update.



menu：
Maintenance>firmware>Update firmware

6.7 Reboot

To restore the default setting. Please click“Apply” button after finishing.

7 Directory

On this page, you can configure the local phone book, remote phone book, import/export phone book, and LDAP.

7.1 Local Phone book

The local phone book setting page is displayed

7.1.1 Adding Contacts

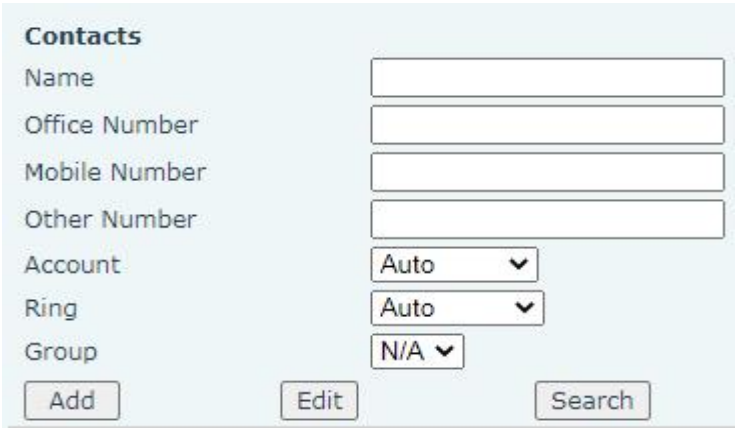
Enter the Contacts setting page. After editing Contacts in Contacts, click the "Add" button to complete the operation of adding Contacts.

7.1.2 Editing Contacts

Go to the Contacts Settings page, and select the contact you want to edit in the Contacts list. After editing, click the [Edit] button to complete the contact editing operation.

7.1.3 Search Contacts

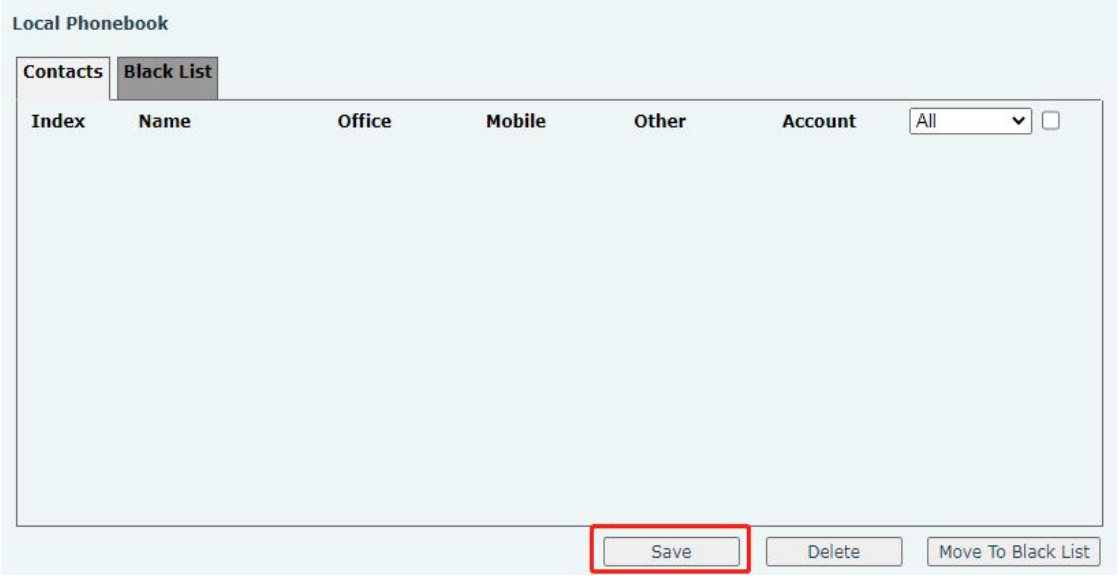
Enter the contact's name, office phone number, mobile phone number or other number and click the "Search" button to complete the Search operation.



menu：
Directory>Contacts>Contacts

7.1.4 Saving Contacts

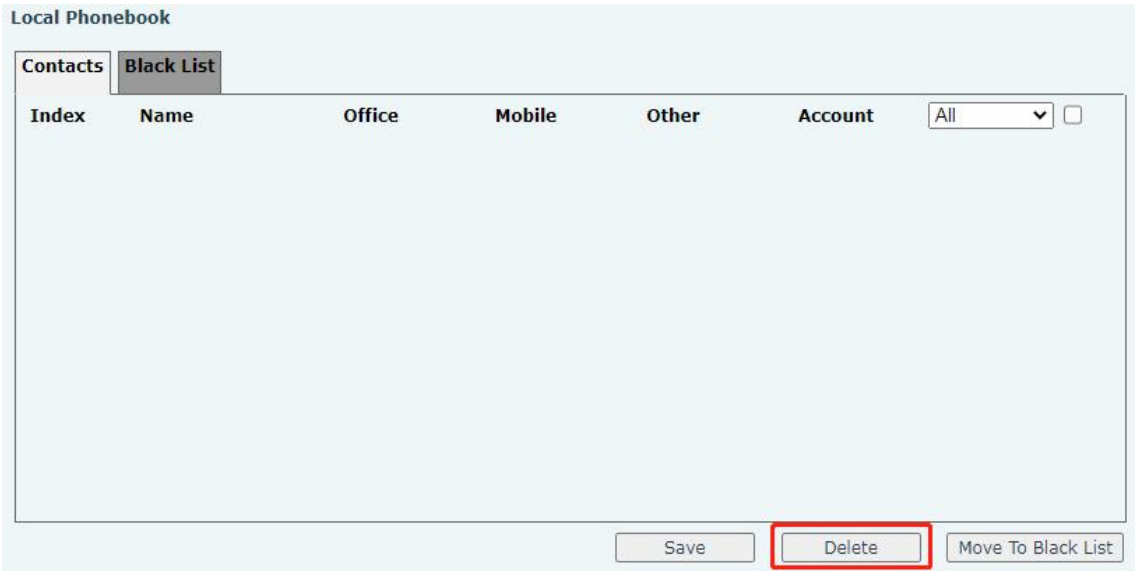
After a user adds/ Edit/ Search a contact, the contact needs to be listed in the local phone book. Click the [Save] button to Save the contact.



menu：
Directory>Contacts>Local Phone book>Save

7.1.5 Deleting Contacts

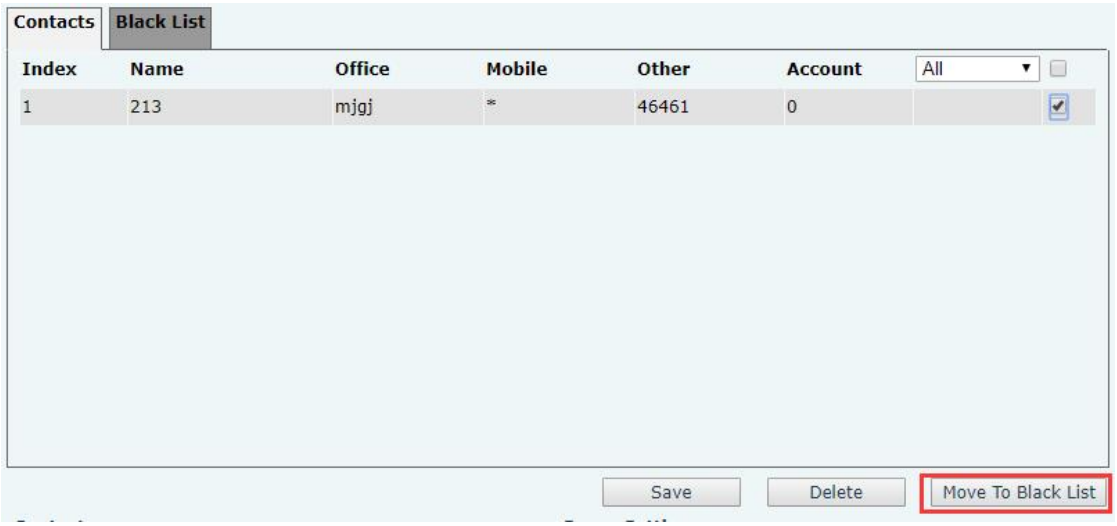
Go to the Contacts Settings page, select the contact you want to Delete in the Contacts list, and click the [Delete] button.



menu：
Directory>Contacts>Local Phone book>Delete

7.1.6 Move to blacklist

Enter the Contacts setting page, select the Contacts To be moved To the blacklist in the Contacts List, and click the "Move To Black List" button.



menu：
Directory>Contacts>Local Phone book>>Move

7.2 Blacklist

The page for setting blacklist contacts is displayed.

7.2.1 Adding Blacklist

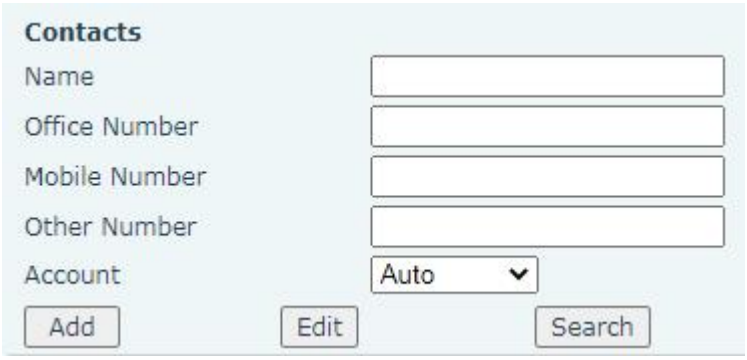
The blacklist setting page is displayed. After selecting a contact from the Blacklist, click Add to finish adding a contact.

7.2.2 Editing Blacklist

The blacklist page is displayed. In the Blacklist list, select the contact you want to edit. After editing, click the "Edit" button to complete the operation of editing contacts.

7.2.3 Search Blacklist

Enter the blacklist name, office phone number, mobile phone number or other numbers, and click the "Search" button to complete the search operation.

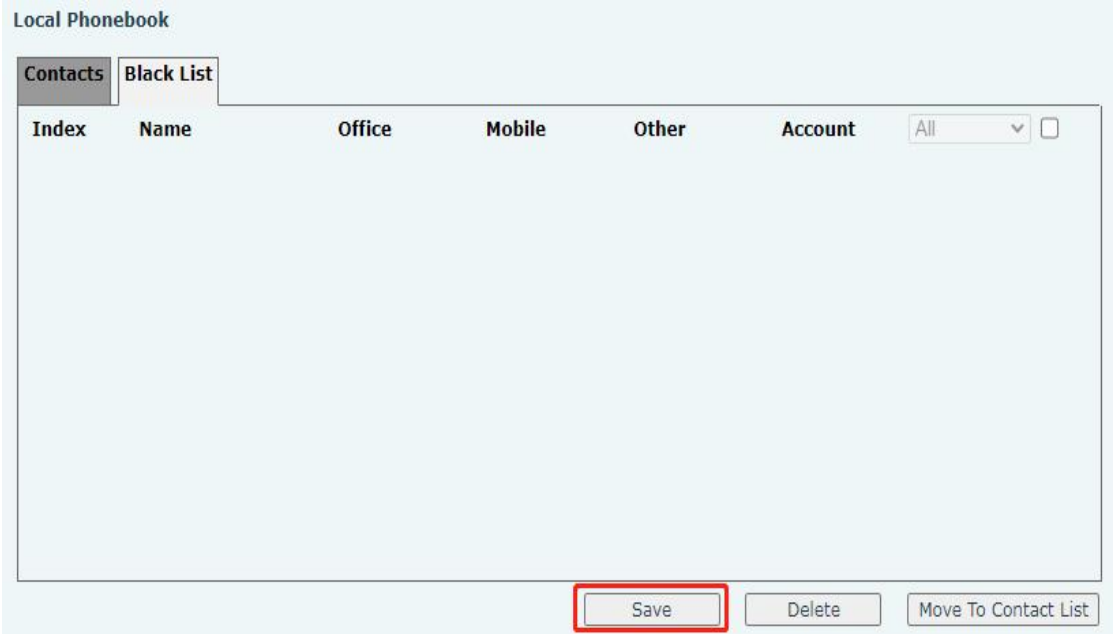


menu：

Directory>Contacts>Blacklist

7.2.4 Saving Blacklist

After you add, edit, or search a blacklist, you need to display the blacklist in the local phone book. Click Save to save the contact.

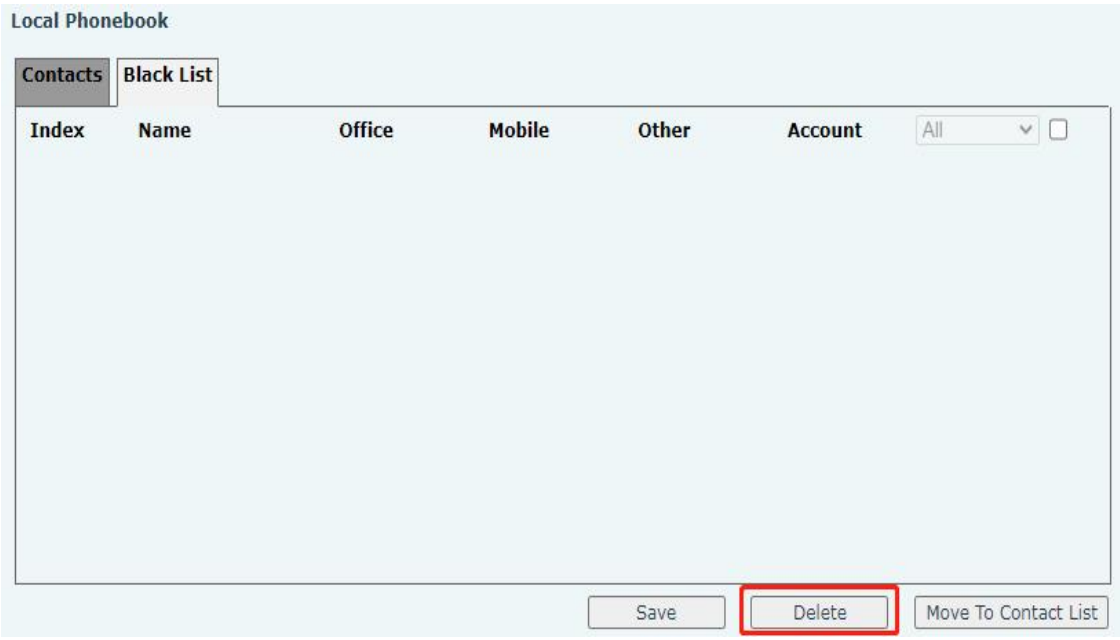


menu：

Directory>Local Phone book>Blacklist>Save

7.2.5 Deleting Blacklist

Enter the blacklist setting page, select the blacklist to be deleted from the Black List, and click "Delete".

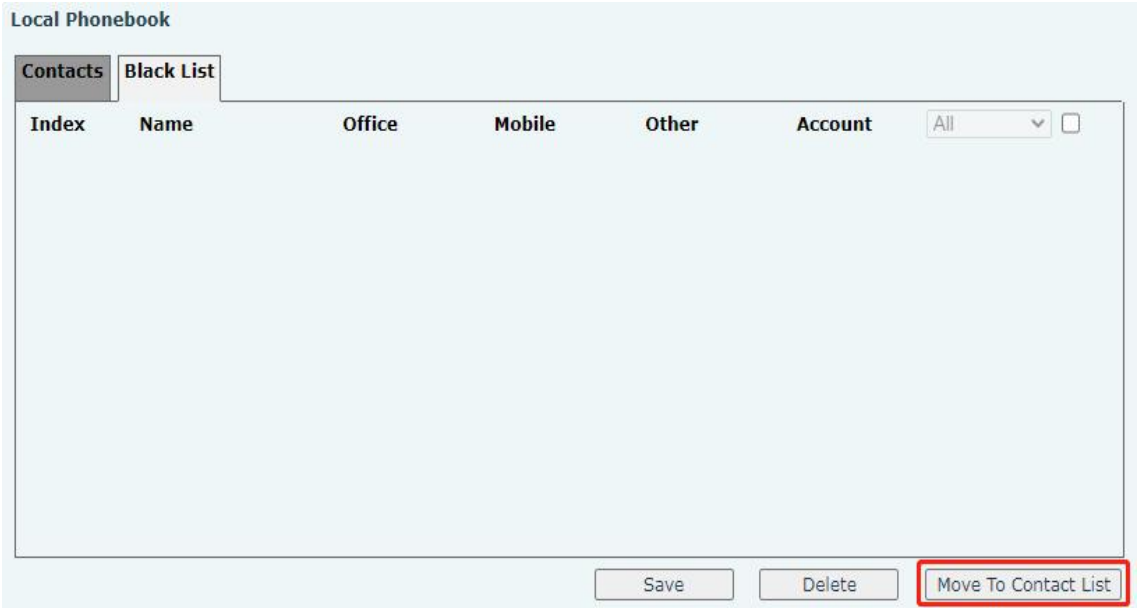


menu：

Directory>Local Phone book>Blacklist>Delete

7.2.6 Removing Blacklist

Enter the Blacklist setting page, select the blacklist To be moved To the Contacts List from the Black List, and click Move To Contacts List.



menu：

Directory>Local Phone book>Blacklist>Remove

7.3 Group

The group setting page is displayed

7.3.1 Adding Group

Enter the group setting page. After editing the group, click the "Add" button to complete the group addition operation.

7.3.2 Editing Group

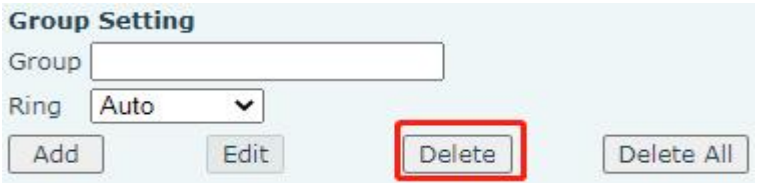
Enter the group setting page, enter the name of the group you want to edit, and click "Edit".

menu：

Directory>Group>Group Setting

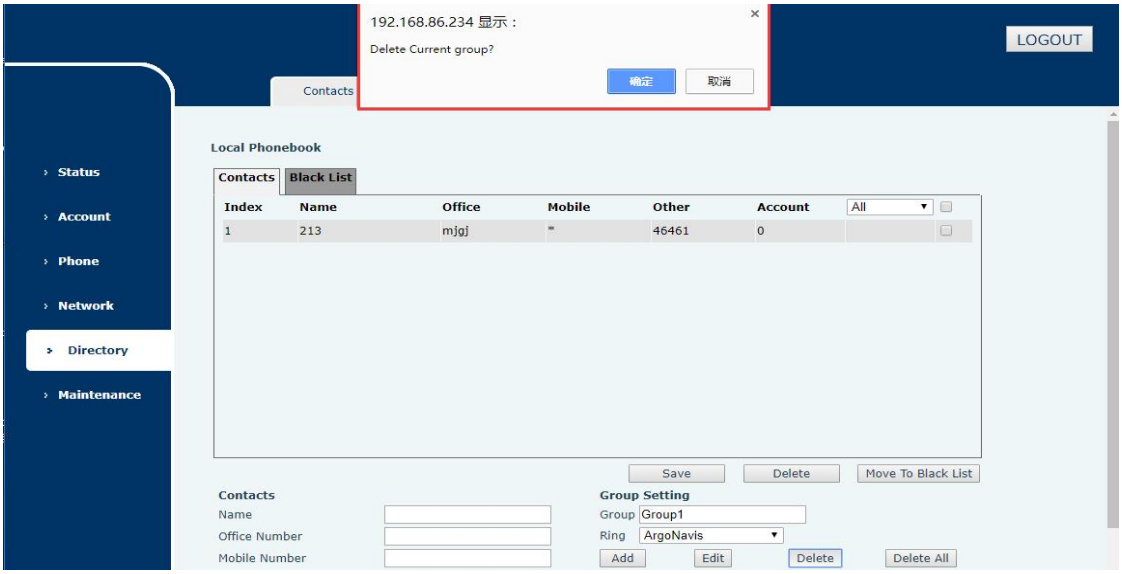
7.3.3 Deleting Group

Enter the group setting page, enter the name of the group to be deleted, and click the "Delete" button.



menu：
Directory>Group>Group Setting>Delete

After clicking the Delete button, a deletion prompt window will pop up. Click OK to delete the group.



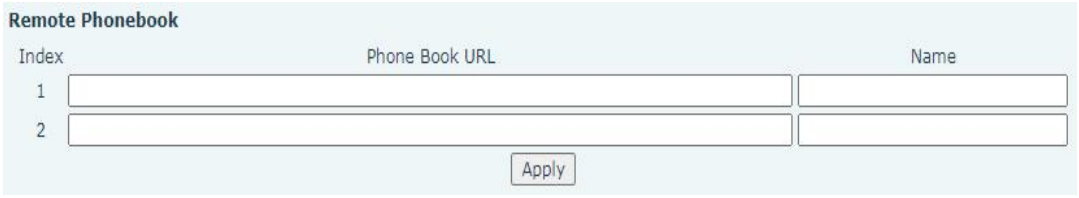
7.4 Import and Export Phone book

On the Import and Export Phone book Settings page, click Export to Export the Phone book, or select a local Phone book file and click Import to Import the Phone book.

menu：
Directory>Contacts>Import and Export Phone book

7.4.1 Remote Phone book

Enter the remote phone book setting page. After completing the remote phone book, click the [Apply] button to complete the remote phone book setting.



menu：
Directory>Contacts>Remote Phone book

8 LDAP

The LDAP Settings page is displayed. After the Settings are complete, click the [Apply] button to complete the LDAP Settings.

menu：
Directory>LDAP>LDAP Settings

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