



Yeastar TG Gateway Integration Guide Installation Guide

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Yeastar TG Gateway Integration



Connect Yea star P-Series PBX System and Yea star TG GSM Gateway

This guide provides a configuration example to describe how to extend GSM/3G/4G trunks for Yeastar P-Series PBX System.

Background

The instructions provided in this guide are based on the following test environment.

Equipment	Firmware Version	IP Address
Yeastar P560 PBX System	37.2.0.81	192.168.6.124
Yeastar TG400 GSM Gateway	91.3.0.21.4	192.168.6.200

There are two SIM cards installed in Yeastar TG400 GSM Gateway. The following table shows mobile number prefixes of the two carriers.

SIM Card	Carrier	Mobile Prefix
SIM Card 1	Carrier A	92
SIM Card 2	Carrier B	10



Objectives

This guide provides guidance based on the above scenario to help you achieve following objectives:

- Connect Yeastar P-Series PBX System and Yeastar TG400 Gateway
- Make Outbound Calls through a Designated GSM Trunk
- Route Calls from Different Carriers to Different Destinations

Connect Yeastar P-Series PBX System and Yeastar TG400 Gateway

This topic introduces the steps to connect Yeastar P-Series PBX System and Yeastar TG400 via SIP peer trunks. After the two devices are connected, GSM trunks are extended on the Yeastar P-Series PBX System.

Create a SIP peer trunk on Yeastar IPPBX

1. Log in to the PBX management portal, go to Extension and Trunk > Trunk, click Add.
2. Configure the trunk basic settings.
 - Name: Enter a name to help you identify it. For example, TG400.
 - Trunk Status: Select Enabled.
 - Select ITSP Template: Select General.
 - Trunk Type: Select Peer Trunk.
 - Transport: Select UDP.
 - Hostname/IP: Enter the IP address of Yeastar TG400 gateway. In this example, enter 192.168.6.200.
 - Port: Enter the SIP port of Yeastar TG400 gateway. In this example, enter the default port 5060.
 - Domain: Enter the IP address of Yeastar TG400 gateway. In this example, enter 192.168.6.200.

The screenshot shows the 'Basic' configuration tab for a new trunk. The 'Name' field is set to 'TG400' and 'Trunk Status' is set to 'Enabled'. Under 'Detailed Configuration', 'Trunk Type' is 'Peer Trunk' and 'Transport' is 'UDP'. The 'Hostname/IP' field contains '192.168.6.200', the 'Port' is '5060', and the 'Domain' is also '192.168.6.200'.

3. Click Save and Apply.

Wait for seconds and check the trunk status on the Trunk page.

If the status shows , Yeastar IPPBX is connected to the Yeastar TG400 gateway.

Status	Name	Type	Hostname/Port	Username	Outbound Caller ID	Operations
	TG400	Peer Trunk	192.168.6.200:5060			

Create a SIP peer trunk on Yeastar TG400 Gateway

1. Log in to the gateway web interface, go to Gateway > VoIP Settings > VoIP Trunk, click Add VoIP Trunk.
2. In the pop-up window, configure the following settings:
 - Trunk Type: Select Peer Trunk.
 - Type: Select SIP.
 - Provider Name: Enter a name to help you identify it.
 - Hostname/IP: Enter the IP address of Yeastar IPPBX and the SIP port. In this example, enter 192.168.6.124 and the default SIP port 5060.

3. Click Save and Apply Changes.
4. Wait for seconds and check the trunk status on the Status > System Status > Trunk Status page.

If the status shows “OK”, Yeastar TG400 Gateway is connected to the Yeastar IPPBX.

Status	Trunk Name	Type	User Name	Hostname/IP	Passcode/Port
OK (2 min)	P560	SIP-SIP		192.168.6.124	OK (2 min)

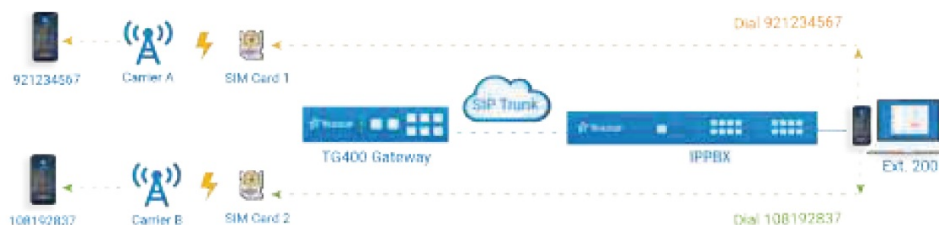
Make Outbound Calls through a Designated GSM Trunk

Many carriers have call plans that let you make free or low-cost calls between other numbers through the same carrier network. The following guides you how to make outbound calls through designated GSM trunks to save call charges.

Scenario

In this scenario, you will route outbound calls through designated GSM trunks as follows:

Outbound Number Format	Trunk	Carrier
Number with prefix 92	GSM trunk 1	Carrier A
Number with prefix 10	GSM trunk 2	Carrier B



Create an outbound route on Yeastar IPPBX

To allow PBX users to call through the Yeastar TG400 gateway, you need to create an outbound route on Yeastar IPPBX.

1. Log in to the PBX management portal, go to Call Control > Outbound Route, click Add.
2. Configure the following settings for the outbound route and leave other settings as default.
 - Name: Enter a name to help you identify it. For example, TO-TG400.
 - Dial Pattern: Set the dial patterns according to your needs. In this example, set Pattern to X., which means that users can dial any number without limitation.

- Trunk: Select the SIP peer trunk that is connected to the Yeastar TG400. In this example, select the trunk TG400.

- Extension/Extension Group: Select the extensions that are allowed to make calls through this outbound route. In this example, select all the extensions.

3. Click Save and Apply.

Create two 'IP to Mobile' routes on Yeastar TG400

Create an 'IP to Mobile' route for carrier A, and create another one for carrier B. These two routes will match the dialed numbers from PBX and send numbers out through designated GSM trunks.

1. Log in to the gateway web interface, go to Gateway > Route Settings > IP to Mobile, click Add IP to Mobile Route.
2. In the pop-up window, configure the route, then click Save and Apply Changes. The following table shows the required configurations for carrier A and carrier B.

Setting	Description	For Carrier A	For Carrier B
Simple Mode	To keep simple mode with basic settings or to expand more settings.	No	No
Route Name	Enter a name to help you identify it.	To-CarrierA	To-CarrierB
Call Source	Select the SIP trunk that is connected to Yeastar IPPBX.	SPS – P560	SPS – P560
DID Number	Enter the pattern or number to match dialed numbers from Yeastar IPPBX. Note: If you want to match any incoming calls, you need to set DID Number to .(dot), or outbound calls would fail.	Enter 92. to allow the numbers with prefix 9 2.	Enter 10. to allow the numbers with prefix 10.
Call Destination	Select the GSM trunk that will be used to call out.	Mobile – Trunk1	Mobile – Trunk2

'IP to Mobile' route for carrier A

New Route

Simple Mode : No

Route Name : To-CarrierA

Match Incoming Calls:

Call Source : SPS -- P560

Inbound Caller Pattern :

DID Number : 92.

DID Associated Number :

Enable Callback : No [Callback Settings](#)

Incoming Calls Processing:

Call Destination: Mobile -- Trunk1

Hotline:

Two Stage Dial : No

Outbound Dial Pattern :

Strip : 0

Prepend these digits : before dialing

'IP to Mobile' route for carrier B

New Route

Simple Mode : No

Route Name : To-CarrierB

Match Incoming Calls:

Call Source : SPS -- P560

Inbound Caller Pattern :

DID Number : 10.

DID Associated Number :

Enable Callback : No [Callback Settings](#)

Incoming Calls Processing:

Call Destination: Mobile -- Trunk2

Hotline:

Two Stage Dial : No

Outbound Dial Pattern :

Strip : 0

Prepend these digits : before dialing

Make test calls from Yeastar IPPBX

Examples:

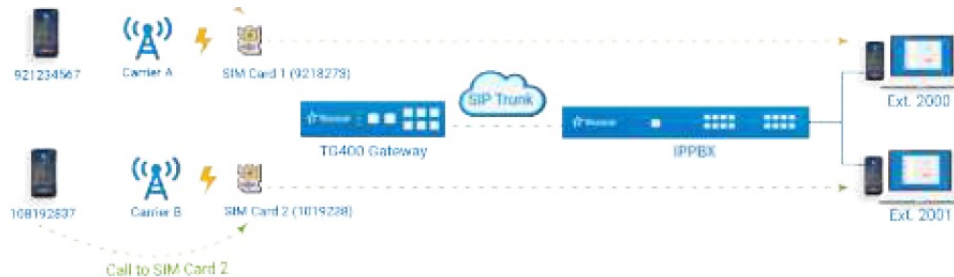
- Dial number 921234567, the call will be made through GSM trunk1.
- Dial number 108192837, the call will be made through GSM trunk 2.

Route Calls from Different Carriers to Different Destinations

When external users call to GSM trunks of different carriers, the calls will reach different destinations. This section gives instructions based on the following scenario.

Scenario

Carrier	Trunk	Destination
Carrier A	GSM trunk 1: 9218273	Extension 2000
Carrier B	GSM trunk 2: 1019238	Extension 2001



Create two 'Mobile to IP' routes on Yeastar TG400

Create an 'Mobile to IP' route for carrier A, and create another one for carrier B.

1. Log in to the gateway web interface, go to Gateway > Route Settings > Mobile to IP, click Add Mobile to IP Route.
2. In the pop-up window, configure the route, then click Save and Apply Changes.

The following table shows the required configurations for carrier A and carrier B.

Setting	Description	For Carrier A	For Carrier B
Simple Mode	To keep simple mode with basic settings or to expand more settings.	Yes	Yes
Route Name	Enter a name to help you identify it.	CarrierA-To-P560	CarrierB-To-P560

Call Source	Select which trunk the call comes from.	Mobile — Trunk 1	Mobile — Trunk 2
Call Destination	Select the SIP trunk that is connected to Yeastar IPPBX.	SPS – P560	SPS – P560
Hotline	Enter a hotline number to avoid two-stage dialing. Note: The hotline number will be sent to the PBX as a DID number, which can be configured on PBX's inbound route to distinguish calls from different carriers.	888888	999999

'Mobile to IP' route for carrier A

New Route

Simple Mode ① : Yes

Route Name ① : CarrierA-To-P560

Match Incoming Calls:

Call Source Mobile -- Trunk1

Incoming Calls Processing:

Call Destination: SPS -- P560

Hotline ① : 888888

Save Cancel

'Mobile to IP' route for carrier B

New Route

Simple Mode ① : Yes

Route Name ① : CarrierB-To-P560

Match Incoming Calls:

Call Source Mobile -- Trunk2

Incoming Calls Processing:

Call Destination: SPS -- P560

Hotline ① : 999999

Save Cancel

Create two inbound routes on Yeastar IPPBX

Create two inbound routes to distinguish calls from carrier A and carrier B, and route calls to different destinations.

1. Log in to the PBX management portal, go to Call Control > Inbound Route, click Add.
2. Configure the following settings for the inbound route and leave other settings as default, then click Save and Apply.

The following table shows the required configurations for carrier A and carrier B.

Setting	Description	For Carrier A	For Carrier B
Name	Enter a name to help you identify it.	From-Carrier A	From-Carrier B
DID Matching Mode	Select a mode according to the rule of DID numbers.	DID Pattern	DID Pattern
Pattern	Enter a DID number to match the incoming calls. Note: Enter the same hotline number that is set on Yeastar TG400.	888888	999999
Trunk	Select the SIP peer trunk that is connected to the Yeastar TG400.	TG400	TG400

Default Destination	Select a destination for the inbound route.	Extension 2000	Extension 2001
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Inbound route for carrier A

General

Name: From Carrier A

Forwarding Method: Forward, Right Way

DID Pattern

DID Pattern: 000000

Operations: [Red icon]

Trunk

Available:

Name	Trunk Type
000000	SP
000001	SP

Selected:

Name	Trunk Type
10400	Peer Trunk

Default Destination

Default Destination: 2000 Lee Bell

Extension: 2000

Time Condition: [Red icon]

Inbound route for carrier B

General

Name: From Carrier B

Forwarding Method: Forward, Right Way

DID Pattern

DID Pattern: 000000

Operations: [Red icon]

Trunk

Available:

Name	Trunk Type
000000	SP
000001	SP

Selected:

Name	Trunk Type
10400	Peer Trunk

Default Destination

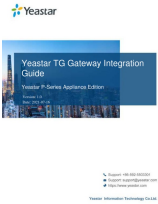
Default Destination: 2001 Kelly Hall

Extension: 2001

Time Condition: [Red icon]

Make test calls to the GSM trunks

- Dial the number of GSM trunk1 (9218273), the call will be routed to extension 2000.
- Dial the number of GSM trunk 2 (1019238), the call will be routed to extension 2001.

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