atcom

AX2G4A Quick Start Guide
with Elatix2.0.3

Version: 2.0

2013-06-03

Release note

Version	Changed note	Editor	Date
1.0	First Release		
2.0	Release the User manual	Deniel	2013-06-03

Content

Contact ATCOM

The Introduction of ATCOM

ATCOM is the leading VoIP hardware manufacturer in global market. We have been keeping innovating with customer's needs oriented , working with partners to establish a total solution for SMB VoIP with IP phone , IP PBX and Asterisk cards.

With over 10 years' experience of R&D , manufacturing and service in network and VoIP filed ; mission of creating the biggest value for IP terminals , we commit ourselves in supplying the competitive IP phone and other terminals for IP PBX , softswitch , IMS , NGN providers and carriers; supplying the competitive total VoIP solution for SMB market. We keep improving the customer's experience and creating the bigger value with our reliable products. Until now , our VoIP products has been sold to over 60 countries and used by millions of end users.

Contact sales:

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Website address: http://www.atcom.cn/

Download Center: http://www.atcom.cn/download.html

1．Install ax2g4a/ax4g driver

If users want to use some Digital cards with the Analog cards, please make sure users have installed the libpri package in the system.

How to get the latest libpri package, please access the Asterisk website:

http://downloads.asterisk.org/pub/telephony/libpri/libpri-1.4-current.tar.gz

[root@localhost libpri-1.4.12]# **tar zxvf libpri-xxx**

[root@localhost libpri-1.4.12]# **make**

[root@localhost libpri-1.4.12]# **make install**

Install the driver with Elastix2.0.3

1) Download the driver.

Users should download the drivers for the GSM card from ATCOM website. And we will release the latest version in the atcom download center: http://www.atcom.cn/download.html

For example, users can get the driver as the following link:

http://www.atcom.cn/cn/download/cards/ax4g/ax2g4a_ax4g_elastix2.0.3.tar.gz

2) Install the driver

When users install the driver with elastix, users need just tar the package and run the script. Normally, the script will install the driver automatically.

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

[root@localhost src]# **cd elastix_ax2g4a_driver**

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

Notice:

If users install the Elastix2.0.3 version correctly, the progress will cost 10 minutes. After that, users will get the following illustration when the driver is installed completely.

```
*******************************************************************
@@                ATCOM AX4G Card Install Script                @@
@@                         V1.0.1                               @@
@@                    Welcome to Use AX4G                        @@
@@              Copyright(c) 2010-2012 ATCOM  Co., Ltd.          @@
*******************************************************************




@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@
Finish install  Atcom  ax4g card driver for elastix-2.0.0-57 !
 You can use the list commands to show ax4g card status :

            asterisk -rx dahdi show channels
            dahdi_cfg -vvv
@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@

[root@localhost elastix_ax2g4a_driver]#
```

3)　Compatibility with the driver

When users install the driver correctly, it will be compatible with all the atcom asterisk cards. It means users need not install drivers for other atcom cards. For examples:

Card named	Module named
ax400p/axe400p	wctdm
ax800/axe800p	ax1600p
ax1600p/axe1600p	ax1600p
ax4g/ax2g4a	ax4g
ax1d/axe1d/axe1dl	AX1D
ax2d/axe2d/axe2dl	wct4xxp
ax4d/axe4d/axe4dl	wct4xxp
ax4b/axe4bl/axe2bl	wcb4xxp

Install the driver with Trixbox2.8.0.4

1)   Download the driver.

How to install the driver with Trixbox2.8.0.4, please download the drivers from ATCOM website.
And we will release the latest version in the atcom download center:

http://www.atcom.cn/download.html.

For example, users can get the driver as the following link:

http://www.atcom.cn/cn/download/cards/ax4g/ax2g4a_ax4g_trixbox2.8.0.4.tar.gz

2)   Install the driver

When users install the driver with elastix, users need just tar the package and run the script.

[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.
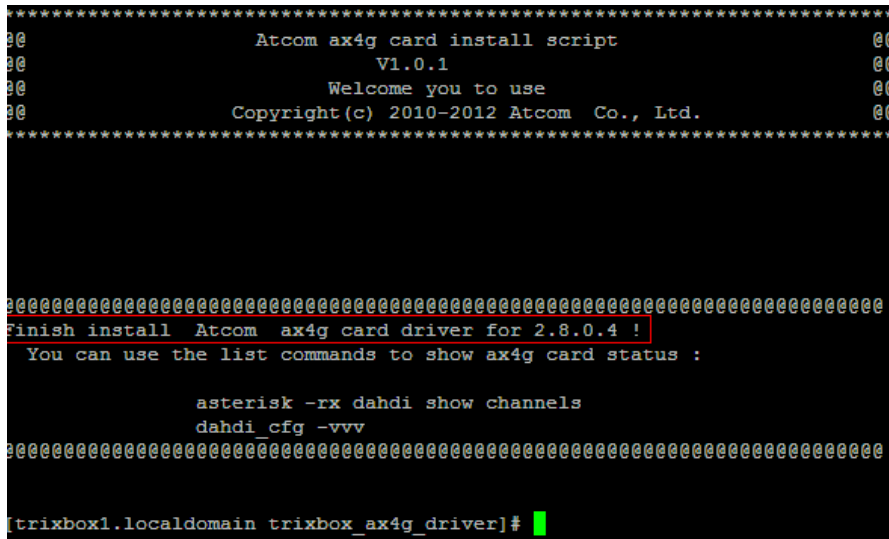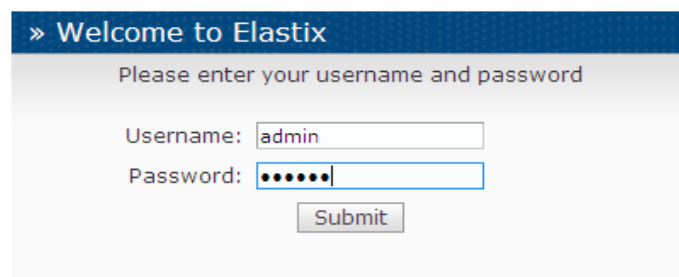

3)   Compatibility with the driver

When users have installed the driver, it could be the same compatibility with most of atcom
asterisk card. It means users need not install drivers for other atcom cards.

2. How to configure your PBX

The Trixbox2.8.0.4 configuration webpage is the same as the Elastix2.0.3 configure webpage. So the following instruction will be an example to Elastix OS.
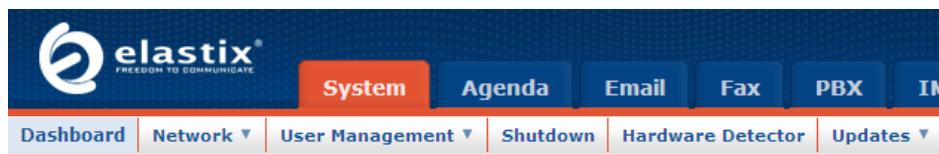
2.1. Log into the Elastix webpage

Please open the browser and input the server IP address, And then clink on the submit button as the following illustration.
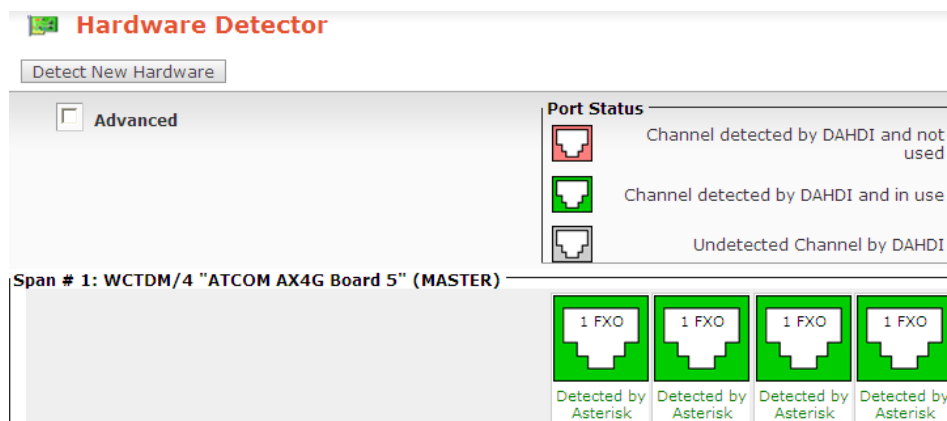

2.2.Detect the hardware

Users can click the "Hardware Detection" button to detect the hardware by the system automatically.

For example, if users have install the drivers for AX4G card firstly, users will get the following illustration.

2.3. Configurate your PBX

1) Configure the PBX

Click the PBX button to jump into the pbx configuration page.

2) Add an SIP Extension

Click the "Add an extension --> Generic sip Device". And then input the "Users Extension", the "Display Name", and "Secret"; Click the submit in the following illustration.

![atcom logo]

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.

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

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:
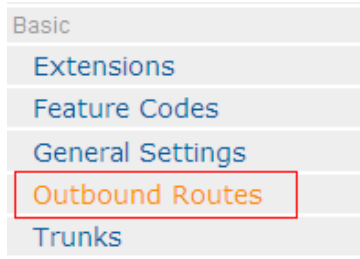

d) Click the "Apply Configuration Changes Here" bar in the top of the screen.

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:

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.
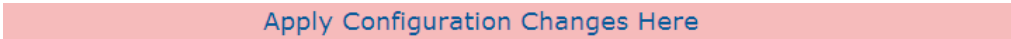
3. Appendix one: the billing parameters

1．Download the driver from ATCOM website.

If you use the AX2G4A, and download the driver as the following link:

http://www.atcom.cn/dl_ax2g4a.html

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

----

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.