

X10 SIP Paging Gateway User Guide



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1. Preface

1.1 Audience

This manual is intended to provide clear operating instructions for those who will configure and manage the X10 SIP Paging Gateway. By carefully reading and consulting this guide, users could solve the setting and deployment issues of the X10 SIP Paging Gateway.

1.2 Revision History

Document Version	Applicable Firmware Version	Update Content	Update Date
1.2.8	1.2.8	Updated operating instructions for software version v1.2.8	Nov,2023

2. Overview

2.1 Product Overview

X10 SIP paging gateway is SIP enabled multifunctional IP audio device dedicated for industry users. It can convert voice streams from a SIP paging system or IP PBX system to analog sounds for background music, public address, intercom, etc. Based on the compact hardware design, open standard SIP protocol support, rich functionality and high performance.

2.2 Product Specifications

X10 SIP Paging Gat	eway Specifications	
Amplifier Output	2x10W, 8Ω (4 pins)	
Headset Output	3.5mm Jack	
Microphone	3.5mm Jack	
Power Input	DC 12V-3A Jack	
Call button	Support 2 call buttons (switch button)	
Call button LED	Support 2 call button LED indicators	
Dry Contact	NO/NC contacts, max AC 125V- 1A, DC 60V-1A	

3. Login the Device

3.1 Accessing the Web GUI

X10 obtains the IP address through DHCP by default, please ensure that there is an available DHCP server in your LAN (If DHCP fails to obtain an address, it will use a static IP address: 192.168.1.101), or press and hold the volume up and down keys simultaneously to listen to the device's IP address broadcast, and enter the IP address in the browser to access the device's Web management interface.

Default username: admin

Default password: admin

For the safety purpose, it is recommended to change the default password on the first login, please go to **System --> Password Settings** page to change the password.

옷 Usemame	
Password	
English	~

Login Interface

After entering the correct username and password, you can log in to the device's web management interface.

3.2 Device Info

After successful login, you will see the information interface of the device, and you can view the basic information of the device.

2300					English \vee Admin \vee
⑦ Device Info					
	SIP STATUS				
😵 SIP Settings 🚽					
	Primary SIP Account	1022@192.168.11.83:5060		Registered Idle	
🔄 Advanced 🛛 🗠	Secondary SIP Account-1			Unconfigured	
	Secondary SIP Account-2			Unconfigured	
💮 System 🔍					
C Maintenance	DEVICE INFORMATION				
	Device Model		X10		
	Hardware Version		Ver2.0		
	Software Version		\$2.0.4		
	Uptime		14 days, 21 min		
	Speaker Volume		5 (0-9) 2		
	Mic Volume		AGC (0-9) 🖉		
	Device Description		X10 Z		
	NETWORK INFORMATION				
	Mac Address		68:69:2E:29:10:02		
	Connection Mode		DHCP		
	IP Address		192.168.11.129		
	Subnet Mask		255.255.255.0		
	Gateway		192.168.11.1		
	Primary DNS		223.6.6.6		
	Alternative DNS				

SIP STATUS			
Primary SIP Account	1022@192.168.11.83:5060	Registered	Idle
Secondary SIP Account-1		Unconfigured	
Secondary SIP Account-2		Unconfigured	

SIP Status

- **SIP Account:** Display the SIP number configured on this device.
- SIP Server: Display the SIP server (Such as ZYCOO IP Audio Center or IP PBX) address.
- **Register Status:** Display the SIP number registration status.

DEVICE INFORMATION	
Device Model	X10
Hardware Version	Ver2.0
Software Version	\$2.0.4
Uptime	14 days, 21 min
Speaker Volume	5 (0-9) 🖉
Mic Volume	AGC (0-9) 2_
Device Description	X10 🖉

Device Information

• **Device Model:** Displays the model of the device.

- Hardware Version: Displays the hardware version number of the device.
- Software Version: Display the system version number of the device.
- **Start Time:** Displays the last time the device was started up.

• Speaker Volume: Displays the current volume of the device.

- Mic Volume: Displays the current device microphone input volume.
- **Device Description:** Remark the device information. The description will be displayed in a browser tab. After the Device Description is set, the description will be displayed in the browser tab, which is convenient for distinguishing different terminals when there are many terminal configuration pages.

NETWORK INFORMATION	
Mac Address	68:69:2E:29:10:02
Connection Mode	DHCP
IP Address	192.168.11.129
Subnet Mask	255.255.255.0
Gateway	192.168.11.1
Primary DNS	223.6.6.6
Alternative DNS	223.5.5

Network Information

- Mac Address: Display the MAC address of the current device.
- **Connection Mode:** Display the network acquisition method of the device, DHCP (dynamic acquisition) or STATIC (static configuration).
- **IP Address:** The current IP address of the device.
- Subnet Mask: The current subnet mask of the device.
- **Gateway:** The gateway address currently used by the device.
- **Primary DNS:** The primary domain name server address used by the device.
- Alternative DNS: The secondary domain name server address used by the device.

4. SIP Settings

4.1 SIP Account Settings

There are three (3) SIP accounts under the SIP Settings, one (1) primary and two (2) secondary for the use of different SIP accounts to proceed with various tasks. If the current device needs to cooperate with the ZYCOO IP Audio Center, please turn on the 'Enable Integration with ZYCOO IP Audio Center' option.

Please go to SIP Settings --> Primary SIP Account / Secondary SIP Account-1 / Secondary SIP Account-2 page.

* SIP Server:	192.168.11.62	
* SIP Port:	- 5060 +	
* User ID:	5001	
Auth User:	5001	
Domain:	192.168.11.62	
Password:		
Register Expiration(Sec):	- 180 +	
* Transport:	UDP	
Auto Answer:	Yes	
NAT Mode:	Disabled	
Enable Integration with		
ZYCOO IP Audio Center:		
Activate:		

Primary SIP Account

Activate:		
NAT Mode:	Disabled	
Auto Answer:	Yes	
* Transport:	UDP	
Register Expiration(Sec):	· 180 +···	
Password:		
Domain:	192.168.11.83	
Auth User:	1007	
* User ID:	1007	
* SIP Port:	- 5060 +	
* SIP Server:	192.168.11.83	

Secondary SIP 1 Account

* SIP Server:	eg: 192.168.1.100	
* SIP Port:	- 5060 +	
* User ID:	eg: 100	
Auth User:	eg: 100	
Domain:	eg: pbx.com	
Password:		
Register Expiration(Sec):	- 180 +	
* Transport:	UDP	
Auto Answer:	Yes	
NAT Mode:	Disabled	
Activate:		

Secondary SIP 2 Account

• SIP Server:

Enter the IP address or domain name of the SIP server.

- SIP Port: Default SIP port is 5060. If the SIP server uses another port number as the SIP port, please modify this setting.
- User ID: The SIP account number provided by the SIP server.
- Auth User: Enter the authorized SIP account's username.
- **Domain:** Enter the SIP Domain.
- **Password:** Authorized SIP account password.
- **Register Expiration (sec):** SIP register expiration time, the default expiration time is 180 seconds.
- **Transport:** Set up the transport protocol, there are UDP, TCP, TLS options to choose.
- Auto Answer: Yes/No/Answer Delay, default in the Yes option.
- NAT Mode: Select the NAT mode and fill out the corresponding data. STUN, TURN, and ICE modes are supported.
- Enable Integration with ZYCOO IP Audio Center: This option is disabled by default. If you need to connect and use it with ZYCOO IP Audio Center, please enable this option. Only the main SIP account has this option.
- Activate: Once enabled, the account will be activated and registered to the SIP server.

4.2 P2P Account Settings

P2P stands for Peer to Peer. In a P2P network, the peers are connected to each other via the Internet, files can share, or peers can call each other directly between systems on the network without the need for a central server.

Please go to **SIP Settings ---> P2P Account Settings** page to configure the P2P settings. After configuring the P2P account, it can be used with the Outgoing Call feature in **Basic Settings ---> I/O Settings**, or use the Outgoing API in **Basic Settings ---> API Settings** to make a P2P call.

2P Account		
* User ID:	194	
Auto Answer:	Yes	~
Activate:		
	Submit	

P2P Account

- User ID: The User ID will be displayed as the outgoing number when calling out, or the number that another device needs to dial.
- Auto Answer: Yes/No/Answer Delay, default in the Yes option.
- Activate: Enable/Disable the P2P feature.

4.3 Audio Codecs

X10 supports 4 audio codecs: G.722 (wideband codec), G.711(Ulaw), G.711(Alaw), and Opus.

To enable or disable an audio codec/codecs, please go to **SIP Settings --> Audio Codecs** page.

Audio Codecs	
G.722:	
G.711(Ulaw):	
G.711(Alaw):	
Opus:	
	Submit

Audio Codecs

Please keep at least one codec enabled and supported by the SIP server, otherwise, SIP paging will not work.

4.4 Advance SIP Settings

To configure some advanced parameters of the SIP protocol, please go to **SIP Settings** --> **Advance SIP Settings** page.

dvance SIP Settings			
Local Port:		5060	+
* RTP Start Port:		10000	+
* RTP End Port:		20000	+
* RTP Timeout(Sec):		60	+
Jitter Buffer:	off		×.
SIP Autoanswer beep:			
Ptp Time Synchronization:		0	
Echo Cancellation:			
	Submit		

Advance SIP Settings

- Local Port: This setting represents the port used to receive SIP packets.
- **RTP Start Port:** This setting represents the starting RTP port that will use for media sessions.
- **RTP End Port:** This setting represents the end RTP port that the system will use for media sessions.
- **RTP Timeout (sec):** This setting means that within a specific time range, if the system does not receive the RTP stream, the call will end.
- Jitter Buffer: This setting represents the Jitter buffer where voice packets can be collected, stored, and sent to the voice processor in even intervals. Three options are provided, off/adaptive/fixed. A fixed jitter buffer adds a fixed delay to voice packets. An adaptive jitter buffer can adjust based on the delays in the network.

- **SIP** Autoanswer Beep: Enable/Disable. This setting represents the ringtone beep when a call comes and only applies when the SIP Autoanswer feature is enabled.
- **PTP Time Synchronization:** Enable the PTP time synchronization with the SIP server, which requires the support of the SIP server.
- Echo Cancellation: Set whether to enable echo cancellation or not.

5. Advanced Settings

5.1 Volume Settings

To set the volume of the X10, please go to **Advanced --> Volume** page to configure.

	5	+
-	2	+
	6	+
•		
Submit		
		- 5 - 2 - 6

Volume Settings

- Speaker Volume: The default speaker volume is 7, adjustable range is $0 \sim 9$.
- MIC AGC: When this setting is enabled, the system will automatically adjust the microphone volume according to the environment. Users are able to adjust the microphone volume manually when this setting is disabled.
- AGC Min Volume: This setting represents the minimum value of the automatic gain control.
- AGC Max Volume: This setting represents the maximum value of the automatic gain control.

- **Key Beep:** Enable/Disable the beep sound from the key button.
- **Music Auto Resumes:** When the device restarts or reconnects to the network, the previous music tasks will be automatically restored.
- Play IP on Startup: When the device starts, it automatically broadcasts its IP address once.

5.2 I/O Settings

This page is used to configure configuration parameters related to security linkage, such as: trigger settings, relay settings and other related configurations.

Please go to Advanced --> I/O Settings page to set the specific settings.

Key1 Action:	Outgoing	Call ~			
î	Destination:	1000	Line:	Auto	
Press Again	to End Call:				
Key2 Action:	Play Audio	×			

Key settings				
	Key Action:	HTTP Req	uest 🗸	
	1	HTTP URL:	http://api.com/test	

ettings							
Key Actio	n: Play Audio)					
	Audio File:	Alarm tone-0	~	Repeat:	_	3	+

Key Settings

- Key Action: Choose different event linkage including Outgoing Call, HTTP Request and Play Audio.
- **Destination:** This setting represents the response device's number when the external button is pressed.
- Line: This setting represents the corresponding line for making outgoing calls.

Note: when using the P2P line to call, please specify the device's number plus IP address, such as 101@192.168.11.123.

- **Press Again to End Call:** After the call is connected, users can end the call or conversation by pressing the button again.
- **HTTP URL:** Configure the API URL address triggered by linkage.
- Audio File: Configure the audio triggered by linkage.
- **Repeat:** Configure the times of audio repetitions triggered by linkage.

Sensor Settings						
Sensor Detection:						
Trigger Mode:	Falling Edge					
Dial Number:						
Trigger Audio:						
Audio file:	Ring	~	Repeat:	3	+	

Sensor Settings

- Sensor Detection: Enable/Disable, enable this option to detect any digital level signals.
- **Trigger Mode:** You can choose 'Falling Edge' or 'Rising Edge' mode to be triggered.
- **Dial Number:** Enable/Disable, enable this option if you need to dial a number when the corresponding digital signal is received.
- Number: The number that needs to be dialed.
- Line: Line represents the line that will be used to dial calls.
- **Trigger Audio:** Enable/Disable, enable this option if you neeed to trigger an audio when the digital signal is received. Please note that you can only select either 'Dial Number' or 'Trigger Audio', not both.
- Audio File: Select the audio file to be played when triggered by the sensor input.
- Repeat: Configure the times of audio repetitions triggered by the sensor input.

gger Setting			
Broadcast music trigger:	Disabled	~	
Broadcast alarm trigger:	Disabled	\sim	
Trigger by Input Signal:			
Trigger by DTMF Signal:			
Trigger by Call Status:			
Event:	Incoming/Outgoing	~	

Trigger Setting

• **Broadcast Music Trigger:** Disabled/On/Fast Flashing/Slow Flashing, enable this option will trigger the relay when there is broadcast music on.

- **Broadcast Alarm Trigger:** Disabled/On/Fast Flashing/Slow Flashing, enable this option will trigger the relay when there is a broadcast alarm on.
- **Trigger by Input Signal:** Enable/Disable, enable this option if you neeed to use Input signal to trigger.
- **Trigger by DTMF Signal:** Enable/Disable, enable this option if you neeed to use DTMF signal to trigger (only RF2833 supported).
- **DTMF:** This setting represents the number to dial when DTMF is triggered.
- **Trigger by Call Status:** Enable/Disable, enable this option will change the call status when triggered.
- Event: Set the corresponding call state, you can choose [Outgoing],

[Incoming] , [Incoming/Outgoing] , [Answered] and [Hangup] .

Relay Control				
Trigger Type:	Fast Flas	shing		\sim
Mode:	Delay Re	eset		~
* Duration(Sec):	-	5	+	
	Submit			

Relay Control

- **Trigger Type:** This setting represents the responses by the triggers, there are 'On', 'Fast Flashing', and 'Slow Flashing' options to choose from.
- Mode: This setting represents the reset mode after the trigger is responded, there are 'Delay Reset' and 'Hang-up Reset' options to choose from.
- **Duration (Sec):** This setting is only available if the reply control mode is on Delay Reset, it represents the time duration when the configure interface status changed.

5.3 API Settings

This page is used to configure the API interface of the device. Through the API interface, you can realize device linkage, call control, relay control, and play sound by using the changing status of the call and/or relay.

Please go to Advanced --> API Settings page to enable API settings.

Call Event URL Callback	
Incoming Enable:	
* Incoming Callback URL:	http://192.168.11.109/incoming.cgi?ip=\${ip}
Outgoing Enable:	
* Outgoing Callback URL:	http://192.168.11.109/outgoing.cgi?ip=\${ip}
Answered Enable:	
Hangup Enable:	
Relay Event URL Callback 🖗	
On Enable:	
Off Enable:	

Call Event URL Callback & Relay Event URL Callback

When the call status changes, it will trigger an HTTP GET request to call a URL address. Within the URL address, you may use variables to identify some current information. For example:

\${ip}:	The current IP address of the device
\${mac}:	The current MAC address of the device
\${ua}:	The account of the current call
\${number}:	The number of the current call
YYH 1 1 1 1	

When the relay status changes, it will trigger an HTTP GET request to call a URL address. Within the URL address, you may use variables to identify some current information. For example: \${ip}:The current IP address of the device\${mac}:The current MAC address of the device

Call API Enable:	
Outgoing API:	http://192.168.17.54/api/sipphone?action=call&number=101&line=auto
Answer API:	http://192.168.17.54/api/sipphone?action=answer
Hangup API:	http://192.168.17.54/api/sipphone?action=hangup
Relay API Enable:	
On API:	http://192.168.17.54/api/relay?action=on
Off API:	http://192.168.17.54/api/relay?action=off
Delay API:	http://192.168.17.54/api/relay?action=on&duration=5
Play API Enable:	
Start Play API:	http://192.168.17.54/api/player?action=start&id=1&repeat=0&volume=7
Stop Play API:	http://192.168.17.54/api/player?action=stop
	Submit

API Settings

Using the API interface to realize features such as device linkage, call control, relay control, and play sound by the systems.

Note: Authentication and encryption are not used in the API interface, so please pay attention to the security of the network environment when opening and using these API interfaces.

5.4 Multicast

The multicast settings are used to configure the parameter settings of the multicast function on the SIP Safety Intercom. It can be configured to monitor up to 9 different levels of multicast addresses, the audio streams with a higher priority will interrupt the playback of the lower priority audio streams.

Please go to Advanced ---> Multicast page to enable the multicast feature.

ort range f	from 2000-65535								
iority from	m highest 9 to lowest 1 ream with higher priority	y will super	sede the lo	wer on	e				
Priority	Multicast Address	Multic	ast Port		Name	Relay Control	Volume		
1			2000	+	Background-Music	Disabled	-	90	3
2	239.168.15.206		2200	+	1	Slow Flashing	-	90	-
3			2000	+		Disabled	-	90	
4			2000	+		Disabled	-	90	
5			2000	+		Disabled	-	90	
6			2000	+		Disabled	-	90	
7			2000	+		Disabled	-	90	
3			2000	+		Disabled	-	90	
9			2000	+		Disabled	_	90	

Multicast

• Priority:

Priority from highest 9 to lowest 1.

Multicast Address: The multicast address range is 224.0.0.0 – 239.255.255.255.

The multicast port range is 2000 - 65535.

- Multicast Port:
- Name:

•

- Customize the name of the multicast address.
- Relay Control: Options to choose from are 'Disabled', 'On', 'Fast Flashing', 'Slow Flashing'.

5.5 Audio Collection

The Audio Collection is used to configure the parameter settings of the audio source collection function on the SIP Paging Gateway. The Audio Collection can collect external audio sources through the 3.5 Audio in the interface of the model X10 and play the audio source through the paging endpoints. This feature is required to be used with the ZYCOO IP Audio Center.

I lease go to Auvanceu Audio Concenton page to endore the multicast reature

udio Collection	
Enable Collection:	
* Server:	
* Username:	
* Password:	
* Source Name:	
	Submit

Audio Collection

- **Enable Collection:** Enable the audio collection feature.
- Server: IP Audio Center's server address.
- Username: The account username used in the ZYCOO IP Audio Center.
- **Password:** The account password used in the ZYCOO IP Audio Center.
- Source Name: Customize a name for the audio source (alphabet and number only).

After the relevant parameters are configured correctly, the audio source name will appear in the Playlist on the IP Audio Dispatch Console.

Name format: x10-- xxx

Music			×
* Playlist	Select		~
Selected Device(s)	x10-68692e29008f-nic		
		Cancel	Save

Audio Collection 2

5.6 Prompt Language

The language of local voice prompts, like IP address announcements. Currently, only Chinese and English are provided.

Please go to Advanced ---> Prompt Language page to set a voice prompt language.

Voice Prompts Language:	English	

Prompt Language

5.7 Audio Files

The Audio files section allows users to self-upload up to 5M of audio files to the endpoint and use it as a ringtone or Play API audio file. Please click on the 'Select audio file' button to select and upload the local audio file, then click on the 'upload' button to upload it. Click on the 'play' to test and play the audio file and the 'delete' button for deleting the audio file. Please go to Advanced ----> Audio Files to manage the audio files.

Audio Files Upload			
Audio files only accept w	vav format!		
Current disk space rema	iining: 5.1M		
Custom audio file 1	Currently set to default	Select audio file 🛆	Upload Play Delete
Custom audio file 2	Currently set to default	Select audio file 🐟	Upload Play Delete
Custom audio file 3	Currently set to default	Select audio file 🐟	Upload Play Delete
Custom audio file 4	Currently set to default	Select audio file 🔺	Upload Play Delete
Custom audio file 5	Currently set to default	Select audio file \land	Upload Play Delete

Audio Files

5.8 ONVIF Settings

ONVIF provides and promotes standardized interfaces for effective interoperability of IPbased physical security products. If the user has installed a VMS that supports ONVIF, they can register ZYCOO network devices that support ONVIF on it for operation. Please go to **Basic Settings ---> ONVIF Settings** to configure the ONVIF settings. For detailed multi-platform configuration guide, please refer to the ONVIF Feature Guide document on the ZYCOO official website.

atvir Settings		
Enable:		
* Username:	admin	
* Password:		٥
	Submit	

ONVIF Settings

6. System Settings

6.1 Network

X10 uses DHCP to dynamically obtain IP addresses by default.

To change the IP assignment from DHCP to Static IP, please go to **System--> Network** page. Turn the DHCP switch button off to show the network parameter settings.

Access Type:	HTTP	
DHCP:		
* IP Address:	192.168.1.101	
* Subnet Mask:	255.255.255.0	
* Gateway:	192.168.1.1	
* Primary DNS:	114.114.114.114	
* Alternative DNS:	8.8.8.8	

Network Configuration

- Access Type: Specify the access method of the website, which currently supports HTTP and HTTPS.
- **IP Address:** Enter a vacant IP address within your LAN.
- **Subnet Mask:** Enter the subnet mask of your LAN.
- Gateway: Enter the default gateway of your LAN, this is essential for the device when the IP Audio Center or other SIP server is installed outside the LAN.
- **Primary DNS:** Enter an effective primary DNS server address.

• Alternative DNS: Enter an alternative DNS server address, when the primary DNS fails, alternative DNS will be used.

6.2 Time

X10 obtains the time from the network time servers using NTP.

To change the NTP settings, please go to **System --> Time** page.

Current Time:	2023-11-02 09:42:53	
NTP:		
* NTP Server:	pool.ntp.org	
Time Zone:	Asia/Chongqing	
	Submit	

Time Settings

- **Current Time:** Display the current system time of the device.
- **NTP:** Enable/Disable using NTP to obtain the time.
- **NTP Server:** The network time server used to obtain the time.
- **Time Zone:** Set the time zone used by the device.

6.3 Account

For resetting the current device's password, please go to **Settings** --> **Password Settings** page.

Username:	admin	
• Old Password:		
* New Password:		

Web Password Settings

- **Old Password:** This setting represents the current user password.
- New Password: This setting represents the new password user would like to set up.

6.4 Upgrade

To upgrade the device's firmware, please go to **System --> Upgrade** page.

Current Firmware Info		
Current Firmware Version:	s2.0.4	
Last Update:	2023-10-18	
Upgrade		
	Warning: It will take around 150 seconds to complete the upg	ade process, during the upgrade process please DO NOT power-off the device!
Reset Factory Defaults:		
Firmware:	G	
	Drag files here, or Click Upload	

Upgrade Settings

- Current Firmware Version: Displays the version currently used by the system.
- Last Update: Displays the last system updating time.
- Reset Factory Defaults: Specify whether to restore factory settings when upgrading.

• Firmware: Click to select the firmware that needs to be used to upgrade the current device.

6.5 Reboot & Reset

X10 can be rebooted and reset from the web management interface.

If you need to reboot or reset the device, please go to System --> Reboot & Reset page.

Reboot	
Warning: Rebooting the device will interrupt all ongoing broadcasting, intercom and calls! Reboot	
Reset	
Warning: Resetting the device will interrupt all ongoing broadcasting, intercom and calls, and it will empty all configurations!	

Reboot & Reset Settings

Users can restart the device without power failure on this page. The restart process takes about 10 seconds. After the restart is complete, refresh the page to log in again. If you need to restore the factory settings of the intercom, you can reset it through this page or you can press and hold the RST button for more than 10 seconds and release it. After hearing the broadcast voice, the device will enter the state of restoration. The key will flash once. After restarting, the pop-up window disappears, and the device is restored successfully. *Note: Restoring factory settings will erase all user settings, please operate with caution!*

Reboot Schedule				
	Enable:			
		Submit		

Reboot Schedule

When the Reboot Schedule feature is Enabled, you can set up the automatic reboot daily, weekly, or monthly at a specified time.

7. Maintenance

7.1 Diagnostic

Ping is a network administration utility or tool used to test connectivity on an IP network. Input other devices' IP addresses and click on the submit button to trace the network route. Please go to **Maintenance --> Diagnostic** page to execute ping command.



Ping

7.2 Ethernet Capture

The purpose of the Ethernet capture tool is to capture Ethernet network packets and store them in a standard Wireshark-compatible packet capture '.pacp' file for immediate viewing and data analysis.

Please go to **Maintenance --> Ethernet Capture** page to operate.

Ethernet Capture		
	Start	

Ethernet Capture

7.3 Import/Export

This page is used to import and export the current configuration of the device, and you may use this configuration file to backup and/or recover. Both YAML and JSON formats are supported.

Please go to Maintenance --> Import/Export page to backup or recover.

Export	
	Export YAML Export JSON
Import	
	Warning: Only yaml/json configuration file format is permitted. When importing a new configuration file, all ongoing broadcasts and/or calls will be interrupted. The device will restart with the new configuration after the process is done.
	•
	Drag files here, or Click Upload

Import/Export

7.4 Auto Provisioning

The system is supporting DHCP Option 066 and static TFTP/HTTP two auto provisioning methods.

When the system starts by default and the network mode is in DHCP, it will try to grab option 066 from the DHCP data as the TFTP server address. If the system couldn't get the option information, it will use the below Static Provisioning Server data to obtain the configuration file. When the system starts, and the network mode is in Static, it will use the below Static Provisioning Server data to directly obtain the configuration file.

The configuration file name's format rules:

1) all letters in the server MAC address need to be uppercase.

2) all colons ":" need to be removed. For example, 68692E290012.

Please go to Maintenance --> Auto Provisioning page to configure static server.

DHCP Provisioning Server							
When the system start by the configuration file. Wh	r default and the network mode is in DHCP; it will try to grab option 066 from the DHCP data as the TFTP server address. If the system couldn't get the option information, it will use the below Static Provisioning Server data to obtain en the system starts, and the network mode is in Static, it will use the below Static Provisioning Server data to directly obtain the configuration file.						
The configuration file nam	The configuration file name's format rules:						
1) all letters in the server	1) all letters in the server MAC address need to be uppercase						
2) all colons ":" need to be	removed. For example, 68692E290012						
Static Provisioning Server							
Access Mode:	TFTP. V						
TFTP Server Address:	10.10.1.5						
Configuration Format:	IZON						
Configuration Filonomou	feet land						
comgutation riename.	ទាំងស្វេទា។						
Undate Mode:	Undate after rehoot						
opuate mode.							
	Submit						

Auto Provisioning

7.5 Test

The detection feature provides an option for the user to check whether the speaker,

microphone and relay will work functionally before registering it to the server.

Please go to **Maintenance --> Test** page to test whether the component is working properly.

Speaker Test	
	Start Test
Microphone Loop Test	
	Start Test
Relay Test	
	Test

Test Settings

- **Speaker Test:** Click on the Start Test button, and the speaker will play a ringtone to test whether the speaker is working. If the speaker is working functionally, you should hear the voice back.
- Microphone Loop Test: Click on the Start Test button, then start speaking to the device.
- **Relay Test:** Click on the Test button and the device will output signals to the relay for testing.

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