

# How to Install and Configure AX4G in Elastix2.0.3

1. Download the AX4G driver for Elastix2.0.3 from ATCOM website.

```
[root@elastix ~]# cd /usr/src
[root@elastix src]# wget
http://www.atcom.cn/downloads/TelephonyCard/drivers/AX-4G/ax4g\_elastix2.0.3.tar.gz
```

2. Install the AX4G driver for Elastix2.0.3.

```
[root@elastix src]# tar -xzf ax4g_elastix2.0.3.tar.gz
cd elastix_ax4g_driver/
./ax4g_install.sh
```

When the script starts to run, the following illustration will be presented in your screen:

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

Elastix Version = elastix-2.0.0-57
Checking for libxml2-devel...Loaded plugins: fastestmirror
Determining fastest mirrors
 * addons: mirrors.163.com
 * base: mirrors.163.com
 * elastix-base: repo-us-tx.elastix.org
 * elastix-extras: repo-us-tx.elastix.org
 * elastix-updates: repo-us-tx.elastix.org
 * epel: mirrors.ustc.edu.cn
 * extras: mirrors.163.com
 * updates: mirrors.163.com
addons                | 951 B      00:00
addons/primary        | 202 B      00:00
base                  | 1.1 kB     00:00
base/primary          | 954 kB     00:05
base
elastix-base
elastix-base/primary
elastix-base
elastix-extras
elastix-extras/primary
elastix-extras
elastix-updates
elastix-updates/primary
elastix-updates
epel
                    | 3.7 kB     00:00
epel/primary_db       | 3.0 MB     00:21
extras
                    | 2.1 kB     00:00
extras/primary_db    | 183 kB     00:00
updates
                    | 1.9 kB     00:00
```

This process of installing the script will cost about one hour normally, if you get any errors or the

script is suspended, you should check the error and install it again, if you finish the installation successfully, you can get the following illustration:

```

*****
@@                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_ax4g_driver]#

```

### 3. Start asterisk

Using those three comamnds to start your asterisk:

- amportal restart
- asterisk -vvvgrc
- reload

Using the command: dahdi show channels to check if asterisk has detected AX4G channels or not.

```

trixbox1*CLI>
trixbox1*CLI> dahdi show channels
  Chan Extension Context Language MOH Interpret Blocked State
pseudo         default    en      default
1              from-pstn en      default In Service
2              from-pstn en      default In Service
3              from-pstn en      default In Service
4              from-pstn en      default In Service
trixbox1*CLI> █

```

### 4. Log into Elastix webpage

Please open your browser and enter the service (PBX) IP address, then input Username: admin; Password: you have set the password when you boot your Elastix first time. Then click on the submit button like the following screen.

» Welcome to Elastix

Please enter your username and password

Username:

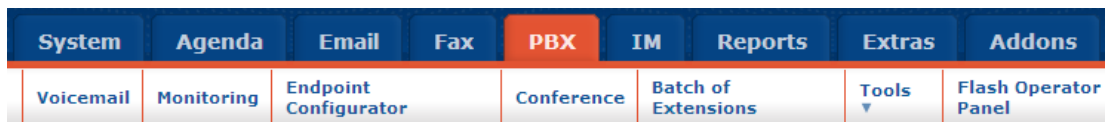
Password:

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## Configure AX4G in Elastix 2.0.3

### 5. Add a sip extension

Click on PBX button in the following illustration.



1). 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
- Generic IAX2 Device
- Generic ZAP Device
- Other (Custom) Device
- None (virtual exten)

2). Please input the User Extension, the Display Name, and secret; click on submit button like the following illustration.

## Add SIP Extension

### Add Extension

---

User Extension	<input type="text" value="300"/>
Display Name	<input type="text" value="300"/>
CID Num Alias	<input type="text"/>
SIP Alias	<input type="text"/>

### Extension Options

---

Outbound CID	<input type="text"/>
Ring Time	<input type="text" value="Default"/>
Call Waiting	<input type="text" value="Disable"/>
Call Screening	<input type="text" value="Disable"/>
Pinless Dialing	<input type="text" value="Disable"/>
Emergency CID	<input type="text"/>

### Assigned DID/CID

---

DID Description	<input type="text"/>
Add Inbound DID	<input type="text"/>
Add Inbound CID	<input type="text"/>

### Device Options

---

This device uses sip technology.

secret	<input type="text" value="300"/>
dtmfmode	<input type="text" value="rfc2833"/>

3). Click the “Apply Configuration Changes Here” bar in the top of the screen.

Apply Configuration Changes Here

## 6. Create a trunk

To dial out and get incoming calls, you have to create trunk.

1). Choose the “Add Zap Trunk (DAHDI compatibility)” button.

### **Add a Trunk**

- Add Zap Trunk (DAHDI compatibility mode)
- Add SIP Trunk
- Add IAX2 Trunk
- Add ENUM Trunk
- Add DUNDi Trunk
- Add Custom Trunk

2). Set up the Trunk Description, then click on submit changes button like the following illustration.

## Add ZAP Trunk (DAHDI compatibility mode)

### General Settings

Trunk Description:	<input type="text" value="trunk9"/>
Outbound Caller ID:	<input type="text"/>
CID Options:	<input type="text" value="Allow Any CID"/> <input type="button" value="v"/>
Maximum Channels:	<input type="text"/>
Disable Trunk:	<input type="checkbox"/> Disable
Monitor Trunk Failures:	<input type="text" value=""/> <input type="checkbox"/> Enable

### Outgoing Dial Rules

Dial Rules:	<div style="border: 1px solid #ccc; height: 100px; width: 100%;"></div> <input type="button" value="Clean &amp; Remove duplicates"/>
Dial Rules Wizards:	<input type="text" value="(pick one)"/> <input type="button" value="v"/>
Outbound Dial Prefix:	<input type="text"/>

### Outgoing Settings

Zap Identifier (trunk name):	<input type="text" value="g0"/>
------------------------------	---------------------------------

3). Then , Click the “Apply Configuration Changes Here” bar in the top of the screen

[Apply Configuration Changes Here](#)

## 7. Set up outbound routes

Through outbound routes, you can dial out.

- 1) Please click on the Outbound Routes as the following illustration:

Option	Add Route	
<a href="#">Unembedded freePBX</a>	Route Name:	<input type="text"/>
Basic	Route Password:	<input type="text"/>
<a href="#">Extensions</a>	PIN Set:	None <input type="button" value="v"/>
<a href="#">Feature Codes</a>	Emergency Dialing:	<input type="checkbox"/>
<a href="#">General Settings</a>	Intra Company Route:	<input type="checkbox"/>
<a href="#">Outbound Routes</a>		

- 2) Please click “09\_outside” button, keep the default parameters in the following screen. Please refer to the following illustration:

### Edit Route

⊘ Delete Route 9\_outside

Route Name:

Route Password:

PIN Set:

Emergency Dialing:

Intra Company Route:

Music On Hold?:

Dial Patterns

9|.

Dial patterns wizards:

Trunk Sequence

0

Here we use the default Dial Pattern 9|., so we have to add prefix 9, when we dial out. For example, if you want to call 123456, then you have to press 9123456 on your phone.

- 3). Click the “Apply Configuration Changes Here” bar in the top of the screen.

[Apply Configuration Changes Here](#)

## 8. Add Incoming Route

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

- 1). Click on “Inbound Routes” bar.



- 2). Input a name in the textbox of Description as the following screen:

### Add Incoming Route

#### Add Incoming Route

Description:

DID Number:

Caller ID Number:

CID Priority Route:

- 3). Click the Extensions textbox, choose an extension number from the drop down selection box. Then click submit. Please refer to the following illustration:

#### Set Destination

IVR:

Phonebook Directory:

Terminate Call:

Extensions:



4). Click the “Apply Configuration Changes Here” bar in the top of the screen.

Apply Configuration Changes Here