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

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/drivers/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/drivers/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
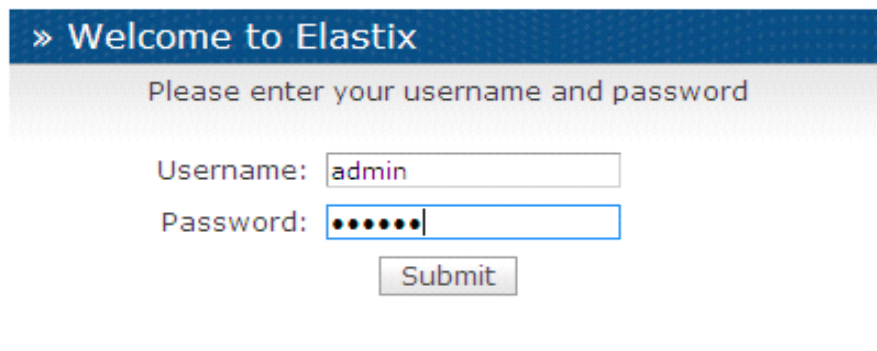
[root@localhost src]# cd trixbox_ax2g4a_driver

[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.
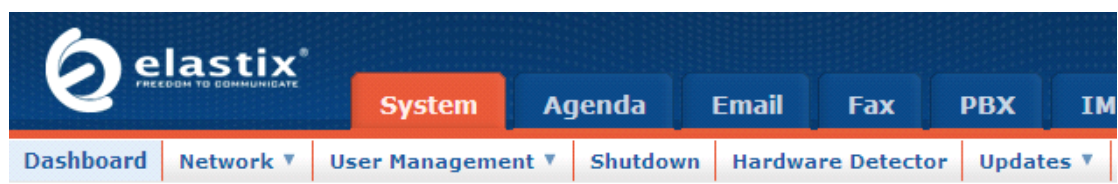

2. Detect your hardware

You can use the "Hardware Detector" function of Elastix to check the modules.
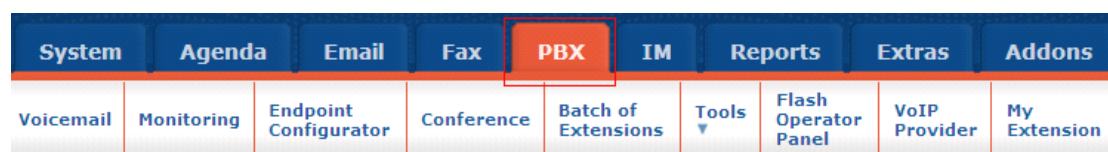
For example, you can get the following graphic by "Hardware Detector" AX4G card with Elastix2.0.3. If you have detected your card's modules correctly, you will get the following messages.
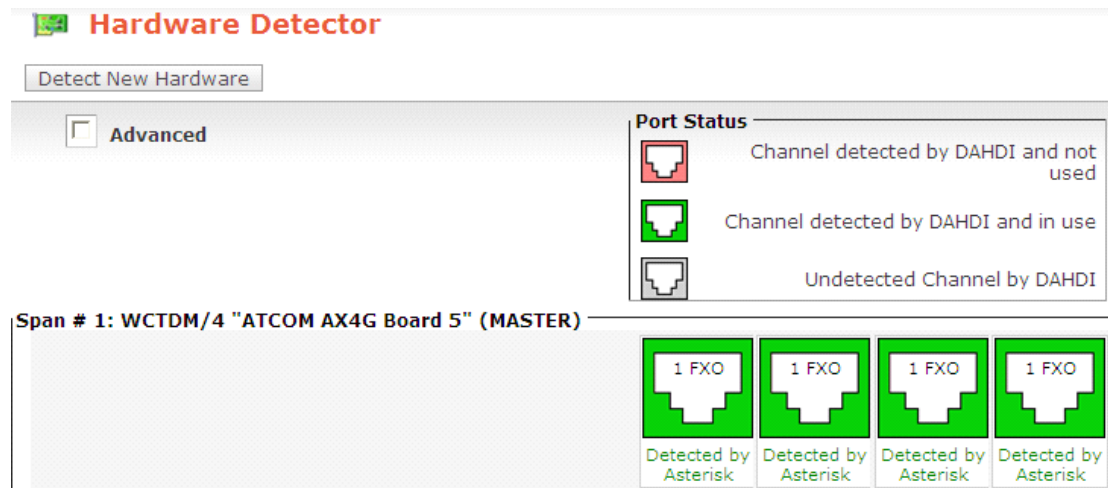
3．Configurate your PBX

1) Configure the PBX

Click on PBX button in the following illustration.

2) Add an SIP Extension

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

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	

Assigned DID/CID

DID Description	
Add Inbound DID	
Add Inbound CID	

Device Options

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.

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:	

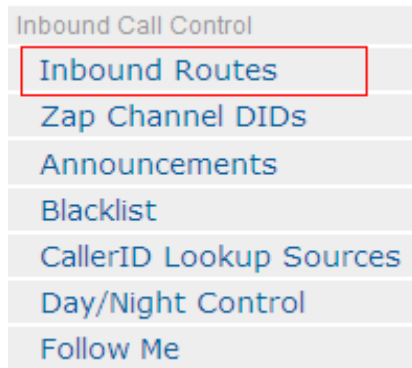**Outgoing Settings**

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
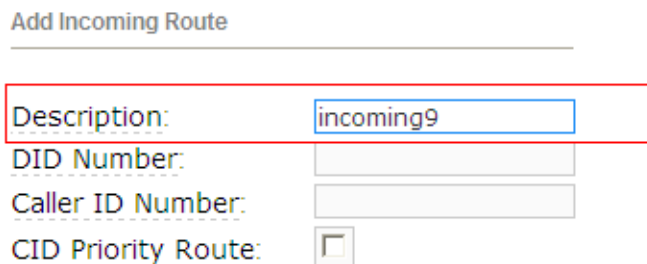
4) Add an Incoming Route

Add an incoming route, it will help you get incoming calls.
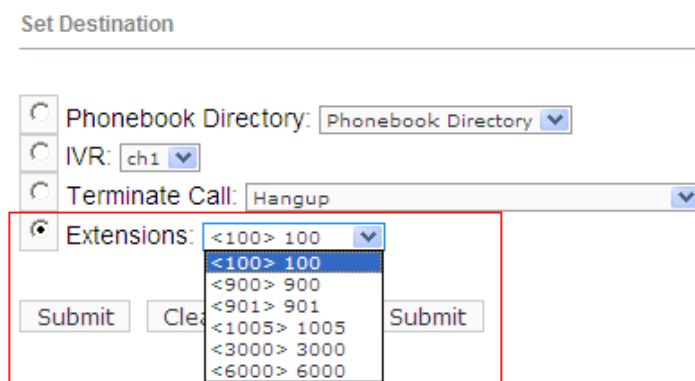
a) Click on "Inbound Routes" bar.

b) Input incom9 in the textbox of Description as the following screen:

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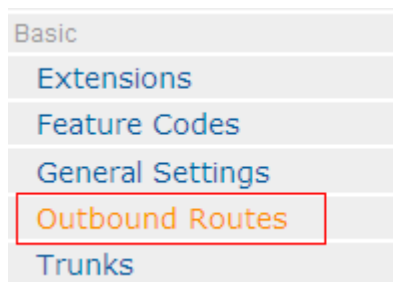
b) Input out_route9 in the textbox of Description as the following

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:

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

refer to the following illustration:
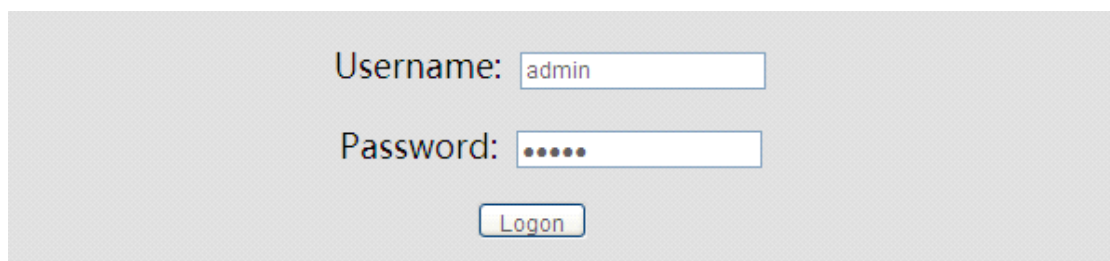
e)   Click the "Apply Configuration Changes Here" bar in the top of

the screen.

3．How to configure IP phone

1) 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.

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

3) 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:

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/drivers/AX2G4A_AX4G/

2．There are two kinds of configuration about the billing.

1) 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

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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.