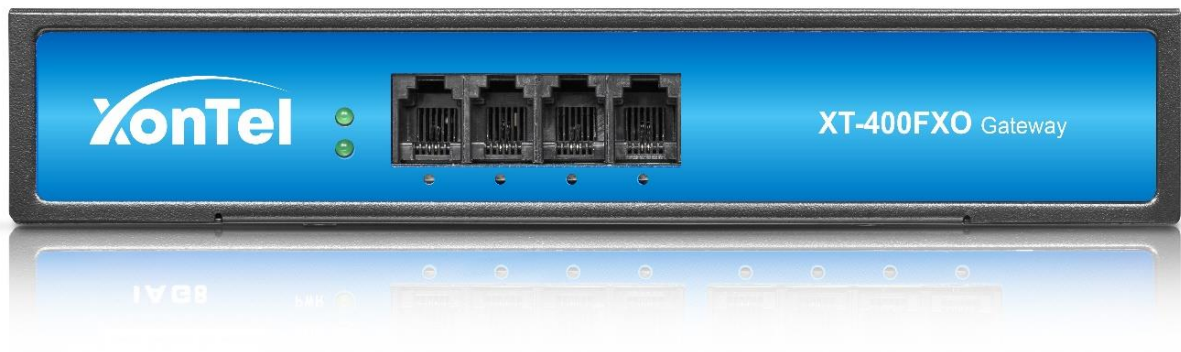




# XT-400FXO Analog Gateway User Manual



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# 1. Overview

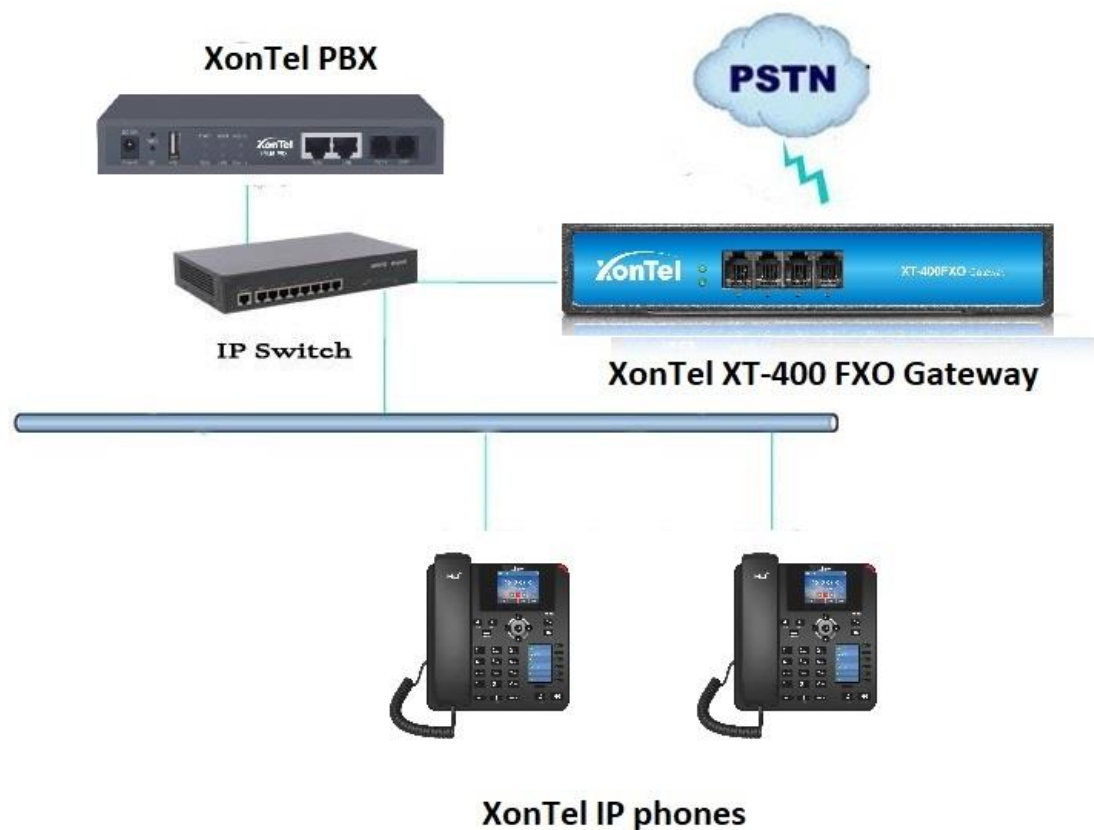
## What is XT-400FXO Analog Gateway?

XonTel XT-400FXO Analog Gateway, an upgrade product of the XonTel Series, is an open source asterisk-based Analog VoIP Gateway solution for SMBs and SOHOs. With friendly GUI and unique modular design, users may easily setup their customized Gateway. Also secondary development can be completed through AMI (Asterisk Management Interface). The XT-400FXO Gateway is with 4 FXO ports for 4 PSTN lines.

The XT-400FXO Analog Gateway are developed for interconnecting a wide selection of codecs including G.711A, G.711U, G.729A, G.722, G.726, iLBC. XT-400FXO Gateway use standard SIP protocol and compatible with Leading VoIP platform, IPPBX and SIP servers. Such as Asterisk, Issabel, 3CX, FreeSWITCH, BroadSoft and VOS VoIP operating platform.

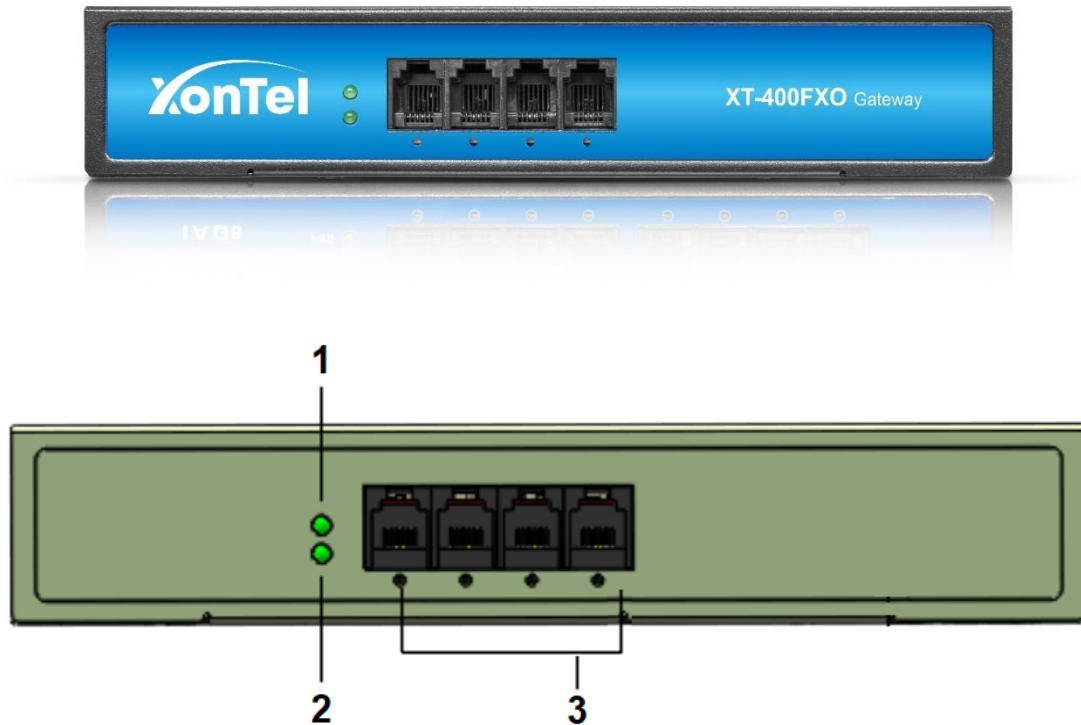
## Sample Application

**Figure 1-2-1 Topological Graph**



# Product Appearance

The picture below is appearance of XonTel XT-400FXO Analog Gateway.



**1: Power Indicator**

**2: System LED**

**3: Analog Telephone Interfaces and corresponding Channels State Indicators**

**Figure 1-3-3 Back Panel**



**1: Power interface**

**2: Reset button**

**3: Ethernet ports and indicators**

# Main Features

## System Features

- NTP time synchronization and client time synchronization.
- Support modify username and password for web login.
- Update firmware online, backup/restore configuration file.
- Abundant Log Info, Automatically Reboot, Call status display.
- Open API interface (AMI), support for custom scripts, dialplans.
- Support SSH remote operation and restore the factory settings.

## Telephony Features

- Support Volume adjustment, Gain adjustment, Caller ID display.
- Three way calling, Call transfer, Dial-up matching table.
- Support T.38 fax relay and T.30 fax transparent, FSK and DTMF signaling.
- Support Echo cancellation, Jitter buffer.

## SIP Features

- Support add, modify & delete SIP Accounts, batch add, modify & delete SIP Accounts.
- Support multiple SIP registrations: Anonymous, Endpoint registers with this gateway, This gateway registers. with the endpoint
- SIP accounts can be registered to multiple servers.

## Network

- Network type: Static IP, Dynamic.
- Support DDNS, DNS, DHCP, DTMF relay, NAT.
- Telnet, HTTP, HTTPS, SSH.
- VPN client.
- Network Toolbox.

# Physical Information

**Description of Physical Information**

Weight	637g
Size	19cm*3.5cm*14.2cm
Temperature	-20~70°C (Storage)
	0~50°C (Operation)



Operation humidity	10%~90% non-condensing
Power source	12V DC/2A
Max power	12W

## Software

**LAN2 Default IP: 172.16.99.1**

**Username: admin**

**Password: xontel**

Please enter the default IP in your browser to scan and configure the module you want.

### Login Interface

Please sign in

http://172.16.99.1

Your connection to this site is not private

Username:

Password:

## 2. System


### Status

On the “**Status**” page, you will see Port/SIP/Routing/Network information and status.

Figure 2-1-1 System Status

**VoIP Gateway**    **SYSTEM** | **ANALOG** | **SIP** | **ROUTING** | **NETWORK** | **ADVANCED** | **LOGS**

**Status** | Time | Login Settings | General | Tools | Information

**SYSTEM** DETAILS  **XonTel XT-400FXO**

all

**Port Information**

Port	Name	Type	Line Status/Sip Account	Port Status	Voltage
1	port-1	FXO	Disconnected	OnHook	1
2	port-2	FXO	Disconnected	OnHook	1
3	port-3	FXO	Disconnected	OnHook	1
4	port-4	FXO	Disconnected	OnHook	1

**SIP Information**

Endpoint Name	User Name	Host	Registration	SIP Status	Response Code
---------------	-----------	------	--------------	------------	---------------

**Routing Information**

Rule Name	From	To
-----------	------	----

**Network Information**

Name	MAC Address	IP Address	Mask	Gateway	RX Packets	TX Packets
LAN1	D4:67:61:C3:02:2C				0	321
LAN2	D4:67:61:C3:02:2D	172.16.99.1	255.255.0.0	172.16.0.1	40996	25524

# Time

SYSTEM  
DETAILS



# XonTel XT-400FXO

## Time Settings

System Time:	2020-12-15 05:39:26
Time Zone:	<input type="text" value="Kuwait"/>
POSIX TZ String:	<input type="text" value="AST-3"/>
NTP Server 1	<input type="text" value="pool.ntp.org"/>
NTP Server 2	<input type="text" value="time.nist.gov"/>
NTP Server 3	<input type="text" value="ntp1.aliyun.com"/>
Auto-Sync from NTP:	<input checked="" type="checkbox"/> ON <input type="checkbox"/>

**Table 2-2-1 Description of Time Settings**

Options	Definition
System Time	Your gateway system time.
Time Zone	The world time zone. Please select the one which is the same or the closest as your city.
POSIX TZ String	Posix time zone strings.
NTP Server 1	Time server domain or hostname. For example, [time.asia.apple.com].
NTP Server 2	The first reserved NTP server. For example, [time.windows.com].
NTP Server 3	The second reserved NTP server. For example, [time.nist.gov].
Auto-Sync from NTP	Whether enable automatically synchronize from NTP server or not. ON is enable, OFF is disable this function.
Sync from NTP	Sync time from NTP server.
Sync from Client	Sync time from local machine.

## Login Settings


Your gateway doesn't have administration role. All you can do here is to reset what new username and password to manage your gateway. And it has all privileges to operate your gateway. You can modify both your “**Web Login Settings**” and “**SSH Login Settings**”. If you have changed these settings, you don't need to log out, just rewriting your new user name and password will be OK.

**Table 2-3-1 Description of Login Settings**

Options	Definition
User Name	Define your username and password to manage your gateway, without space here. Allowed characters is "-_+. < >0-9a-zA-Z". Length: 1-32 characters.
Password	Allowed characters "-_+. < >0-9a-zA-Z". Length: 4-32 characters.
Confirm Password	Please input the same password as 'Password' above.
Login Mode	Select the mode of login.
HTTP Port	Specify the web server port number.
HTTPS Port	Specify the web server port number.
Port	SSH login port number.

**Figure 2-3-1 Login Settings**

SYSTEM  
DETAILS



# XonTel

## XT-400FXO

Web Login Settings

User Name:

Password:

Confirm Password:

Login Mode:

only http

HTTP Port:

80

HTTPS Port:

443

SSH Login Settings

Enable:

ON

User Name:

admin

Password:

\*\*\*\*\*

Port:

12345

Save

# General

## Language Settings

You can choose different languages for your system. If you want to change language, you can switch “**Advanced**” on, then “**Download**” your current language package. After that, you can modify the package with the language you need. Then upload your modified packages, “**Choose File**” and “Add”, those will be ok.

Figure 2-4-1 Language Settings

Language Settings

Language:	English ▾
Advanced:	<input checked="" type="checkbox"/> ON
Language Debug:	<input type="button" value="TURN ON"/> <input type="button" value="TURN OFF"/>
Download:	Download selected language package. <input type="button" value="Download"/>
Delete:	Delete selected language. <input type="button" value="Delete"/>
Add New Language:	New language Package: <input type="button" value="Choose File"/> No file chosen <input type="button" value="Add"/>

## Scheduled Reboot

If switch it on, you can manage your gateway to reboot automatically as you like. There are four reboot types for you to choose, “**By Day, By Week, By Month and By Running Time**”.

Figure 2-4-2 Reboot Types

Scheduled Reboot

Enable:	<input checked="" type="checkbox"/> ON
Reboot Type:	By Week ▾
Week:	Tue ▾
Time:	Hour: 14 ▾ Minute: 16 ▾

# Tools

On the “**Tools**” pages, there are reboot, update, upload, backup and restore toolkits.

You can choose system reboot and Asterisk reboot separately.

Figure 2-5-1 Reboot Prompt



If you press “**Yes**”, your system will reboot and all current calls will be dropped. Asterisk Reboot is the same.

Table 2-5-1 Instruction of reboots

Options	Definition
System Reboot	This will turn off your gateway and then turn it back on. This will drop all current calls.
Asterisk Reboot	This will restart Asterisk and drop all current calls.

To update your system, click on “ **File Upload** ” to choose the XT-400FXO gateway firmware file from your PC then click on “ **System Update** ”

Figure 2-5-2 Update Firmware



If you want to store your previous configuration, you can first backup configuration, then you can upload configuration directly. That will be very convenient for you. Notice, the version of backup and current firmware should be same, otherwise, it would not take effect.

**Figure 2-5-3 Upload and Backup**

The screenshot shows two sections of a web interface. The top section, titled 'Upload Configuration', contains a label 'New configuration file:', a 'Choose File' button, the text 'No file chosen', and a 'File Upload' button. The bottom section, titled 'Backup Configuration', contains a label 'Current configuration file version: 1.0.1' and a 'Download Backup' button.

Upload Configuration	
New configuration file:	<input type="button" value="Choose File"/> No file chosen <input type="button" value="File Upload"/>
Backup Configuration	
Current configuration file version: 1.0.1	<input type="button" value="Download Backup"/>

Sometimes there is something wrong with your gateway that you don't know how to solve it, mostly you will select factory reset. Then you just need to press a button, your gateway will be reset to the factory status.

**Figure 2-5-4 Factory Reset**

The screenshot shows a section titled 'Restore Configuration'. It contains a warning message: 'This will cause all the configuration files to back to default factory values! And reboot your gateway once it finishes.' and a 'Factory Reset' button.

Restore Configuration
This will cause all the configuration files to back to default factory values! And reboot your gateway once it finishes. <input type="button" value="Factory Reset"/>

## Information

On the “**Information**” page, there shows some basic information about the XonTel analog gateway. You can see software and hardware version, storage usage, memory usage and some help information.

**Figure 2-6-1 System Information**



Model Name:	XT-400FXO
Serial Number:	DB69B0641F192828
Software Version:	1.1.16
Hardware Version:	1.0.0
Slot Number:	1
Storage Usage:	360.0K/6.3M (6%)
Memory Usage:	64.7429 % <a href="#">Memory Clean</a>
Build Time:	2020-12-15 10:28:39
System Time:	2020-12-15 06:07:24
System Uptime:	0 days 00:38:52



# 3. Analog

You can see much information about your ports on this page.

## Channel Settings

Figure 3-1-1 Channel System




On this page, you can see every port status, and click action  button to configure the port.

Figure 3-1-2 FXO Port Configure

port-1

General

Port type:

FXO

Name:

port-1

Rx gain:

3.0

Tx gain:

3.0

Ring timeout:

8

"#" is sent out immediately:

☐ OFF

Callout Min interval:

2000

Caller ID

Use callerid:

☒ ON

Hide callerid:

☐ OFF

CID signalling:

bell

DND:

☐ OFF

CID start signal:

ring

▼ Polarity

Answer on polarity switch:

OFF

Hangup on polarity switch:

OFF

Polarity on answer delay:

600

Delay reply 200 OK switch:

OFF

▼ Call Limit

Call Limit Switch

ON

Limit Call Time

3600

Limit Daily Call Times

100

Limit Daily Answer Times

80

Limit Hour Call Times

50

▼ CallerID detect

cidbeforeing:

OFF

▼ Save To Other Channels

Save To Other Channels:

☒ FXO-1
☐ FXO-2
☐ FXO-3
☐ FXO-4
☐ All

Sync All Settings:

☒ Select all settings

Save

Cancel

**Table 3-1-1 Definition of FXO port settings**

Options	Definition
Port-type	Read only, auto detected by the gateway.
Name	FXO port name.
Rx gain	Set the rx gain in dB. Range from -20.0dB to 6.0dB, in 0.1 dB increments.
Tx gain	Set the tx gain in dB, Range from -20.0dB to 6.0dB, in 0.1 dB increments.
Ring timeout	Set the ring timeout in seconds.
"#" is sent out immediately:	When pressing “ # “, the call will be sent immediately.
Callout Min interval	Call out minimum interval. Range from 400-10000ms. Default is 2000ms
Use calledid	Use caller ID or not.
Hide callerid	Whether or not to hide outgoing caller ID.

CID signalling	Type of caller ID signaling in use
DND	Enable or disable do not disturb function
CID start signal	<p>Set the signals of start of caller ID</p> <ul style="list-style-type: none"> <li>• ring: a ring signals the start (default).</li> <li>• polarity: polarity reversal signals the start.</li> <li>• polarity_IN: polarity reversal signals the start, for India.</li> <li>• dtmf: suitable in Denmark, Sweden, and Holland.</li> </ul>
Answer on polarity switch	Use polarity reversal to mark when a outgoing call is answered by the remote party.
Hangup on polarity switch	In some countries, polarity reversal is used to signal the disconnect of phone line. If this option is selected, the call will be considered “hang-up “ on a polarity reversal.
Polarity on answer delay	Minimal time period (ms) between the answer polarity switch and hangup polarity switch. Default is 600ms.
Delay reply 200 OK switch	<p>It is invalid when start polarity. Default is Off.</p> <ul style="list-style-type: none"> <li>• On: Delay timer in seconds to replay 200 ok</li> <li>• Off: Immediately replay 200 ok</li> </ul>
Call Limit Switch	Enable or disable call limit. Default is Off.
cidbeforering	Save to handle irregular CID function.
Save To Other Channels	Save channel parameters to other channels synchronously.

## Pickup Settings

Call pickup is a feature used in a telephone system that allows one to answer someone else's telephone call. You can set the “Time Out” and “Number” parameters either globally or separately for each port. The feature is accessed by pressing a special sequence of numbers which you set as “Number” parameter on the telephone set when it is enabled this function.

**Figure 3-2-1 Pickup Configure**

The screenshot shows the configuration interface for the XonTel XT-400FXO Analog Gateway. At the top, there is a header with the 'ANALOG DETAILS' icon and the product name 'XonTel XT-400FXO'. Below the header, a 'Status Settings' tab is selected. The configuration area contains three fields: 'Enable:' with a radio button set to 'ON', 'Time Out:' with an empty text input field, and 'Number:' with an empty text input field. A 'Save' button is located at the bottom left of the configuration area. The footer of the page displays the 'VoIP Gateway' logo and the text 'XonTel Analog Gateway'.

**Table 3-2-1 Definition of Pickup**

Options	Definition
Enable	ON (enabled),OFF (disabled)
Time Out	Set the timeout, in milliseconds (ms).Note: You can only enter numbers.
Number	Pickup number

# Advanced Settings

Figure 3-3-1 General Configuration

Global settings

▼ General

Tone duration:	<input type="text" value="100"/>
Tone interval:	<input type="text" value="100"/>
Dial timeout:	<input type="text" value="180"/>
Echo Type:	<input type="text" value="Oslec"/>
Echo cancel tap length:	<input type="text" value="512"/>
FXS Signaling:	<input type="text" value="Loop start"/>

Table 3-3-1 Instruction of General

Options	Definition
Tone duration	How long generated tones (DTMF and MF) will be played on the channel. (in milliseconds)
Tone interval	How long between tone and tone will be played on the channel. (in milliseconds)
Dial timeout	Specifies the number of seconds we attempt to dial the specified devices.
Codec	Set the global encoding : mulaw, alaw.
Echo Type	Set the echo type (Oslec or Aec).
Echo cancel tap length	Hardware echo canceler tap length.
FXS signaling	Set the FXS signaling (Loop start or Kewlstart.

Figure 3-3-2 Fax Configuration

▼ Fax

Mode:	<input type="text" value="T.38"/>
Rate:	<input type="text" value="14400"/>
Ecm:	<input type="text" value="OFF"/>

**Table 3-3-2 Definition of Fax**

Options	Definition
Mode	Set the transmission mode.
Rate	Set the rate of sending and receiving.
Ecm	Enable/disable T.30 ECM (error correction mode) by default.

**Figure 3-3-3 Country Configuration**

▼ Country

Country:	China ▼
Ring cadence:	1000,4000
Dial tone:	450
Ring tone:	450/1000,0/4000
Busy tone:	450/350,0/350
Call waiting tone:	450/400,0/4000
Congestion tone:	450/700,0/700
Dial recall tone:	450
Record tone:	950/400,0/10000
Info tone:	450/100,0/100,450/100,0/100,450/100,0/100,450/400,0/400
Stutter tone:	450+425

**Table 3-3-3 Definition of Country**

Options	Definition
Country	Configuration for location specific tone indications.
Ring cadence	List of durations the physical bell rings.
Dial tone	Set of tones to be played when one picks up the hook.
Ring tone	Set of tones to be played when the receiving end is ringing.

Busy tone	Set of tones played when the receiving end is busy.
Call waiting tone	Set of tones played when there is a call waiting in the background.
Congestion tone	Set of tones played when there is some congestion.
Dial recall tone	Many phone systems play a recall dial tone after hook flash.
Record tone	Set of tones played when call recording is in progress.
Info tone	Set of tones played with special information messages (e.g., number is out of service.)

## FXO

Figure 3-4-1 FXO settings

FXO settings

▼ Busy detect

Busy detect:	<input checked="" type="checkbox"/> ON
Busy count:	<input type="text" value="3"/>
Busy country:	<input type="text" value="China"/> ▼
Fxo Monitor:	<input type="checkbox"/> OFF

▼ Silence detect

Silence detect:	<input type="checkbox"/> OFF
Silence threshold:	<input type="text" value="250"/>
Max silence:	<input type="text" value="480"/>
Rx threshold:	<input type="text" value="38"/>
Tx threshold:	<input type="text" value="38"/>

▼ Dahdi parameters

Polaritydebounce:	<input type="text" value="64"/> ms
ringdebounce:	<input type="text" value="64"/> ms
ringoncount:	<input type="text" value="4"/> times
ringoffcount:	<input type="text" value="0"/> times

Save Cancel

**Table 3-4-1 Definition of FXO settings**

Options	Definition
Busy detect	Enable or disable busy detection. Busy detect used for detecting busy signal or far end hang-up.
Busy count	Configure the number of busy tones the user will hear before hanging up the call when <b>Busy detect</b> is enabled.
Busy country	Select country for tone settings.
FXO Monitor	Enable or disable FXO monitor function.
Silence detect	Enable or disable silence detection function.
Silence threshold	What we consider silence: The lower, the more sensitive. Range: 100ms to 500ms. Default is 250ms.
Max silence	How silence threshold of silence before hanging up. (Eg: 16 is 250ms * 16=4s). Range: 2 to 1020(200ms to 512s).
Rx threshold	Rx threshold range: -20dbm0 to -40dbm0, default 38 (-38dbm0), all values are understood to be negative.
Tx threshold	Tx threshold range: -20dbm0 to -40dbm0, default 38 (-38dbm0), all values are understood to be negative.
Polaritydebounce	The time of polaritydebounce. Range from 0ms to 2048ms, default is 64ms.
Ringdebounce	The time of ringdebounce. Range from 0ms to 2048ms, default is 64ms.
ringoncount	Counting the times of ring on. Range from 0 to 128.
ringoffcount	Counting the times of ring off. Range from 0 to 128, default is 0.



# Driver

Figure 3-5-1 Driver settings

Driver

▼ General

Codec:

Ulaw ▼

Impedance:

Kuwait ▼

▼ CallerID detect

cidbeforering:

☐ OFF

cidbuflen:

3000

ms

cutcidbufheadlen:

128

ms

fixedtimepolarity:

-1

ms

▼ Hardware gain

FXO Rx gain:

0

dB\*10

FXO Tx gain:

0

dB\*10

Save

Cancel

Table 3-5-1 Definition of Driver settings

Options	Definition
Codec	Set the global encoding that will be used in gateway (ulaw, alaw).
Impedance	Configuration for impedance.
cidbeforering	Switch to handle irregular CID function.
cidbuflen	CID media stream length byte size.
cutcidbufheadlen	CID media header length byte size.
fixedtimepolarity	Transmit polarity line reversal signal delay time.
FXO RX gain	Set FXO to IP gain. Range from -150 to 120, the default is 0.
FXO TX gain	Set FXO to terminal gain. Range from -150 to 120, the default is 0.

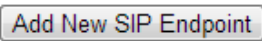

# 4. SIP

## SIP Endpoints

This page shows everything about your SIP, you can see status of each SIP.

Figure 4-1-1 SIP Status



You can click  button to add a new SIP endpoint, and if you want to modify existed endpoints, you can click  button.

## Main Endpoint Settings

There are 3 kinds of registration types for choose. You can choose “ **Anonymous, Server or Client** ”.

You can configure as follows:

If you set up a SIP endpoint by registration “ **None** ” to a server, then you can’t register other SIP endpoints to this server. (If you add other SIP endpoints, this will cause Out-band Routes and Trunks confused.)

Figure 4-1-2 Anonymous Registration

Add New SIP Endpoint

▼ Main Endpoint Settings

Name :	<input type="text" value="301"/>
User Name :	<input type="text"/> <input checked="" type="checkbox"/> Anonymous
Password :	<input type="password"/> <input type="checkbox"/>
Registration :	<input type="text" value="None"/>
Hostname or IP Address :	<input type="text" value="172.16.99.200"/>
Backup Hostname or IP Address :	<input type="text"/>
Port :	<input type="text"/>
Transport :	<input type="text" value="UDP"/>
NAT Traversal :	<input type="text" value="Yes"/>
SUBSCRIBE for MWI :	<input type="text" value="No"/>
VOS Encryption :	<input type="text" value="No"/>
STUN Switch :	<input type="checkbox"/> OFF

For convenience, we have designed a method that you can register your SIP endpoint to your gateway, thus your gateway just works as a server.

Figure 4-1-3 Register to Gateway

Add New SIP Endpoint

▼ Main Endpoint Settings

Name :	<input type="text" value="301"/>
User Name :	<input type="text" value="301"/> <input type="checkbox"/> Anonymous
Password :	<input type="password" value="..."/> <input type="checkbox"/>
Registration :	<input type="text" value="Server"/>
Hostname or IP Address :	<input type="text" value="dynamic"/>
Backup Hostname or IP Address :	<input type="text"/>
Port :	<input type="text"/>
Transport :	<input type="text" value="UDP"/>
NAT Traversal :	<input type="text" value="Yes"/>
SUBSCRIBE for MWI :	<input type="text" value="No"/>
VOS Encryption :	<input type="text" value="No"/>
STUN Switch :	<input type="checkbox"/> OFF

Also you can choose registration by “ **Client** ”, it’s the same with “None”, except name and password.

**Figure 4-1-4 Register to Server**

**Add New SIP Endpoint**

▼ Main Endpoint Settings

Name :	<input type="text" value="301"/>
User Name :	<input type="text" value="301"/> <input type="checkbox"/> Anonymous
Password :	<input type="password" value="..."/> <input type="checkbox"/>
Registration :	<div>Client ▼</div>
Hostname or IP Address :	<input type="text" value="172.16.99.200"/>
Backup Hostname or IP Address :	<input type="text"/>
Port :	<input type="text"/>
Transport :	<div>UDP ▼</div>
NAT Traversal :	<div>Yes ▼</div>
SUBSCRIBE for MWI :	<div>No ▼</div>
VOS Encryption :	<div>No ▼</div>
STUN Switch :	<div><input type="checkbox"/> OFF</div>

**Table 4-1-1 Definition of SIP Options**

Options	Definition
Name	A name which is able to read by human. And it’s only used for user’s reference.
Username	User Name the endpoint will use to authenticate with the gateway.
Password	Password the endpoint will use to authenticate with the gateway. Allowed characters.
Registration	<b>None</b> ---Not registering; <b>Server</b> ---When register as this type, it means the FXO gateway acts as a SIP server, and SIP endpoints register to the gateway; <b>Client</b> ---When register as this type, it means the FXO gateway acts as a client, and the endpoint should be register to a SIP server;
Hostname or IP Address	IP address or hostname of the endpoint or 'dynamic' if the endpoint has a dynamic IP address. This will require registration.
Backup Hostname or IP Address	Backup IP address or hostname of the endpoint.

Port	The port number the gateway will connect to at this endpoint.
Transport	This sets the possible transport types for outgoing. Order of usage, when the respective transport protocols are enabled, is UDP, TCP, TLS. The first enabled transport type is only used for outbound messages until a Registration takes place. During the peer Registration the transport type may change to another supported type if the peer requests so.
NAT Traversal	Addresses NAT-related issues in incoming SIP or media sessions. <b>No</b> ---Use Rport if the remote side says to use it. <b>Force Rport on</b> ---Force Rport to always be on. <b>Yes</b> ---Force Rport to always be on and perform comedia RTP handling. <b>Rport if requested and comedia</b> ---Use Rport if the remote sidesays to use it and perform comedia RTP handling.
SUBSCRIBE for MWI	Enable or disable subscribe to receive MWI.
VOS Encryption	Enable or disable VOS encryption.
STUN Switch	You need to turn the stun switch on the SIP advanced setting page to take effect.

## Advanced: Registration Options

Figure 4-1-5 Advanced: Regitration Options

▼ Advanced:Registration Options

Authentication User :	<input type="text"/>
Register Extension :	<input type="text"/> <input type="checkbox"/> Modify
Register User :	<input type="text"/> <input type="checkbox"/> Modify
From User :	<input type="text"/> <input type="checkbox"/> Modify
From Domain :	<input type="text"/>
Qualify :	No ▾
Qualify Frequency :	<input type="text" value="60"/>
Outbound Proxy :	<input type="text"/> : <input type="text" value="5060"/>
Custom Registry :	<input type="checkbox"/> OFF
Enable Outboundproxy to Host :	<input type="checkbox"/> OFF

**Table 4-1-2 Definition of Registration Options**

Options	Definition
Authentication User	A username to use only for registration.
Register Extension	When Gateway registers as a SIP user agent to a SIP proxy (provider), calls from this provider connect to this local extension.
Register User	A register username to use for registration.
From User	A username to identify the gateway to this endpoint.
From Domain	A domain to identify the gateway to this endpoint.
Quality	Whether or not to check the endpoint's connection status.
Qualify Frequency	How often, in seconds, to check the endpoint's connection status.
Outbound Proxy	A proxy to which the gateway will send all outbound signaling instead of sending signaling directly to endpoints.
Custom Registry	Custom Registry On / Off.
Enable Outboundproxy to Host	Outboundproxy to Host On / Off.

## Call Settings

**Figure 4-1-6 Advanced: Registration Options**

▼ Call Settings

DTMF Settings

DTMF Mode :

RFC2833 ▼

Call Limit

Call Limit :

4

Caller ID Settings

Trust Remote-Party-ID :

No ▼

Send Remote-Party-ID :

No ▼

Remote Party ID Format :

P-Asserted-Identity Header ▼

Caller ID Presentation :

Allowed,not screened ▼

**Table 4-1-3 Definition of Call Options**

Options	Definition
DTMF Mode	Set default DTMF Mode for sending DTMF. Default: rfc2833.  Other options: 'info', SIP INFO message (application/dtmf-relay);  'Inband', Inband audio (require 64kbit codec -alaw, ulaw).
Call Limit	Setting a call-limit will cause calls above the limit not to be accepted.
Trust Remote-Party-ID	Whether or not the Remote-Party-ID header should be trusted.
Send Remote-Party-ID	Whether or not to send the Remote-Party-ID header.
Remote Party ID Format	How to set the Remote-Party-ID header: from Remote-Party-ID or from P-Asserted-Identity.
Caller ID Presentation	Whether or not to display Caller ID.

## Advanced: Signaling Settings

**Figure 4-1-7 Advanced: Signaling Settings**

### ▼ Advanced:Signaling Settings

<b>Progress Inband :</b>	Never ▾
<b>Allow Overlap Dialing :</b>	No ▾
<b>Append user= phone to URI :</b>	No ▾
<b>Add Q.850 Reason Headers :</b>	No ▾
<b>Honor SDP Version :</b>	Yes ▾
<b>Allow Transfers :</b>	Yes ▾
<b>Allow Promiscuous Redirects :</b>	No ▾
<b>Max Forwards :</b>	70
<b>Send TRYING on REGISTER :</b>	No ▾

**Table 4-1-4 Definition of Signaling Options**

Options	Definition
Progress Inband	<p>If we should generate in-band ringing.</p> <p>Always use 'never' to never use in-band signaling, even in cases where some buggy devices might not render it.</p> <p>Valid values: yes, no, Never. Default: never.</p>
Allow Overlap Dialing	Allow Overlap Dialing: Whether or not to allow overlap dialing. Disabled by default.
Append user=phone to URI	Whether or not to add '; user=phone' to URIs that contain a valid phone number.
Add Q.850 Reason Headers	Whether or not to add Reason header and to use it if it is available.
Honor SDP Version	<p>By default, the gateway will honor the session version number in SDP packets and will only modify the SDP session if the version number change. Turn this option off to force the gateway to ignore the SDP session version number and treat all SDP data as new data. This is required for devices that send non-standard SDP packets (observed with Microsoft OCS). By default this option is on.</p>
Allow Transfers	Whether or not to globally enable transfers. Choosing 'no' will disable all transfers (unless enabled in peers or users). Default is enabled.
Allow Promiscuous Redirects	<p>Whether or not to allow 302 or REDIR to non-local SIP address.</p> <p>Note that promiscredirect when redirects are made to the local system will cause loops since this gateway is incapable of performing a "hairpin" call.</p>
Max Forwards	Setting for the SIP Max-Forwards header (loop prevention).
Send TRYING on REGISTER	Send a 100 Trying when the endpoint registers.



## Advanced: Timer Settings

Figure 4-1-8 Advanced: Timer Settings

### ▼ Advanced: Timer Settings

Default T1 Timer :	<input type="text" value="500"/>
Call Setup Timer :	<input type="text" value="32000"/>
Session Timers :	<input type="text" value="Accept"/> ▼
Minimum Session Refresh Interval :	<input type="text" value="90"/>
Maximum Session Refresh Interval :	<input type="text" value="1800"/>
Session Refresher :	<input type="text" value="UAS"/> ▼

Table 4-1-5 Definition of Timer Options

Options	Definition
Default T1 Timer	This timer is used primarily in INVITE transactions. The default for Timer T1 is 500ms or the measured run-trip time between the gateway and the device if you have qualify=yes for the device.
Call Setup Timer	If a provisional response is not received in this amount of time, the call will auto-congest. Defaults to 64 times the default T1 timer.
Session Timers	Session-Timers feature operates in the following three modes: originate, Request and run session-timers always; accept, run session-timers only when requested by other UA; refuse, do not run session timers in any case.
Minimum Session Refresh Interval	Minimum session refresh interval in seconds. Default is 90 seconds.
Maximum Session Refresh Interval	Maximum session refresh interval in seconds. Defaults to 1800 seconds.
Session Refresher	The session refresher, uac or uas. Defaults to uas.

# Media Settings

Figure 4-1-9 Media Settings

▼ Media Settings

Codec Priority 1:	G.711 u-law ▼
Codec Priority 2:	G.711 a-law ▼
Codec Priority 3:	G.729 ▼
Codec Priority 4:	G.722 ▼
Codec Priority 5:	ILBC ▼

Table 4-1-6 Definition of Media Settings


Options	Definition
Media Settings	Select codec from the drop down list. Codecs should be different for each Codec Priority.

# Batch Create SIP

If you want add batch Sip accounts, you can configure this page. You can choose all the register mode.

Figure 4-2-1 Batch SIP Endpoints

SIP  
DETAILS



XonTel

XT-400FXO

<input type="checkbox"/>	ID	User Name	Password	Hostname or IP Address	Port	Register Mode
<input type="checkbox"/>		<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	client <input type="button" value="v"/>
<input type="checkbox"/>	1	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	client <input type="button" value="v"/>
<input type="checkbox"/>	2	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	client <input type="button" value="v"/>
<input type="checkbox"/>	3	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	client <input type="button" value="v"/>
<input type="checkbox"/>	4	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	client <input type="button" value="v"/>

Save

Cancel

Batch

☒ AutoPassword

# Advanced SIP Settings

## Networking

Figure 4-3-1 Networking Options

Networking

General

UDP Bind Port:

Enable TCP:

TCP Bind Port:

TCP Authentication Timeout:

TCP Authentication Limit:

Enable Hostname Lookup:

**Table 4-3-1 Definition of Networking Options**

Options	Definition
UDP Bind Port	Choose a port on which to listen for UDP traffic.
Enable TCP	Enable server for incoming TCP connection (default is no).
TCP Bind Port	Choose a port on which to listen for TCP traffic.
TCP Authentication Timeout	The maximum number of seconds a client has to authenticate. If the client does not authenticate before this timeout expires, the client will be disconnected.(default value is: 30 seconds).
TCP Authentication Limit	The maximum number of unauthenticated sessions that will be allowed to connect at any given time(default is:50).
Enable Hostname Lookup	Enable DNS SRV lookups on outbound calls Note: the gateway only uses the first host in SRV records Disabling DNS SRV lookups disables the ability to place SIP calls based on domain names to some other SIP users on the Internet specifying a port in a SIP peer definition or when dialing outbound calls with suppress SRV lookups for that peer or call.

## NAT Settings

**Figure 4-3-2 NAT Settings**

NAT Settings			
Local Network:	<input type="text"/> <input type="button" value="Add"/>		
Local Network List:	<table><thead><tr><th>IP Range</th><th>Action</th></tr></thead><tbody></tbody></table>	IP Range	Action
IP Range	Action		
Subscribe Network Change Event:	<input type="button" value="No"/> ▾		
Match External Address Locally:	<input type="button" value="No"/> ▾		
Dynamic Exclude Static:	<input type="button" value="No"/> ▾		
Externally Mapped TCP Port:	<input type="text"/>		
External Address:	<input type="text"/>		
External Hostname:	<input type="text"/>		
Hostname Refresh Interval:	<input type="text"/>		

**Table 4-3-2 Definition of NAT Settings**

Options	Definition
Local Network	<p>Format:192.168.0.0/255.255.0.0 or 172.16.0.0./12. A list of IP address or IP ranges which are located inside a NATed network.</p> <p>This gateway will replace the internal IP address in SIP and SDP messages with the external IP address when a NAT exists between the gateway and other endpoints.</p>
Local Network List	Local IP address list that you added.
Subscribe Network Change Event	Through the use of the test_stun_monitor module, the gateway has the ability to detect when the perceived external network address has changed. When the stun_monitor is installed and configured, chan_sip will renew all outbound registrations when the monitor detects any sort of network change has occurred. By default, this option is enabled, but only takes effect once res_stun_monitor is configured. If res_stun_monitor is enabled and you wish to not generate all outbound registrations on a network change, use the option below to disable this feature.
Match External Address Locally	Only substitute the externaddr or externhost setting if it matches
Dynamic Exclude Static	<p>Disallow all dynamic hosts from registering as any IP address. Used for statically defined hosts.</p> <p>This helps avoid the configuration error of allowing your users to register at the same address as a SIP provider.</p>
Externally Mapped TCP Port	The externally mapped TCP port, when the gateway is behind a static NAT or PAT
External Address	<p>The external address (and optional TCP port) of the NAT.</p> <p>External Address = hostname[:port] specifies a static address[:port] to be used in SIP and SDP messages.Examples:</p> <p>External Address = 12.34.56.78</p> <p>External Address = 12.34.56.78:9900</p>
External Hostname	<p>The external hostname (and optional TCP port) of the NAT.</p> <p>External Hostname = hostname[:port] is similar to External Address. Examples:</p> <p>External Hostname = foo.dyndns.net</p>
Hostname Refresh Interval	How often to perform a hostname lookup. This can be useful when your NAT device lets you choose the port mapping, but the IP address is dynamic. Beware, you might suffer from service disruption when the name server resolution fails.

# STUN Settings

Figure 4-3-3 STUN Settings

STUN Settings

Enable:	<input type="checkbox"/> OFF
Server Port:	<input type="text" value="3478"/>
Refresh Request Interval:	<input type="text" value="30"/>
Server IP Address/Domain Name:	<input type="text" value="stun.xten.com"/>

Table 4-3-3 Definition of Stun Settings Options

Options	Definition
Enable	Enable or disable STUN settings.
Server port	STUN server port.
Refresh Request Interval	Refresh Request Interval of the STUN server
Server IP Address/Domain Name	Address or domain of the STUN server

# RTP Settings

Figure 4-3-4 RTP Settings

RTP Settings

Start of RTP Port Range:	<input type="text" value="30000"/>
End of RTP port Range:	<input type="text" value="40000"/>
RTP Timeout:	<input type="text" value="20"/>

Table 4-3-4 Definition of NAT Settings Options

Options	Definition
Start of RTP Port Range	Start of range of port numbers to be used for RTP.
End of RTP port Range	End of range of port numbers to be used for RTP.
RTP Timeout	RTP timeout

# Parsing and Compatibility

Figure 4-3-5 Parsing and Compatibility Settings

▼ Parsing and Compatibility

General

Strict RFC Interpretation:

No ▼

Send Compact Headers:

No ▼

SDP Owner:

Matching Priority:

Extern-Number ▼

Table 4-3-5 Instruction of Parsing and Compatibility

Options	Definition
Strict RFC Interpretation	Check header tags, character conversion in URIs, and multiline headers for strict SIP compatibility.
Send Compact Headers	Send compact SIP headers.
SDP Owner	Allows you to change the username filed in the SDP owner string. This filed must not contain spaces.
Matching Priority	Set matching priority for the gateway (From-Number / Extern-Number).
Disallowed SIP Methods	The external hostname (and optional TCP port) of the NAT.
Hangup Cause Code	Set FXO gateway hangup cause code.

# Caller ID and Callee ID

Figure 4-3-6 Caller ID and Callee ID Settings

Caller ID

Shrink Caller ID:

No ▾

SIP From:

Name ▾

Callee ID

SIP To:

Tel/Tel ▾

Callee ID:

EXTEN ▾

Table 4-3-6 Instruction Caller ID and Callee ID

Caller ID	
Options	Definition
Shrink Caller ID	The shrinkcallerid function removes '(', ' ', ')', non-trailing '.', and '-' not in square brackets. For example, the caller id value 555.5555 becomes 5555555 when this option is enabled.  Disabling this option results in no modification of the caller id value, which is necessary when the caller id represents something that must be preserved. By default this option is on.
SIP From	Set SIP from type (Name or Number)
Callee ID	
Options	Definition
SIP To	Callee ID transfer (Tel/Tel or Tel/User).
Callee ID	Default is <b>EXTEN</b> .  Eg: When selecting <b>SIP To</b> , Name is Jason and Number is 401, To mode is:  "Jason"<sip:401@172.16.6.239;transport=UDP>



# Timer Configuration

Figure 4-3-7 Timer configuration Settings

Caller ID	
Shrink Caller ID:	No ▾
SIP From:	Name ▾

Callee ID	
SIP To:	Tel/Tel ▾
Callee ID:	EXTEN ▾

Table 4-3-7 Instruction of Timer configuration

Options	Definition
Maximum Registration Expiry	Maximum allowed time in seconds of incoming registrations and subscriptions.
Minimum Registration Expiry	Minimum length of registration/subscriptions in seconds
Default Registration Expiry	Default length of incoming/outgoing registration in seconds.

# Outbound Registrations

Figure 4-3-8 Outbound Registrations Settings

Outbound Registrations	
Registration Timeout:	<input type="text"/>
Number of Registration Attempts:	<input type="text"/>

Table 4-3-8 Definition of Outbound Registrations

Options	Definition
Registration Timeout	How often in seconds to try registration calls.
Number of Registration Attempts	Number of regiteration attemps before giving up. 0=continue forever, hammer the other server until it accepts the registration

Security

Figure 4-3-9 Security Settings

▼ Security

Authentication Settings

Match Auth Username:

No ▼

Realm:

Use Domain as Realm:

No ▼

Always Auth Reject:

No ▼

Authenticate Options Requests:

No ▼

Guest Calling

Allow Guest Calling:

No ▼

Table 4-3-9 Definition of Secutity settings

Options	Definition
Match Auth Username	If available, match user entry using the 'username' field from the authentication line instead of the 'from' field.
Realm	Realm for digest authentication. Realms MUST be globally unique according to RFC 3261. Set this to your host name or domain name.

Use Domain as Realm	Use the domain from the SIP Domains setting as the realm. In this case, the realm will be based on the request 'to' or 'from' header and should match one of the domain. Otherwise, the configured 'realm' value will be used.
Always Auth Reject	When an incoming INVITE or REGISTER is to be rejected, for any reason, always reject with an identical response equivalent to valid username and invalid password/hash instead of letting the requester know whether there was a matching user or peer for their request. This reduces the ability of an attacker to scan for valid SIP usernames. This option is set to 'yes' by default.
Authenticate Options Requests	Enabling this option will authenticate OPTIONS requests just like INVITE requests are. By default this option is disabled.
Allow Guest Calling	Allow or reject guest calls (default is yes, to allow). If your gateway is connected to the Internet and you allow guest calls, you want to check which services you offer everyone out there, by enabling them in the default context.

## Media

**Figure 4-3-10 Media Settings**

Media

ISDN Media Settings

Premature Media:

No ▾

RTP for SIP

directmedia:

yes ▾

QoS/ToS

TOS for SIP Packets:

TOS for RTP Packets:

**Table 4-3-10 Instruction of Media**

Options	Definition
Premature Media	Some ISDN links send empty media frames before the call is in ringing or progress state. The SIP channel will then send 183 indicating early media which will be empty - thus users get no ring signal. Setting this to "yes" will stop any media before we have call progress (meaning the SIP channel will not send 183 Session Progress for early media). Default is 'yes'. Also make sure that the SIP peer is configured with progressinband=never. In order for 'noanswer' applications to work, you need to run the progress() application in the priority before the app.
directmedia	Redirect the RTP media stream to go directly from the caller to the callee or not.
TOS for SIP Packets	Sets type of service for SIP packets
TOS for RTP Packets	Sets type of service for RTP packets

## Sip Account Security

This analog gateway support TLS protocol for encrypting calls. On the one hand, it can work as TLS server, generate the session keys used for the secure connection. On the other hand, it also can be registered as a client, upload the key files provied by the server.

**Figure 4-4-1 TLS settings**

▼ TLS Setting

TLS Enable:

OFF

TLS Verify Server:

ON

Port:

5061

TLS Client Method:

tlsv1

▼ TLS keys

Type	Key Name	IP Address	Organization	Password	Operation
client					Create

▼ Key Files

Upload the pem file:

Choose File

No file chosen

Upload the crt file:

Choose File

No file chosen

Save

File Name	File Size	Operation
-----------	-----------	-----------

Save

**Table 4-4-1 Instruction of TLS**













Options	Definition
TLS Enable	Enable or disable DTLS-SRTP support.
TLS Verify Server	Enable or disable tls verify server(default is no).
Port	Specify the port for remote connection.
TLS Client Method	Values include tlsv1, sslv3, sslv2, specify protocol for outbound client connections, default is sslv2.



## 5. Routing

The gateway embraces the flexible and friendly routing settings for user. It supports up to 512 routing rules and about 100 pairs of calleeID/callerID manipulations can be set in a rule. It supports DID function The gateway support trunk group and trunk priority management.

### Call Routing Rules

**Figure 5-1-1 Routing Rules**

<input type="checkbox"/>	Move	Order	Rule Name	From	To	Actions
<input type="checkbox"/>		2	test	8006	4	 
<input type="checkbox"/>		1	outbound	soft phone	9000	 
<input type="checkbox"/>		3	out_test	9004	8005	 
<input type="checkbox"/>		4	inbound	9000	soft phone	 

You are allowed to set up new routing rule by  , and after setting routing rules, move rules' order by pulling up and down, click  button to edit the routing and  to delete it. Finally click the  button to save what you set.  will show current routing rules. Otherwise you can set up unlimited routing rules.

There is an example for routing rules number conversion, it transforms calling, called number at the same time. Suppose you want eleven numbers start at 159 to call the eleven numbers of start at 136. Calling transform delete the three numbers from left, then writing number 086 as prefix, delete the last four numbers, and then add number 0755 at the end, it will show caller name is China Telecom. Called transform adds 086 as prefix, and Change the last two number to 88.

**Figure 5-1-1**

processing rules	prepend	prefix	Match pattern	SdfR	StA	RdfR	Caller Name
Calling Transformation	086	159	xxxxxxxx	4	0755		China telecom
Called transformation	086	136	xxxxxxx	2	88		N/A

You can click  button to set up your routings.

**Figure 5-1-2 Example of Setup Routing Rule**

### Create a Call Routing Rule

▼ Call Routing Rule

Routing Name:

Call Comes in From:

None ▼

Send Call Through:

None ▼

Force Answer:

☐ OFF

▶ DISA Settings

▶ Advance Routing Rule

Save

Cancel

The figure above realizes that calls from “support” SIP endpoint switch you have registered will be transferred to Port-1. When “Call Comes in From” is 1001, “prepend”, “prefix” and “match pattern” in “Advanced Routing Rule” are ineffective, and just “CallerID” option is available.

**Table 5-1-2 Definition of Call Routing Rule**

Options	Definition
Routing Name	The name of this route. Should be used to describe what types of calls this route matches (for example, 'SIP2FXO' or 'FXO2SIP').
Call Comes in From	The launching point of incoming calls.
Send Call Through	The destination to receive the incoming calls.
Force Answer	Enable or disable force answer option.

**Figure 5-1-3 DISA Settings**

▼ DISA Settings

Authentication:

ON

Secondary Dialing:

OFF

DISA Timeout:

5 s

Max Password Digits:

10

Password:

Edit

**Table 5-1-3 Definition of DISA settings**

Options	Definition
Authentication	Enable or disable password authentication.
Secondary Dialing	Enable or disable secondary dialing.
DISA Timeout	Select the timeout range from 1 second to 10 seconds.
Max Password Digits	Restrict the max length password dgits.
Password	Click the button “ <b>Edit</b> ” to edit DISA authentication password.

**Figure 5-1-4 Advance Routing Rule**

▼ Advance Routing Rule

CalleeID/callerID Manipulation

Callee\_Dial\_pattern

Prepend

+

Prefix

||

Match Pattern

||

(

SDfR

)

+

StA

)

RdfR

Caller\_Dial\_pattern

Prepend

+

Prefix

||

Match Pattern

||

(

SDfR

)

+

StA

)

RdfR

Caller Name

Modify\_CallerID ▼

+ Add More Dial Pattern Fields

Time Patterns that will use this Route

Time to start:

- ▼

:

- ▼

Week Day start:

- ▼

Month Day start:

- ▼

Month start:

- ▼

Time to finish:

- ▼

:

- ▼

Week Day finish:

- ▼

Month Day finish:

- ▼

Month finish:

- ▼

+ Add More Time Pattern Fields

Change Rules

Forward Number

Failover Call Through Number

Add a Failover Call Through Provider

**Table 5-1-4 Definition of Advance Routing Rule**

Options	Definition
CalleeID/callerID Manipulation	<p>A Dial Pattern is a unique set of digits that will select this route and send the call to the designated trunks. If a dialed pattern matches this route, no subsequent routes will be tried. If Time Groups are enabled, subsequent routes will be checked for matches outside of the designated time(s).</p> <p>X matches any digit from 0-9</p> <p>Z matches any digit from 1-9</p> <p>N matches any digit from 2-9</p> <p>[1237-9] matches any digit in the brackets (example: 1,2,3,7,8,9) matches one or more dialed digits.</p> <p><b>Prepend:</b> Digits to prepend to a successful match. If the dialed number matches the patterns specified by the subsequent columns, then this will be prepended before sending to the trunks.</p> <p><b>Prefix:</b> Prefix to remove on a successful match. The dialed number is compared to this and the subsequent columns for a match. Upon a match, this prefix is removed from the dialed number before sending it to the trunks.</p> <p><b>Mach Pattern:</b> The dialed number will be compared against the prefix + this match pattern. Upon</p>



	<p>a match, the match pattern portion of the dialed number will be sent to the trunks.</p> <p><b>SDfR (Stripped Digits from Right):</b> The amount of digits to be deleted from the right end of the number. If the value of this item exceeds the length of the current number, the whole number will be deleted.</p> <p><b>RDfR (Reserved Digits from Right):</b> The amount of digits to be reserved from the right end of the number. If the value of this item under the length of the current number, the whole number will be reserved.</p> <p><b>StA (Suffix to Add):</b> Designated information to be added to the right end of the current number.</p> <p>Caller Name: What caller name would you like to set before sending this call to the endpoint.</p> <p>Disabled Caller Number Change : Disable the caller number change, and fixed caller number match pattern.</p>
Time Patterns that will use this Route	Time Patterns that will use this Route help
Forward Number	<p>What destination number will you dial?</p> <p>This is very useful when you have a transfer call.</p>
Dialing Delay	The action of send callee ID will be delayed when you are creating a calling.
Failover Call Through Number	The gateway will attempt to send the call out each of these in the order you specify.

# Groups

Sometimes you want to make a call through one port, but you don't know if it is available, so you have to check which port is free. That would be troublesome. But with our product, you don't need to worry about it. You can combine many Ports or SIP to groups. Then if you want to make a call, it will find available port automatically.

Figure 5-2-1 Group Rules



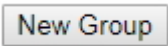

You can click  button to set new group, and if you want to modify existed group, you can click  button.

Figure 5-2-2 Create a Group

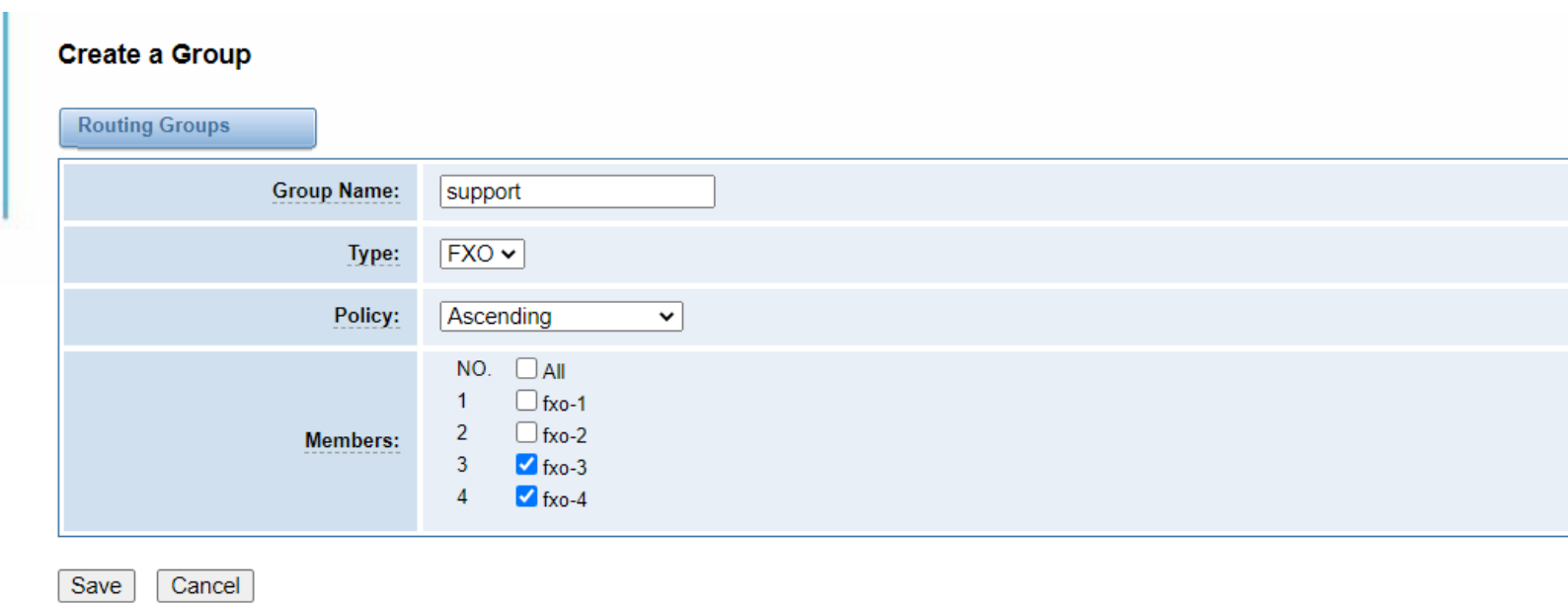


Figure 5-2-3 Modify a Group

Modify a Group

Routing Groups

Group Name:	<input type="text" value="office"/>
Type:	<input type="text" value="FXO"/>
Policy:	<input type="text" value="Ascending"/>
Members:	<div><div>NO.</div><div><input checked="" type="checkbox"/> All</div></div> <div><div>1</div><div><input checked="" type="checkbox"/> fxo-1</div></div> <div><div>2</div><div><input checked="" type="checkbox"/> fxo-2</div></div> <div><div>3</div><div><input checked="" type="checkbox"/> fxo-3</div></div> <div><div>4</div><div><input checked="" type="checkbox"/> fxo-4</div></div>

Save

Cancel

Table 5-2-1 Definition of Routing Groups


Options	Definition
Group Name	The mean of this route. Should be used to describe what types of calls this route match (for example, ‘sip1 TO port1’ or ‘port1 To sip2’).
Type	Group type (FXO or SIP).
Policy	Policy type (Ascending, Aescending, Roundrobin and Reverse roundrobin)
Members	Select FXO ports members for this group.

## Batch Create Rules

If you bind telephone for each FXO port and want to establish separate call routings for them. For convenience, you can batch create call routing rules for each FXO port at once in this page.

Figure 5-3-1 Batch Create Rules

SIP  
DETAILS



XonTel

XT-400FXO

<input type="checkbox"/>	Port	Forward Number	Increment	Copy	Sip Endpoint	Increment	Copy	CallerID	Increment	Copy
<input type="checkbox"/>		<input type="text"/>			None ▾			<input type="text"/>		
<input type="checkbox"/>	FXO-1	<input type="text"/>			None ▾			<input type="text"/>		
<input type="checkbox"/>	FXO-2	<input type="text"/>			None ▾			<input type="text"/>		
<input type="checkbox"/>	FXO-3	<input type="text"/>			None ▾			<input type="text"/>		
<input type="checkbox"/>	FXO-4	<input type="text"/>			None ▾			<input type="text"/>		

Save

Cancel

Batch

Fixed

# Advanced

Figure 5-4-1 Routing advanced settings

ROUTING

DETAILS



XonTel

XT-400FXO

General

Flexible Routing Switch:

ON

Enable Internal FXS Call:

OFF

Enable Internal SIP Call:

ON

Save

Table 5-4-1 Definition of Routing advanced settings

Options	Definition
Flexible Routing Switch	If you enable this option, you can enable “ <b>Internal FXS Call</b> ” option.
Enable Internal SIP Call	Enable or disable internal SIP call

# 6. Network

On “Network” page, there are “Network Settings”, “VPN Settings”, “DDNS Settings”, and “Toolkit”.

## Network Settings

There are three types of LAN port IP, Factory, Static and DHCP. Factory is the default type, and it is **172.16.99.1**.

When you Choose LAN IPv4 type is “**Factory**”, this page is not editable.

A reserved IP address to access in case your gateway IP is not available. Remember to set a similar network segment with the following address of your local PC.

Figure 6-1-1 LAN Settings Interface

Network Type

Network Type:

Dual

LAN1 Settings

Type:

DHCP

MAC:

d4:67:61:c3:01:f9

LAN2 Settings

Type:

Factory

MAC:

d4:67:61:c3:01:fa

Address:

172.16.99.1

Netmask:

255.255.0.0

Default Gateway:

172.16.0.1

DNS Servers

DNS Server 1:

202.96.134.133

DNS Server 2:

202.96.128.166

DNS Server 3:

8.8.8.8

DNS Server 4:

Reserved Access IP

Enable:

ON

Reserved Address:

192.168.99.1

Reserved Netmask:

255.255.255.0

Save

**Table 6-1-1 Definition of Network Settings**

Options	Definition
Network Type	<p>Select the Ethernet mode.</p> <p><b>Bridge:</b> LAN2 port interface will be used for uplink connection. LAN1 port interface will be used as bridge for PC connection.</p> <p><b>Dual:</b> the two Ethernet interfaces will use different IP addresses. Assign two IP addresses in this mode.</p>
Type	<p>The method to get IP.</p> <p><b>Factory:</b> Getting IP address by Slot Number (System → information to check slot number).</p> <p><b>Static:</b> manually set up your gateway IP.</p> <p><b>DHCP:</b> automatically get IP from your local LAN.</p>
MAC	Physical address of your network interface.
Address	The IP address of your FXO gateway.
Netmask	The subnet mask of your FXO gateway.
Default Gateway	Default gateway IP address.
DNS Servers	A list of DNS IP address. Basically this info is from your local network service provider.
Reserved Access IP	A reserved IP address to access in case your gateway IP is not available. Remember to set a similar network segment with the following address of your local PC.
Enable	<p>A switch to enable the reserved IP address or not.</p> <p>ON(enabled), OFF(disabled)</p>
Reserved Address	The reserved IP address for this gateway.
Reserved Netmask	The subnet mask of the reserved FXO gateway IP address.

# VPN Settings

You can upload the VPN client configuration, if success, you can see a VPN virtual network card on SYSTEM status page. About the configure format you can refer to the **Notice and Sample configuration**.

Figure 6-2-1 VPN Interface

VPN Settings

VPNType: OpenVPN

Switch: OFF

OpenVPN Settings

Upload Configuration: Choose File No file chosen File Upload

Notice:  
1.The format of the upload file should be like this "xxxx.tar.gz" or "xxx.ovpn";  
2.The postfix of configuration files should be ".conf";  
3.The upload file can not include any directory;  
4.If still confused please download the sample configuration and refer to it;

Sample Configuration Download Samples

\* Connection Status: Failed to connect

Save

# DDNS Settings

You can enable or disable DDNS (Dynamic Domain Name Server).

Figure 6-3-1 DDNS Interface

DDNS Settings

DDNS:	ON
Type:	inadyn
Username:	admin
Password:	admin
Your domain:	www.internet.site.com



**Table 6-3-1 Definition of DDNS Settings**

Options	Definition
DDNS	Enable/Disable DDNS (dynamic domain name server)
Type	Set the type of DDNS server.
Username	Your DDNS account's login name.
Password	Your DDNS account's password.
Your domain	The domain to which your web server will belong.

## Toolkit

It is used to check network connectivity. Support Ping command on web GUI.

**Figure 6-4-1 Network Connectivity Checking**

Interface:	LAN	
google.com	Ping	
google.com	Traceroute	

## Output

<pre>ping -I 172.16.179.1 -c 4 google.com  PING google.com (173.194.72.101) from 172.16.179.1: 56 data bytes 64 bytes from 173.194.72.101: icmp_seq=1 ttl=46 time=596.6 ms 64 bytes from 173.194.72.101: icmp_seq=3 ttl=46 time=600.5 ms  --- google.com ping statistics --- 4 packets transmitted, 2 packets received, 50% packet loss round-trip min/avg/max = 596.6/598.5/600.5 ms</pre>
Result
Successfully ping [ google.com ].

Figure 6-4-2 Channel Recording

Channel Recording

Interface:	all
Source host:	
Destination host:	172.16.99.99
Port:	
Tcpdump Option Paramater:	Add a Tcpdump paramter option

Start

Figure 6-4-3 Capture Network Data

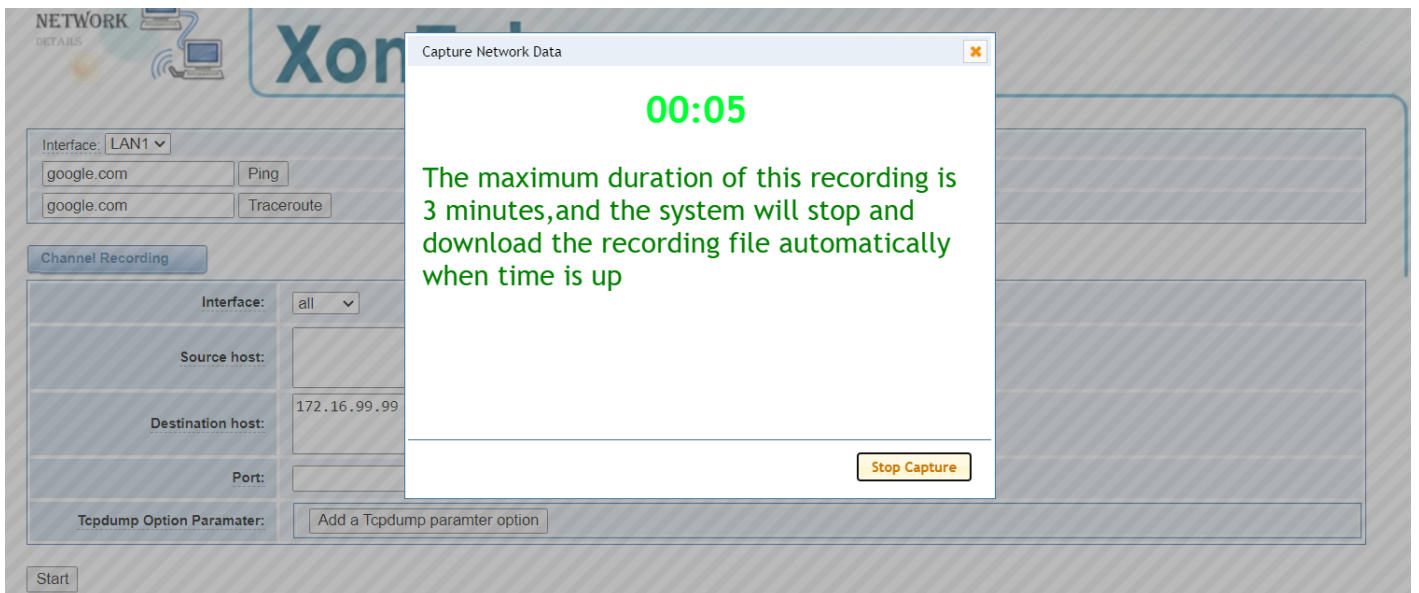


Table 6-4-1 Definition of Channel Recording

Options	Definition
Interface	The name of network interface.
Source host	Capture the data of source host you specified
Destination host	Capture the data of destination host you specified
Port	Capture the data of port you specified
Tcpdump Option Parameter	The tool of tcpdump capture network data by parameter option specified.

# Security Settings

Figure 6-5-1 Network security settings

Firewall Settings

Firewall Enable:

ON

Ping Enable:

OFF

White List Settings

White List Enable:

ON

List IP Settings:

Black List Settings

Black List Enable:

ON

List IP Settings:

Save

Table 6-5-1 Definition of network security settings

Options	Definition
Firewall Enable	Enable or disable firewall option in the FXO gateway.
Disable Ping	If you enable this option the FXO gateway will disable Ping response.
Whitelist Enable	If you enable this option, you can add approved list of IP addresses that have permission to access your FXO gateway.
Blacklist Enable	If you enable this option, you can add a list of IP addresses that will be blocked or cant access your FXO gateway.

# Security Rules

From this page you can add the security rules in your FXO Gateway as shown below.

Figure 6-6-1 Security rules settings

Basic Settings | VPN Settings | DDNS Settings | Toolkit | Security Settings | **Security Rules**

NETWORK  
DETAILS



XonTel

XT-400FXO

Rule Name	Type	Protocol	IP	Port	Actions
-----------	------	----------	----	------	---------

New Rule

VoIP Gateway

XonTel Analog Gateway

Figure 6-6-2 Create new security rule

Create a Rule

Security Rules

Rule Name:	local		
Protocol:	UDP ▾		
Port:	5060	:	5061
IP / MASK:	192.168.1.0	/	255.255.255.0
Actions:	ACCEPT ▾		

Save Cancel

Table 6-5-1 Definition of security rules

Options	Definition
Rule name	Set a name for the created security rule.
Protocol	Choose the protocol (UDP, TCP, ICMP).

Port	Set the range of ports.
IP / Mask	The format for IP is IP / Mask. Confirm the range by IP and mask.
Action	Choose the action for the firewall rule (Accept, Drop).

# 7. Advanced

## Asterisk API

When you make “Enabled” switch to “on”, this page is available.

Figure 7-1-1 API Interface

General

Enable:

ON

Port:

5038

Manager

Manager Name:

admin

Manager secret:

.....

☐

Deny:

0.0.0.0/0.0.0.0

Permit:

172.16.123.123/255.255.255.255&192.168

**Figure 7-1-2 Permissions for API Interface**

Rights

<b>System:</b>	read: <input checked="" type="checkbox"/> write: <input checked="" type="checkbox"/>
<b>Call:</b>	read: <input checked="" type="checkbox"/> write: <input checked="" type="checkbox"/>
<b>Log:</b>	read: <input checked="" type="checkbox"/> write: <input checked="" type="checkbox"/>
<b>Verbose:</b>	read: <input checked="" type="checkbox"/> write: <input checked="" type="checkbox"/>
<b>Command:</b>	read: <input type="checkbox"/> write: <input checked="" type="checkbox"/>
<b>Agent:</b>	read: <input checked="" type="checkbox"/> write: <input checked="" type="checkbox"/>
<b>User:</b>	read: <input checked="" type="checkbox"/> write: <input checked="" type="checkbox"/>
<b>Config:</b>	read: <input checked="" type="checkbox"/> write: <input checked="" type="checkbox"/>
<b>DTMF:</b>	read: <input checked="" type="checkbox"/> write: <input type="checkbox"/>
<b>Reporting:</b>	read: <input checked="" type="checkbox"/> write: <input checked="" type="checkbox"/>
<b>CDR:</b>	read: <input checked="" type="checkbox"/> write: <input type="checkbox"/>
<b>Dialplan:</b>	read: <input checked="" type="checkbox"/> write: <input type="checkbox"/>
<b>Originate:</b>	read: <input type="checkbox"/> write: <input checked="" type="checkbox"/>
<b>All:</b>	read: <input checked="" type="checkbox"/> write: <input checked="" type="checkbox"/>

Save

**Table 7-1-1 Definition of Asterisk API**

Options	Definition
Port	Network port number.
Manager Name	Name of the manager without space.
Manager secret	Password for the manager. Characters: Allowed characters “- _ + . < > & 0-9 a-z A-Z”. Length: 4-32 characters.
Deny	If you want to deny many hosts or networks, use & as separator. Example: 0.0.0.0/0.0.0.0 or 192.168.1.0/255.255.255.0&10.0.0.0/255.0.0.0
Permit	If you want to permit many hosts or network, use & as separator. Example: 0.0.0.0/0.0.0.0 or 192.168.1.0/255.255.255.0&10.0.0.0/255.0.0.0

System	General information about the system and ability to run system management commands, such as Shutdown, Restart, and Reload.
Call	Information about channels and ability to set information in a running channel.
Log	Logging information. Read-only. (Defined but not yet used.)
Verbose	Verbose information. Read-only. (Defined but not yet used.)
Command	Permission to run CLI commands. Write-only.
Agent	Information about queues and agents and ability to add queue members to a queue.
User	Permission to send and receive UserEvent.
Config	Ability to read and write configuration files.
DTMF	Receive DTMF events. Read-only.
Reporting	Ability to get information about the system.
CDR	Output of cdr, manager, if loaded. Read-only.
Dialplan	Receive NewExten and Varset events. Read-only.
Originate	Permission to originate new calls. Write-only.
All	Select all or deselect all.

Once you set like the above figure, the host 172.16.80.16/255.255.0.0 is allowed to access the gateway API. Please refer to the following figure to access the gateway API by putty. **172.16.80.16** is the gateway's IP, and **5038** is its API port.

**Figure 7-1-2 Putty Access**

```

192.168.33.208 - PuTTY

To access your PBX System, please open
the Internet Browser using the following URL:
http://192.168.33.208
#####

[root@localhost /]#telnet 172.16.80.16 5038
Asterisk Call Manager/1.1
action:login
username:admin
secret:admin

Response: Success
Message: Authentication accepted

Event: FullyBooted
Privilege: system,all
Status: Fully Booted

```

# Asterisk CLI

In this page, you are allowed to run Asterisk commands.

Figure 7-2-1 Asterisk Command Interface

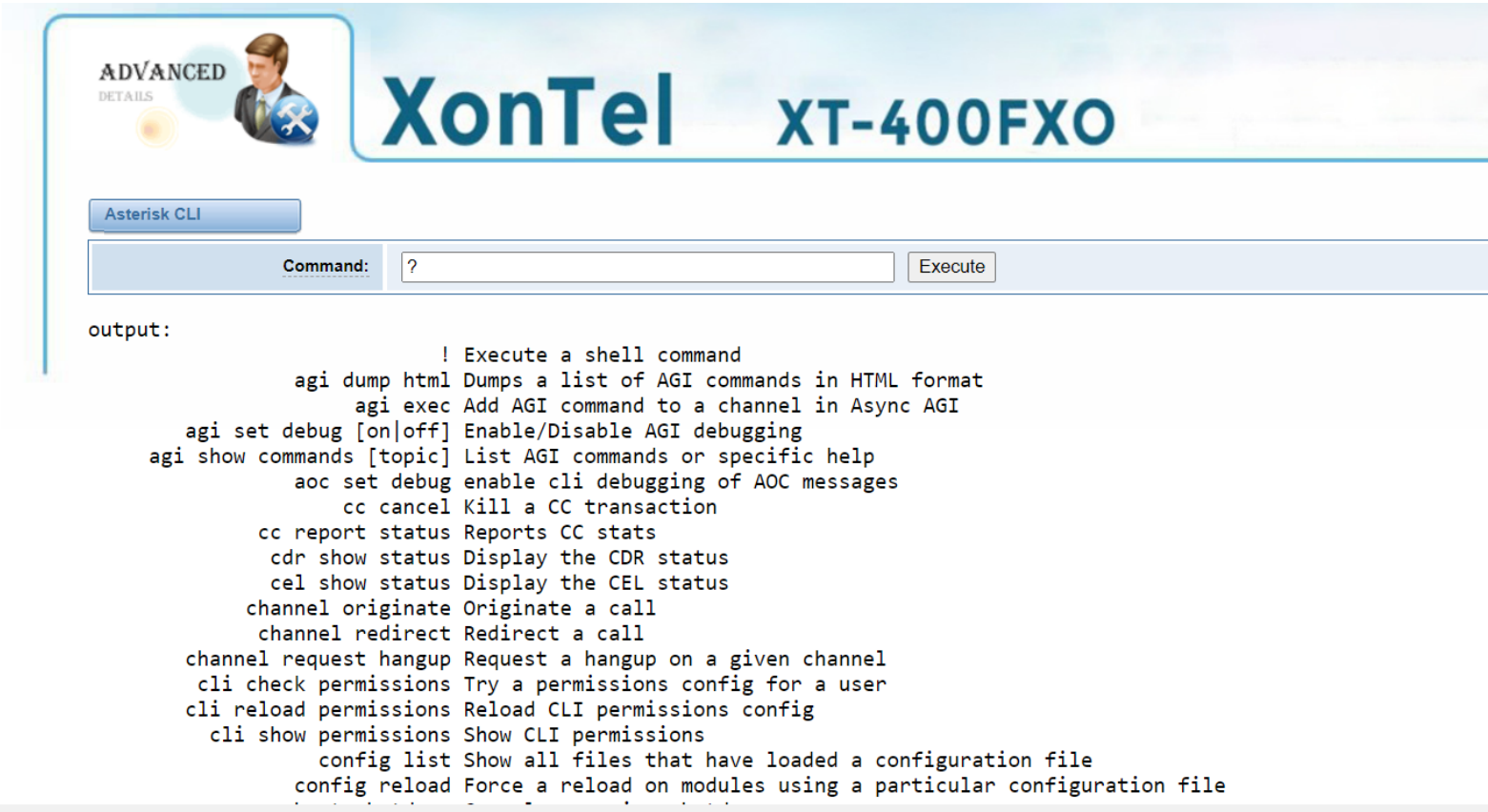


Table 7-2-1 Definition of Asterisk API

Options	Definition
Command	Type your Asterisk CLI commands here to check or debug your gateway.

If you type “help” or “?” and execute it, the page will show you the executable commands.



# Asterisk File Editor

On this page, you are allowed to edit and create configuration files.

Click the file to edit.

Figure 7-3-1 Configuration Files List

Configuration Files

File Name	File Size
<a href="#">asterisk.conf</a>	247
<a href="#">astmanproxy.conf</a>	440
<a href="#">capture_channel.conf</a>	0
<a href="#">cdr.conf</a>	572
<a href="#">chan_dahdi.conf</a>	240
<a href="#">dahdi-channels.conf</a>	2982
<a href="#">dahdi_startup.conf</a>	78
<a href="#">dnsmgr.conf</a>	245
<a href="#">extensions.conf</a>	195
<a href="#">extensions_dialmatchingrules.conf</a>	927

1234▶

/ 4

go

New Configuration FileReload Asterisk

Click “**New Configuration File**” to create a new configuration file. After editing or creating, please reload Asterisk.

# TR069

XonTel XT-400FXO Gateway can be managed remotely by service provider with TR069 management protocol and is interoperable with various ACS.

Figure 7-4-1 TR069 settings

TR069 Settings

TR069:	<input type="checkbox"/> OFF	
Server:	<input type="text" value="http://172.16.2.13:7547"/>	
Username:	<input type="text" value="admin"/>	
Password:	<input type="password" value="....."/>	
Provisioning code:	<input type="text"/>	
Model Name:	<input type="text" value="H2-AG"/>	
Periodic inform enable:	<input type="checkbox"/> OFF	
Periodic inform interval:	<input type="text" value="100"/>	Second
Connection request URL:	<input type="text"/>	
Connection request username:	<input type="text"/>	
Connection request password:	<input type="text"/>	
* Connection Status:	Failed to connect	

Save

# Auto Provision

XonTel XT-400FXO Gateway can be managed remotely by service provider with TR069 management protocol and is interoperable with various ACS.

Figure 7-5-1 Auto Provision settings

Auto Provision Settings

Firmware Enable:	ON
Configuration Enable:	ON
DHCP Option 66:	ON

Save

Table 7-5-1 Definition of Auto Provision settings

Options	Definition
Firmware Enable	Enabe or disable firmware auto provision in FXO gateway.
Configuration Enable	Enable or disable configuration auto provision in FXO gateway.
DHCP Option 66	Get asc server address from option 66 DHCP,

# 8. Logs

## Log Settings

On the “**Log Settings**” page, you should set the related logs on to scan the responding logs page. For example, set “System Logs” on like the following, then you can turn to “**System**” page for system logs, otherwise, system logs are unavailable. And the same with other log pages.

Figure 8-1-1 Logs Settings

System Logs	
System Logs:	<input checked="" type="checkbox"/> ON
Auto clean:	<input checked="" type="checkbox"/> ON    maxsize: 1MB ▼

Asterisk Logs	
Verbose:	<input type="checkbox"/> OFF
Notice:	<input type="checkbox"/> OFF
Warning:	<input type="checkbox"/> OFF
Debug:	<input type="checkbox"/> OFF
Error:	<input type="checkbox"/> OFF
DTMF:	<input type="checkbox"/> OFF
Auto clean:	<input checked="" type="checkbox"/> ON    maxsize: 100KB ▼

SIP Logs	
SIP Logs:	<input type="checkbox"/> OFF
Auto clean:	<input checked="" type="checkbox"/> ON    maxsize: 100KB ▼

DAHDI Logs	
DAHDI Logs:	<input type="checkbox"/> OFF
Auto clean:	<input checked="" type="checkbox"/> ON    maxsize: 2MB ▼

Call Detail Record	
Call Detail Record:	<input type="checkbox"/> OFF
Auto clean:	<input checked="" type="checkbox"/> ON    maxsize: 5MB ▼

Syslog	
Local Syslog:	<input type="checkbox"/> OFF
Server Address:	<input type="text"/>
Server Port:	<input type="text" value="0"/>
Klog Level:	EMERG ▼
CDR Level:	OFF ▼

Save

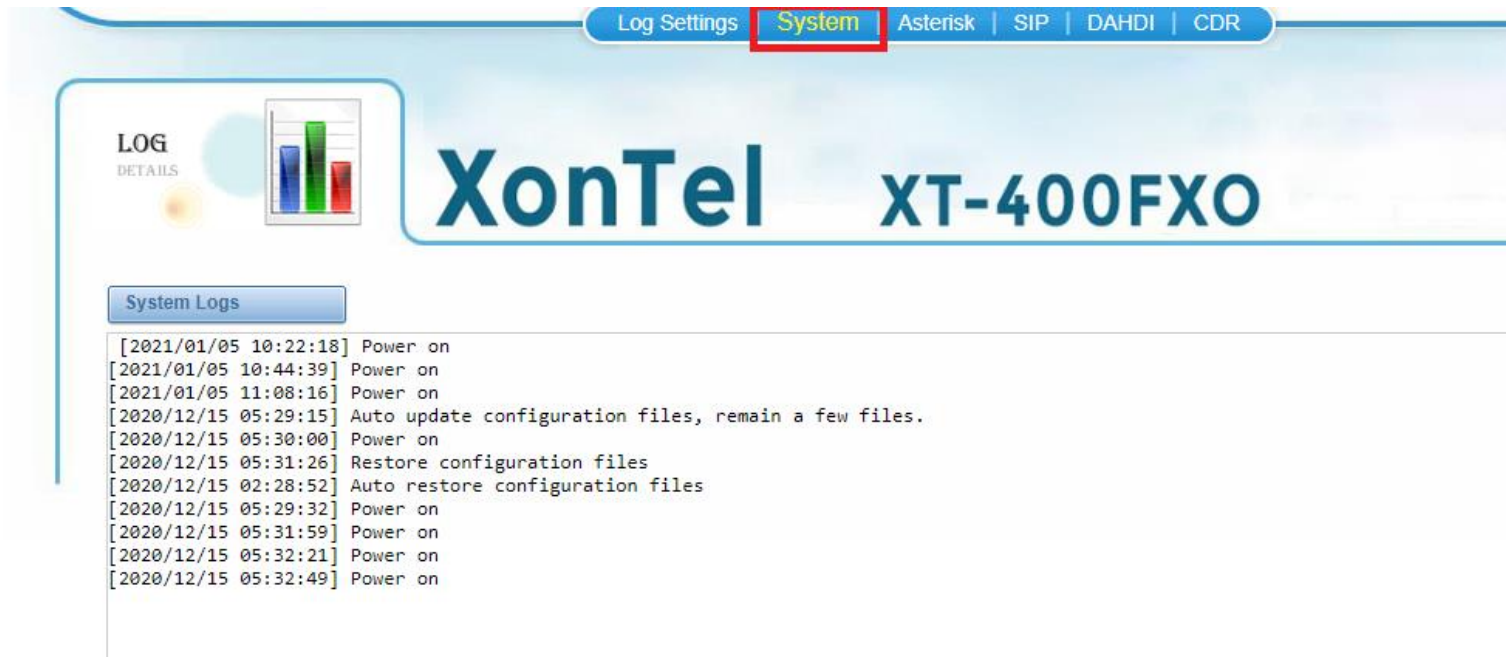
**Table 8-1-1 Definition of LOG**

Options	Definition
System Logs	Whether enable or disable system log.
Auto clean (System Logs)	<b>switch on:</b> when the size of log file reaches the max size, the system will cut a half of the file. New logs will be retained. <b>switch off:</b> logs will remain, and the file size will increase gradually.
Verbose	Asterisk console verbose message switch.
Notice	Asterisk console notice message switch.
Warning	Asterisk console warning message switch.
Debug	Asterisk console debug message switch.
Error	Asterisk console error message switch.
DTMF	Asterisk console DTMF info switch.
Auto clean: (asterisk logs)	<b>switch on:</b> when the size of log file reaches the max size, the system will cut a half of the file. New logs will be retained. <b>switch off:</b> logs will remain, and the file size will increase gradually.
SIP Logs:	Whether enable or disable SIP log.
Auto clean: (SIP logs)	<b>switch on:</b> when the size of log file reaches the max size, the system will cut a half of the file. New logs will be retained. <b>switch off:</b> logs will remain, and the file size will increase gradually.
DAHDI Logs:	Whether enable or disable DAHDI log.
Auto clean: (DAHDI logs)	<b>switch on:</b> when the size of log file reaches the max size, the system will cut a half of the file. New logs will be retained. <b>switch off:</b> logs will remain, and the file size will increase gradually.
Call Detail Record	Displaying Call Detail Records for each channel.
Auto clean: (Call Detail Record)	<b>switch on:</b> when the size of log file reaches the max size, the system will cut a half of the file. New logs will be retained. <b>switch off :</b> logs will remain, and the file size will increase gradually.
Local Syslog	This action needs to set Asterisk log level in the log
Server address	Syslog server IP address, and then turn on the local syslog to take effect.
Server port	Syslog server port.
Klog level	Set the kernel log level
CDR level	Set the CDR log level.

## System

For this page you check systems logs as shown below

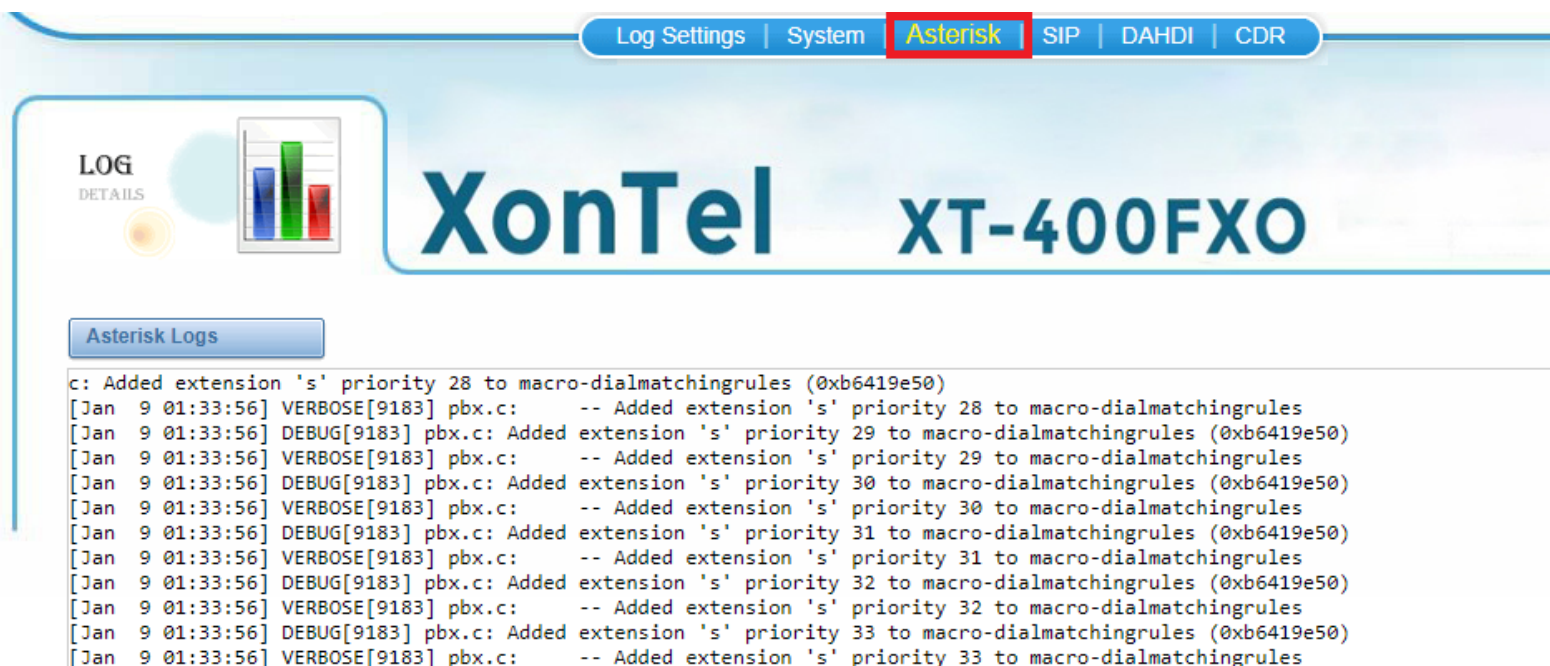
Figure 8-2-1 System Logs Output



## Asterisk

For this page you check Asterisk logs as shown below.

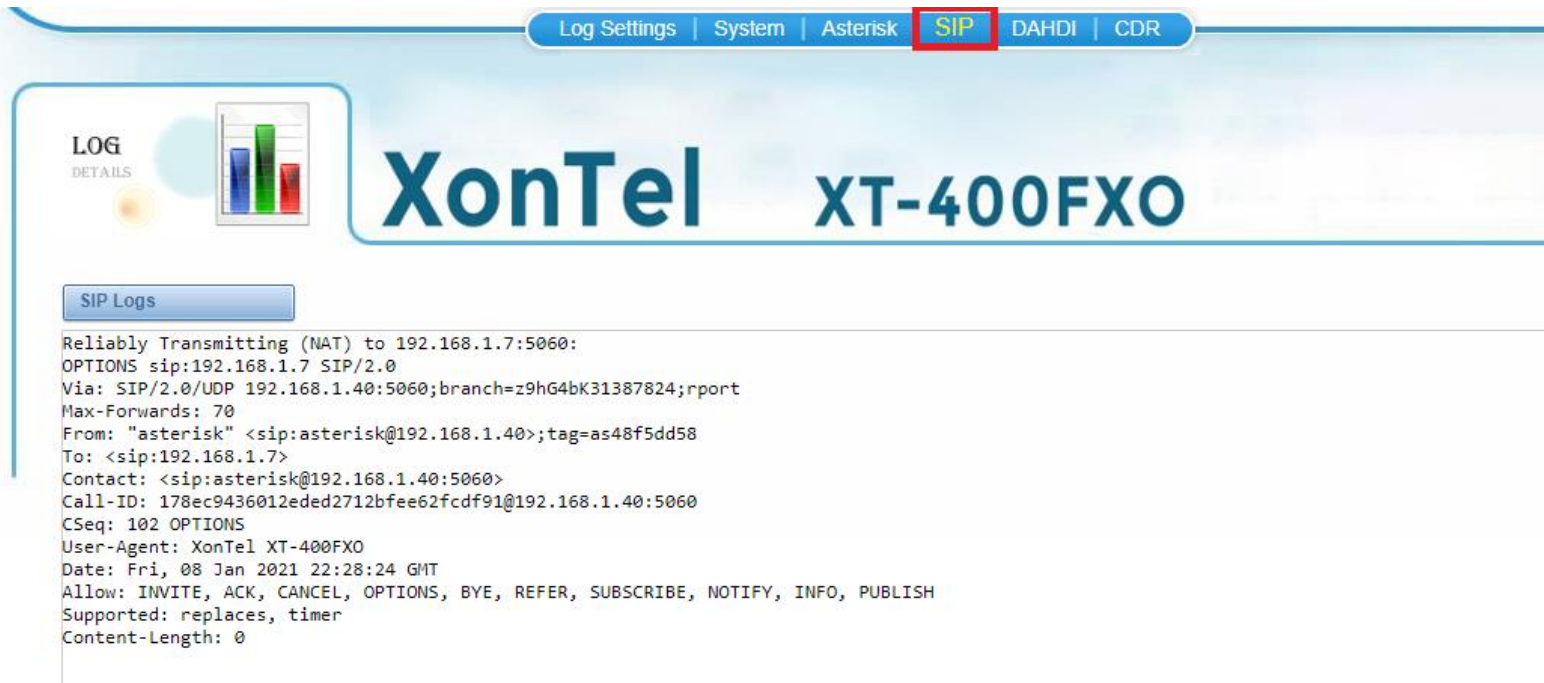
Figure 8-3-1 Asterisk Logs



## SIP

For this page you check SIP logs as shown below.

Figure 8-4-1 SIP Logs



The screenshot displays the XonTel XT-400FXO web interface. At the top, a navigation bar includes links for Log Settings, System, Asterisk, SIP (highlighted with a red box), DAHDI, and CDR. On the left, there is a 'LOG DETAILS' section with a bar chart icon. The main header area features the 'XonTel XT-400FXO' logo. Below this, a 'SIP Logs' button is visible. The log content shows a SIP OPTIONS request being transmitted to 192.168.1.7:5060. The log text is as follows:

```
Reliably Transmitting (NAT) to 192.168.1.7:5060:
OPTIONS sip:192.168.1.7 SIP/2.0
Via: SIP/2.0/UDP 192.168.1.40:5060;branch=z9hG4bK31387824;rport
Max-Forwards: 70
From: "asterisk" <sip:asterisk@192.168.1.40>;tag=as48f5dd58
To: <sip:192.168.1.7>
Contact: <sip:asterisk@192.168.1.40:5060>
Call-ID: 178ec9436012eded2712bfee62fcd91@192.168.1.40:5060
CSeq: 102 OPTIONS
User-Agent: XonTel XT-400FXO
Date: Fri, 08 Jan 2021 22:28:24 GMT
Allow: INVITE, ACK, CANCEL, OPTIONS, BYE, REFER, SUBSCRIBE, NOTIFY, INFO, PUBLISH
Supported: replaces, timer
Content-Length: 0
```

## DAHDI

For this page you check DAHDI logs as shown below.

Figure 8-5-1 DAHDI Logs



The screenshot displays the XonTel XT-400FXO web interface with the DAHDI tab selected. The navigation bar at the top shows 'DAHDI' highlighted with a red box. The left sidebar contains a 'LOG DETAILS' section with a bar chart icon. The main header area features the 'XonTel XT-400FXO' logo. Below the header, a 'DAHDI Logs' button is visible. The log content area is currently empty.

# CDR

You can scan every call detail records in this page. We also provide the filter for you to search some specific records.

Figure 8-6-1 Call Detail Record

VoIP Gateway

SYSTEM | ANALOG | SIP | ROUTING | NETWORK | ADVANCED | LOGS

Log Settings | System | Asterisk | SIP | DAHDI | CDR

LOG  
DETAILS



XonTel XT-400FXO

Delete Successfully

	Caller ID	Callee ID	From	To	Start Time	Duration	Result
	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<div>from <input type="text"/></div> <div>to <input type="text"/></div>	<div>from <input type="text"/></div> <div>to <input type="text"/></div>	All <input type="text"/>

Filter

Clean Filter

Total Records4

<input type="checkbox"/>	Caller ID	Callee ID	From	To	Start Time	Duration	Result
<input type="checkbox"/>	400	67070182	any	port-1	2021-01-10 09:35:05	00:00:16	ANSWERED
<input type="checkbox"/>	400	1880005	any	port-1	2021-01-10 09:34:41	00:00:15	ANSWERED
<input type="checkbox"/>	400	67070182	any	port-1	2021-01-10 09:12:21	00:00:13	ANSWERED
<input type="checkbox"/>	400	113	any	port-1	2021-01-10 09:12:04	00:00:06	ANSWERED

Delete

Clean Up

Export