

How to Install AX2G4A/AX4G with Elastix2.0.3/Trixbox2.8.0.4

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1. Install ax2g4a/ax4g driver

If you want to use all of the Digital cards with the Analog cards,

Before you install the driver "elastix_ax2g4a_driver-1.2.1.8", you

should download the libpri package as the following.

[root@localhost ~]# cd /usr/src

[root@localhost src]# amportal stop

[root@localhost src]# wget

http://downloads.asterisk.org/pub/telephony/libpri/releases/libpri-

1.4.12.tar.gz

[root@localhost ~]# tar zxf libpri-1.4.12

[root@localhost libpri-1.4.12]# make

[root@localhost libpri-1.4.12]# make install



Install the driver with Elastix2.0.3

1) Log into Elastix OS

Please input the username:root and password:what you have set.

2) Download the driver.

As you know, you should download the drivers from ATCOM website. You can use the following commands.

[root@localhost ~]#

[root@localhost ~]# cd /usr/src/

[root@localhost src]# wget

http://chinavoipsupply.com:8080/downloads/TelephonyCard/driver

s/AX2G4A AX4G/elastix ax2g4a driver-1.2.1.8.tar.gz

3) Untar and install the driver

You can untar the package that you have downloaded and install the driver.

[root@localhost src]# tar -zxf elastix_ax2g4a_driver-1.2.1.8.tar.gz

[root@localhost src]# cd elastix_ax2g4a_driver

[root@localhost elastix_ax2g4a_driver]# ./ax4g_install.sh

Then you should do nothing, just wait for it running successfully.



The progress may cost your 10 minutes and you can get the following illustration, if the driver is installed completely.



4) The driver using for ATCOM Telephony card

If you have installed the driver, the driver can compatible with AX400P, AX800P, AX1600P; AX2D, AX4D; AX4B.



Install the driver with Trixbox2.8.0.4

5) Log into Trixbox OS

Please input the username:root and password:what you have set.

6) Download the driver.

As you know, you should download the drivers from ATCOM website. You can use the following commands.

[root@localhost ~]#

[root@localhost ~]# cd /usr/src/

[root@localhost src]# wget

http://chinavoipsupply.com:8080/downloads/TelephonyCard/driver

s/AX2G4A_AX4G/trixbox_ax4g_driver-1.2.1.8.tar.gz

7) Untar and install the driver

You can untar the package that you have downloaded and install the driver.

[root@localhost src]# tar -zxf trixbox_ax4g_driver-1.2.1.8.tar.gz

[root@localhost src]# cd trixbox_ax2g4a_driver

[root@localhost trixbox_ax2g4a_driver]# ./ax4g_install.sh



Then you should do nothing, just wait for it running successfully. The progress may cost your 10 minutes and you can get the following illustration, if the driver is installed completely.



8) The driver using for ATCOM Telephony card

If you have installed the driver, the driver can compatible with AX400P, AX800P, AX1600P; AX2D, AX4D; AX4B.



2. How to configure your PBX

As you know, the Trixbox2.8.0.4 configure webpage is the same as the Elastix2.0.3 configure webpage

1. Log into your Elastix webpage

Please open your brower and enter the service (PBX) IP address, then input Username: admin; password :what your have set. Then clink on submit button in the following screen.

» Welcome to Elastix							
Please enter your username and password							
Username:	admin						
Password.	Submit						

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2. Detect your hardware

You can use the "Hardware Detector" function of Elastix to check the modules.





For example, you can get the following graphic by "Hardware Detector" AX4G card with Elastix2.0.3. If you have detected your card's modules correctly, you will get the following messages.

📴 Hardware Detector	
Detect New Hardware	
Advanced	Port Status
	Channel detected by DAHDI and not used
	Channel detected by DAHDI and in use
	Undetected Channel by DAHDI
Span # 1: WCTDM/4 "ATCOM AX4G Board 5" (MASTER) —	
	1 FXO 1 FXO 1 FXO 1 FXO
	Detected by Asterisk Detected by Asterisk Detected by Asterisk

- 3. Configurate your PBX
 - 1) Configure the PBX

Click on PBX button in the following illustration.

System	Agend	a Email	Fax	РВХ	IM	Re	ports	Extras	Addons
Voicemail	Monitoring	Endpoint Configurator	Conferen	ce Ba	ch of ensions	Tools	Flash Operator Panel	VoIP Provider	My Extension

2) Add an SIP Extension

Click on "Add an extension" button, then choose Device "Generic sip Device", click on submit in the following illustration.



Add an Extension

Please select your Device below then click Submit

Device							
Device	Generic SIP Device 🛛 🗸						
	Generic SIP Device						
Submit	Generic IAX2 Device Generic ZAP Device						
	Other (Custom) Device None (virtual exten)						

Please input the Users Extension, the Display Name, and secret; Click on submit in the following illustration.



Add SIP Extension

Add Extension

		_
User Extension	300]
Display Name	300	
CID Num Alias		
SIP Alias		

Extension Options

Outbound CID	
Ring Time	Default 💌
Call Waiting	Disable 💌
Call Screening	Disable 💙
Pinless Dialing	Disable 💙
Emergency CID	

-	-		
Acci	anod	DID/	CID
A.5.50	uneu	1 /11 //	1.117

DID Description	
Add Inbound DID	
Add Inbound CID	

_					_						
D	01	л	0		\cap	n	tı.	0	n	0	
υ		61	6	C	\sim	μ	u	U		-0	

This device uses sip technology.

secret	300
dtmfmode	rfc2833

Then , Click the "Apply Configuration Changes Here" bar in the top

of the screen.

Apply Configuration Changes Here



3) Add a ZAP/DAHDI Trunk

a. Choose the "Add Zap Trunk (DAHDI compatibility) "button.

Add a Trunk



b. Set the Trunk Description: enter the name what you have set.Then choose the Dial Rules Identifier: g0. click on submit in the following illustration.



Add ZAP Trunk (DAHDI compatibility mode)

General Settings

Trunk Description:	trunk9	
Outbound Caller ID:		
CID Options:	Allow Any CID 💌	
Maximum Channels:		
Disable Trunk:	Disable	
Monitor Trunk Failures:	Enable	
Outgoing Dial Rules		
Dial Rules:		
	Clean & Remove duplicates	
Dial Rules Wizards:	(pick one)	*
Outbound Dial Prefix:		
Outgoing Settings		
Zap Identifier (trunk name):	g0	
Submit Changes		

c. Then , Click the "Apply Configuration Changes Here" bar in the top of the screen.

Apply Configuration Changes Here

4) Add an Incoming Route

Add an incoming route, it will help you get incoming calls.



a) Click on "Inbound Routes" bar.

- Inbound Call Control Inbound Routes Zap Channel DIDs Announcements Blacklist CallerID Lookup Sources Day/Night Control Follow Me
- b) Input incom9 in the textbox of Description as the following

screen:

Add Incoming Route

Add Incoming Route		
Description:	incoming9	
DID Number:		
Caller ID Number:		
CID Priority Route:		

c) Click the Extensions textbox, choose an extension number from

the drop down selection box. Then click submit. Please refer to the

following illustration:





d) Click the "Apply Configuration Changes Here" bar in the top of the screen.

Apply Configuration Changes Here

5) Add outbound route

Add an outbound route, it will help you get outbound calls.

a) Click on "outbound Routes" bar.

Basic	
Extensions	
Feature Codes	
General Settings	
Outbound Routes	
Trunks	

b) Input out_route9 in the textbox of Description as the following

screen:

Add Route		
Route Name:	9_outside	
Route CID:		Override Extension CID
Route Password:		

c) In the Dial Patterns , please input 9|. , it will help you get calls before you called number. Please refer to the following illustration:



Music On Hold?	default 💙	
Dial Patterns		
	9 .	~
		~
		1 1 1

d) Choose the Trunk Sequence: ZAP/g0 ,Then click submit. Please

refer to the following illustration:

Dial patterns wizards:	(pick one)	*
Trunk Sequence		
	ZAP/g0 💌	
	~	
	×	

e) Click the "Apply Configuration Changes Here" bar in the top of the screen.

Apply Configuration Changes Here



3. How to configure IP phone

 Please open your brower and enter the telephone IP address, then input Username: admin; password :what your have set. Then clink on Logon button in the following screen.

Username:	admin
Password:	•••••
	ogon

2) Choose the SIP2 page tab under the VOIP tab page.

	IP Phone			
ATCOM	Current Status	Network VOIP Advan	iced Dial-peer Config Ma	nage <u>Update</u> <u>System Manage</u>
• <u>SIP 1</u> • <u>SIP 2</u> • <u>IAX 2</u>				SIP2 Configuation
	Basic Setting			
	Register status	Registered	Proxy Server Address	
	Server Name		Proxy Server Port	
	Server Address	172.16.0.165	Proxy Username	
	Server Port	5060	Proxy Password	
	Account Name	900	Domain Realm	
	Password	•••	Enable Register	
	Phone Number	900	Display Name	900
			APPLY Advanced Set	

Then input the Server Address: what you have set; Server Port:
5060; Accout Name, Password, Phone Number : those three tab



please input your extension number. And then, Click the APPLY

button, in the following illustration:

Register status	Registered	Proxy Server Address		
Server Name		Proxy Server Port		
Server Address	172.16.0.165	Proxy Username		
Server Port	5060	Proxy Password		
Account Name	900	Domain Realm		
Password	•••	Enable Register		
Phone Number	900	Display Name	900	



4. Appendix one: The GSM module and FXO module billing

1. Download the driver from ATCOM website.

If you use the AX2G4A, and download the driver as the

following link:

http://chinavoipsupply.com:8080/downloads/TelephonyCard/d rivers/AX2G4A AX4G/

- 2. There are two kinds of configuration about the billing.
- If you just need the GSM billing, but you needn't the FXO billing, you can modify some configuration as the following:
- 1 vi /etc/asterisk/chan_dahdi.conf

make sure annotate the two parameter as the following:

;answeronpolarityswitch=yes

;polarityonanswerdelay= 300

2 vi /etc/asterisk/dahdi-channels.conf

Please add the parameters to the GSM module channels as the

following:

;;; line="1 WCTDM/6/0 FXSKS (In use) (SWEC: MG2)"



signalling=fxs_ks

answeronpolarityswitch=yes

polarityonanswerdelay= 300

callerid=asreceived

group=0

context=from-pstn

channel => 1

callerid=

group=

```
context=default
```

Please add the parameters to the FXO module channels as the following:

;;; line="5 WCTDM/6/4 FXOKS (In use) (SWEC: MG2)"

signalling=fxo_ks

answeronpolarityswitch=no

callerid="Channel 5" <4005>

mailbox=4005

group=5

context=from-internal

channel => 5



callerid=

mailbox=

group=

context=default

1) If you need the GSM and FXO billing, you can modify some configuration as the following:

vi /etc/asterisk/chan_dahdi.conf

please make sure modify the two parameter as the following:

answeronpolarityswitch=yes

polarityonanswerdelay= 300

BTW, if you want the FXO module bill, you should apply for your

Server Provider who will send the billing signal to FXO module.