

# Yeastar P-Series PBX System Integration Guide

Yeastar P-Series Cloud Edition

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# Interconnect Two Yeastar P-Series PBX Systems

If a company has several branch offices, the frequent calls between the offices will result in large phone bills. By interconnecting the Yeastar P-Series PBX Systems in the offices, phone calls between the offices are regarded as free internal calls even if the offices are in different places, thus greatly reducing the company budgets. This integration guide gives configuration examples on how to set up interconnection between two Yeastar P-Series PBX systems and make free calls.

## Scenario

A company's headquarters, located in New York, has deployed a Yeastar P-Series Cloud Edition, while its branch office, located in Los Angeles, has deployed a Yeastar P570.

To save budget, the company wants to interconnect these two P-Series PBX systems so that employees can make free calls between headquarters and branch office.

The following table lists the detail information of the PBXs in the two offices.

**Note:**

The two PBXs should NOT have the same extension numbers, or the calls between the two PBXs will fail.

**Table 1.**

	Headquarters	Branch office
Device	Yeastar P-Series Cloud Edition	Yeastar P570
Firmware	v84.6.0.47	v37.6.0.46
Extension	1000-1200	2000-2050

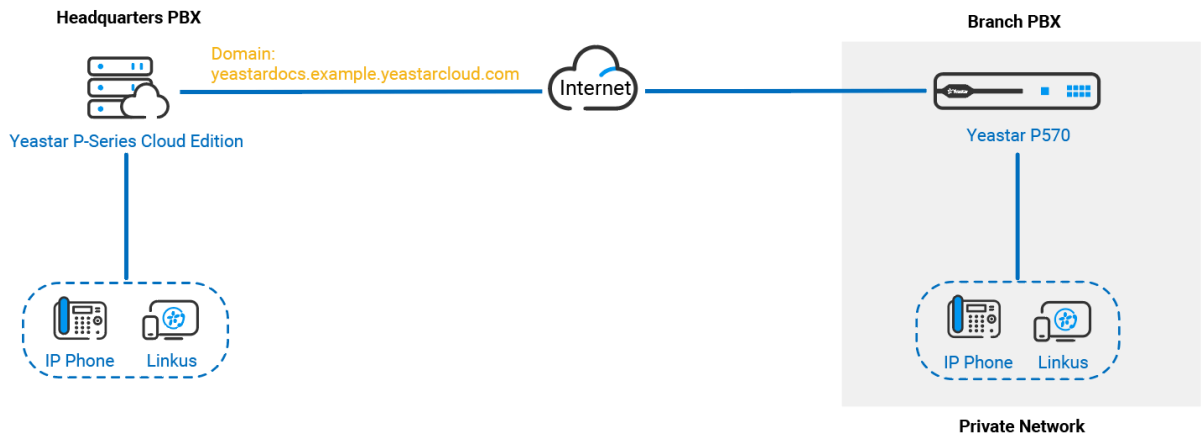
## Network topology diagram

In this guide, the integration between the Yeastar P-Series Cloud Edition and Yeastar P570 is based on the following environment:

Table 2.

Device	Network information
Yeastar P-Series Cloud Edition	The domain name is <b>yeastardocs.example.yeastarcloud.com</b> .
Yeastar P570	The PBX is deployed in a private network and can not access public network.

We provide a diagram to help you understand the integration in a better manner:



For the detailed configuration about interconnecting the two Yeastar P-Series PBX systems, see [Connect Two Yeastar P-Series PBX Systems](#).

## Connect Two Yeastar P-Series PBX Systems

This topic describes how to interconnect Yeastar P-Series Cloud Edition and P570.

### Background information

Refer to the following instructions to set up the Yeastar P-Series Cloud Edition and Yeastar P570 for interconnection .

Table 3.

Device	Instruction
Yeastar P-Series Cloud Edi-tion	<ul style="list-style-type: none"><li>• <a href="#">Create an Account Trunk</a></li></ul>
Yeastar P570	<ul style="list-style-type: none"><li>• <a href="#">Create a Register Trunk</a></li></ul>

## Create an Account Trunk on Yeastar P-Series Cloud Edition

1. Log in to PBX web portal, go to **Extension and Trunk > Trunk**.
2. Click **Add** to create an Account Trunk.
3. In the **Basic** section, complete the following settings:

The screenshot shows the 'Basic' configuration section for an Account Trunk. It includes three fields: 'Name' with the value 'Account-trunk-for-p570', 'Trunk Status' set to 'Enabled', and 'Select ITSP Template' set to 'General'.

- **Name:** Enter a name to help you identify the trunk.
  - **Trunk Status:** Select **Enabled**.
  - **Select ITSP Template:** Select **General**.
4. In the **Detailed Configuration** section, configure the Account Trunk.

The screenshot shows the 'Detailed Configuration' section for an Account Trunk. It includes four fields: 'Trunk Type' set to 'Account Trunk', 'Transport' set to 'UDP', 'Username' set to '6701', and 'Authentication Name' set to 'bZwM9p72P8'. There is also a 'Password' field with the value 'bZwM9p72P8' and a copy icon.

- **Trunk Type:** Select **Account Trunk**.
- **Transport:** Select **UDP**.
- **Username:** Specify a username for the trunk.



### Note:

The username is regarded as the trunk number.

- **Password:** Specify a password that is associated with the username.
- **Authentication Name:** Specify an authentication name for P570 to register with.

5. Click **Save** and **Apply**.

## Create a Register Trunk on P570

1. Log in to PBX web portal, go to **Extension and Trunk > Trunk**.
2. Click **Add** to create a Register Trunk.
3. In the **Basic** section, complete the following settings.

**Basic**

• Name: Register-to-p-series-cloud

• Trunk Status: Enabled

Select ITSP Template: General

- **Name:** Enter a name to help you identify the trunk.
- **Trunk Status:** Select **Enabled**.
- **Select ITSP Template:** Select **General**.

4. In the **Detailed Configuration** section, configure the Register Trunk.

**Detailed Configuration P570**

• Trunk Type: Register Trunk

• Transport: UDP

• Hostname/IP: yeastardocs.example.yeastarcloud.com

• Port: 5060

• Domain: yeastardocs.example.yeastarcloud.com

• Username: 6701

• Password: b2wM9p72P8

• Authentication Name: 54AB829c5f

☐ Enable Outbound Proxy

**Detailed Configuration P-Series Cloud Edition**

• Trunk Type: Account Trunk

• Transport: UDP

• Username: 6701

• Password: b2wM9p72P8

• Authentication Name: 54AB829c5f

- **Trunk Type:** Select **Register Trunk**.
- **Transport:** Select **UDP**.
- **Hostname/IP:** Enter the domain name of Yeastar P-Series Cloud Edition. In this example, enter `yeastardocs.example.yeastarcloud.com`.
- **Port:** Enter the SIP registration port of Yeastar P-Series Cloud Edition. In this example, enter 5060.
- **Domain:** Enter the domain name of Yeastar P-Series Cloud Edition. In this example, enter `yeastardocs.example.yeastarcloud.com`.
- **Username:** Enter the username provided by Yeastar P-Series Cloud Edition.
- **Password:** Enter the password provided by Yeastar P-Series Cloud Edition.
- **Authentication Name:** Enter the authentication name provided by Yeastar P-Series Cloud Edition.

5. Click **Save** and **Apply**.

## Result

You can check the connection status of the two PBX systems. If the connection is successful, the trunk status will display .

- On the PBX web portal of Yeastar P-Series Cloud Edition, go to **Extension and Trunk > Trunk** to check the trunk status.

<input type="checkbox"/>	Status	Name ↕	Type ↕	Hostname/Port ↕	Username ↕	Outbound Caller ID ↕
<input type="checkbox"/>	✔	Account-trunk-for-p570	Account Trunk		6701	

- On the PBX web portal of P570, go to **Extension and Trunk > Trunk** to check the trunk status.

<input type="checkbox"/>	Status	Name ↕	Type ↕	Hostname/Port ↕	Username ↕	Outbound Caller ID ↕
<input type="checkbox"/>	✔	Register-to-p-series-cloud	Register Trunk	yeastardocs.example.yeastarclo ud.com:5060	6701	

## What to do next

Now you can set up intercommunication between the two Yeastar P-Series PBX systems. For detailed configurations, see the following topics:

- [Set up Communication from Yeastar P-Series Cloud Edition to P570](#)
- [Set up Communication from P570 to Yeastar P-Series Cloud Edition](#)

# Set up Intercommunication Between the Two PBX Systems

## Set up Communication from Yeastar P-Series Cloud Edition to P570

After interconnecting the two P-Series PBX systems, you need to set up routes on the PBXs to allow the extensions of Yeastar P-Series Cloud Edition to make calls to the extensions of P570. This topic describes the basic route settings for the PBXs.

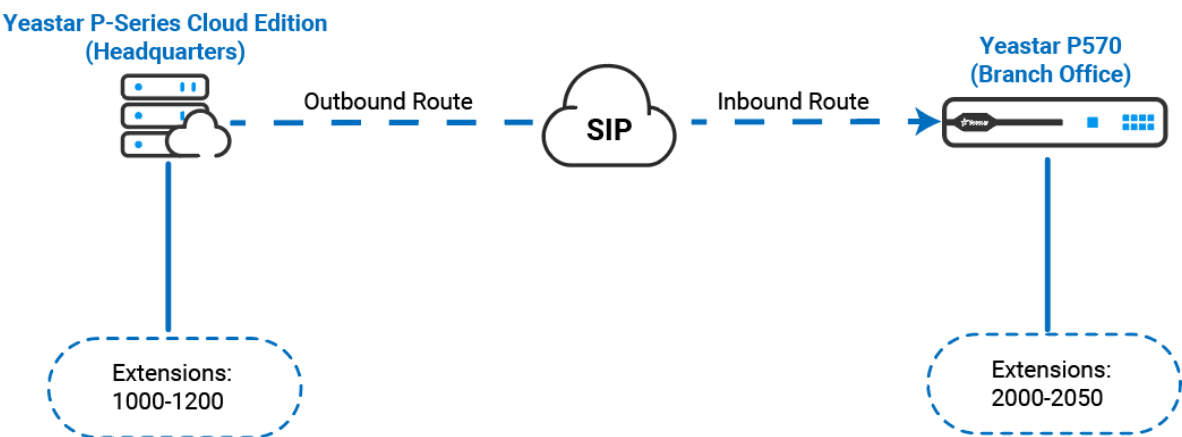
### Background information

To make calls from Yeastar P-Series Cloud Edition to P570, do as follows:

**Table 4.**

Device	Instruction
Yeastar P-Series Cloud Edition	<a href="#">Set up an outbound route on Yeastar P-Series Cloud Edition</a> to route calls out
P570	<a href="#">Set up an inbound route on P570</a> to receive calls

We provide a diagram to help you understand the call routing in a better manner.



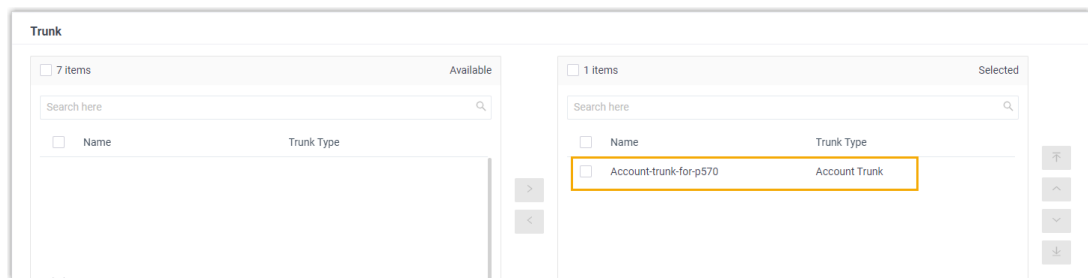


## Set up an outbound route on Yeastar P-Series Cloud Edition

1. Log in to the web portal of Yeastar P-Series Cloud Edition, go to **Call Control > Outbound Route**.
2. Click **Add** to add an outbound route.
3. Configure the outbound route.
  - a. In the **General** section, specify a name to help you identify the outbound route.
  - b. In the **Dial Pattern** section, configure dial rules for the outbound route as needed.

In this example, retain the default settings.

- c. In the **Trunk** section, select the trunk that is created for P570 from **Available** box to **Selected** box.



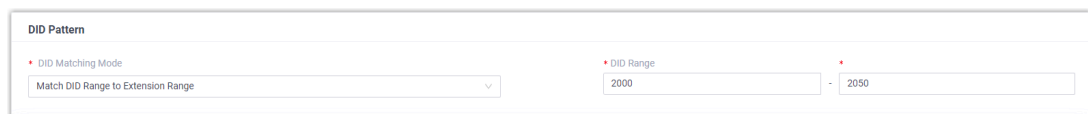
- d. In the **Extension/Extension Group** section, select all the extensions from **Available** box to **Selected** box.

In this way, all extension users are allowed to make calls to P570.

4. Click **Save** and **Apply**.

## Set up an inbound route on P570

1. Log in to the web portal of P570, go to **Call Control > Inbound Route**.
2. Click **Add** to add an inbound route.
3. Configure the inbound route.
  - a. In the **General** section, specify a name to help you identify the inbound route.
  - b. In the **DID Pattern** section, set up the DID matching rule.



- **DID Matching Mode:** Select **Match DID Range to Extension Range**.

- **DID Range:** Enter the DID range. In this example, enter the extension range of P570, namely 2000–2050.

When the dialed number is matched with the DID number, the call will be routed to the corresponding extension.

- c. In **Caller ID Pattern** section, set up the caller ID match patterns as needed.

In this example, retain the default settings.

- d. In the **Trunk** section, select the trunk that is created for Yeastar P-Series Cloud Edition from **Available** box to **Selected** box.

The screenshot shows a configuration window titled "Trunk". It is divided into two main sections: "Available" on the left and "Selected" on the right. Both sections have a search bar and a table with columns "Name" and "Trunk Type". In the "Available" section, the table is empty. In the "Selected" section, the table contains one item: "Register-to-p-series-cloud" with the type "Register Trunk". This item is highlighted with an orange border. Between the two sections are navigation buttons: ">", "<", and a double arrow button. On the far right of the "Selected" section, there are additional control buttons: a refresh icon, an up arrow, a down arrow, and a delete icon.

- e. In the **Default Destination** section, select the desired destination.

The screenshot shows a configuration window titled "Default Destination". It contains a "Default Destination" dropdown menu with "Match Extension Range" selected. To the right of the dropdown are two input fields for the extension range, with "2000" in the first and "2050" in the second, separated by a hyphen. Below these fields is a checkbox labeled "Time Condition" which is currently unchecked.

- In the **Default Destination** drop-down list, select **Match Extension Range**.
- In the extension range field, enter the extension range of P570. In this example, enter 2000–2050.

4. Click **Save** and **Apply**.

## What to do next

Make a call to test.

For example, extension user 1000 in the headquarters dials 2000, the extension 2000 in the branch office will ring.

## Related information

[Set up an Outbound Route](#)

[Set up an Inbound Route](#)

# Set up Communication from P570 to Yeastar P-Series Cloud Edition

After interconnecting the two P-Series PBX systems, you need to set up routes on the PBXs to allow the extensions of P570 to make calls to the extensions of Yeastar P-Series Cloud Edition. This topic describes the basic route settings for the PBXs.

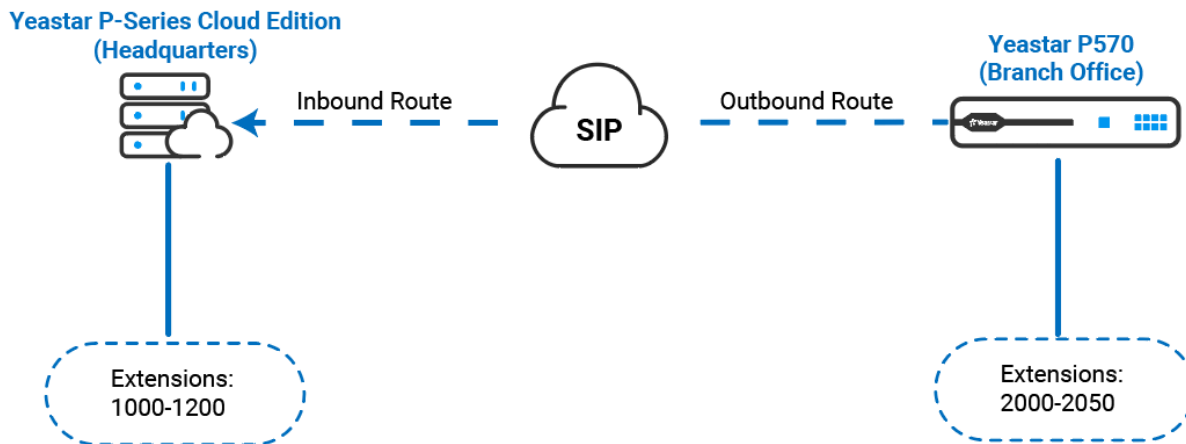
## Background information

To make calls from P570 to Yeastar P-Series Cloud Edition, do as follows:

**Table 5.**

Device	Instruction
P570	<a href="#">Set up an outbound route on P570</a> to route calls out
Yeastar P-Series Cloud Edition	<a href="#">Set up an inbound route on Yeastar P-Series Cloud Edition</a> to receive calls

We provide a diagram to help you understand the call routing in a better manner.



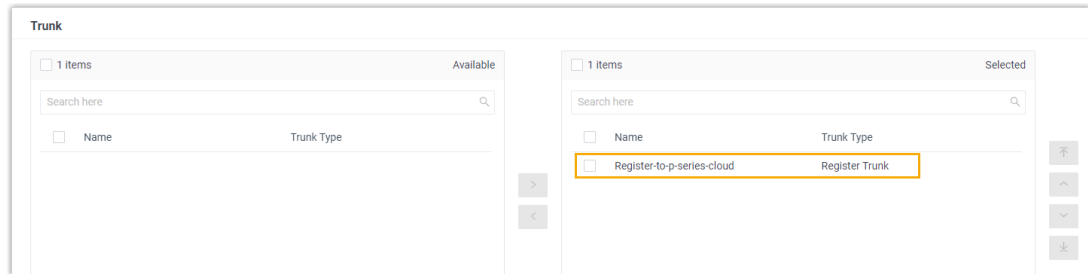
## Set up an outbound route on P570

1. Log in to the web portal of P570, go to **Call Control > Outbound Route**.
2. Click **Add** to add an outbound route.
3. Configure the outbound route.
  - a. In the **General** section, specify a name to help you identify the outbound route.

- b. In the **Dial Pattern** section, configure dial rules for the outbound route as needed.

In this example, retain the default settings.

- c. In the **Trunk** section, select the Trunk that is created for Yeastar P-Series Cloud Edition from **Available** box to **Selected** box.



- d. In the **Extension/Extension Group** section, select all the extensions from **Available** box to **Selected** box.

In this way, all extension users are allowed to make calls to Yeastar P-Series Cloud Edition.

4. Click **Save** and **Apply**.

## Set up an inbound route on Yeastar P-Series Cloud Edition

1. Log in to the web portal of Yeastar P-Series Cloud Edition, go to **Call Control > Inbound Route**.
2. Click **Add** to add an inbound route.
3. Configure the inbound route.
  - a. In the **General** section, specify a name to help you identify the inbound route.
  - b. In the **DID Pattern** section, set up the DID matching rule.

- **DID Matching Mode:** Select **Match DID Range to Extension Range**.
- **DID Range:** Enter the DID range. In this example, enter the extension range of Yeastar P-Series Cloud Edition, namely 1000–1200.

When the dialed number is matched with the DID pattern, the call will be routed to the corresponding extension.

- c. In the **Caller ID Pattern** section, set up the caller ID match patterns as needed.

In this example, retain the default settings.

- d. In the **Trunk** section, select the trunk that is created for P570 from **Available** box to **Selected** box.

The screenshot shows a 'Trunk' configuration window with two panels: 'Available' and 'Selected'. The 'Available' panel on the left shows a search bar and a table with columns 'Name' and 'Trunk Type'. It indicates there are 7 items. The 'Selected' panel on the right also has a search bar and a table with the same columns, indicating 1 item. The item 'Account-trunk-for-p570' with 'Account Trunk' as the type is highlighted with an orange border in the 'Selected' panel. Navigation arrows are visible between the panels.

- e. In the **Default Destination** section, select the desired destination.

The screenshot shows the 'Default Destination' configuration section. It includes a dropdown menu for 'Default Destination' currently set to 'Match Extension Range'. To the right, there are two input fields for an extension range, containing '1000' and '1200' separated by a hyphen. There is also an unchecked checkbox for 'Time Condition'.

- i. In the **Default Destination** drop-down list, select **Match Extension Range**.
- ii. In the extension range field, enter the extension range of Yeastar P-Series Cloud Edition. In this example, enter 1000–1200.

4. Click **Save** and **Apply**.

## What to do next

Make a test call.

For example, extension user 2000 in the branch office dials 1000, the extension 1000 in headquarters will ring.

## Related information

[Set up an Outbound Route](#)

[Set up an Inbound Route](#)