User Manual

FTA1101

Version 1.0

Revision Record

Version	Date	Description	Applicability
V1.0	2017-3-7	The first edition	

Table of Contents

1. Introduction

Thank you for choosing FTA1101 Wireless VoIP ATA adapter. This ATA adapter will allow user to make ATA call using your broadband connection.

This manual provides basic information on how to install and connect FTA1101 VoIP ATA adapter to the Internet. It also includes features and functions of FTA1101 VoIP ATA adapter components, and how to use it correctly.

Before you can connect FTA1101 to the Internet and use it, you must have a high-speed broadband connection installed. A high-speed connection includes environments such as DSL, cable modem, and a leased line.

FTA1101 VoIP ATA adapter is a stand-alone device, which requires no PC to make Internet calls. This ATA adapter guarantees clear and reliable voice quality on Internet, which is fully compatible with SIP industry standard and able to interoperate with many other SIP devices and software on the market.

1.1 Package Contents

User package includes:

- One FTA1101 VoIP ATA Adapter
- One Ethernet cable
- Two telephone lines

If the above device or accessory is damaged or lost, please contact with your reseller for replacement.

2. Product Overview

2.1 FTA1101

Features/Model	FTA1101
Picture	
Network Ports	2 RJ45 10/100Mbps (WAN/LAN)
FXS Ports	1
SIP Accounts	1
LTE	1
DHCP	Client/Server
Voice Codec	G.711(A-law, U-law), G.729A/AB,G.723,G.722
Management	Integrated IVR, Web browser, Auto-Provision with HTTP/TFTP/HTTPS,TR069, SNMP
FAX	T.30,T.38 Fax

2.2 Hardware Specification

Item		specification
Power Adapter		AC/DC Adapter, AC Input: 100~240V, 50~60Hz
CPU		MT7628
Port	WAN	1 RJ-45 for WAN port (Ethernet 100 Base-T) 1 RJ-45 for LAN port (Ethernet 100 Base-T) 1 RJ-11 for FXS port 1 USB IEEE802.11 b/g/n

Operating Temperature	-5～45℃(41～113℉)
Storage Temperature	-25～85℃(-13～185℉)
Relative Humidity	10～90% (No condensing)
Dimension (L×W×H)	85×85×28mm
Weight (packaging included)	366g
Certification	CE / FCC / RoHS

2.3 Front View and LEDs Introduction

Front View

LED Indicator	Color	Status	Description
Power	Red	Solid	The device network is working normally
		Blinking	The device is power on

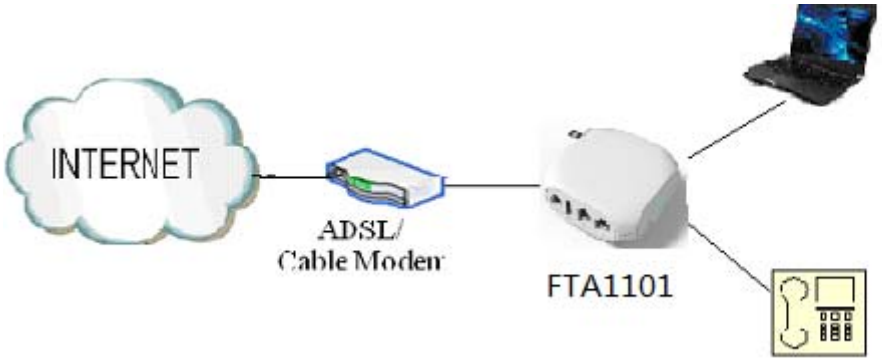
Port	Name	Description
	Reset	Press 10s to set FTA1101 factory settings.
	WAN(RJ-45)	Connect to Internet or router
	LAN(RJ-45)	Connect to PC or build a small LAN network
	PHONE(RJ11)	Connect to traditional phone or FAX Machine

	USB	For phone charger or LTE Dongle

Installation

This chapter introduces how to install FTA1101..

2.4 Connection topography



2.5 Installation Steps

Step 1: Insert one end of the Ethernet cable into the WAN port on the back panel of the FTA1101 and the other end of cable to your existing broadband connection port (e.g. router or Ethernet switch)

Step 2: Connect the LAN port on the back panel of the FTA1101 to your conventional ATA using a standard ATA cabling

Step 3: If need to set up a small LAN network, the FTA1101 should work in router or bridge mode so that you or more people can access to the Internet through FTA1101. Then you need to connect your PC or LAN connection equipment (e.g. Ethernet switch) to the LAN port on the back panel of the FTA1101 using Ethernet cable. (Step 3 is optional depending on your needs)

Step 4: Connect the power adapter to the power port at the back panel of FTA1101 and then plug another end of power adapter into a wall outlet or power strip. The LED of FTA1101 will turn on to indicate operated properly.

Warning: Please do not attempt to use other different power adapter or cut off power supply during configuration or updating FTA1101 VoIP ATA adapter. Using other power adapter may damage FTA1101 VoIP ATA adapter and will void the manufacturer warranty.

3. IVR

3.1 Ways to Configuration

FTA1101 support three ways to configuration.

- Use IVR.
- Use web browser（recommend way）
- Use provision.

3.2 Start IVR

Customer can use the IVR function by referring to the following steps:

Step 1.Connect analog phone to FTA1101's phone port

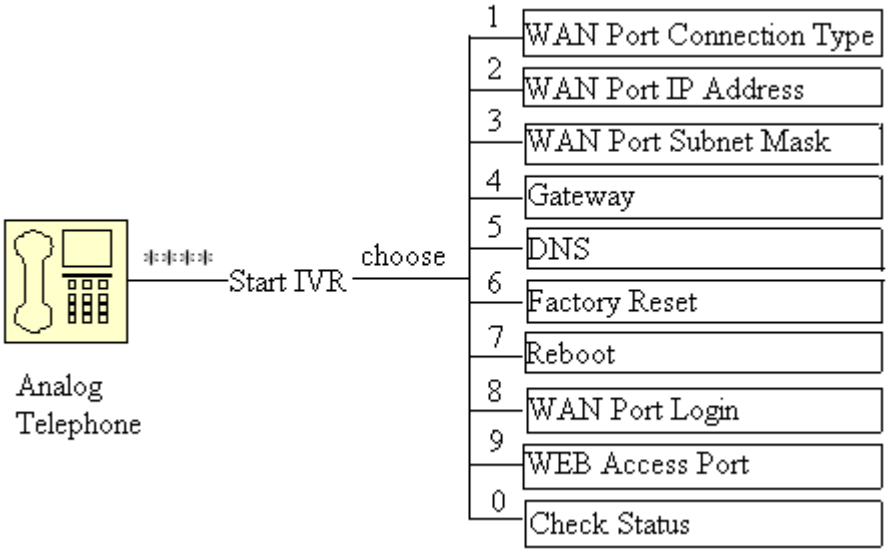
Step 2.Pick up phone and press **"****"** to start IVR, then FTA1101 will report sound prompting **"please enter your option, one WAN Port ……"**.

Step 3.Choose the operation code from 0 to 9, then FTA1101 will report the contents, details are in the following table.

Step 4.Every time after successfully operation, FTA1101 will return to sound prompting **"please enter your option, one WAN Port ……"**.

3.3 IVR Description

Below is the table that lists command, and description.



Operation code	Contents
1	Step 1.Pick up phone and press "****" to start IVR Step 2.Choose "1", and FTA1101 report the current WAN port connection type Step 3.Prompt "Please enter password", user need to input password with end char # if user want to configuration WAN port connection type. ✧ The password in IVR is same as the one of WEB login, user can use phone keypad to enter password directly, and the matching table is in Note 4. ✧ For example: WEB login password is "admin", so password in IVR is "admin" too, user input "23646" to access and then configuration WAN connection port. Step 4.Report "operation successful" if password is right. Step 5.Choose the new WAN port connection type from 1.DHCP and 2.Static Step 6.Report "operation successful", this means user make the changes successfully, and then FTA1101 will return to sound prompting **"please enter your option, one WAN Port ……"**. ✧ Note: add "#" to assume after input password and selected new WAN port connection type ✧ If you want to quit by the wayside, press "*"
2	Step 1.Pick up phone and press "****" to start IVR Step 2.Choose "2", and FTA1101 report current WAN Port IP Address Step 3.Input the new WAN port IP address and with the end char #, ✧ using "*" to replace ".", user can input 192*168*20*168 to set the new IP address 192.168.20.168 ✧ press # key to indicate that you have finished Step 4.Report "operation successful" if user operation properly. ✧ Note: If you want to quit by the wayside, press "**".
3	Step 1.Pick up phone and press "****" to start IVR Step 2.Choose "3", and FTA1101 report current WAN port subnet mask Step 3.Input a new WAN port subnet mask and with the end char # ✧ using "*" to replace ".", user can input 255*255*255*0 to set the new WAN port subnet mask 255.255.255.0 ✧ press # key to indicate that you have finished 3) Report "operation successful" if user operation properly. ✧ Note: If you want to quit by the wayside, press "**".
4	Step 1.Pick up phone and press "****" to start IVR Step 2.Choose "4", and FTA1101 report current gateway Step 3.Input the new gateway and with the end char # ✧ using "*" to replace ".", user can input 192*168*20*1 to set the

	new gateway 192.168.20.1 ✧ press # (pound) key to indicate that you have finished 3) Report “operation successful” if user operation properly. ✧ Note: If you want to quit by the wayside, press “**”.
5	Step 1.Pick up phone and press “****” to start IVR Step 2.Choose “5”, and FTA1101 report current DNS Step 3.Input the new DNS and with the end char # ✧ using “*” to replace “.”, user can input 192*168*20*1 to set the new gateway 192.168.20.1 ✧ press # (pound) key to indicate that you have finished 3) Report “operation successful” if user operation properly. ✧ If you want to quit by the wayside, press “**”.
6	Step 1.Pick up phone and press “****” to start IVR Step 2.Choose “6”, and FTA1101 report “Factory Reset” Step 3.Prompt "Please enter password", the method of inputting password is the same as operation 1. ✧ If you want to quit by the wayside, press “*”. Step 4.Prompt “operation successful” if password is right and then FTA1101 will be factory setting. Step 5.Press “7” reboot to make changes effective.
7	Step 1.Pick up phone and press “****” to start IVR Step 2.Choose “7”, and FTA1101 report “Reboot” Step 3.Prompt "Please enter password", the method of inputting password is same as operation 1. Step 4.FTA1101 will reboot if password is right and operation is properly.
8	Step 1.Pick up phone and press “****” to start IVR Step 2.Choose “8”, and FTA1101 report “WAN Port Login” Step 3.Prompt "Please enter password", the method of inputting password is same as operation 1. ✧ If you want to quit by the wayside, press “*”. Step 4.Report “operation successful” if user operation properly. Step 5.Prompt “1enable 2disable”,choose 1 or 2, and with confirm char #. Step 6.Report “operation successful” if user operation properly.
9	Step 1.Pick up phone and press “****” to start IVR Step 2.Choose “9”, and FTA1101 report “ WEB Access Port” Step 3.Prompt “Please enter password”, the method of inputting password is same as operation 1. Step 4.Report “operation successful” if user operation properly. Step 5.Report the current WEB Access Port Step 6.Set the new WEB access port and with end char #

	Step 7. Report “operation successful” if user operation properly.
0	Step 1.Pick up phone and press “****” to start IVR Step 2.Choose “0”, and FTA1101 report current Firmware version

3.4 Notice

- In Voice Menu, press *(star) to return to up level menu.
- If any changes made in the IP assignment mode, please reboot the FTA1101 to take the settings into effect.
- When enter IP address or subnet mask, input “*” after an address field and add “#” to finish inputting
  For example, to enter the IP address 192.168.1.11 by keypad, press these keys: 192*168*1*11#.
- You can enter the password by phone keypad, the matching table between number and letters as follows:
  - To input: A, B, C, a, b, c -- press ‘2’
  - To input: D, E, F, d, e, f -- press ‘3’
  - To input: G, H, I, g, h, i -- press ‘4’
  - To input: J, K, L, j, k, l -- press ‘5’
  - To input: M, N, O, m, n, o -- press ‘6’
  - To input: P, Q, R, S, p, q, r, s -- press ‘7’
  - To input: T, U, V, t, u, v -- press ‘8’
  - To input: W, X, Y, Z, w, x, y, z -- press ‘9’
  - To input all other characters in the administrator password-----press ‘0’,
    E.g. password is ‘admin-admin’, press ‘23646023646’.
- Press # (pound) key to indicate that you have finished entering the IP address or subnet mask or other settings.
- When assigning IP address in Static IP mode, customer must set IP address, subnet mask and default gateway. If in DHCP mode, please make sure that DHCP Server is available in your existing broadband connection to which WAN port of FTA1101 is connected.

4. Parameters Introduction

4.1 Password

- There are 2-level to access to FTA1101: administrator level and user level, password of different levels are different.
- User with administrator level can browse and set all configuration parameters, while user with user level can set all configuration parameters except SIP1/2 that some parameters can not be changed, such as server address and port. User has different access level with different password.
  - ✧ Default user with administrator level：
    Username:admin, Password：admin
  - ✧ Default user with user level
    Username:admin, Password: user

4.2 URL format

The WEB login URL format is http://xxx.xxx.xxx.xxx. xxx.xxx.xxx.xxx stands for the IP address of LAN or WAN port.

Below are two examples about the URL of LAN port and WAN port.

- **LAN port:**

Default URL of LAN port is: http://192.168.1.1

Note: 192.168.1.1 is FTA1101 default LAN port's IP address

- **WAN port:**

Get WAN port address from IVR function or in Status/Basic webpage

(Assuming the IP is: 192.168.100.18)

The URL: http://192.168.100.18

5. Login to WEB

FTA1101 has an embedded Web server that will respond to HTTP get/post requests. User can use a Web browser like Microsoft's IE to login and then configure FTA1101.

5.1 Login WEB via LAN port

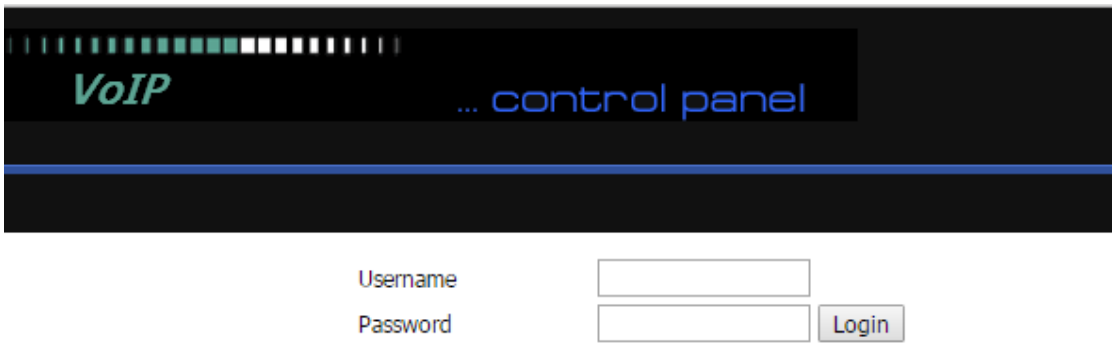
Step 1: Open WEB browser;

Step 2: Input the LAN port URL, default is http://192.168.1.1;

Note:

- ✧ User PC has the IP Address which is in the same segment of LAN port IP address, otherwise you can not open the login page successfully.

Step 3: Once the right http request is entered and sent by the Web browse, the ATA will respond with the following login page.



Step 4: Input the password

Note: The password is case sensitive.

Step 5: First page user will see is Status page.

5.2 Login WEB via WAN port

Step 1: Open WEB browser;

Step 2: Lookup WAN port IP Address from IVR function or from WEB;

Step 3: Input the WAN port URL

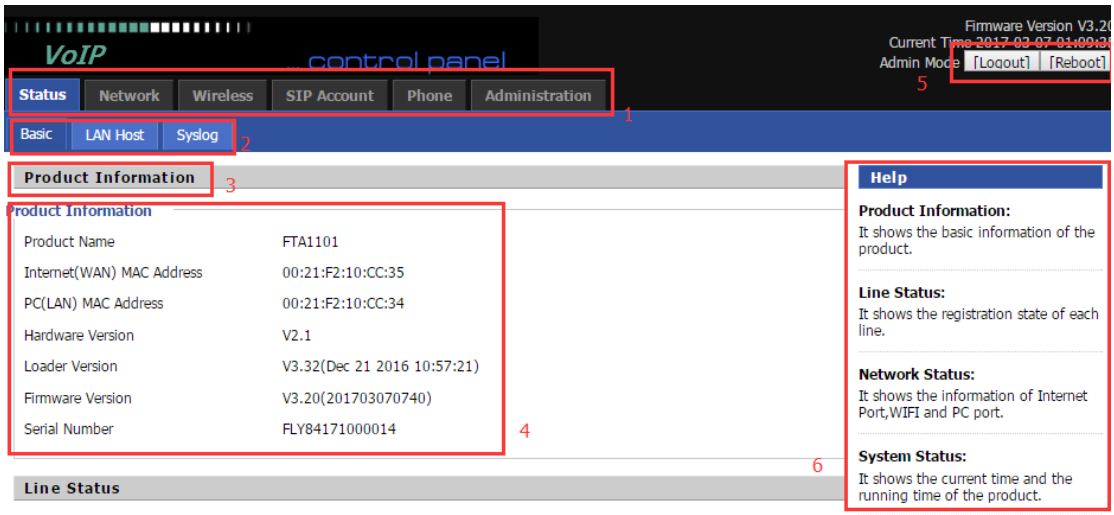
User's PC should have the IP Address which is in the same segment of WAN port IP address, otherwise you can not open the login page successfully.

Step 4: Once the right http request is entered and sent by the Web browse, the ATA will respond with login page.

Step 5: Input the password

Note: The password is case sensitive.

5.3 WEB Interface Introduction



	Name	Description
1	navigation bar	Click navigation bar, many sub-navigation bar will appear in the place 2
2	sub-navigation bar	Click sub-navigation bar to enter to configuration page
3	configuration title	The configuration title
4	configuration bars	The configuration bars
5	main information	Display the firmware version, DSP version, Current Time, and user can change login level (mode) to return to login page by press blue Switch button.
6	Help	Display the main information for configuration; user can get help from it directly.

Please REBOOT to make the changes effective!

Save Cancel Reboot

Save	Every time making some changes, user should press the button to confirm the changes. ◆ After pressing the button, the red notice Please REBOOT to make the changes effective! will appear to notice user to reboot.
Cancel	To cancel the changes.
Reboot	Press it to reboot FTA1101.

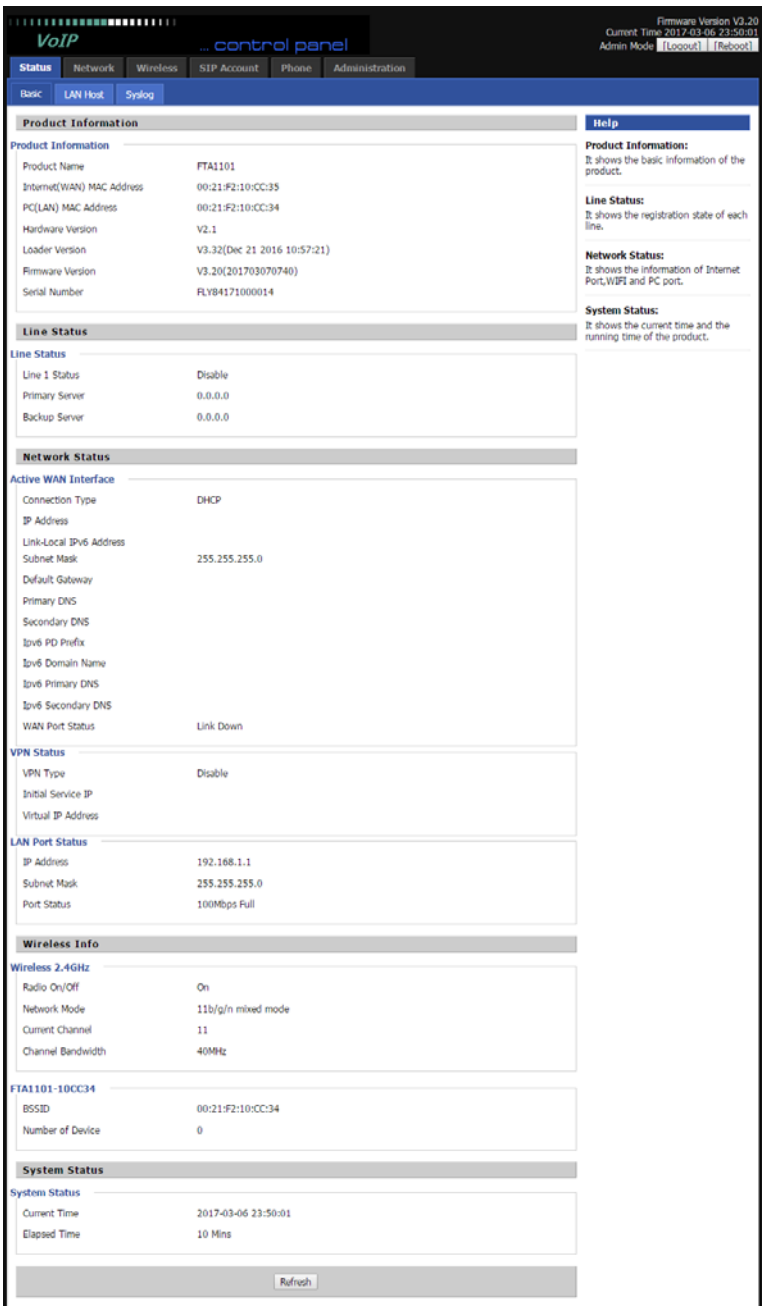
6. Configuration from WEB

6.1 Status

User can view FTA1101 Basic and Syslog. It is the first page which user will see firstly after login to WEB.

6.1.1 Basic

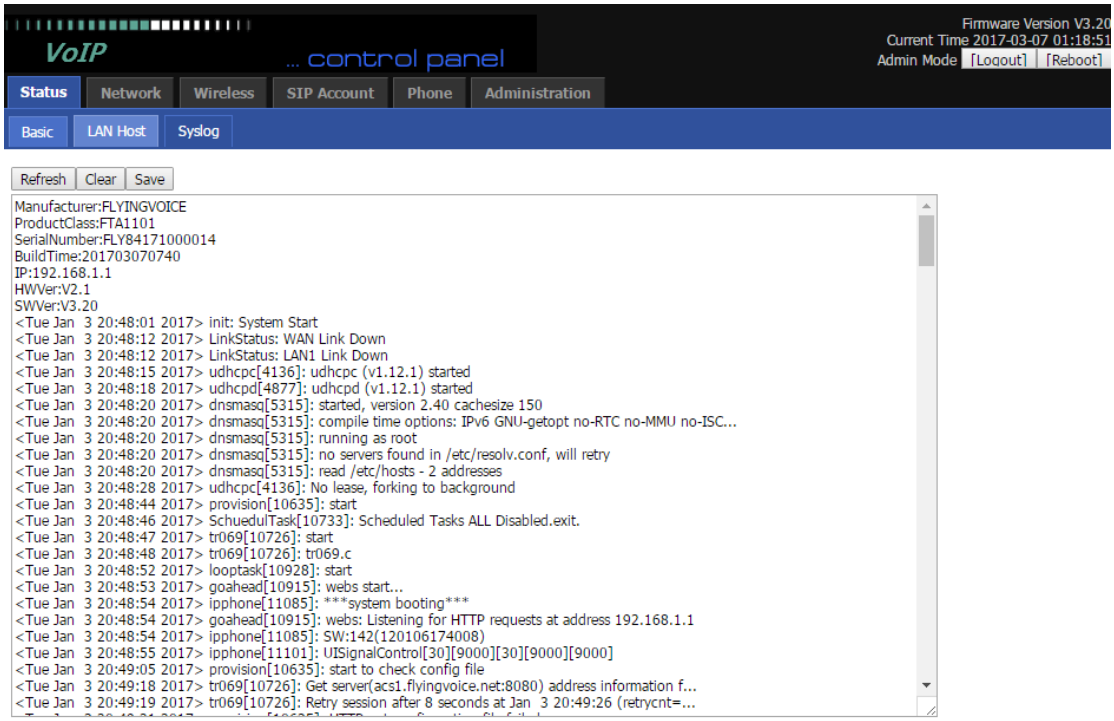
User can see the Product Information, SIP Account Status, Net Status, VPN Status, LAN Status, and System Status.



6.1.2 Syslog

In this configuration Interface，you can view Syslog, which record the FTA1101's important configuration information.

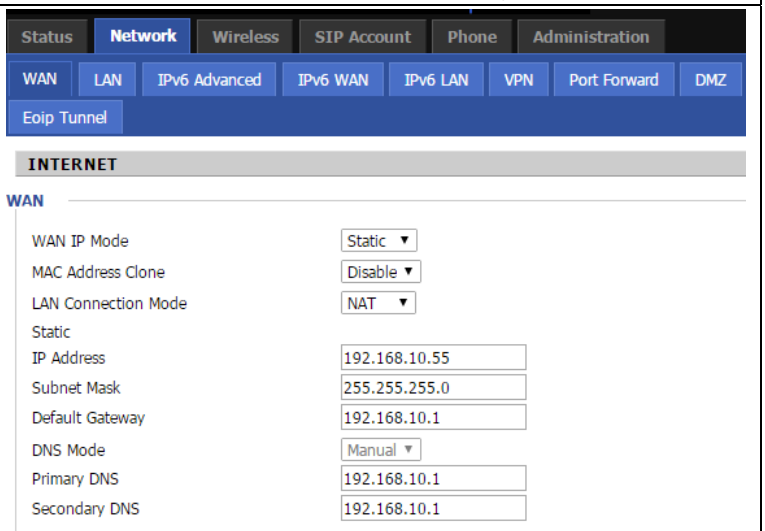
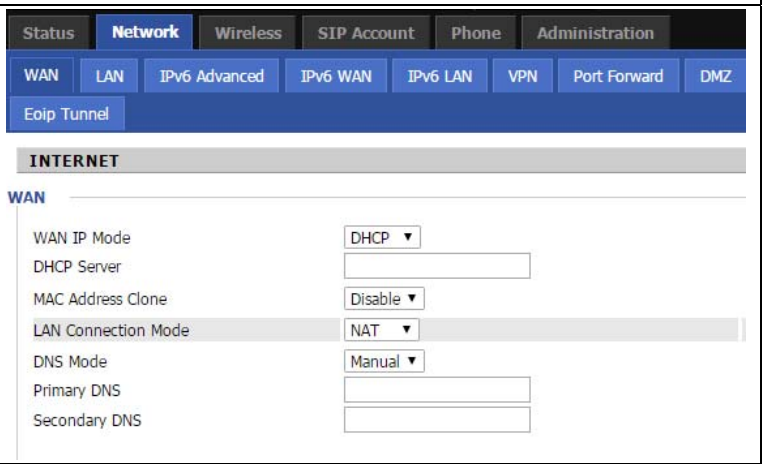
By default, syslog is enabled, and the level is INFO, there are two system log level, INFO and Debug, in Debug level, there will be more information. If you want to change, please go to **Administration/Management** page, **System Log Setting** column to change.

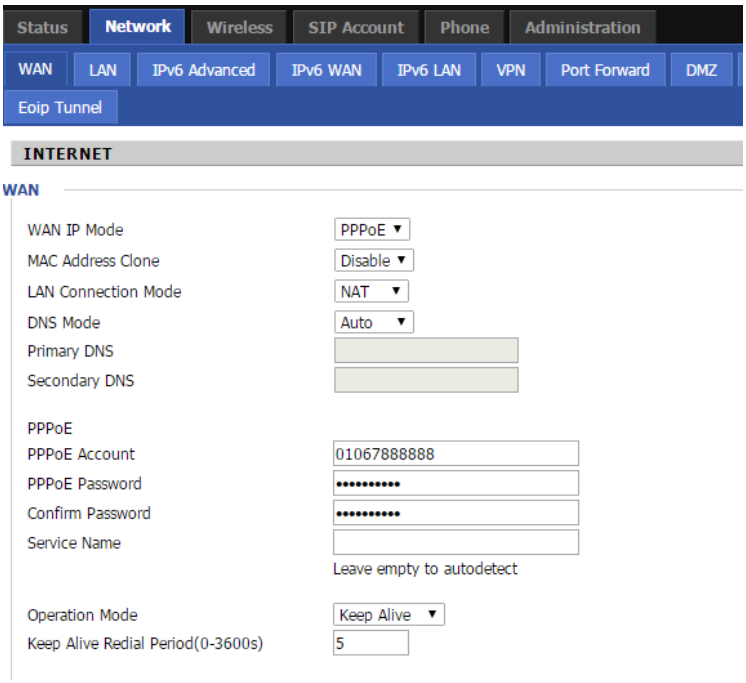


Click Refresh to refresh the system log, and click Clear to empty the current system log and click Save to save the system log to your local PC.

6.2 Network

6.2.1 WAN

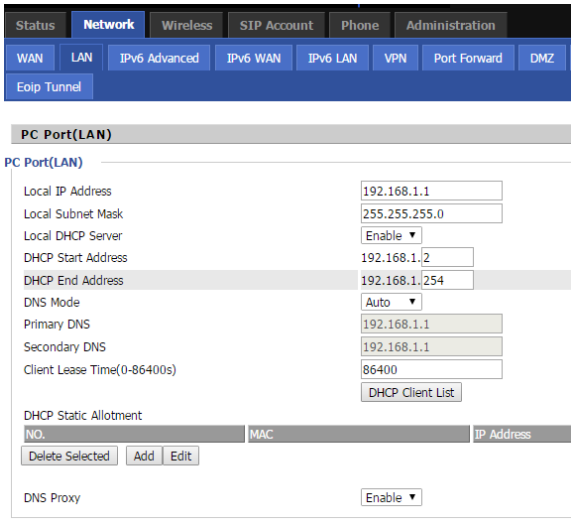
<table>
<tr><td>Introduction</td><td colspan="2">The Internet Setup is to set WAN port mode, IP address and so on.
User can choose one WAN mode from Static, DHCP and PPPoE
Static: Users need to set IP Address, Subnet Mask, Gateway IP and DNS.
DHCP: FTA1101 will auto-configuration the WAN parameter with immediate effect.
PPPoE: Users can enable FTA1101 to connect to Internet by ADSL.</td></tr>
<tr><td rowspan="2">1.Static</td><td>WEB Interface</td><td> 
</td></tr>
<tr><td>Settings Introduction</td><td>1) Set “Static” in the “INTERNET” text.
2) Set IP address, the IP address is the one of the local area network.
3) Set Subnet Mask, it is usually “255.255.255.0” for the local area network.
4) Set Gateway, you can get it from your Administrator.
5) Set DNS, you can get it from your Administrator.</td></tr>
<tr><td rowspan="2">2.DHCP</td><td>WEB Interface</td><td> 
</td></tr>
<tr><td></td><td>1) Set “DHCP” in the “INTERNET” text.</td></tr>
</table>

<table>
<tr><td></td><td>Settings Introduction</td><td>2) DNS type: Manual and Auto
◆ In Manual: user should set the Primary DNS and Second DNS manually.
◆ In Auto: FTA1101 will get the Primary DNS and Second DNS from DHCP Server automatically.</td></tr>
<tr><td rowspan="2">3.PPPoE</td><td>WEB Interface</td><td> 
</td></tr>
<tr><td>Settings Introduction</td><td>1) Set “PPPoE” in the “INTERNET” text
2) Fill the PPPoE account and password in the texts.
3) You should set “manual” in the “DNS Mode” if you set “DNS” by yourself. And then fill the DNS in the two following texts. Generally speaking, you can set “Auto” in the “DNS Mode” and FTA1101 will get “DNS” from DHCP Server automatically.
4) You should click the “Reboot” in the left of the page to reboot the FTA1101 if you see the words “Please REBOOT to make the changes effective!” After Reboot, you can see PPPoE Status and the network parameters in the System Status page if FTA1101 connect successfully.
You can select the “PPPoE” IP Mode if you are family users or your PC connects to Internet by ADSL. You should connect your PC with FTA1101’s LAN. In detail, you can see the following LAN settings.</td></tr>
<tr><td colspan="2">Port Bind</td><td>WAN connection can not be shared between the binding port , and finally bound port WAN connections bind operation will wash away before the other WAN connection to the port binding</td></tr>
</table>

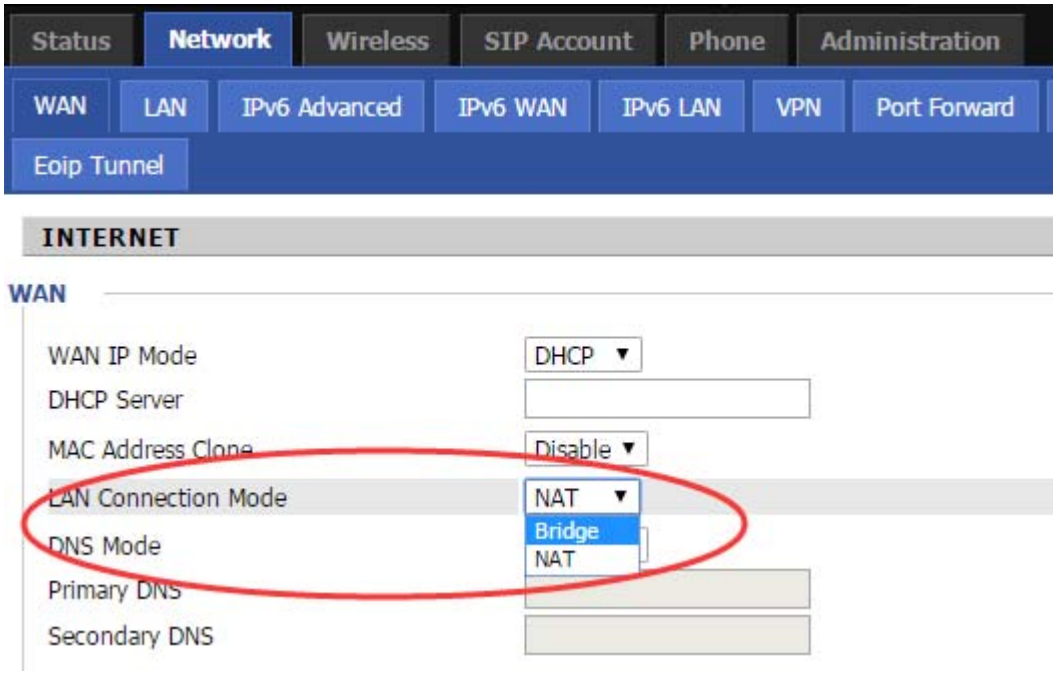
	operation! When you set several different vlans for WAN port, user can use this option to define the LAN port's service, usually please bind Internet VLAN to LAN port.

6.2.2 LAN

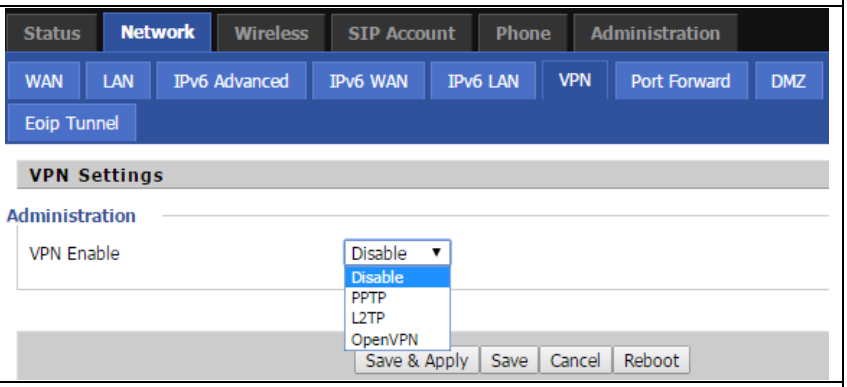
In this page, user can set the IP address of the device and set DHCP server. DHCP server is a kind of network function, FTA1101 can supply DHCP service for the network which is linked with FTA1101's LAN if you enable the DHCP server for FTA1101's LAN.(By default this is enabled).

WEB Interface	Settings Introduction
	1) Local IP Address and Local Subnet Mask Set the LAN port IP address and subnet mask. By default the address is 192.168.1.1 and subnet mask is 255.255.255.0. 2) Local DHCP Server and DHCP Start/End Address If or not enable the DHCP service, and set the start and end address of the DHCP server. By default DHCP server is enabled. 3) DNS Mode and Primary/Secondary DNS Set the DNS mode and address for the DHCP server. If set Auto, the device will get the address from the upstream route, if set Manual, user need enter the primary and secondary DNS. 4) Client Lease Time Set client lease time. 5) DNS Proxy If or not enable DNS proxy. User can use the default settings.

By default, the LAN port works in NAT mode, if user wants to make it work in Bridge mode, please go to Network-->WAN page to set.

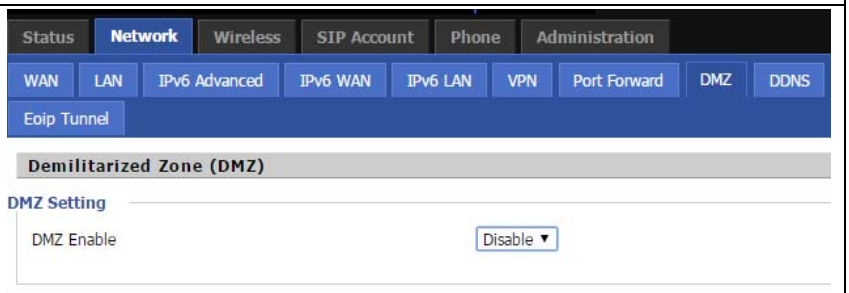


6.2.3 VPN Settings

Generally Introduction	FTA1101 has two kinds VPN: PPTP and L2TP.
WEB Interface	
Settings Introduction	1)VPN Enable: If or not enable VPN, user can select from PPTP and L2TP. 2)Initial Service IP：VPN server IP address 3)User Name: the user name for authentication 4)Password: password for authentication

6.2.4 DMZ

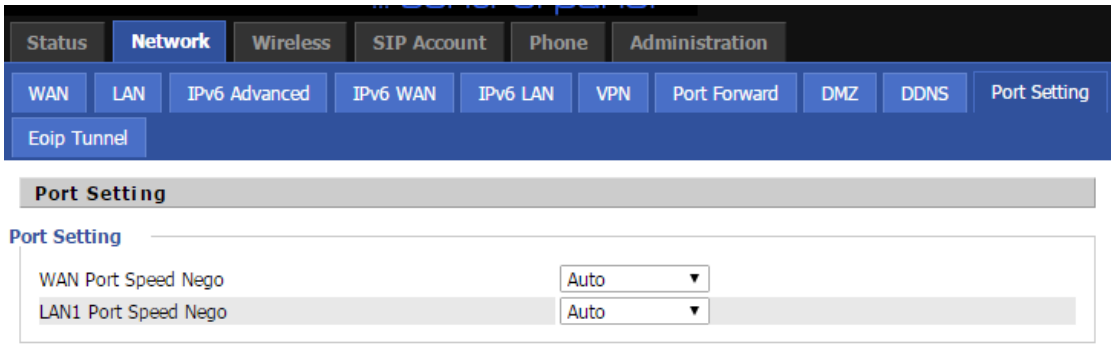
Generally Introduction	◆ FTA1101 will forbid the outside requests if you enable the NAT. However, sometimes it is needed to access the PC which is linked with FTA1101's LAN to use the PC's service. Now, you should use the FTA1101's DMZ to realize it. ◆ Here, DMZ is the same with mapping ports for network equipment. ◆ PC which is linked with FTA1101's LAN can get the requests from

	the LAN by some ports of FTA1101's WAN retransmits. (Your PC is DMZ computer for short as follows.) ◆ User must enable "NAT" mode when want to use DMZ.
WEB Interface	
Settings Introduction	1)DMZ Enable: if or not enable DMZ 2)DMZ Host IP Address: set the IP address of DMZ host For example, the DMZ computer's IP is "192.168.1.2", the DMZ function is that DMZ computer can get the requests from the ports of FTA1101's WAN port.

6.2.5 DDNS

Webpage	Description
	Dynamic DNS provider: Select the DDNS provider. Account: Enter the account user gets from the DDNS provider. Password: Enter the password user gers from the DDNS provider. DDNS: Enter the DDNS domain. Status:Display the DDNS connection status.

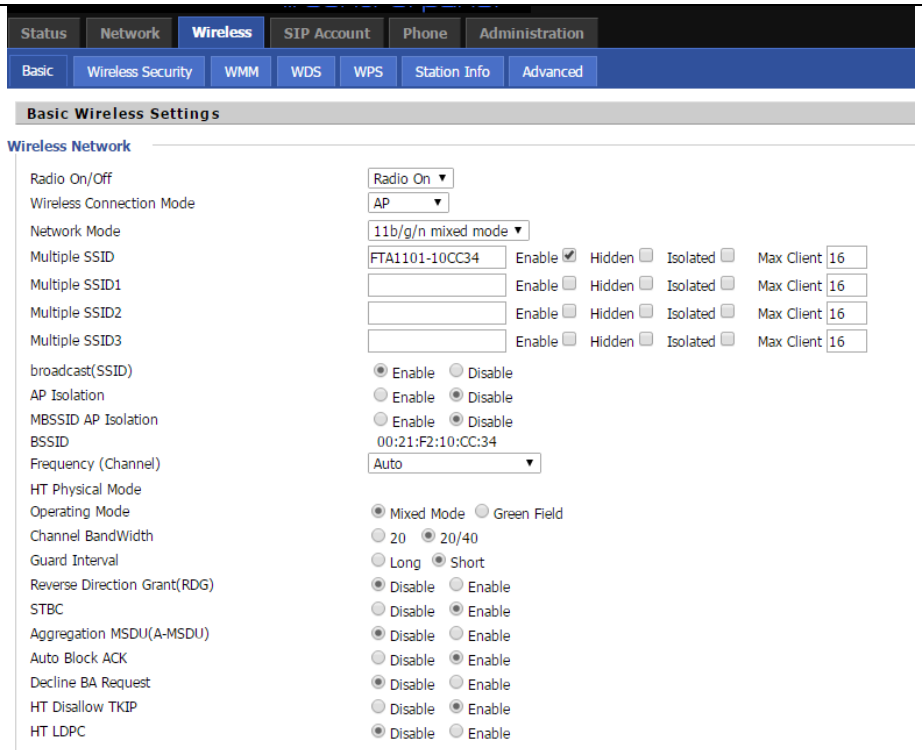
6.2.6 Port Setting



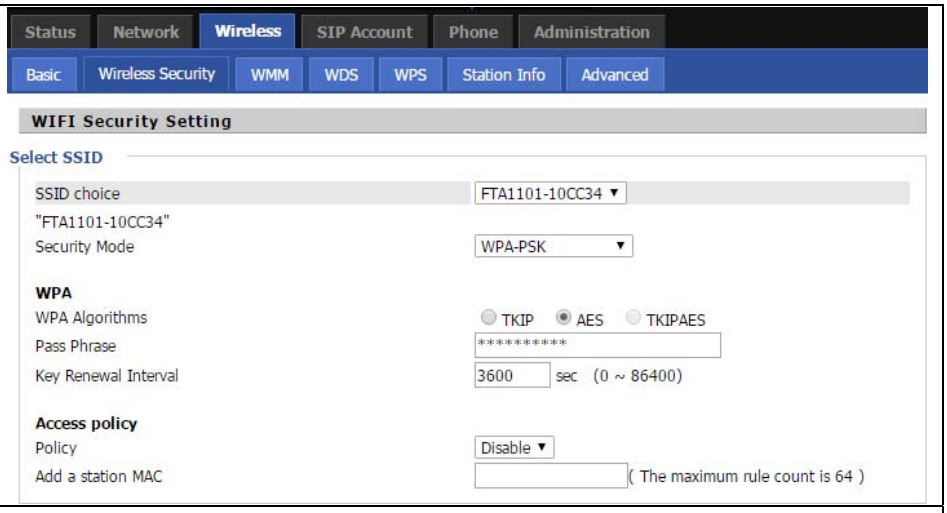
In this webpage, user can set WAN/LAN port speed negotiation, default are Auto, and options are 100Mbps Full, 100Mpbs Half,10Mbps Full and 10Mbps Half.

6.3 Wireless

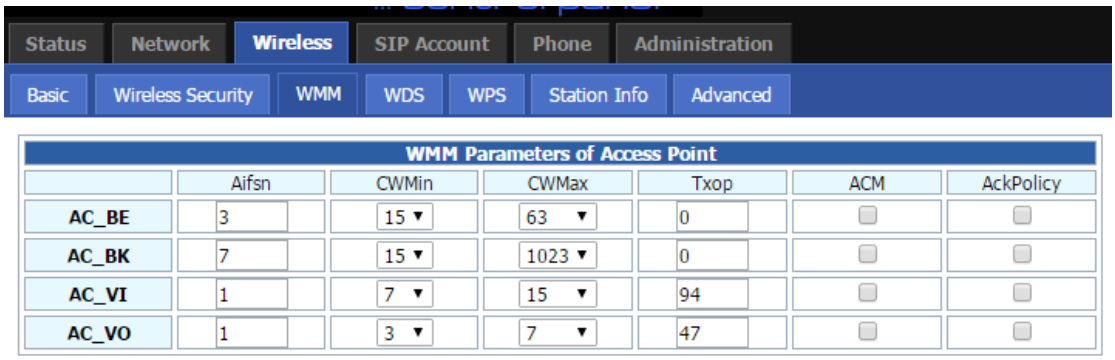
6.3.1 Basic

WEB Interface	
Settings Introduction	1) Radio On/Off: Select Radio On to enable the wireless, select Radio Off to disable wireless. 2) Network Moder: Choose one network mode from the five types. 3) SSID: The name of the wireless name, it can be any text numbers or various special characters. The default SSID is "VWRT510131028". 4) Multiple SSID1-3: User can set multiple SSID. 5) broadcast(SSID): If or not enable SSID broadcast.

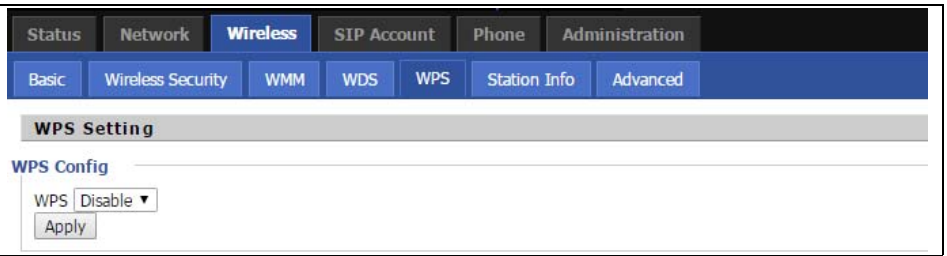
6.3.2 Wireless Security

WEB Interface	
Settings Introduction	1)SSID Choice: Choose one SSID from SSID, Multiple SSID1, Multiple SSID2 and Multiple SSID3. 2) Security Mode: Select an appropriate encryption mode to improve the security and privacy of your wireless data packets. Each encryption mode will bring out different web page and ask you to offer additional configuration.

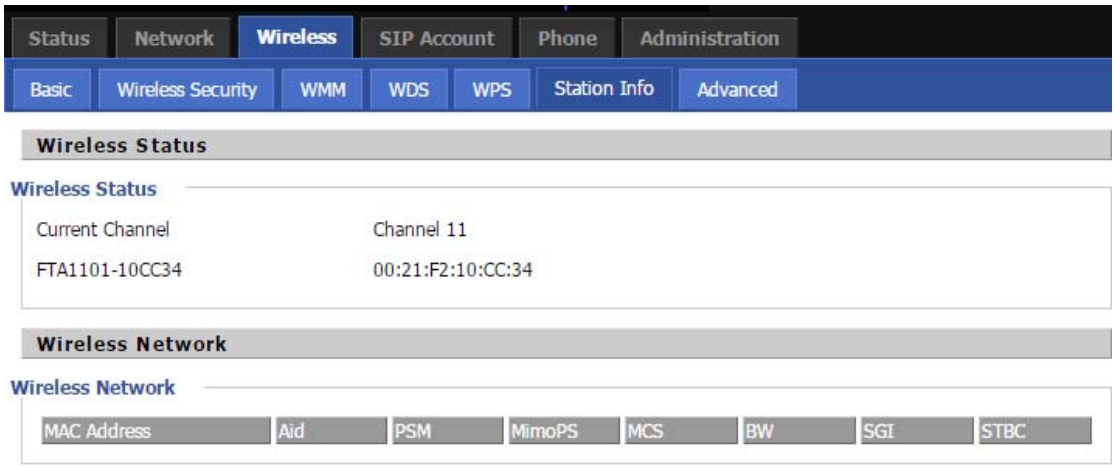
6.3.3 WMM



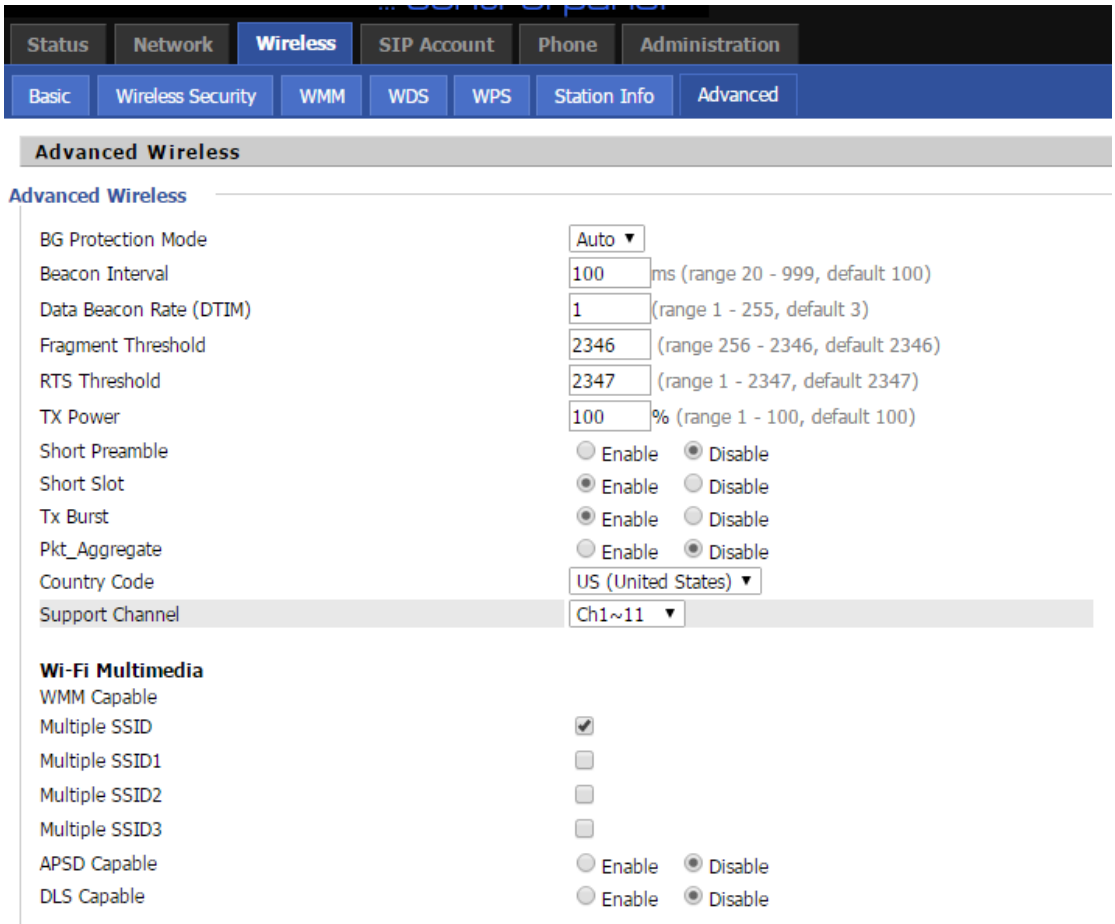
6.3.4 WPS

WEB Interface	
Settings Introduction	1)WPS: If or not enable WPS. 2) Apply Press the button to apply.

6.3.5 Station Info

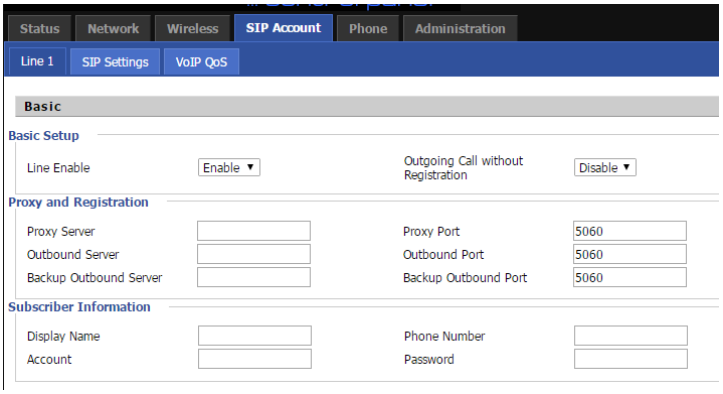
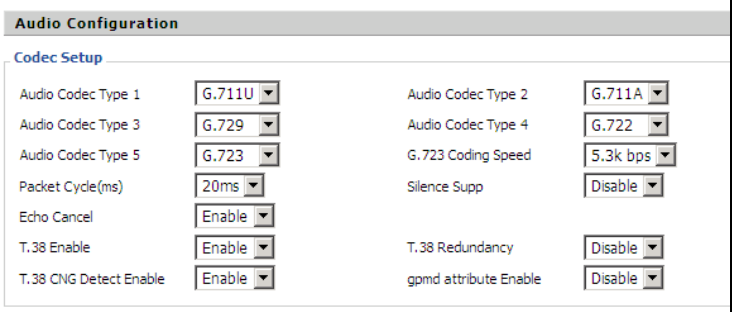


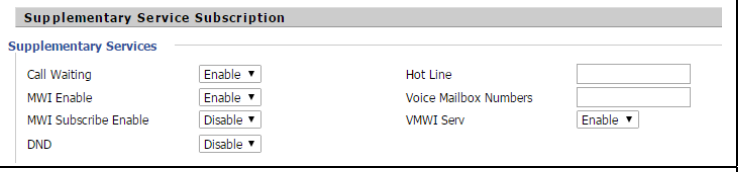
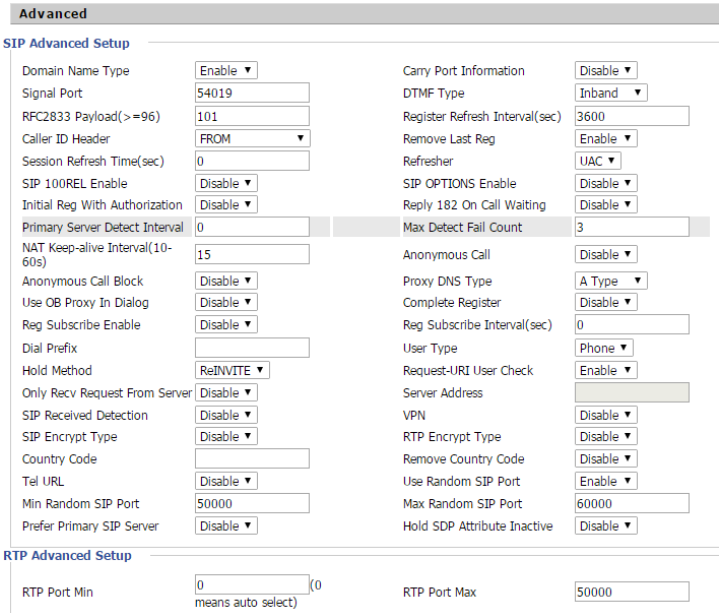
6.3.6 Advanced



6.4 SIP

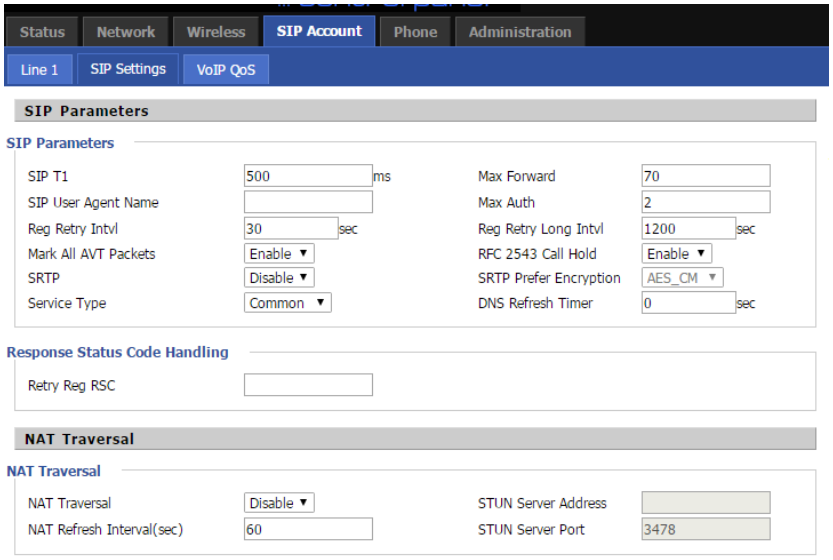
6.4.1 Line1

<table>
<tr><td rowspan="2">Basic</td><td>WEB Interface</td><td> 
</td></tr>
<tr><td>Settings Introduction</td><td>1) Line Enable: If or not enable FXS1
2) Peer To Peer: If or not enable Peer To Peer on FXS1 port.
3) SIP Proxy: The IP address of SIP Server.
4) SIP Proxy Port: The port which SIP Server supports for VOIP service, default is 5060.
You should enable “Carry Port Information” in the Other Settings page if the SIP Server Port is not 5060 or SIP messages need to carry port information.
5) Outbound Proxy: outbound Proxy ip or domain name.
6) Outbound Proxy Port: outbound Proxy’s Service port.
7) Backup Outbound Proxy: an backup outbound proxy IP or domain name.
8)Backup Outbound Port: backup outbound Proxy’s Service port
9) Display Name: The number will display in callee.
10) Phone Number: Number of telephone provided by SIP Proxy.
11) Account: Account of telephone provided by SIP Proxy.
12) Password: Enter the password of the account.</td></tr>
<tr><td rowspan="2">Audio Configuration</td><td>WEB Interface</td><td> 
</td></tr>
<tr><td></td><td>1) Audio Codec: There are 5 kinds of Audio Coding Modes:</td></tr>
</table>

	Settings Introduction	G.711A, G.711U, G.722,G.729 and G.723. And G.723 support 5.3kbps and 6.3kbps coding speed. 2) Packet Cycle(ms): the RTP packet cycle time 3)Silence Supp Enable: if or not enable silence 4)Echo Cancel: if or not enable echo cancel 5)T.38 Enable: if or not enable T.38 6)T.38 Redundancy: if or not enable T.38 redundancy. 7)T.38 CNG Detect Enable: if or not enable CNG detect. 8)gpmd attribute Enable: if or not enable gpmd attribute.
Supplementary Service Subscription	WEB Interface	
	Settings Introduction	1)Call Waiting: if or not enable call waiting, by default it is enabled. 2)Hot Line: Enter the hot line number, after user configure this, the device will dial out the hot line number automatically when user pick up the handset or press the speaker button. If you want to delay some seconds, please add delay time with T behind the number, for example, 511T4, the device will delay 4 seconds before dial the number when you pick up the handset. 3)MWI Enable: If or not enable MWI. 4)Voice MailBox Numbers: enter the voice mail box number. 5)DND: If or not enable DND.
Advanced Setup	WEB Interface	
		1) Domain name Mode: If or not use domain name in the SIP URI.

	Settings Introduction	2). Carry Port Information: If or not carry Port information in the SIP URI. 3) Signal Port: The local port of SIP protocol, default is 5060. 4) DTMF Type: choose the DTMF type from IN_band, RFC2833 and SIP INFO. 5) RFC2833 Payload (>=96): User can use the default setting. 6) Register Refresh Interval (Second): The interval between two normal Register messages. You can use the default setting. 7). RTP Port: FTA1101 will select idle port for RTP if you set "0", otherwise FTA1101 use the value you set. Generally speaking, set "0". 8) Cancel Message Enable: when you set enable, an unregistered message will be sent before registration, while you set disable, unregistered message will not be sent before registration. You should set the option for different Proxy. 9) Session Refresh Time: Set the session refresh time. 10)Refresher: Select from UAC and UAS. 11)Prack Enable:If or not enable prack. 12)SIP Options Enable: If or not enable sip options. 13)Primary SER Detect Interval:Set the primary server detect interval. 14)Max Detect Fail Count: The max detect fail account. 15)Keep-alive interval (10-60s): the interval that we send an empty packet to Proxy. 16)Anonymous Call: If or not enable anonymous call. 17)Anonymous Call Block: If or not enable block anonymous call function. 18)Proxy DNS Type: Select from A Type and DNS SRV. 19)Use OB Proxy In Dialog:If or not use OB proxy in dialog. 20)Reg Subscribe Enable:If or not enable registration subscribe. 21)Dial Prefix: Define the prefix of the phone number you dialed. 22)User Type:Define the user type, options are IP and Phone. 23)Only Recv Request From Server:If enable this option, FTA1101 will only receive the call from the same SIP server. 24)Request URI user check:If or not enable request URI user check. 25)Hold Method:Select the hold method, options are ReINVITE and INFO.

6.4.2 SIP Settings

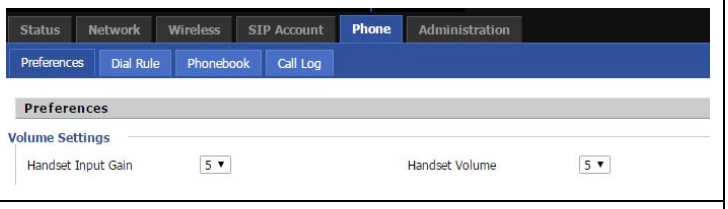
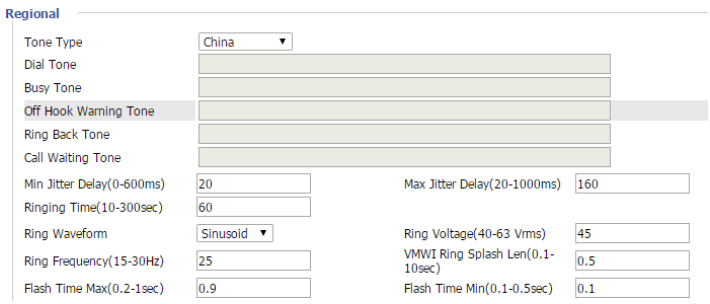
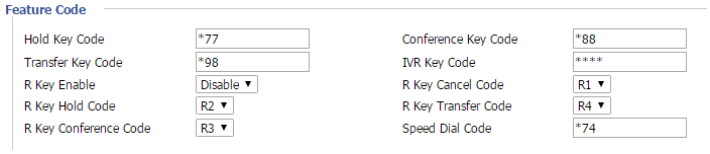
WEB Interface	
Settings Introduction	1) SIP Parameters: This page displays the SIP parameters. 2) NAT Traversal If you want traverse NAT/Firewall, please enable NAT Traversal and fill in the corresponding parameters.

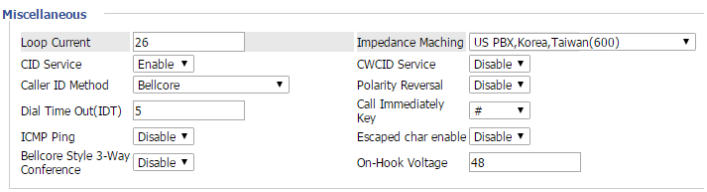
6.4.3 VoIP QoS

Some ISP supply QoS services. The QoS services can make the best of improving the quality of Voice application. You can get the settings from the ISP if they supply QoS services. Please connect with them if you need it.

6.5 Phone

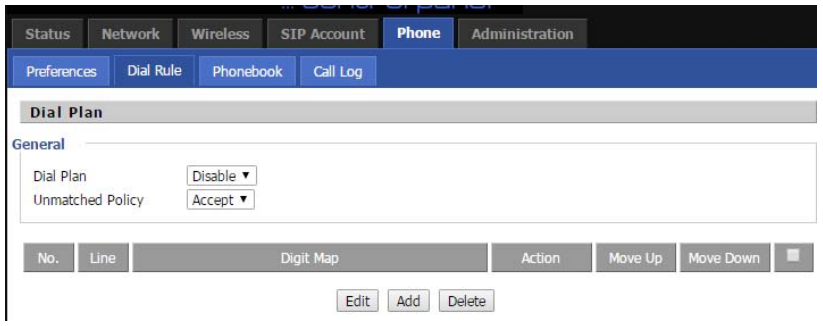
6.5.1 Preferences

Preferences	WEB Interface	
	Settings Introduction	1) Handset Input Gain: adjust the input gain from 0-7. 2) Handset volume: adjust the output volume from 0-7.
Regional	WEB Interface	
	Settings Introduction	In this page, user can define tone type and set some parameters of the FXS1 port.
Features	WEB Interface	
	Settings Introduction	All Forward:If or not enable all call forward; Busy Forward:If or not enable call forward when FXS1 port is busy; No Answer Forward: If or not enable call forward when FXS1 port does not answer the call.
Call Forward	WEB Interface	
	Settings Introduction	All Forward:Enter the all call forward destination number. Busy Forward:Enter the busy call forward destination number. No Answer Forward:Enter the no answer forward destination number. No Answer Timeout:Define the no answer timeout time.
Feature Code	WEB Interface	
	Settings	The feature code for call hold, conference, transfer and IVR,

	Introduction	use can also user R key to perform these functions, for example, press R and then press 2 to hold a call.
Miscellaneous	WEB Interface	
	Settings Introduction	Codec Loop Current: Set the value for codec loop current. Impedance Maching: Set impedance value. CID Service:If or not enable caller ID service. CWCID Service:If or not enable call waiting caller ID service. Dial Time Out:Define how long the device waits before sending out the phone numbers. Call Immediately Key:Add this key after the phone numbers, FTA1101 will dial the numbers immediately. ICMP Ping:If or not enable ICMP ping. Escaped char enable:If or not enable escaped char.

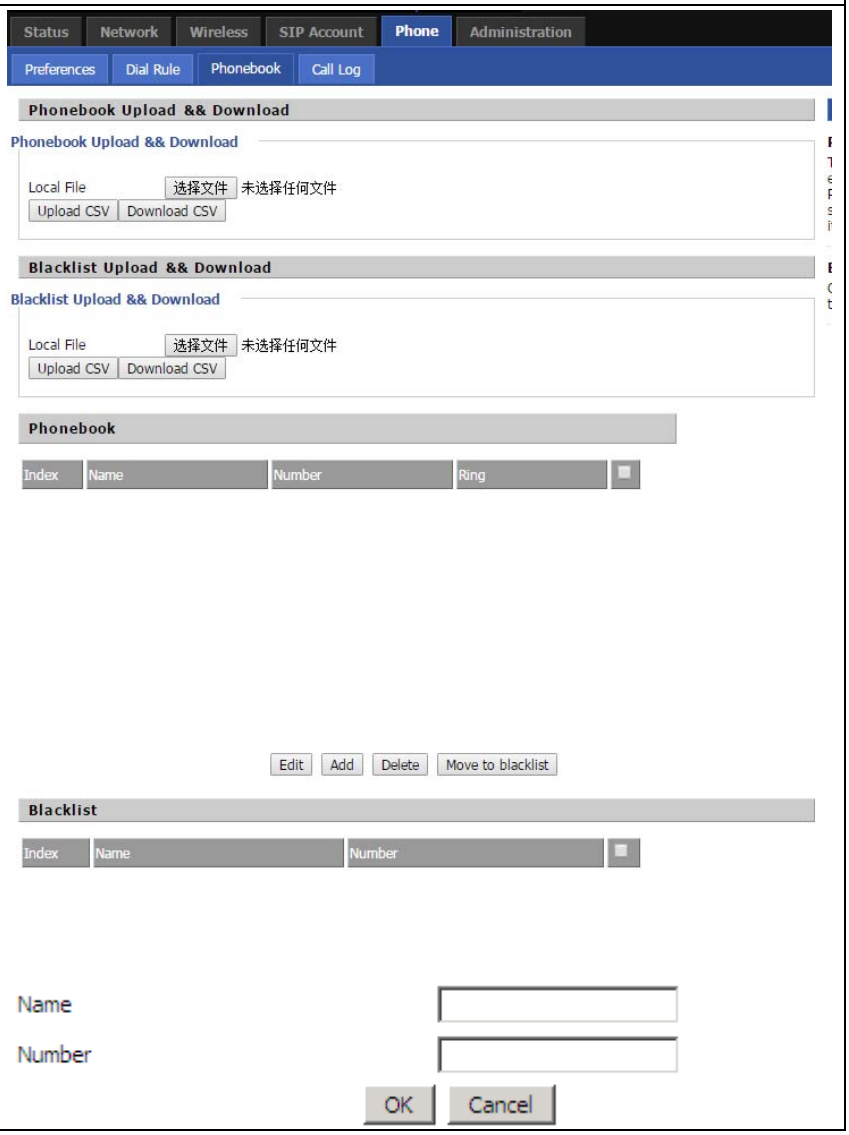
6.5.2 Dial Rule

If you set a shortcut number for a dial rule, when you dial shortcut number, FTA1101 will realize whole dial rule immediately.

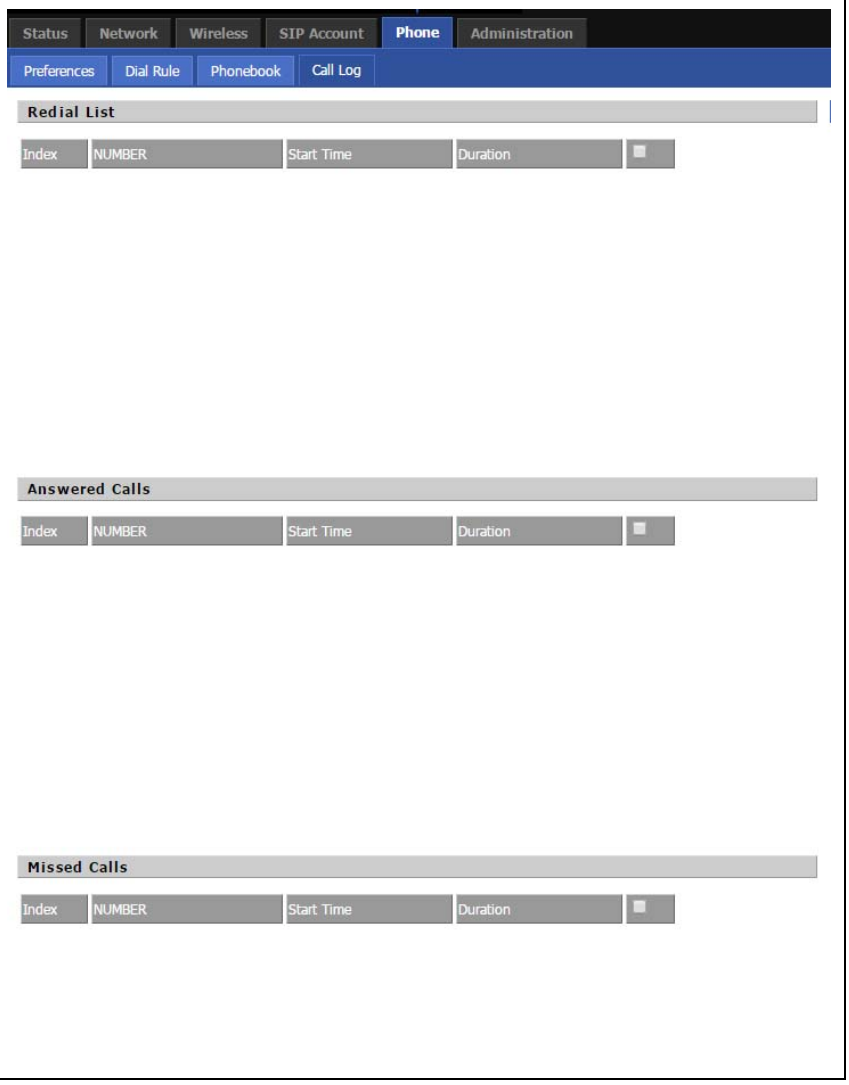
WEB Interface	 Picture 1  Picture 2
Settings Introduction	Dial Plan:If or not enable dial plan. Edit:Click it to edit the dial rule user selected. Add:Click it to add a new dial rule. Delete:Click it to delete the dial rule user selected. After click Add, the webpage will show as Picture 2.

	FXS: Select which FXS port uses the rule. Digit Map: The digit map sting of dial plan, details please refer to dial plan user manual. Action:Choose the action, when user's dial string matches the dial rule, the device's action, deny or dial out.

6.5.3 Phonebook

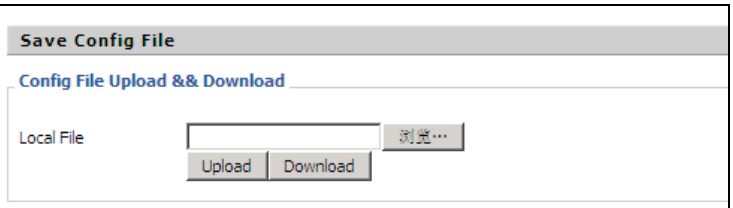
Settings Introduction	In this configuration interface, you can set the blacklist, enter the name and phone number you wish to block. User also can upload a piece of blacklist file. If user set a black number 2222, 2222 can not call you, but you can call 2222. Enter the name and Number you can set a blacklist.
WEB Interface	

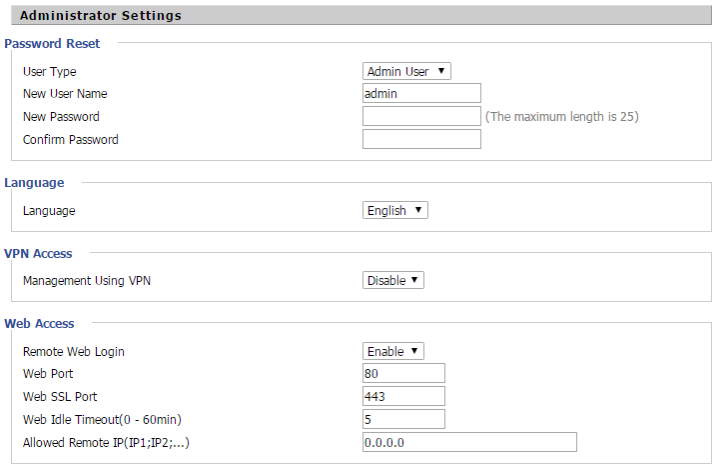
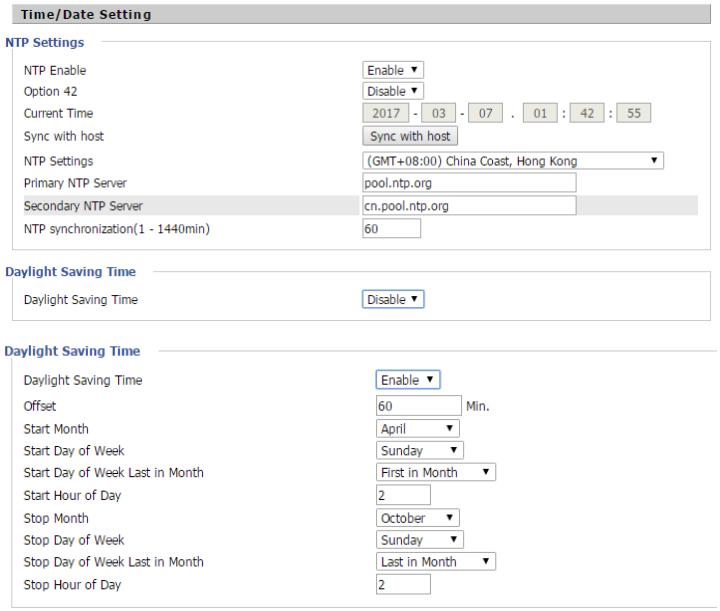
6.5.4 Call Log

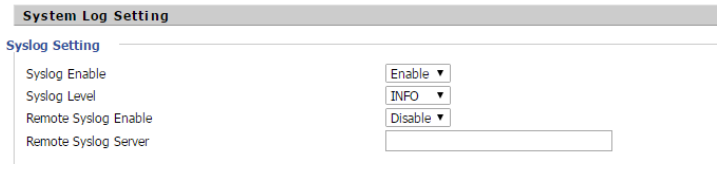
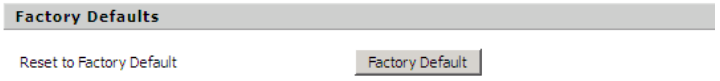
Settings Introduction	User can view FTA1101 call log, including missed, dialed and answered calls. User can also delete the call logs.
WEB Interface	

6.6 Administration

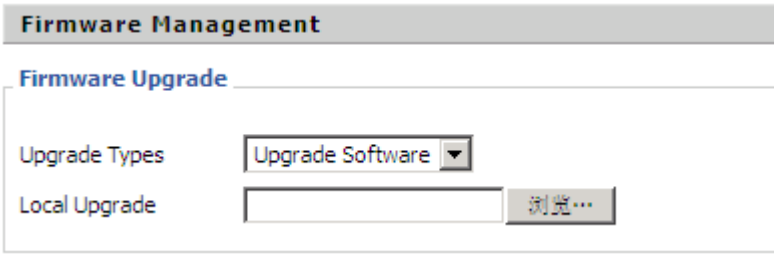
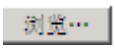
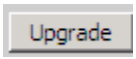
6.6.1 Management

Save Config File	WEB Interface	
	Settings Introduction	In this column, user can upload a new configuration file for the device, also can save the configuration file to local PC.

<table>
<tr><td rowspan="2">Administrator Settings</td><td>WEB Interface</td><td> 
</td></tr>
<tr><td>Settings Introduction</td><td>1)Password Reset:Reset username and password, user need select one user level first and then rename the user name and change the password.
2)Language:Select another language, FTA1101 support English, Russian, Finnish, Spanish, Chinese and so on.
3)Web Access: Enable or disable web access, user can also define the web access port and web idle timeout.</td></tr>
<tr><td rowspan="2">Time/Date</td><td>WEB Interface</td><td> 
</td></tr>
<tr><td>Settings Introduction</td><td>1)NTP Settings: User can enable the NTP and select time zone and set NTP server and so on.
2)Daylight Saving Time:If or not enable daylight saving time, this is the function to bring an hour ahead the normal time. When enable this option, user can define offset, start/stop month, start/stop day of week, start/stop day of week last in month and start/stop hour of day.</td></tr>
</table>

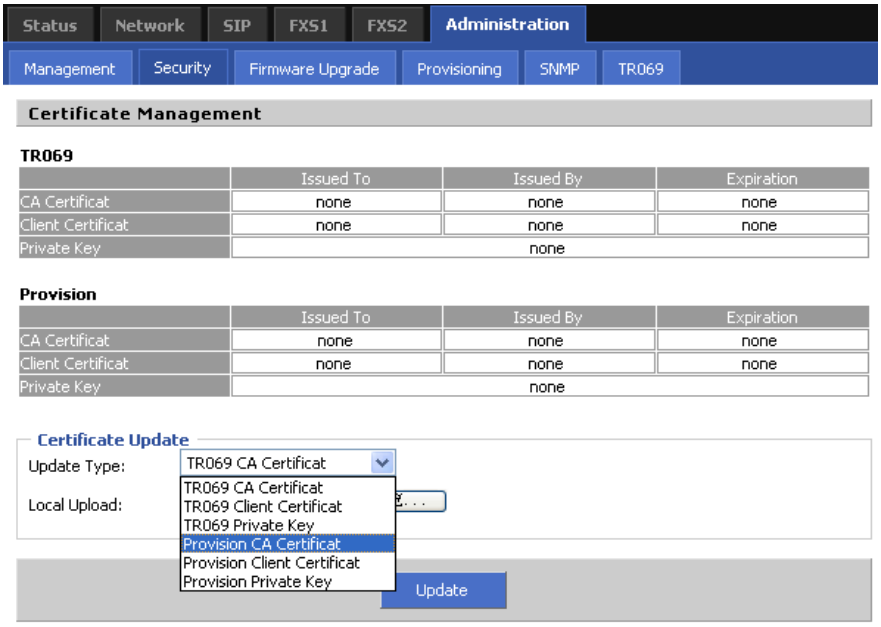
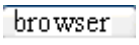
System Log Setting	WEB Interface	
	Settings Introduction	1)Syslog Enable: If or not enable system log. 2)Syslog Level:FTA1101 has two log level, INFO and Debug, in debug level, there will be more information in the system log. 3)Remote Syslog Enable:If or not enable remote system log. 4)Remote Syslog Server:Enter the IP address of the remote system log server, FTA1101 will send the system log to the host. To check system log, user need open syslog server on your local PC, tftp32 can be used as system log server.
Factory Default	WEB Interface	
	Settings Introduction	Press the Factory Default button to make the device factory default.

6.6.2 Firmware Upgrade

WEB Interface	
Settings Introduction	1) Press  to select a firmware file. 2) Press  to start upgrading.

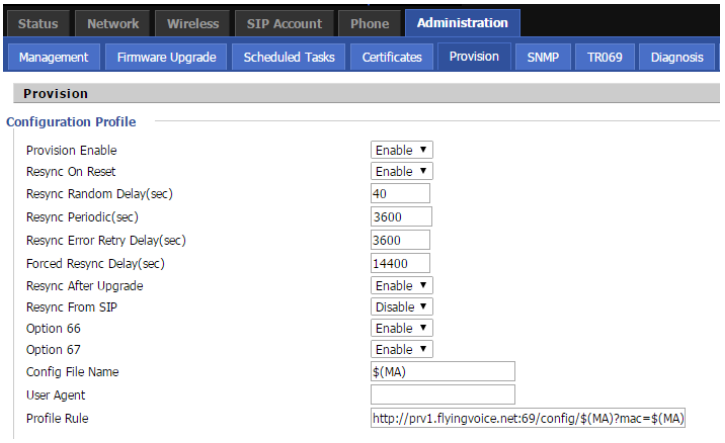
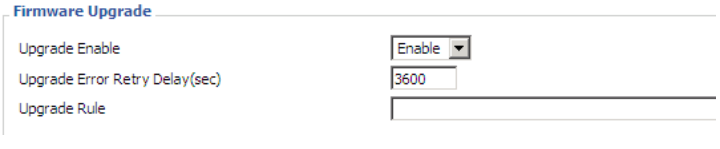
6.6.3 Certificates

In this webpage, user can upload https provision SSL certificates or upload the TR069 certificates. FTA1101 has deleted the https provision, and deleted this webpage, Flyingvoice will add the https provision soon in the new firmware, so we still keep this section.

WEB Interface	
Settings Introduction	User can upload cert files for TR069 and Provision. Steps: 1) Choose File Types in  2) Press  to browser file. 3) Press  to start upgrading.

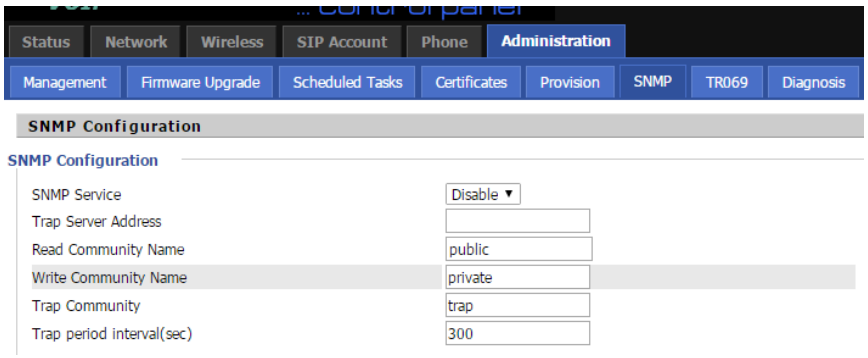
6.6.4 Provisioning

Generally Introduction	1) Provisioning allow FTA1101 auto-upgrading or auto-configuring 2) The current FTA1101 supports 2 ways to provision: TFTP and HTTP. ◆ Before testing or using TFTP, user should have tftp server and upgrading file and configuring file. ◆ Before testing or using HTTP, user should have http server and upgrading file and configuring file. ◆ Before testing or using HTTPS, user should have https server and upgrading file and configuring file and CA Certificate file(should same as https server's) and Client Certificate file and Private key file(HTTPS provision will be supported soon) User can uploading CA Certificate file and Client Certificate file and Private Key file in Security page. Notice: Please refer to documentation **Provision_User Manual_en_v1.5.pdf** to use this function.

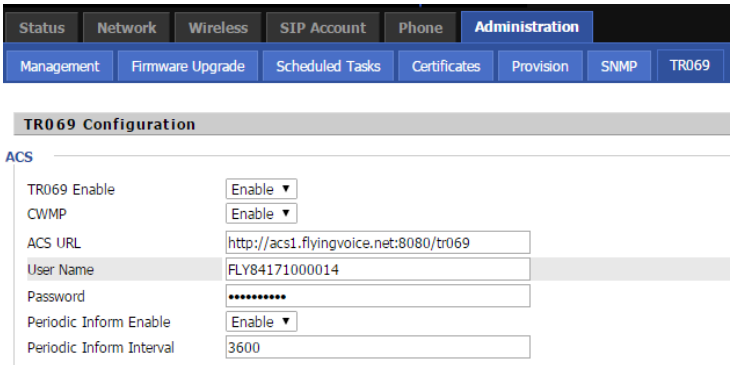
Configuration Profile	WEB Interface	
	Settings Introduction	1)Provision Enabled:If or not enable provision 2)Resync On Reset:If or not enable resync after DIV378 restart 3)Resync Random Delay:Set the maximum delay for request the synchronization file, default is 40. 4)Resync Periodic:Set the periodic time for resync, default is 3600s. 5)Resync Error Retry Delay:If the last resync was failure, FTA1101 will retry resync after the "Resync Error Retry Delay" time, default is 3600s. 6)Forced Resync Delay:If it's time to resync, but FTA1101 is busying now, in this case, FTA1101 will wait for a period time, the longest is "Forced Resync Delay", default is 14400s, when the time over, FTA1101 will forced to resync. 7) Resync After Upgrade Attempt:If or not enable firmware upgrade after resync, by default it is enabled. 8)Option 66:If or not enable DHCP option 66 to override server. If enable, the parameter "profile rule" will has no effect. 9)Config File Name:It is used for In-house provision mode only. When use TFTP with option 66 to realize provisioning, user must input right configuration file name in IP542N's webpage. When disable **Option 66**, this parameter has no effect. 10) Profile Rule: URL of profile provision file Note that the specified file path is relative to the TFTP server's virtual root directory.
Firmware Upgrade	WEB Interface	
		1)Upgrade Enable:If or not enable firmware upgrade via

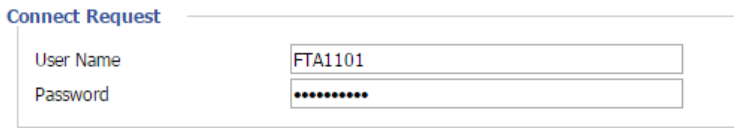
	Settings Introduction	provision. 2)Upgrade Error Retry Delay:If the last upgrade fails, FTA1101 will try upgrading again after "Upgrade Error Retry Delay" period, default is 3600s. 3) Upgrade Rule: URL of upgrade file

6.6.5 SNMP

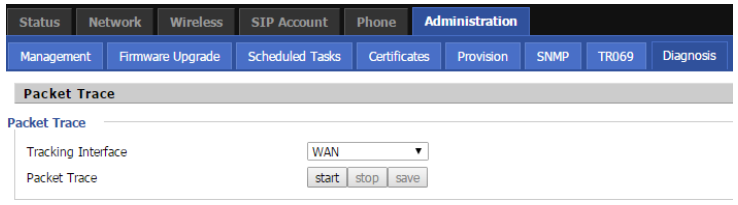
WEB Interface	
Settings Introduction	1)SNMP Enable:If or not enable SNMP 2)Trap Server Address:Enter the trap server address. 3)Read Community Name:string, as an express password between management progress and agent progress. 4)Write Community Name:String, as an express password between management progress and agent progress. 5)Trap Community:The community field in trap. Trap Period interval:The interval of sending trap.

6.6.6 TR069

TR069 Configuration	WEB Interface	
	Settings Introduction	1)TR069 Enable:If or not enable TR069. 2)CWMP:If or not enable TR069 3)ACS URL:The URL of TR069 server. 4)User Name:Enter the user name to connect to TR069 server. 5)Password:Enter the password to connect the TR069 server. 6)Periodic Inform Enable:If or not enable periodic information. 7)Periodic Inform Interval:The interval of sending information

		to TR069 server.
Connect Request	WEB Interface	
	Settings Introduction	1)User Name: Define the username for the TR069 server connecting FTA1101. 2)Password: Define the password for TR069 server connecting FTA1101.

6.6.7 Diagnosis

Packet Trace	WEB Interface	
	Settings Introduction	Press Start to begin tracing the packet, or press stop to cancel, also you can press Save to save the packets to your local PC.

7. Functions

7.1 Making Calls

- Dial the number directly and wait for 5 seconds (default No Key Entry Timeout).
- Dial the number with ending char #, FTA1101 will dial out immediately
- Dial the phone number which matches one dial rule, FTA1101 will dial out immediately, no need to press # or wait for 5 seconds.

7.2 Call Waiting

Step 1.Enable waiting feature in SIP Account→Line1→Supplementary Service→Call Waiting (default is Enable)

Step 2.While in conversation, user will hear a special stutter tone if there is another incoming call.

Step3.User then can press "*77" (or Flash button)to put the current call party on hold automatically and switch to the other call. Pressing "*77"(or Flash button) toggles between two active calls.

7.3 Call Hold

Step 1.While in conversation, pressing the "*77"(or Flash button), will put the remote end on hold.

Step 2.Pressing the "*77"(or Flash button) again, will release the previously Hold state and

resume the bi-directional media.

7.4 Call Transferring

FTA1101 supports blind transfer and attended transfer.

7.4.1 Blind Transfer

Assuming that call party A and party B are in conversation, A wants to Blind Transfer B to C

Step 1.Party A dials *98, A will hear dialing tone

Step 2.Dial party C's number, and press # (or wait for 5 seconds) to call C, then C will ring, A will be disconnected.

Step 3.If C answer the call, B and C can go on talking.

7.4.2 Attended Transfer

Assuming that call party A and B are in conversation. A wants to Attend Transfer B to C:

Step 1.Party A dials *77 to hold B, A will hear dialing tone

Step 2.Dial party C's number, and press # (or wait for 5 seconds) to call C, then A will hear ringing tone.

Step 3.If C answer the call, A will talk with C firstly

Step 4.If C wants to talk with B, A press "*98" to transfer, and then C will talk with B. If C does not talk with C successfully, A will talk with B again.

7.5 3-way conference call

Assuming that call party A and B are in conversation. A wants to add C to the conference:

Step 1.Party A dials *77 to hold B, A will hear dialing tone

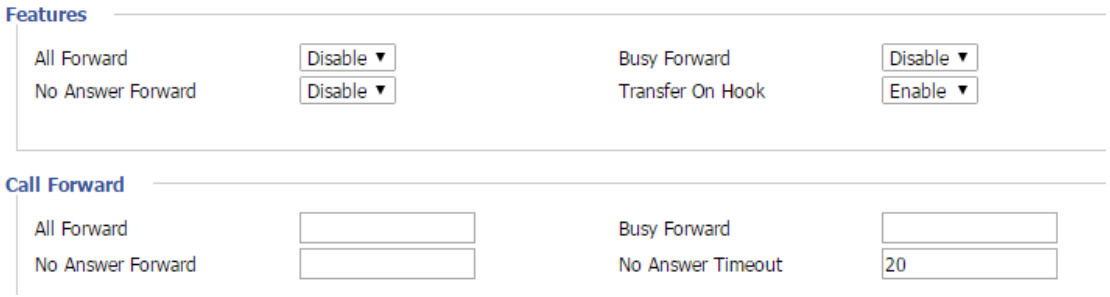
Step 2.Dial party C's number, and press # (or wait for 5 seconds) to call C, then A will hear ringing tone.

Step 3.If C answer the call, A will talk with C firstly

Step 4.If C receive the conference, A press "*88" to add C to the conference, and then A,B and C are in conference.

7.6 Call Forwarding

Step 1. Open Phone→Preferences→Call Forward, enable the one call forward mode and fill forwarded number



Step 2: FTA1101 will forward incoming call to the forwarded number according to the settings of Call Forward and call status

7.7 Direct IP calls

Direct IP calling allows two phones, that is, an ATA with an analog phone and another VoIP Device, to talk to each other without a SIP proxy. VoIP calls can be made between two phones if:

- Both ATA and the other VoIP device (i.e. another ATA or other SIP products) have public IP addresses, or
- Both ATA and the other VoIP device (i.e. another ATA or other SIP products) are on the same LAN using private or public IP addresses, or
- Both ATA and the other VoIP device (i.e. another ATA or other SIP products) can be connected through a router using public or private IP addresses

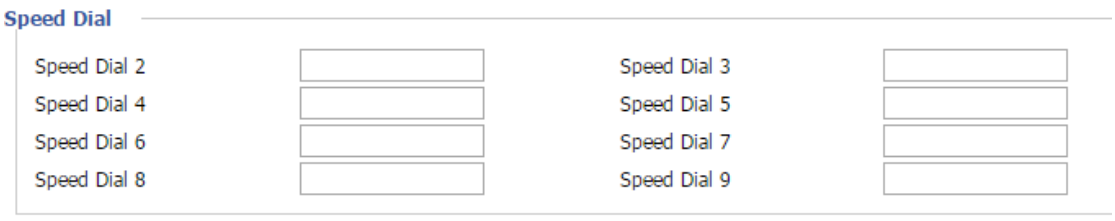
To make a direct IP call,

Step 1: Picking up the analog phone or turning on the speaker phone on the analog phone

Step 2: Input the IP address directly with ending char #. E.g. call 192.168.20.34, dial 192*168*20*34#

7.8 Speed dialing

Step 1.Set phone number(E.g.3333) in SIP Account→Line1→Speed Dial, and then save the changes

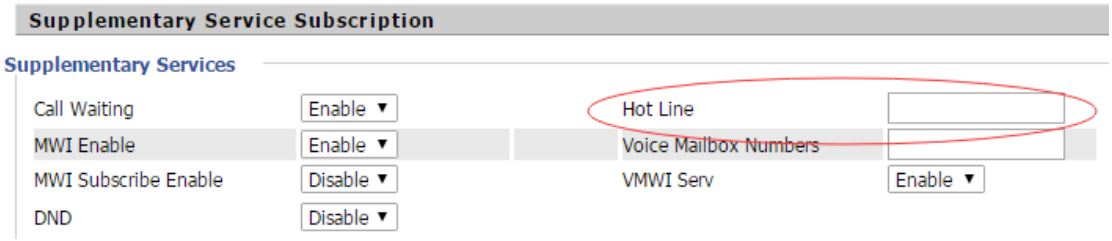


Step 2.Dial*74 to active speed dial function

Step 3.Then dial 2 to call 3333, and FTA1101 will dial out immediately.

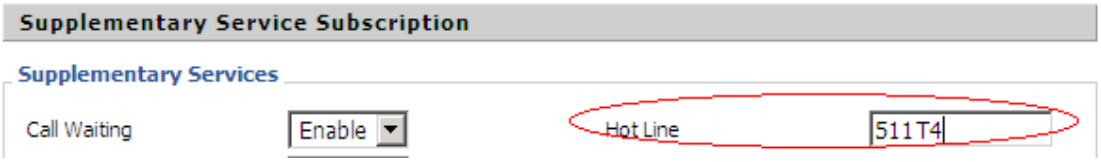
7.9 Hotline

Step 1.Set hotline in SIP Account→Line1→Supplementary Service Subscription, you can refer to the following picture. And then save the changes.



Step 2.Picking up handset or press speaker button, FTA1101 will ring hotline immediately.

If you want to delay some seconds after pick up the handset, please add delay time. For example, FTA1101 will call 511 after user picks up the handset for 4 seconds.



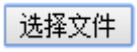
7.10 Daylight Saving Time

Daylight Saving Time (or summer time as it is called in many countries) is a way of getting more light out of the day by advancing clocks by some hour during the summer. During Daylight Saving Time, the sun appears to rise one hour later in the morning, when people are usually asleep anyway, and sets one hour later in the evening, seeming to stretch the day longer.

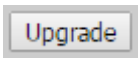
Step 1.Open Administration/Management webpage.
Step 2.Enable parameter **Daylight Saving Time** in Time/Date.
Step 3.Set **offset:** "-60" means advancing 60min, "60" means delaying 60min.
Step 4.Set starting Month/Week/Day/Hour in **Start Month/Start Day of Week Last in Month/Start Day of Week/Start Hour of Day**, analogously set stopping Month/Week/Day/Hour in **Stop Month/Stop Day of Week Last in Month/Stop Day of Week/Stop Hour of Day.**
Step 5.Press Saving button to save and press reboot button to active changes.

7.11 Upgrade Firmware

Function is to upgrade firmware in local.
Step 1.Open Administration/Firmware Upgrade webpage

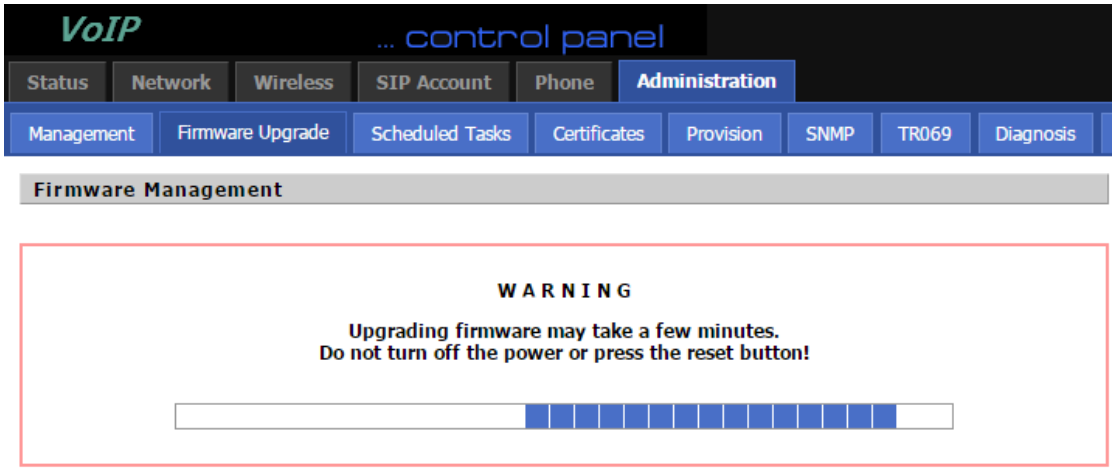
Step 2.Press 

to browse a firmware file

Step 3.Press 

to start upgrading

Step 4.When upgrading, there will be prompt like below



7.12 Password Control

Function is to reset password.
Step 1.Open Administration/Management webpage
Step 2.Choose password type
Step 3.Input current password (Original Password, default is “admin” for admin level and user for user level),
Step 4.Input new password in New Password and Password Confirm.
Step 5.Press Save Settings button to save and then press Reboot button to make changes effective.

7.13 Web Access

User can use the two parameters in Web Access to control WAN web login or login port.
WAN Interface Login is to disable/enable user access to web via WAN port;
Web Login Port is to set login port.

7.14 System log

User can view system log in local or in remote.
In local:
Step 1.Open Administration/Management page, System Log Setting column.
Step 2.Choose log level from INFO and Debug, in INFO level, FTA1101 records INFO log, and in Debug level, FTA1101 records all debug information.
Step 3.Press Save button to save and then press Reboot button to make changes effective.

In remote:
Step 1.Open Administration/Management page, System Log Setting column.
Step 2.Fill system server IP Address or domain name into Syslog Server.
Step 3.Choose log level from INFO and Debug, in INFO level, FTA1101 records INFO log, and in Debug level, FTA1101 records all debug information.
Step 4.Press Save button to save and then press Reboot button to make changes effective.

8. Software Feature

- Support SIP V2.0（RFC 3261/RFC3262）
- Support G.711 (A-Law, μ-Law), G.723, G.722 and G.729A/AB Codes
- Support two RJ45 10/100M that one is WAN port and another is LAN port.
- Support two RJ-11 for FXS port to connect your analog phone
- Support IP address assignment using PPPOE, DHCP and Static IP
- IP conflict detection
- Support NAT traversal (Static NAT Route or by STUN)
- Support Voice Activity Detection(VAD) ,Comfort Noise Generation(CNG) and Echo cancellation
- Adaptive jitter buffer for smooth voice reception
- Support direct IP to IP dialing without registration
- Support complementary features such as Call hold, Call waiting, Call forwarding, Call Transfer, Call Block, Hotline, Message Waiting Indicator and DTMF Realy (In-band, RFC2833 and SIP INFO) etc.
- Support MAC address cloning
- Support IEEE802.1Q VLAN/802.1P and IP TOS
- Provide easy configuration through manual operation (Web interface and IVR-driven interface) or auto provisioning via TFTP or HTTP
- Support syslog client

Federal Communications Commission (FCC) Statement

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

●Reorient or relocate the receiving antenna.
●Increase the separation between the equipment and receiver.
●Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
●Consult the dealer or an experienced radio/TV technician for help.

Warning: Changes or modifications made to this device not expressly approved by Flyingvoice Network Technology Co., Ltd may void the FCC authorization to operate this device.

Note: The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user's authority to operate the equipment.

RF exposure statement:

The transmitter must not be colocated or operated in conjunction with any other antenna or transmitter. This equipment complies with the FCC RF radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20cm between the radiator and any part of your body.