

How to Connect MyPBX to NeoGate TE100 via SIP Trunking

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1. Introduction

This application note shows how to connect MyPBX to NeoGate TE100 via SIP trunking.

Target:

1. Make outbound calls from MyPBX extension through the E1 trunks of NeoGate TE100 directly.
2. Receive calls from E1 trunks of NeoGate TE100 at MyPBX.

Description:

IP address of MyPBX: 192.168.5.142

IP address of NeoGate TE100: 192.168.5.239

E1 DID range: 5551000-5551099

E1 DOD range: 5551000-5551099

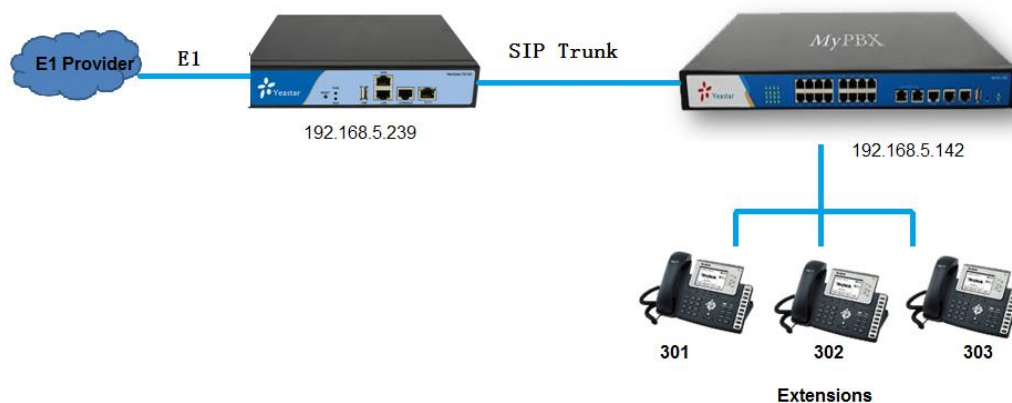
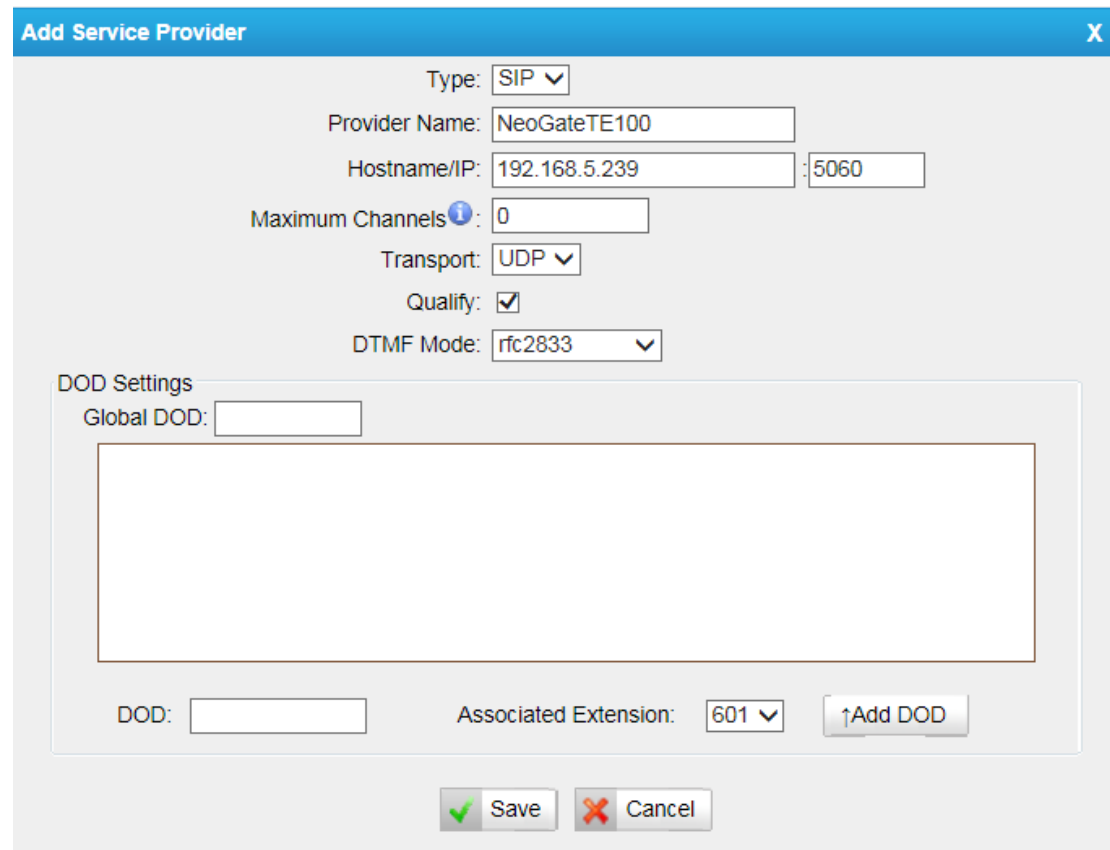


Figure 1

2. Connect MyPBX to NeoGate TE100

2.1 Create a Service Provider SIP Trunk on MyPBX

Path: PBX→Trunks→VoIP Trunk→Add Service Provider



The 'Add Service Provider' dialog box contains the following fields and options:

- Type: SIP (dropdown)
- Provider Name: NeoGateTE100 (text box)
- Hostname/IP: 192.168.5.239 (text box), Port: 5060 (text box)
- Maximum Channels: 0 (text box)
- Transport: UDP (dropdown)
- Qualify: ☒ (checkbox)
- DTMF Mode: rfc2833 (dropdown)
- DOD Settings section:
 - Global DOD: (empty text box)
 - Large empty text area for DOD list
 - DOD: (empty text box)
 - Associated Extension: 601 (dropdown)
 - ↑Add DOD (button)
- Save (green checkmark button) and Cancel (red X button) buttons at the bottom.

Figure 2

Trunk Type: Service Provider

Provider Name: NeoGateT100

Hostname/IP: 192.168.5.239

After save and apply the changes, you will see the trunk is 'ok' in 'Line Status' page.

Path: Status→Line Status→Trunk Status



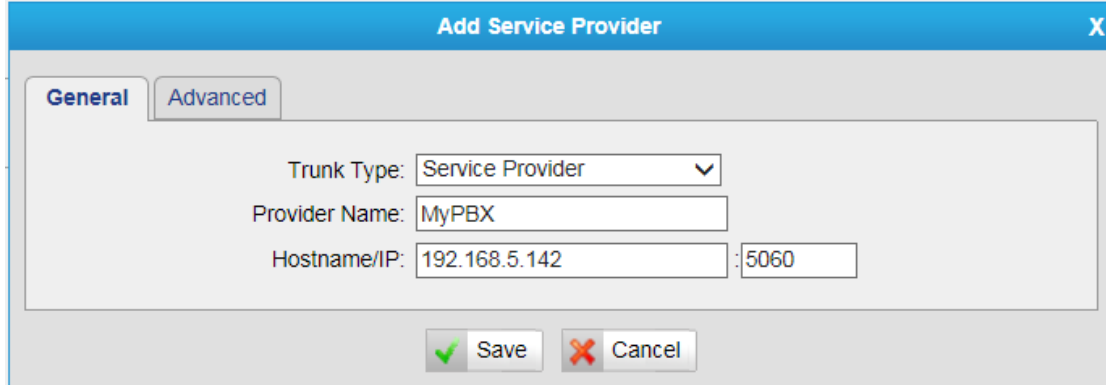
The 'Line Status' page shows the 'Trunk Status' tab with the following table:

Status	Signal	Trunk Name	Type	User Name	Port/Hostname/IP	Reachability
OK (8 ms)		NeoGateTE100	SP-SIP		192.168.5.239	OK (8 ms)

Figure 3

2.2 Create a VoIP Trunk on NeoGate TE100

Path: Gateway→VoIP Settings→VoIP Trunk→Add VoIP Trunk
Choose "Service Provider" mode, and fill in MyPBX IP address.



The image shows a web-based dialog box titled "Add Service Provider" with a close button (X) in the top right corner. It has two tabs: "General" (selected) and "Advanced". In the "General" tab, there are three input fields: "Trunk Type" is a dropdown menu set to "Service Provider"; "Provider Name" is a text box containing "MyPBX"; and "Hostname/IP" is a text box containing "192.168.5.142" followed by a port field containing "5060". At the bottom of the dialog are two buttons: "Save" with a green checkmark icon and "Cancel" with a red X icon.

Figure 4

Trunk Type: Service Provider

Provider Name: MyPBX

Hostname/IP: 192.168.5.142

After save and apply the changes, you will see the trunk is 'ok' in 'Line Status' page.

Path: Status→System Status→Trunk Status

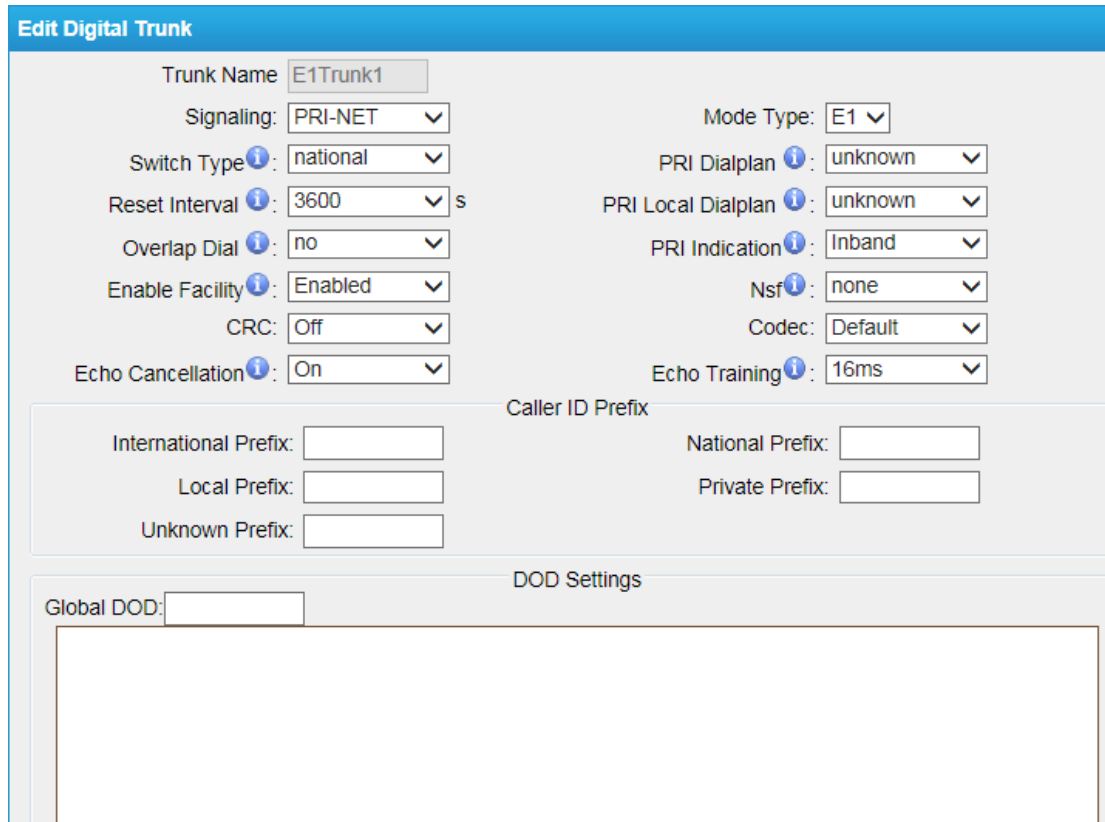


The image shows the "NeoGate" web interface. The top navigation bar includes "Status", "System", "Gateway", and "Logout" icons. The left sidebar has "System Status" (expanded) and "Network Status". The main content area is titled "Trunk Status" and contains a table with the following data:

Status	Trunk Name	Type	User Name	Hostname/IP	Reachability
OK (11 ms)	MyPBX	SP-SIP		192.168.5.142	OK (11 ms)

Figure 5

2.3 Setup E1 trunk on NeoGate TE100 referring to the E1 trunk provider



Edit Digital Trunk

Trunk Name:

Signaling:

Mode Type:

Switch Type:

PRI Dialplan:

Reset Interval: s

PRI Local Dialplan:

Overlap Dial:

PRI Indication:

Enable Facility:

Nsf:

CRC:

Codec:

Echo Cancellation:

Echo Training:

Caller ID Prefix

International Prefix:

National Prefix:

Local Prefix:

Private Prefix:

Unknown Prefix:

DOD Settings

Global DOD:

Figure 6

After save and apply changes, please check the E1 trunk status on Status -> System Status -> Trunk status

Trunk Name	Mode Type	Connected	Alarm
E1Trunk1	E1	●	●

Figure 7

3. Outgoing Call from MyPBX Extensions through E1

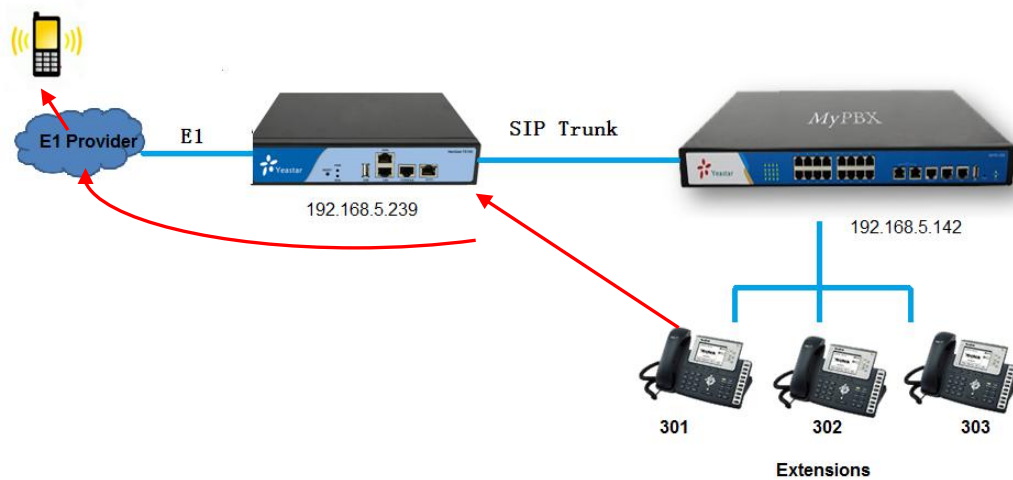


Figure 8

3.1 Create an Outbound Route on MyPBX

Path: PBX → Outbound call control → outbound routes

Choose the VoIP trunk "NeoGateTE100" and set the rule for the outbound as the picture shows, which allows users to dial out any number out.

Add Outbound Route

Route Name i:

Dial Pattern i:

Strip i: digits from front

Prepend these digits i: before dialing

Password:

T.38 Support i: ▼

Rmemory Hunt i: ▼

Office Hours: ▼

Member Extensions i

Available Extensions		Selected
	<input type="button" value="»»"/> <input type="button" value="→"/> <input type="button" value="←"/> <input type="button" value="««"/>	300(SIP) 301(SIP) 302(SIP) 303(SIP) 304(SIP) 305(SIP) 601(FXS) 602(FXS)

Member Trunks i

Available Trunks		Selected
pstn7(FXO) pstn8(FXO) pstn9(FXO)	<input type="button" value="»»"/>	NeoGateTE100(SPS)

Figure 9

3.2 Create Route on NeoGate TE100

Path: Gateway→Routes Settings→Routes List

New Route X

Simple Mode i: ▼

Route name i:

Match Incoming Calls:

Call Comes in From ▼

Handle Matched Incoming Calls:

Send Call Through: ▼

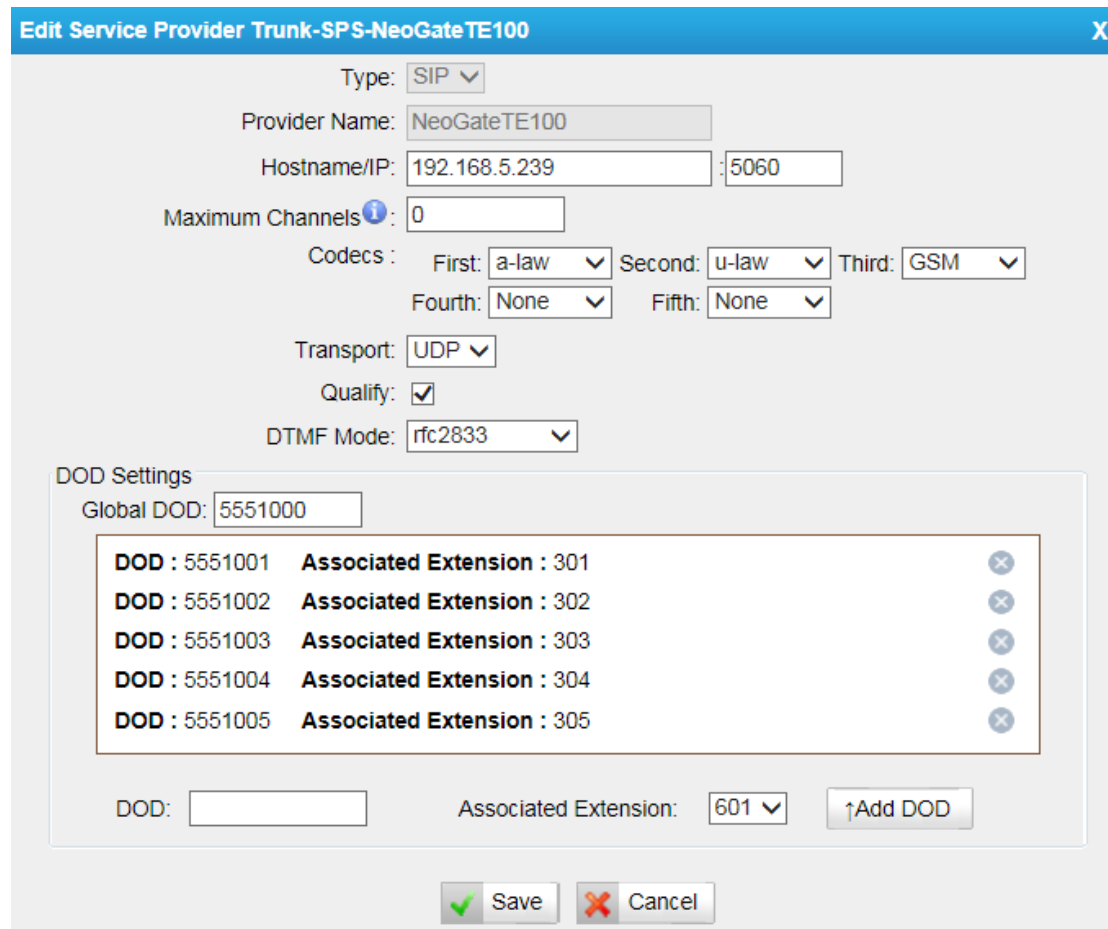
Figure 10

Simple Mode: Yes

Call Comes in From: ServiceProvider-MyPBX.

Send Call Through: Trunk—E1Trunk1.

3.3 Setup DOD for MyPBX Extensions on MyPBX



Edit Service Provider Trunk-SPS-NeoGateTE100

Type:

Provider Name:

Hostname/IP: :

Maximum Channels:

Codecs: First: Second: Third:
Fourth: Fifth:

Transport:

Qualify: ☒

DTMF Mode:

DOD Settings

Global DOD:

DOD : 5551001	Associated Extension : 301	<input type="button" value="x"/>
DOD : 5551002	Associated Extension : 302	<input type="button" value="x"/>
DOD : 5551003	Associated Extension : 303	<input type="button" value="x"/>
DOD : 5551004	Associated Extension : 304	<input type="button" value="x"/>
DOD : 5551005	Associated Extension : 305	<input type="button" value="x"/>

DOD: Associated Extension:

Figure 11

For example, we set extension 301 as DOD number 5551001. When you use extension 301 to make outgoing call through NeoGate TE100, callee will see the caller ID number 5551001.

4. Incoming Call from E1 to MyPBX

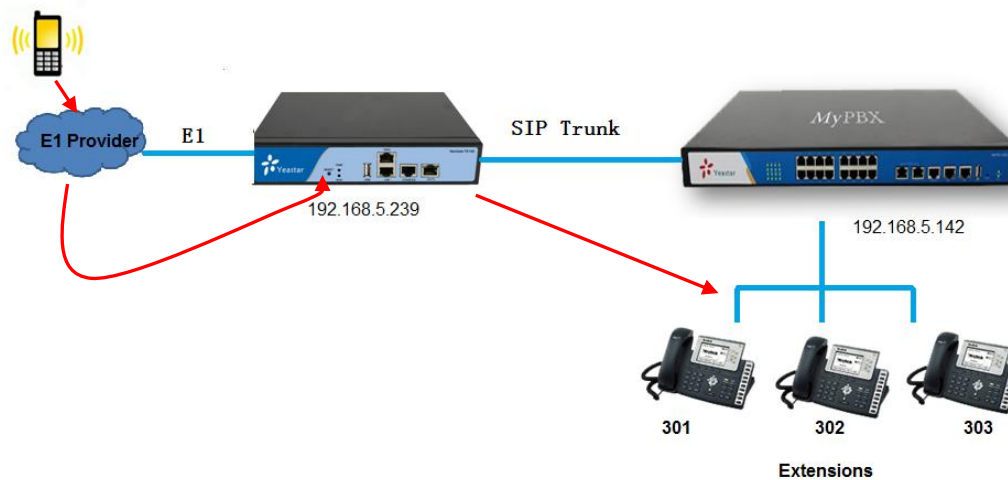
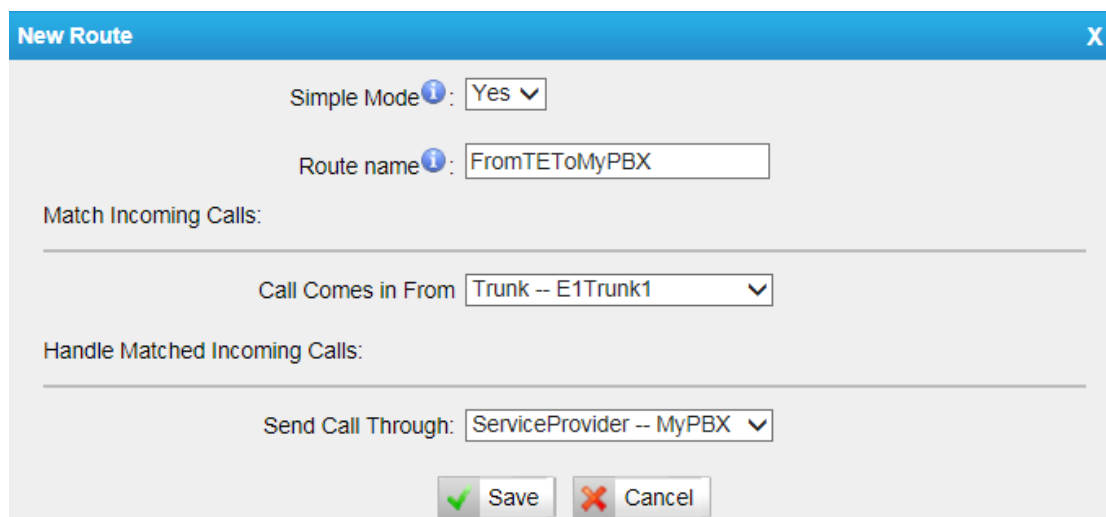


Figure 12

4.1 Create 'FromTEToMyPBX' Route on NeoGate TE100

Path: Gateway→Routes Settings→Routes List



New Route

Simple Mode: Yes

Route name: FromTEToMyPBX

Match Incoming Calls:

Call Comes in From: Trunk -- E1Trunk1

Handle Matched Incoming Calls:

Send Call Through: ServiceProvider -- MyPBX

Save Cancel

Figure 13

Simple Mode: Yes

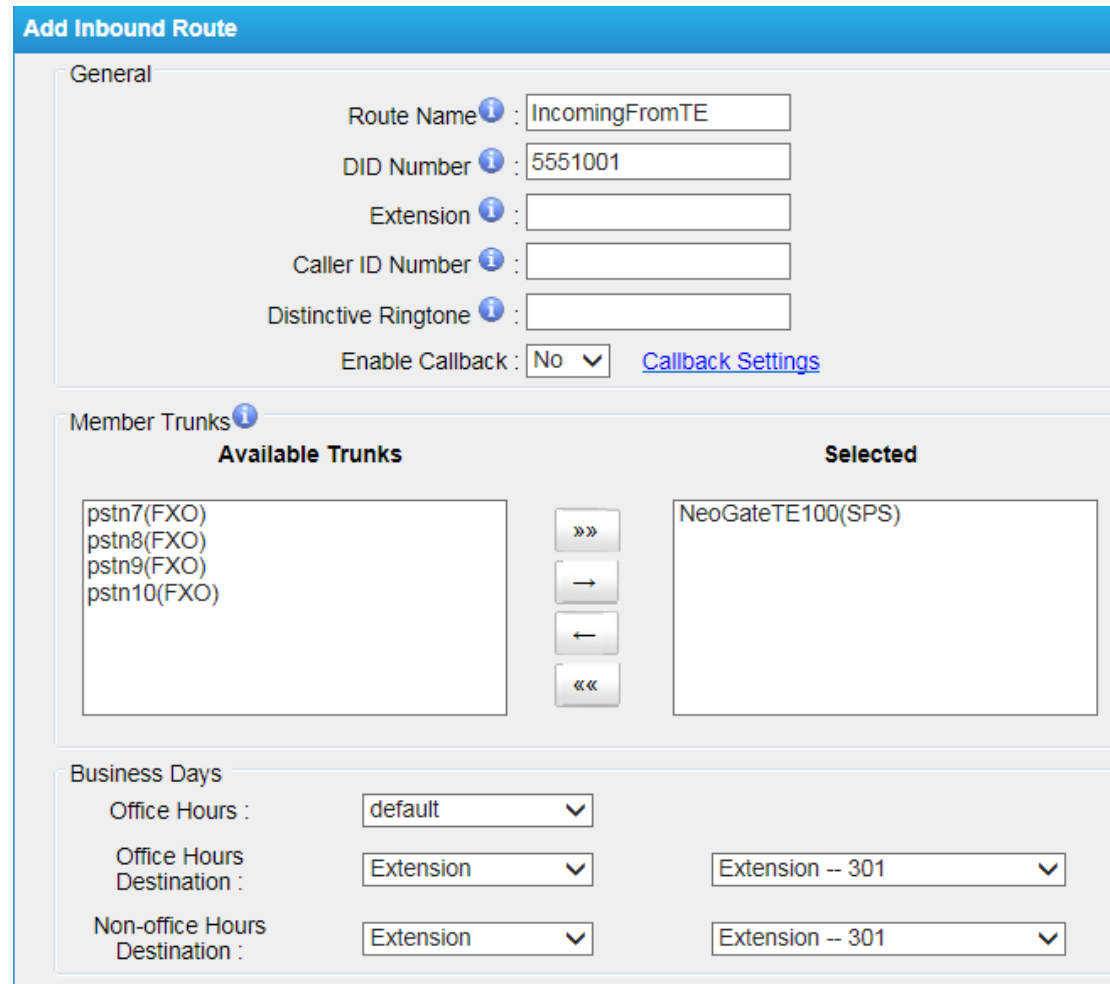
Call Comes in From: Trunk—E1Trunk1.

Send Call Through: ServiceProvider-MyPBX.

4.2 Create an Inbound Route on MyPBX

Path: PBX→Inbound Call Control→Inbound Routes

In this guide, we set the DID number as 5551001 and set destination to extension 301.



Add Inbound Route

General

Route Name ⁱ: IncomingFromTE

DID Number ⁱ: 5551001

Extension ⁱ:

Caller ID Number ⁱ:

Distinctive Ringtone ⁱ:

Enable Callback: No [Callback Settings](#)

Member Trunks ⁱ

Available Trunks		Selected
pstn7(FXO) pstn8(FXO) pstn9(FXO) pstn10(FXO)	»» → ← ««	NeoGateTE100(SPS)

Business Days

Office Hours: default

Office Hours Destination: Extension Extension -- 301

Non-office Hours Destination: Extension Extension -- 301

Figure 14

DID number: 5551001 (which is same to the E1 trunk external number)

Set Destination: 301

After saving the settings, you can dial the E1 DID number 5551001 from the mobile phone, the call will be routed to the extension 301 on MyPBX.

<End>