

安装 Elastix_1.6.0_OpenVox_A400p

1 登录 Elastix 管理页面

打开浏览器输入你的 PBX 的 IP 地址，然后输入你的用户名：admin，密码：palosanto；然后单击如图所示的 Submit 按钮。



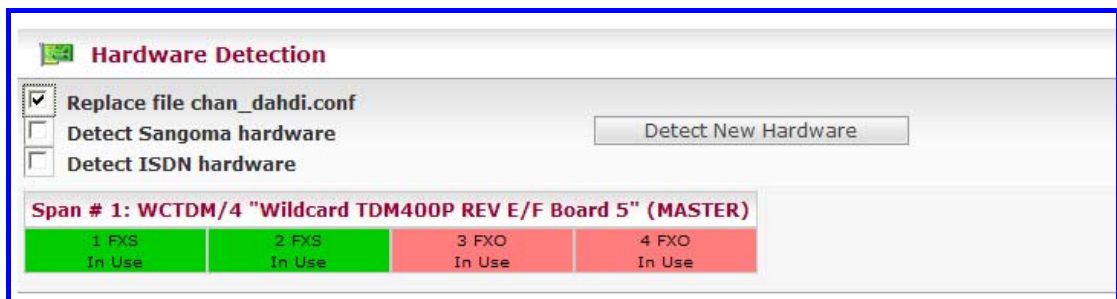
The image shows a login form for Elastix. At the top, there is a red header with the text "» Welcome to Elastix". Below this, a grey box contains the instruction "Please enter your username and password". There are two input fields: "Username:" with the text "admin" entered, and "Password:" with a series of dots representing a masked password. A "Submit" button is located below the password field. At the bottom of the form, there is a copyright notice: "Copyright © 2006 by [PaloSanto Solutions](#)".

2 硬件检测

1) 点击下图里的 Hardware Detection 按钮



- 2) 点击选择“Replace file chan_dahdi.conf”。然后再点击下图里的 Detect New Hardware 按钮。



- 3) 请用下面的命令：

```
[root@elastix ~]# dahdi_genconf
```

```
[root@elastix ~]# dahdi_cfg -vv
```

- 4) 重启系统

3 添加 extension, 实现内部分机互打

增加两个分机，然后再将两部电话接入到 FXS 模块接口， 然后两部电话能够相互呼叫。

- 1) 点击下图所示的 PBX 按钮：



2) 点击选择下图所示 Extensions 选项:

Option

- Unembedded freePBX
- Basic
 - Extensions**
 - Feature Codes
 - General Settings
 - Outbound Routes
 - Trunks

Add an Extension

Please select your Device below then click Submit

Device

Device: Generic SIP Device

Submit

3) 从下拉选项表中, 选择 **Generic Zap Device**, 因为我们要设立 zap 分机, 然后点击 **submit** 按钮。如图所示:

Option

- Unembedded freePBX
- Basic
 - Extensions**
 - Feature Codes
 - General Settings
 - Outbound Routes
 - Trunks
 - Inbound Call Control

Add an Extension

Please select your Device below then click Submit

Device

Device: Generic SIP Device

- Generic SIP Device
- Generic SIP Device
- Generic IAX2 Device
- Generic ZAP Device**
- Other (Custom) Device

Submit

4) 设置用户分机: 111 (用来接收的分机号码); Display Name: 111, 如下图所示:

Add ZAP Extension

Add Extension

User Extension: 111

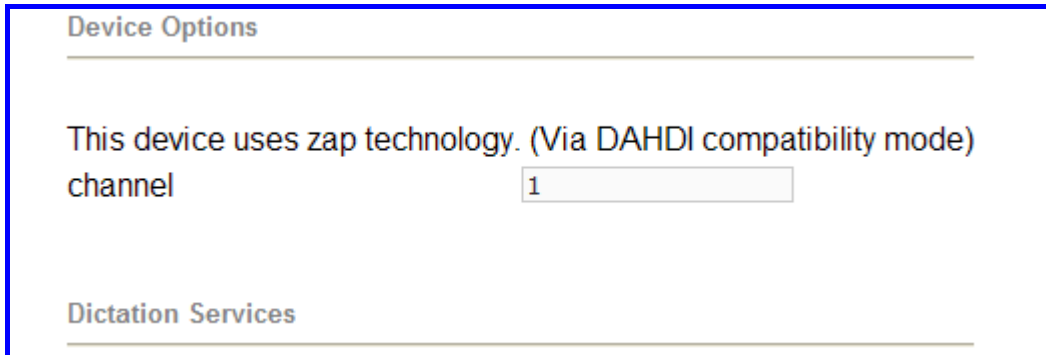
Display Name: 111

CID Num Alias:

SIP Alias:

Extension Options

5) 为你的分机指定一个通道号， 如图所示：

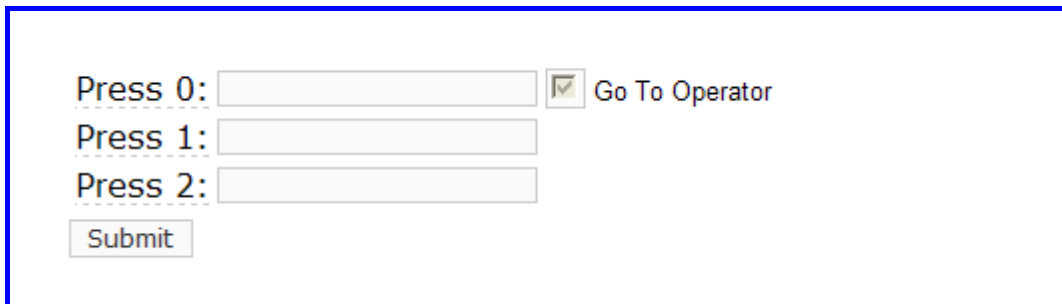


Device Options

This device uses zap technology. (Via DAHDI compatibility mode)
channel

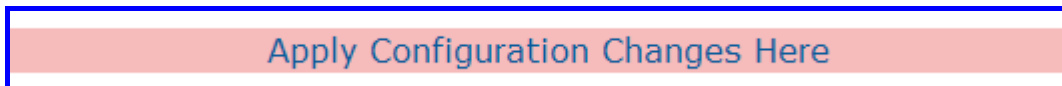
Dictation Services

6) 点击 submit 按钮。



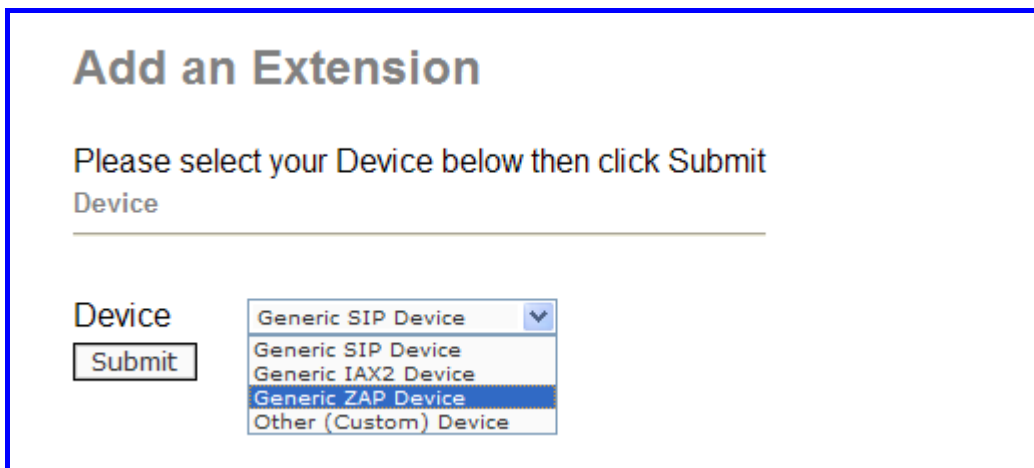
Press 0: Go To Operator
Press 1:
Press 2:

7) 点击屏幕上方的“Apply Configuration Changes Here”栏。



Apply Configuration Changes Here

8) 添加另外一个 extension，从下拉选项表中，选择 Generic Zap Device，因为我们要设立 zap 分机，然后点击 submit 按钮。如图所示：



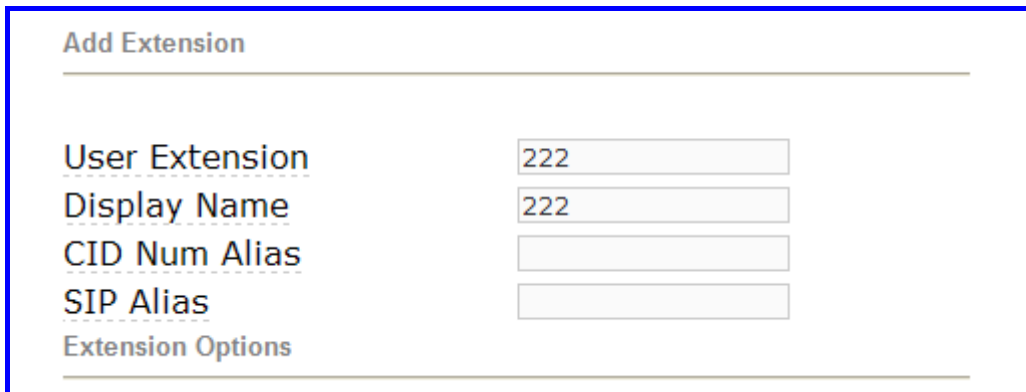
Add an Extension

Please select your Device below then click Submit

Device

Device
Generic SIP Device
Generic IAX2 Device
Generic ZAP Device
Other (Custom) Device

- 9) 设置用户分机 User Extension: 222; 显示名称 Display Name: 222 如下图所示:



Add Extension

User Extension

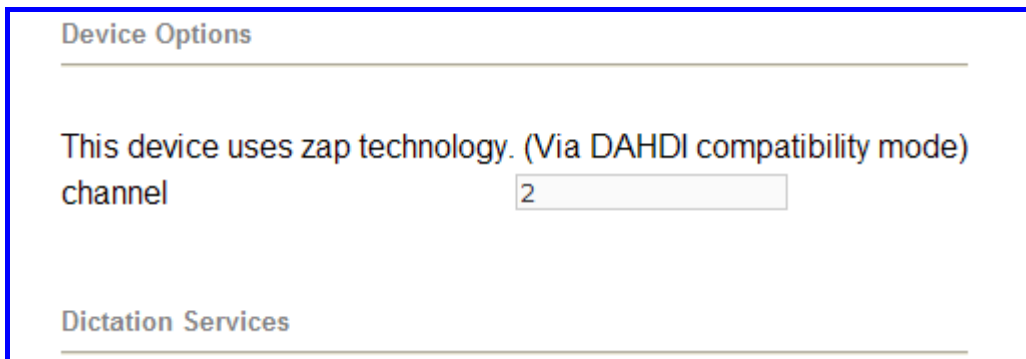
Display Name

CID Num Alias

SIP Alias

Extension Options

- 10) 为你的分机指定一个通道号码, 如下图所示:



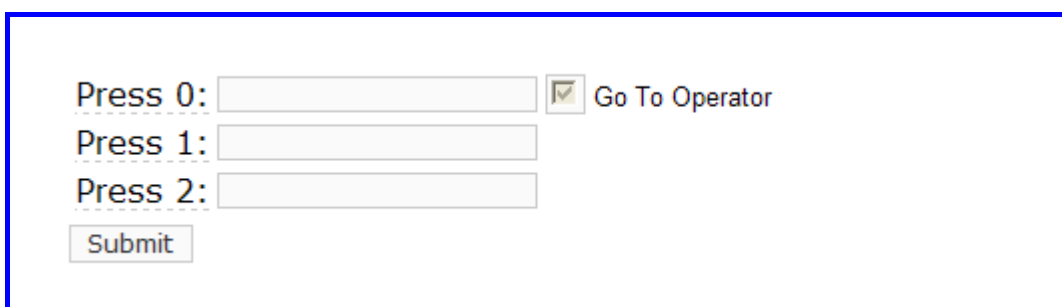
Device Options

This device uses zap technology. (Via DAHDI compatibility mode)

channel

Dictation Services

- 11) 然后点击“submit”按钮。

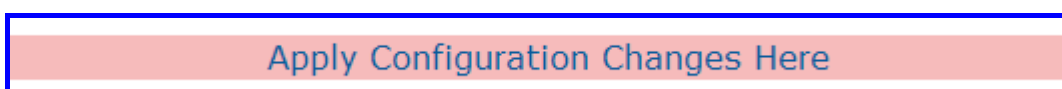


Press 0: Go To Operator

Press 1:

Press 2:

- 12) 点击屏幕上方的“Apply Configuration Changes Here”栏。



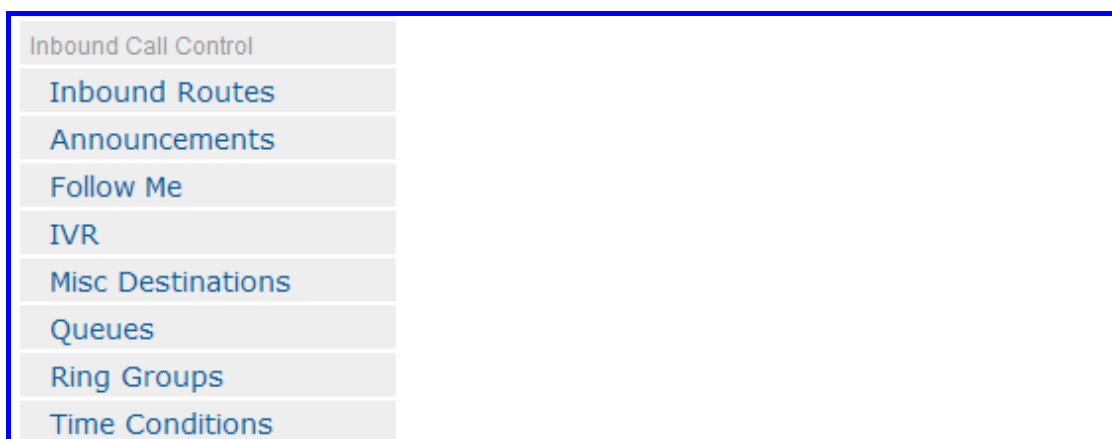
Apply Configuration Changes Here

这一步做完了, 我们可以用 111, 222 这两个分机互打了。

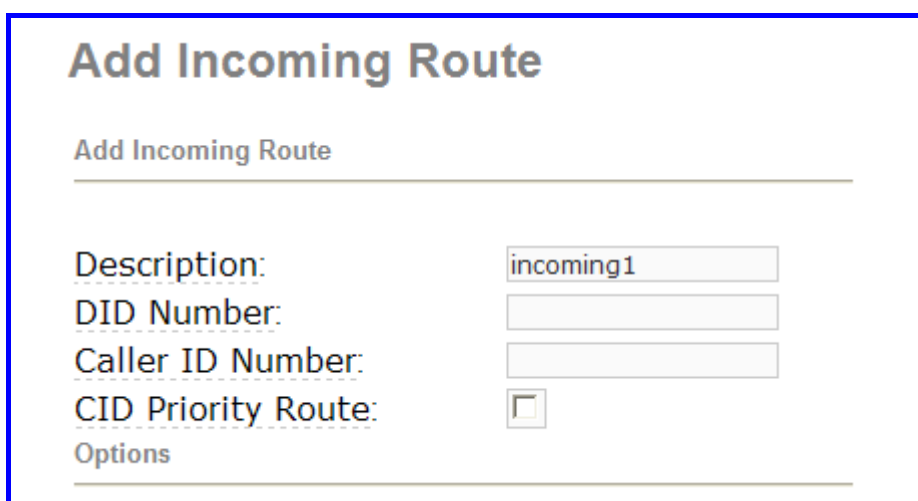
4 添加呼入路由

添加一个呼入路由，能够帮助你接收呼入电话。

- 1) 点击“Inbound Routes” 栏。



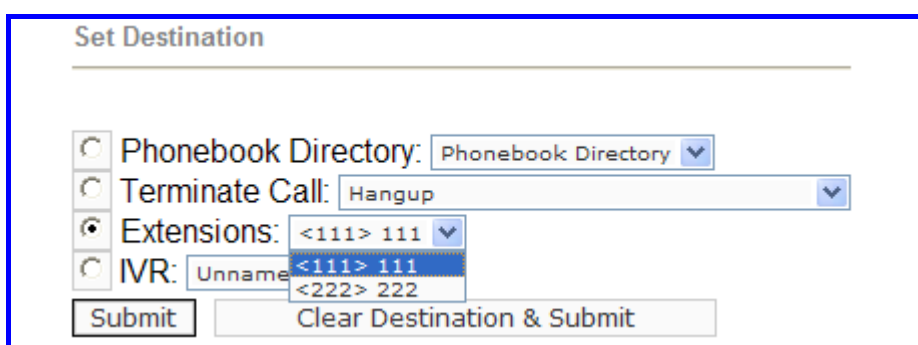
- 2) 在描述栏目里面输入 incoming1， 如下图所示：



A screenshot of the "Add Incoming Route" form. The title is "Add Incoming Route". Below the title is a horizontal line. The form contains the following fields:

- Description: incoming1
- DID Number: (empty text input)
- Caller ID Number: (empty text input)
- CID Priority Route:
- Options: (empty text input)

- 3) 点击 Extensions 栏，从下拉列表中选一个应答来电的分机。然后点击提交。如下图所示：

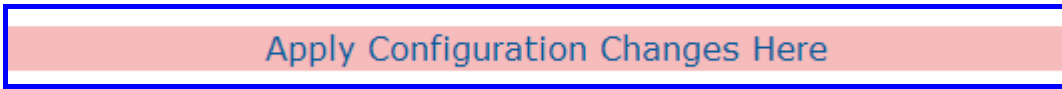


A screenshot of the "Set Destination" form. The title is "Set Destination". Below the title is a horizontal line. The form contains the following fields:

- Phonebook Directory: Phonebook Directory (dropdown menu)
- Terminate Call: Hangup (dropdown menu)
- Extensions: <111> 111 (dropdown menu, selected)
- IVR: Unname (dropdown menu)

At the bottom, there are two buttons: "Submit" and "Clear Destination & Submit".

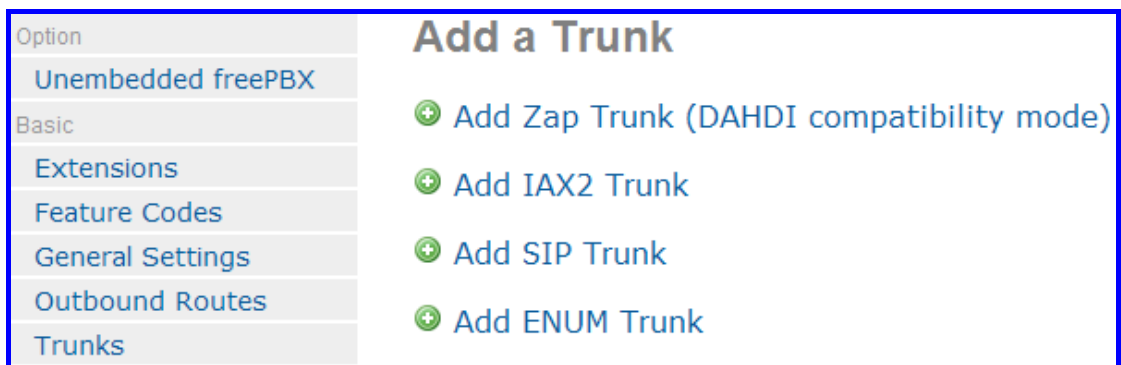
4) 点击屏幕上方的“Apply Configuration Changes Here”栏。



5 设置中继

拨打外线需要设立中继。

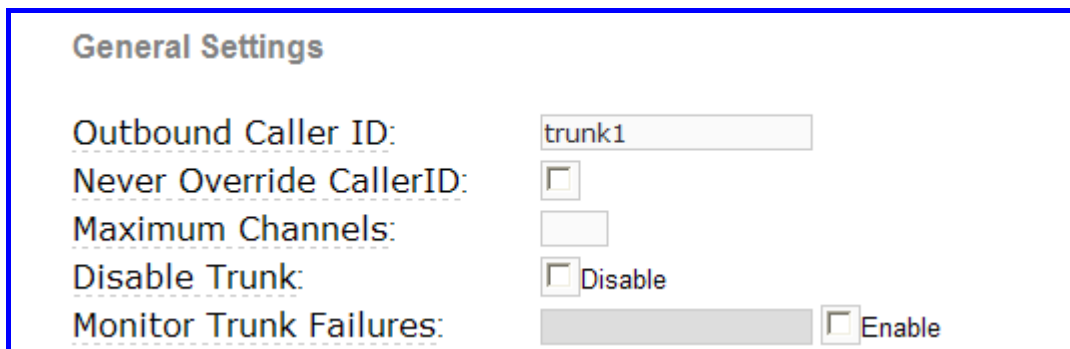
1) 点击 Trunks 栏，如下图所示：



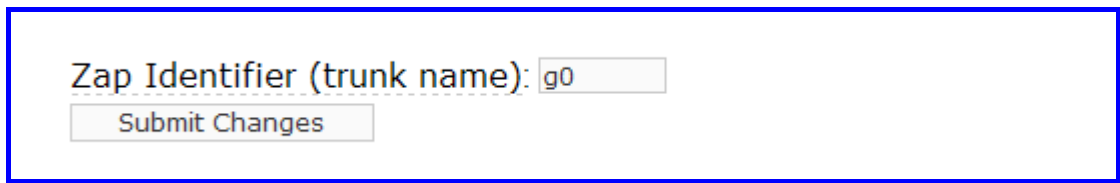
2) 点击页面右上方的 Trunk ZAP/g0 按钮，如下图所示：



3) 在 Outbound Caller ID 文本框内输入 trunk1，如下图所示：



4) 点击下图所示的 Submit Changes 按钮:

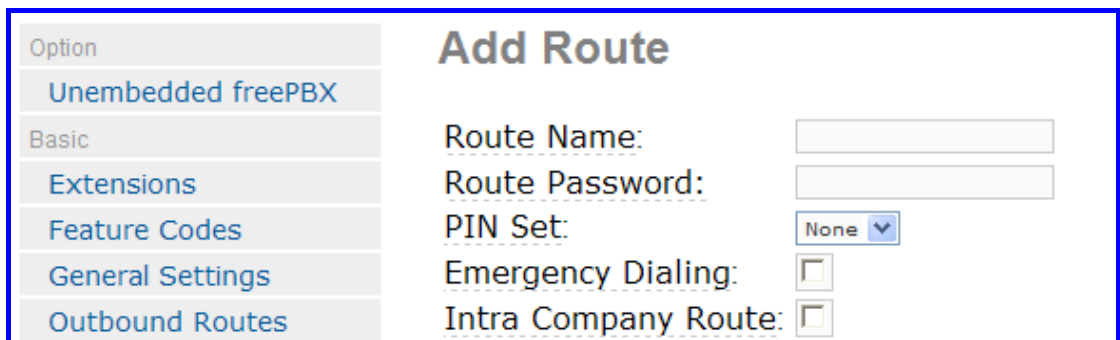


Zap Identifier (trunk name):

6 添加呼出路由

通过呼出路由，你能呼叫外线。

1) 点击 Outbound Routes 选项，如下图所示:



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

- 2) 点击 09_outside 栏，在下图中，保持默认设置，如下图所示：然后点击 Save Change 按钮。

Edit Route

Delete Route 9_outside

Route Name: 9_outside

Route Password:

PIN Set: None

Emergency Dialing:

Intra Company Route:

Music On Hold? default

Dial Patterns

9|.

Dial patterns wizards: (pick one)

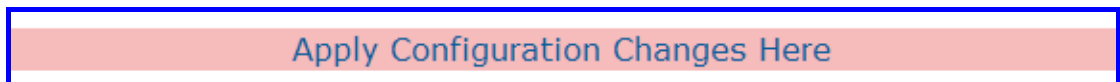
Trunk Sequence

0 ZAP/g0

0 9_outside

在这里 Dial Patterns 用了默认的 9|., 所以我们拨打外线时要加前缀 9。

- 3) 点击 屏幕上方的 “Apply Configuration Changes Here” 栏。



7 测试环境

- 1) Elastix 1.6.0
- 2) OpenVox A400p + 2FXS+2FXO

8 参考

- 1) http://www.elastixconnection.com/downloads/elastix_without_tears.pdf
- 2) <http://www.voiceip.com.ua/lit/easyAsterisk-manual-eng-v22rc4.pdf>