

PRI Installation and Configuration Quick Guide

Getting Started

To configure a PRI you should have in hand certain information from the carrier before you begin. This information includes,

- What switch type will be used?
- What dial plan?
- What is the Framing and Coding?
- Will the provider be configured as the primary timing source?
- What channels are going to be used for calling?
- A number handy for Technical assistance from the Carrier before you prepare for the cutover.

Installing the Card

To configure a PRI card the first step is to install the card itself into the system (if your system was shipped with the card already installed, skip down to the configuration section). This process is like installing a card into a PC. If you have not done this, there are many guides on the internet.

- Power the PBX down and properly ground yourself before opening the chassis.
- Remove the screws and open the Chassis
- Locate an available PCI slot and install the card (IP1200 you can only use the top most card slot, IP1500/IP2000/IP5000 the slot closest to the riser is slot 1)
- Replace the Chassis and power the system up.

Configuring the PRI

Once booted you are ready to navigate to the IP address of the PBX and begin configuring your PRI card.

- Browse to Providers Hardware providers.
- Select the correct card and click Set (IPitomy sells a single port T1 and a Dual port T1 card. The single Port is identified as a T110P, The Dual port is identified as a TE205P).
- You should then configure the T-1 Span configuration according to the information provided by your carrier, clicking Set when done.

T-1 Span Configuration						
Span	Timing	LBO	Framing	Coding	PRI	
1	1	0 dB (CSU) / 0-133 ft (DSX-1) ▼	esf ▼	b8zs ▼	<input checked="" type="checkbox"/>	Set
2	0	0 dB (CSU) / 0-133 ft (DSX-1) ▼	esf ▼	b8zs ▼	<input type="checkbox"/>	Set

T-1 PRI Configuration						
Span	Switch Type	Reset Interval	Dialplan	Indication	D Channel	
1	National ISDN 2 ▼	3600	national ▼	inband ▼	24	Set

- Then configure the T-1 PRI Configuration according to the info from your provider, clicking Set when done

T-1 PRI Configuration						
Span	Switch Type	Reset Interval	Dialplan	Indication	D Channel	
1	National ISDN 2 ▼	3600	national ▼	inband ▼	24	Set

- Click Add Lines to create your trunk group
- Give the trunk group a **Name**
- Enter the **Start** and **End** channels to reflect the channels to be used (Start must be a lower number than the End channel)
- Set the **Signaling Type** to PRI_CPE (unless otherwise specified by the provider)
- **Allow Caller to Transfer an Outbound call** should typically be enabled as this will allow the user to make an outbound call, then Park or Transfer that call
- The rest of this page can be left at the defaulted values or configured as needed, unless the end user requests otherwise. Some fields may need minor tweaking (eg. Answer After might need to be increased for CID to correctly display)

Channel Group Parameters Card 1			
Group Name: <input type="text" value="T1 Trunks"/>	Signalling Type: <input type="text" value="pri_cpe"/> ▼	Generate Ringing on outbound calls? <input type="checkbox"/>	Answer Incoming? <input type="text" value="Yes"/> ▼
Start Channel: <input type="text" value="1"/>	Area Code: <input type="text" value="111"/>	Allow Caller to transfer an outbound call? <input checked="" type="checkbox"/>	Answer After: <input type="text" value="2"/> sec
End Channel: <input type="text" value="23"/>	Dial Prefix: <input type="text"/>	Allow Call Recording? <input checked="" type="checkbox"/>	Ext CID Override? <input checked="" type="checkbox"/>
Use Caller ID: <input type="text" value="Yes"/> ▼	Echo Cancellation: <input type="text" value="No (0)"/> ▼	RX Gain: <input type="text" value="0.0"/> db	Restrict CID Override? <input type="checkbox"/>
Inbound Caller ID: <input type="text" value="asreceived"/>	Echo Cancellation Bridged: <input type="text" value="No"/> ▼	TX Gain: <input type="text" value="0.0"/> db	Busy Detect: <input type="text" value="Yes"/> ▼ : <input type="text" value="8"/>
Outbound Caller ID Name: <input type="text"/>	Echo Training: <input type="text" value="no"/>	Route Calls to: <input type="text" value="Menus"/> ▼ Menu: <input type="text" value="Main Menu"/> ▼ ...	
Outbound Caller ID Number: <input type="text" value="9413062200"/>	Relax DTMF (Detection): <input type="text" value="Yes"/> ▼		

- After Saving and Applying your programming, connect your PRI line and click **Reset USB Devices and PBX Services** button on the Hardware Providers page

USB Device Browser		
Slot	Status	Device
Hardware Functions		
Restart USB Devices & PBX Services		View Log

Congratulations, you have now successfully installed and configured your PRI. You can do a visual check of the status light on the card itself at this point making sure it is green. Now you should navigate to **Outbound Routing** to set your new trunk for use dialing out, and **to Incoming Routing** to point the trunk to the appropriate inbound destination, and you are ready to test your circuit.