



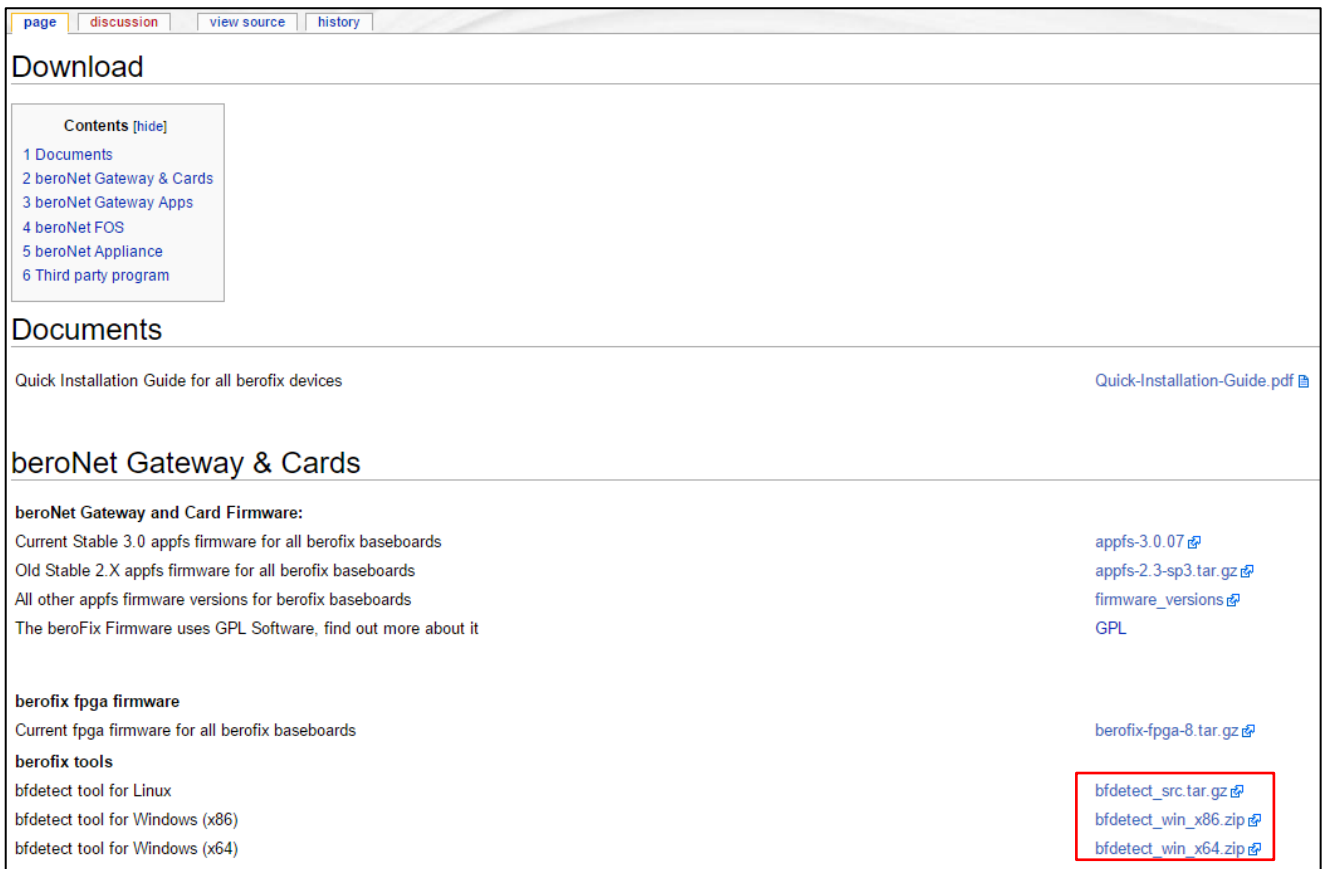
Cloud managed & monitored
VoIP Gateways and Appliances

Guida per la configurazione dei Gateway beroNet con
SIP Trunk VoIP Voice



I. Come accedere all'interfaccia del Gateway beroNet

Ogni Gateway beroNet ottiene un indirizzo IP via DHCP. Per poter rilevare l'indirizzo IP del gateway beroNet è necessario scaricare il **bfdetect** tool dalla nostra pagina wiki: <http://wiki.beronet.com/index.php/Download>. È possibile scegliere la versione del **bfdetect** compatibile con il proprio sistema operativo.



The screenshot shows a Wiki page titled "Download". At the top, there are navigation tabs: "page", "discussion", "view source", and "history". Below the title, there is a "Contents [hide]" box with a list of links: "1 Documents", "2 beroNet Gateway & Cards", "3 beroNet Gateway Apps", "4 beroNet FOS", "5 beroNet Appliance", and "6 Third party program". The main content area is divided into sections. The "Documents" section contains a link to "Quick Installation Guide for all berofix devices" pointing to "Quick-Installation-Guide.pdf". The "beroNet Gateway & Cards" section has a sub-section "beroNet Gateway and Card Firmware:" with links for "Current Stable 3.0 appfs firmware for all berofix baseboards" (pointing to "appfs-3.0.07"), "Old Stable 2.X appfs firmware for all berofix baseboards" (pointing to "appfs-2.3-sp3.tar.gz"), "All other appfs firmware versions for berofix baseboards" (pointing to "firmware_versions"), and "The beroFix Firmware uses GPL Software, find out more about it" (pointing to "GPL"). Below this is "berofix fpga firmware" with a link to "berofix-fpga-8.tar.gz". The "berofix tools" section lists "bfdetect tool for Linux", "bfdetect tool for Windows (x86)", and "bfdetect tool for Windows (x64)". The links for "bfdetect_src.tar.gz", "bfdetect_win_x86.zip", and "bfdetect_win_x64.zip" are highlighted with a red box.

Una volta scaricato il **bfdetect**, eseguire l'applicazione per rilevare l'indirizzo IP del Gateway.

La schermata sottostante apparirà sul vostro schermo e sarà possibile individuare l'indirizzo IP relativo al/ai Gateway.

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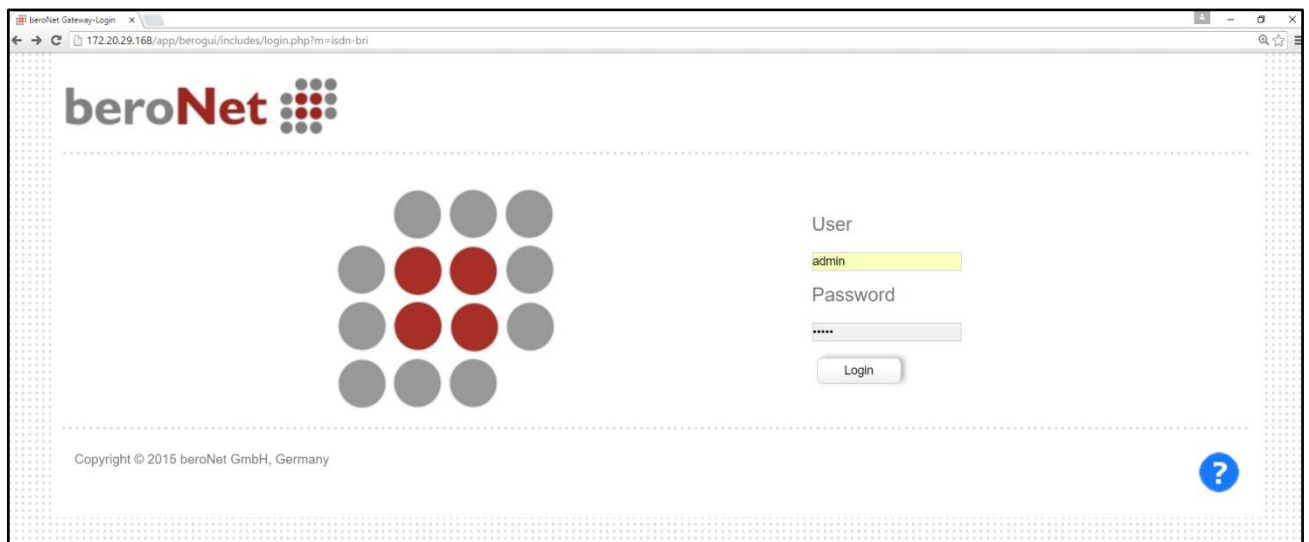
C:\Users\ascacchioli\Desktop\Varie\bfdetect_win_x64\bfdetect.exe

1) serial: To be filled by O.E.M.      appfs: 0.4          mac: d8:df:0d:03:e2:04 ip: 172.20.29.170
2) serial: 20-08-0000000069          appfs: 0.3          mac: 00:e0:70:02:47:33 ip: 172.20.5.36
3) serial: 20-16-0000000001          appfs: 0.5          mac: d8:df:0d:03:39:05 ip: 172.20.5.35
4) serial: 20-16-0000000004          appfs: 0.2          mac: 00:13:3b:10:08:48 ip: 172.20.10.10
5) serial: To be filled by O.E.M.      appfs: 0.4          mac: d8:df:0d:03:e2:04 ip: 172.20.29.170
6) serial: 20-08-0000000069          appfs: 0.3          mac: 00:e0:70:02:47:33 ip: 172.20.5.36
7) serial: 20-16-0000000001          appfs: 0.5          mac: d8:df:0d:03:39:05 ip: 172.20.5.35
8) serial: 20-16-0000000004          appfs: 0.2          mac: 00:13:3b:10:08:48 ip: 172.20.10.10
9) serial: 1-04-0000001297          appfs: 3.1-atos-rc1 mac: 00:50:c2:83:d7:8e ip: 172.20.13.222
10) serial: 1-04-0000000032          appfs: 3.0.07       mac: 00:50:c2:83:df:6d ip: 172.20.11.112
11) serial: 3-04-0000005625          appfs: 16-02-05-16_02 mac: d8:df:0d:00:19:4f ip: 172.20.14.100
12) serial: 3-04-0000010976          appfs: 3.x-master-p216 mac: d8:df:0d:00:1e:09 ip: 172.20.11.110
13) serial: 3-04-0000005629          appfs: 3.1-atos-rc1 mac: d8:df:0d:00:0a:8c ip: 172.20.13.150
14) serial: 3-04-0000004805          appfs: 3.0.07       mac: d8:df:0d:00:07:ed ip: 172.20.13.230
15) serial: 2-16-0000012238          appfs: 3.0.03-Phone-Detect-rc001. mac: d8:df:0d:00:22:e8 ip: 172.20.10.9
16) serial: 3-64-0000008788          appfs: 3.x-master-p195-sprint22.t mac: d8:df:0d:00:15:c5 ip: 172.20.13.202
17) serial: 1-04-0000001297          appfs: 3.1-atos-rc1 mac: 00:50:c2:83:d7:8e ip: 172.20.13.222
18) serial: 3-04-0000005625          appfs: 16-02-05-16_02 mac: d8:df:0d:00:19:4f ip: 172.20.14.100
19) serial: 1-04-0000000032          appfs: 3.0.07       mac: 00:50:c2:83:df:6d ip: 172.20.11.112
20) serial: 3-04-0000005629          appfs: 3.1-atos-rc1 mac: d8:df:0d:00:0a:8c ip: 172.20.13.150
21) serial: 3-04-0000010976          appfs: 3.x-master-p216 mac: d8:df:0d:00:1e:09 ip: 172.20.11.110
22) serial: 3-04-0000004805          appfs: 3.0.07       mac: d8:df:0d:00:07:ed ip: 172.20.13.230
23) serial: 2-16-0000012238          appfs: 3.0.03-Phone-Detect-rc001. mac: d8:df:0d:00:22:e8 ip: 172.20.10.9
24) serial: 3-64-0000008788          appfs: 3.x-master-p195-sprint22.t mac: d8:df:0d:00:15:c5 ip: 172.20.13.202
25) serial: unknown                  appfs: unknown     mac: D8:DF:0D:00:0E:F8 ip: 172.20.8.200
26) serial: unknown                  appfs: unknown     mac: D8:DF:0D:00:0B:60 ip: 172.20.25.100
27) serial: unknown                  appfs: unknown     mac: D8:DF:0D:00:06:BC ip: 10.0.0.55
28) serial: unknown                  appfs: unknown     mac: 00:50:C2:83:D5:42 ip: 172.20.0.104
29) serial: unknown                  appfs: unknown     mac: D8:DF:0D:00:23:91 ip: 172.20.5.22
30) serial: 3-04-0000012754          appfs: 3.0.03-rc3  mac: D8:DF:0D:00:25:99 ip: 172.20.13.160
31) serial: unknown                  appfs: unknown     mac: D8:DF:0D:00:11:63 ip: 172.20.0.106
32) serial: 2-16-0000014668          appfs: 3.0.06       mac: D8:DF:0D:00:2C:43 ip: 172.20.29.168
33) serial: 9-04-0000012883          appfs: 3.0.04       mac: D8:DF:0D:00:23:BF ip: 172.20.8.3
34) serial: unknown                  appfs: unknown     mac: D8:DF:0D:00:01:86 ip: 172.20.5.80

Select a device:

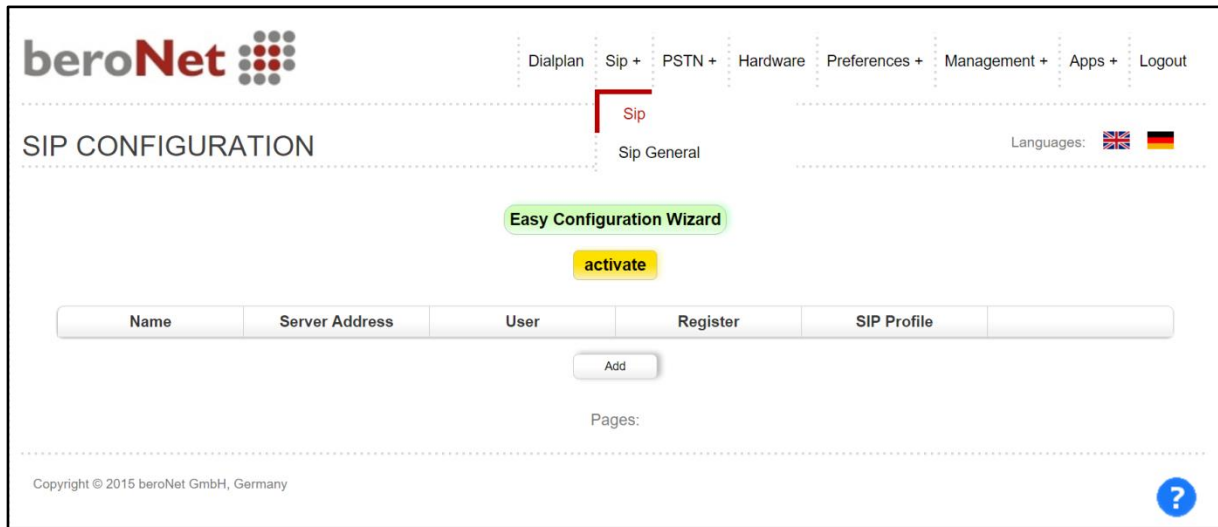
```

Per accedere all'interfaccia del Gateway bisogna selezionare l'indirizzo IP visualizzato e incollarlo nella barra di ricerca del vostro browser. Usare le credenziali admin/admin per effettuare il login.

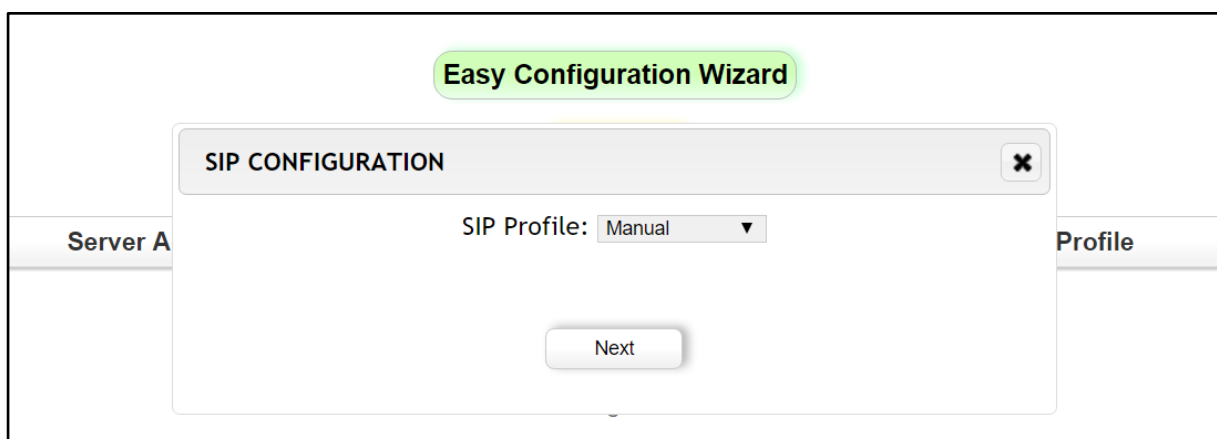


2. Configurazione Account SIP

Ogni account SIP (IPBX, provider, estensioni VoIP) va configurato nella sezione “Sip+”. Prima di procedere con la configurazione dell’account SIP è necessario crearlo selezionando l’etichetta “Sip” nella sezione “Sip+” e cliccare su “Add”.



Scegliere “Manual” dal menu a tendina per procedere con la creazione dell’account SIP.



Per configurare un account SIP, sono necessari un Name, Server Address, User e una password segreta. In base all'account SIP, potrebbe essere necessario attivare il "Register". Compilare i campi come raffigurato nell'immagine sottostante utilizzando i parametri di configurazione VoIP Voice in vostro possesso.

Name:	VoIPVoice
Server Address:	link.voipvoice.it
User:	0550763778
Authentication user:	
Displayname:	
Secret:
Match type:	<input checked="" type="checkbox"/> IP Address <input type="checkbox"/> From User <input type="checkbox"/> To User <input type="checkbox"/> Contact User <input type="checkbox"/> Request-URI User <input type="checkbox"/> Manual
SIP transport:	udp
NAT options:	<input checked="" type="radio"/> No-NAT <input type="radio"/> STUN-Server <input type="radio"/> Extern-IP
Register:	<input checked="" type="checkbox"/>
Registration interval:	300
Register option:	no-validate
Keepalive-Interval:	0

[more...](#)

Save Close

Per abilitare l'invio di fax, cliccare su "more" e modificare la stringa *force_t38_reinvite=0* in *force_t38_reinvite=1* visibile nella sezione "Additional configuration options". Salvare la configurazione premendo "Save".

International prefix	00
To SIP	
Destination number format	unknown
OAD prefix setting	none
From SIP	
DAD prefix setting	replace "+" by "prefix"
OAD prefix setting	replace "+" by "prefix"
SRTP	
SRTP Mode	off
Additional configuration options	
<pre> faxdetect_call_termination= faxdetect_options=10:1:400:600:2500:3500 feature_codes= force_t38_reinvite=1 from_sip_dest_setting=to_user hdlc=0 jbopt= override= remove_empty_display_quotes=1 response_timer= rtc2833_dtmf_passthrough=1 rpi_anonymity_flags= rtp_loopback=0 rtp_packet_size=20 rtp_traffic_check=0 s2fxo.cnt=default </pre>	
Additional configuration options description	
<p>Option: 302_on_pstn_fail</p> <p>Values: <destination number></p> <p>Default:</p> <p>send sip 302 with given number, if no free pstn slot was found, overrides causes map, dialplan variable $\\$(to_user)$ can be used</p> <p>Option: aoc</p>	
<input type="button" value="Save"/> <input type="button" value="Close"/>	

Premere quindi "activate" per attivare l'account SIP.

Languages:

Name	Server Address	User	Register	SIP Profile	
VoIPVoice	link.voipvoice.it	0550763778	1	manual	

Pages: 1

Accertarsi che l'account SIP sia attivo selezionando "State" dal menu a tendina nella sezione "Management+".

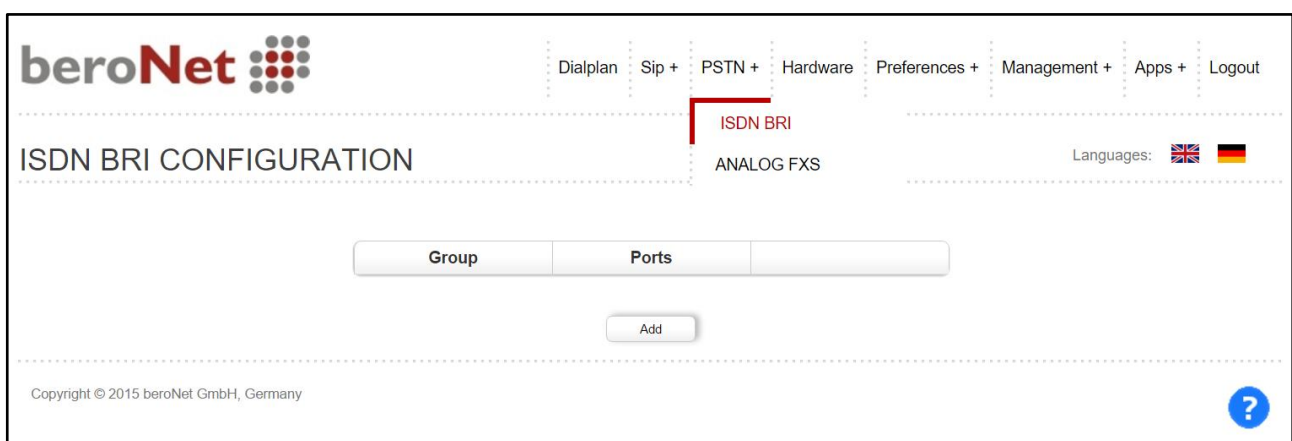


The screenshot shows the 'Management+' menu item highlighted in red. Below it, the 'STATE' section is visible, showing a table with registration status for the 'VoIPVoice' account. The table has four columns: Account name, Registrar, User, and Status. The status is indicated by a green dot.

Registration status:			
Account name	Registrar	User	Status
VoIPVoice	link.voipvoice.it	0550763778	●

3. Configurazione porte ISDN/Analogiche

In base al tipo di Gateway, le porte possono essere: BRI, PRI, FXO, FXS o GSM. La configurazione è più o meno sempre la stessa per tutte le porte. Tale configurazione va fatta nella sezione "PSTN+". Per iniziare la configurazione delle porte del Gateway beroNet, selezionare quindi "ISDN BRI" o "ANALOG FXS" e premere "Add" per aggiungere le porte.



The screenshot shows the 'PSTN+' menu item highlighted in red. Below it, the 'ISDN BRI CONFIGURATION' section is visible. The 'ISDN BRI' option is highlighted in red. Below the options, there are buttons for 'Group', 'Ports', and 'Add'. The 'Add' button is highlighted in red.

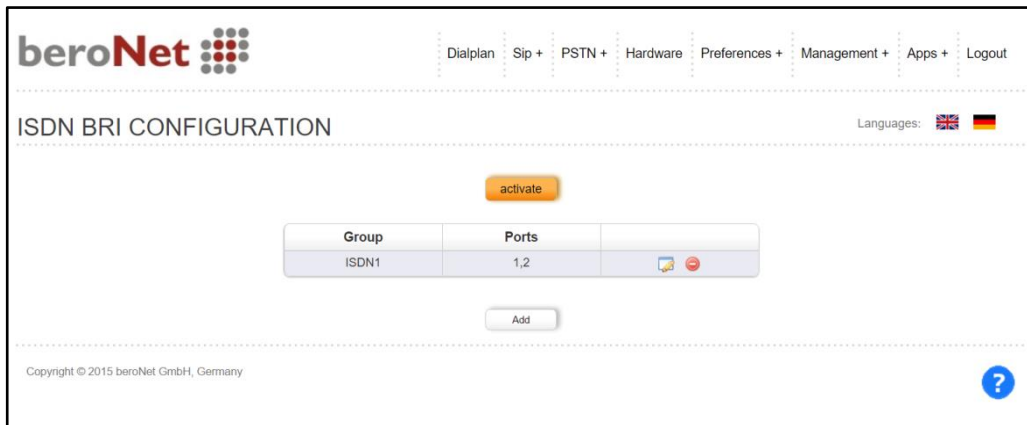
Compilare i campi nel seguente modo:

- assegnare un nome;
- selezionare una o entrambe le porte (1,2) nella sezione “Ports”;
- scegliere [it] nella sezione “Tones”;
- inserire il “Country code” e il “City code” del Paese/Località di riferimento;
- premere “Save” per salvare le impostazioni;
- premere “activate” per attivare le porte.

ISDN-BRI✕

Group Name:	<input type="text" value="ISDN1"/>
Ports:	Li0(bf2S02FXS) Li1() Port 1 <input checked="" type="checkbox"/> Port 2 <input checked="" type="checkbox"/>
ChanSel:	<input type="text" value="standard"/>
ChanSel direction:	<input type="text" value="ascending"/>
Tones:	<input type="text" value="[it]"/>
Interdigit timeout:	<input type="text" value="3"/>
Interdigit timeout initial:	<input type="text" value="15"/>
Overlap Dialing:	<input type="checkbox"/>
QSIG support:	<input type="checkbox"/>
Link Down behaviour:	<input type="text" value="Pull Link Up (2s)"/>
Country code:	<input type="text" value="39"/>
City code:	<input type="text" value="055"/>
Local area code:	<input type="text" value=""/>
Pcmlaw:	<input type="text" value="default"/>

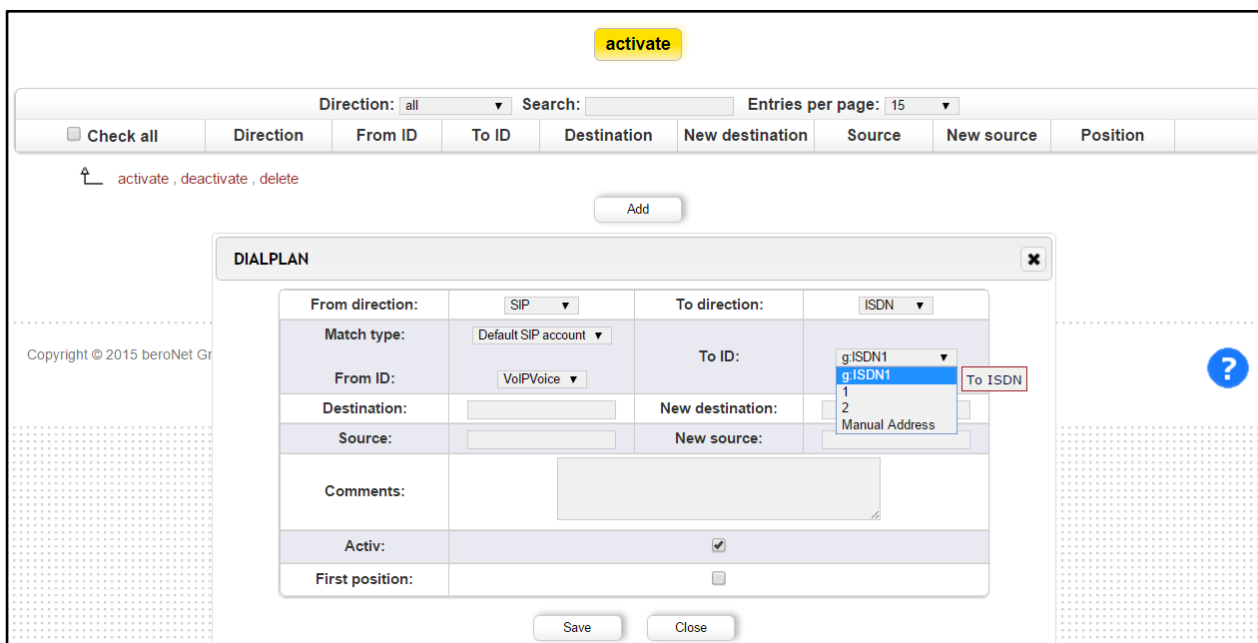
more...



Accertarsi che le porte BRI siano attive selezionando “State” dal menu a tendina nella sezione “Management+”. Qualora aveste bisogno di porte analogiche, queste possono essere configurate seguendo la stessa procedura.

4. Dialplan

Il dialplan consente al Gateway di connettere due diverse tecnologie. Per iniziare la configurazione, cliccare nella sezione “Dialplan” e premere poi il tasto “Add”. È necessario scegliere da/verso quale tecnologia devono essere indirizzate le chiamate. Le regole del dialplan funzionano a coppie: le chiamate provenienti da una tecnologia devono essere indirizzate verso un'altra tecnologia, e viceversa.



Sarà quindi necessario creare due regole procedendo come mostrato nell'immagine sopra:

(1) Premere “Add” per creare la prima regola: *From SIP To ISDN, From VoIP Voice To ISDN/* (se si vogliono usare entrambe le porte, altrimenti è sufficiente selezionare la singola porta 1,2). Premere “Save” per salvare la regola.

(2) Premere “Add” per creare la seconda regola: *From ISDN To SIP, From ISDN/ To VoIP Voice.* Premere “Save” per salvare la regola.

The screenshot shows the 'DIALPLAN' configuration page in the beroNet interface. At the top, there is a navigation menu with links for Dialplan, Sip, PSTN, Hardware, Preferences, Management, Apps, and Logout. Below the menu, the page title 'DIALPLAN' is displayed along with language options for English and German. A yellow 'activate' button is prominently shown. Below this, there is a table with columns for 'Check all', 'Direction', 'From ID', 'To ID', 'Destination', 'New destination', 'Source', 'New source', and 'Position'. The table contains two entries: one for 'sip-isdn' and one for 'isdn-sip'. At the bottom of the table, there are links for 'activate', 'deactivate', and 'delete', and an 'Add' button.

<input type="checkbox"/> Check all	Direction	From ID	To ID	Destination	New destination	Source	New source	Position	
<input type="checkbox"/>	sip-isdn	VoIPVoice	ISDN1	(.*)	\1	(.*)	\1	1	
<input type="checkbox"/>	isdn-sip	ISDN1	VoIPVoice	(.*)	\1	(.*)	\1	2	

[↑ activate](#), [deactivate](#), [delete](#)

Attivare il dialplan cliccando su “activate”. In questo modo tutte le chiamate provenienti dall’account SIP saranno indirizzate alle porte ISDN e viceversa. Il Gateway è ora configurato.