How to install elastix-1.6 with OpenVox B200P_mISDN

Notes: Test environments: Elastix version: (Elastix Distro 1.6 Stable) Kernel version: 2.6.18-164.el5 Hardware: OpenVox B200P mISDN version: 1_1_9.1

Before you want to refer this manual to install in your case, make sure your system can access the Internet.

Step 1: Access to the elastix GUI via your IP. Almost all of the settings can finish in there.

Step 2: Log in the system with username: admin, secret: palosanto.

Step 3: Follow this order please: System \rightarrow Hardware Detection, select "Detect ISDN hardware" in the selection lists .And click the button "Detect New Hardware" on it right side. It would be presented more details of the card like this:

System Info Dashboard Network	User Management	Load Module	Shutdown	Hardware Detection	Updates	Backup/Restore	Preferences
📴 Hardware Detection							
🗖 Replace file chan_dahdi.conf	Replace file chan dahdi.conf						
Detect Sangoma hardware Detect New Hardware							
Detect ISDN hardware							
Misdn Card	1						
Port 1: TE-mode BRI S/T interface line (for -> Protocol: DSS1 (Euro ISDN) -> Layer 4 protocol 0x04000001 is detecte -> childent: 2 * Port NOT useable for PBX (maybe there i	r phone lines) :d, but not allowed for TE lik is already a PBX running?)	52					
Port 2: TE-mode BRI S/T interface line (for -> Protocol: DSS1 (Euro ISDN) -> Layer 4 protocol 0x04000001 is detecte -> childcnt: 2 * Port NOT useable for PBX (maybe there i	r phone lines) :d, but not allowed for TE lib is already a PBX running?)	57					

From Misdn Card box we can get some information about the card.

Step 4: Add an extension in the system, you should follow this sequence: $PBX \rightarrow PBX$ Configuration \rightarrow Extensions. Here, there is an optional list. You can select the Device type in there which you want to. Like as "Generic SIP Device", "Generic ZAP Device", "Generic IAX2 Device", "other (custom) Device" and so on . In my case, I just select "Generic SIP Device", and click "Submit". Then, add the values of the text box, such as "User Extension", "Display Name", "CID number Alias", "SIP Alias" and " secret". Click "Submit" after that. At this time, the system will be presented an option to click like this:

Apply Configuration Changes Here

Click it remember! Now, you have finished the task of adding extension. You can add other extensions with this way.

Step 5: If want to add a trunk in this system. Take this way: PBX →PBX Configuration → Trunks. In there, it lists some selections to select. "Add Zap Trunk (DAHDI Compatibility Mode)", "Add IAX2 Trunk", "Add SIP Trunk", "Add ENUM Trunk", "Add DUNDI Trunk", "Add Custom Trunk". We should select the "Add Custom Trunk" one. Then, we can see this page:

Edit CUSTOM Trunk	Add Trunk
Delete Truck mISDN/1/\$01/TNLM\$	Trunk ZAP/g0
	Trunk mISDN/1/\$OUTNUM
In use by 1 route General Settings	
Outbound Caller ID:	
Never Override CallerID: 🗆	
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	
Custom Dial String: misdN/1/\$OUTNUM\$ Submit Changes	

Here, there is a very important value to add. Look at the picture, we can see the Custom Dial String text box. In this box, the default value is:"mISDN /g:isdn/\$OUTNUM\$".But you should according to your realistic case to write. Maybe there are some differences in difference cases. In my case, I just keep it default. Click the button "Submit Changes", and do as the same way which I mentioned before.

Step 6: Add an outbound Routes in the system is very simple. Go along like this please. PBX \rightarrow PBX Configuration \rightarrow Outbound Routes. It will be presented this page:

Edit Route		Add Route
⊜ Delete Route 9_ou	tside	0 9_outside
Route Name: Route Password: PIN Set: Emergency Dialing: Intra Company Route Music On Hold? Dial Patterns	9_OUTSIDE Rename	
Dial patterns wizards Trunk Sequence 0	9 . Clean & Remove duplicates : (pick one) mISDN/1/\$OUTNUM\$	
Submit Changes	mISDN/1/\$OUTNUM\$	

In this picture, we can see a default value of the Route. That is "0 9_outside". You can try to use in your system, but you must select the value in the "Trunk Sequence" selection list. In my system, I keep the default value in the Dial Patterns, and select the Trunk Sequence is "mISDN/1/\$OUTNUM\$" which I defined before. Actually, this value is decided by yourself. So, in

here, you have to pay more attention to your case. Step 7: Add an inbound Route. PBX \rightarrow PBX Configuration \rightarrow Inbound Routes.

Remote Access	Pause After Answer:
Callback	CID Lookup Source
DISA	
	Source: None -
	Set Destination
	C Terminate Call: Hangup
	• Extensions: <500> 500 -
	CIVR: Unnamed -
	C Phonebook Directory. Phonebook Directory 🖃
	Submit Clear Destination & Submit

Here, you must select the extension which you added before. In my case, I add an extension 500(SIP Device). Click the button "Submit" remember.

Step 8: If you finish all of the steps I mention above, then login into your system with text mode, and start asterisk. In the asterisk console, run the command misdn show stacks, we can get this:

*CLI>	
*ULI> misdn show stacks	
DEGIN STRUK_LIST.	
* Port 1 Type TE Prot.	PMP L2Link UP L1Link:UP Blocked:0 Debug:0
* Port 2 Type TE Prot.	PMP L2Link DOWN L1Link:DOWN Blocked:0 Debug:0
*CLI>	

Here, the system will show the ports info of the cards.

Step 9: Dial the extension number which you add before, in my case, I dial the sip number 500 with my mobile phone, and it shows as:

If it shows like this, which means it runs correctly. In the picture, we can read about the info and status of the phone when I dialing. Generally, we can get lots of information from here, and it would give us some advices, tips and so on.

Step 9: I change another way, I dial the number of the telephone company via my extension (SIP), and it shows:

*CL1>	
*CLI>	
*CLI>	— Executing [10000@from-internal:1] Dial("SIP/500-099f24a8", "mISDN/1/10000") in new stack
	Called 1/10000
	mISDN/2-u4 is proceeding passing it to SIP/500-099f24a8
	mISDN/2-u5 is ringing
	mISDN/2-u5 answered SIP/500-099f24a8
	Executing [b@from-internal:1] Macro("SIP/500-099f24a8", "hangupcall") in new stack
	Executing [s@macro-hanguncall:1] Gotolf("SIP/500-099f24a8" "12skinrg") in new stack
	Coto (macro-bangincal) s 4)
	Executing [Gemacro-hanguncall:4] CotoIf("SIP/500-009f24a8" "19skinhlkum") in new stack
	Coto (macro-hengincall c.7)
	Frequence in angularity, s, //
	Cate (many-hanging all a 9)
	Solution [$Macro Marguptant, S, S$]
C	Executing [semarburnels] hangup(air: 5] hangup(air: 700-05512446;) in new stack
	pawn extension (macro-hangupcail, s, s) exited hon-zero on Sir/Sou-OS9124as in macro hangupcail
2	pawn h extension (irom-internal, n, 1) exited hon-zero on SIF/S00-09912488
== 5	pawn extension (irom-internal, 10000, 1) exited non-zero on SIP/500-039124a8
	Executing [h@from-internal:1] Macro(SIP/500-099724a8, hangupcall) in new stack
	Executing [s@macro-hangupcall:1] Gotolf("SIP/500-099f24a8", "1?skiprg") in new stack
	Goto (macro-hangupcall, s, 4)
	Executing [s@macro-hangupcall:4] GotoIf("SIP/500-099f24a8", "1?skipblkvm") in new stack
	Goto (macro-hangupcall, s, 7)
	Executing [s@macro-hangupcall:7] GotoIf("SIP/500-099f24a8", "1?theend") in new stack
	Goto (macro-hangupcall, s, 9)
	Executing [s@macro-hangupcall:9] Hangup("SIP/500-099f24a8", "") in new stack
== S	pawn extension (macro-hangupcall, s. 9) exited non-zero on 'SIP/500-099f24a8' in macro 'hangupcall'
== S	pawn extension (from-internal, h, 1) exited non-zero on 'SIP/500-099f24a8'

If you get the info like this, which means the setting is right.