

IP Phone Configuration Guide

Yeastar P-Series Cloud Edition

Version: v1 Date: 2024-07-09





Contents

| Overview | 1 |
|--|-----|
| Yealink | 6 |
| Auto Provision Yealink IP Phone with Yeastar PBX | 6 |
| Auto Provision Yealink Expansion Module with Yeastar PBX | 11 |
| Manually Register Yealink IP Phone with Yeastar PBX | 15 |
| Fanvil | 20 |
| Auto Provision Fanvil IP Phone with Yeastar PBX | 20 |
| Manually Register Fanvil IP Phone with Yeastar PBX | 27 |
| Monitor Extension Status by BLF Key on Fanvil IP Phone | 31 |
| Snom | 34 |
| Auto Provision Snom IP Phone with Yeastar PBX | 34 |
| Manually Register Snom IP Phone with Yeastar PBX | |
| Gigaset | |
| Auto Provision Gigaset DECT System with Yeastar PBX | 44 |
| Grandstream | 53 |
| Provision Grandstream IP Phone with Yeastar PBX | 53 |
| Manually Register Grandstream IP Phone with Yeastar PBX | 63 |
| Remove Unnecessary Codecs for Grandstream IP Phone | 68 |
| Htek | 71 |
| Auto Provision Htek IP Phone with Yeastar PBX | 71 |
| Manually Register Htek IP Phone with Yeastar PBX | 75 |
| Tiptel | 80 |
| Auto Provision Tiptel IP Phone with Yeastar PBX | 80 |
| Manually Register Tiptel IP Phone with Yeastar PBX | 83 |
| Alcatel-Lucent Enterprise (ALE) | 89 |
| Provision ALE IP Phone with Yeastar PBX | 89 |
| Manually Register ALE IP Phone with Yeastar PBX | |
| Flyingvoice | 102 |
| Auto Provision Flyingvoice IP Phone with Yeastar PBX | 102 |
| Manually Register Flyingvoice IP Phone with Yeastar PBX | 107 |

| Mitel11 | 2 |
|---|----|
| Provision Mitel IP Phone with Yeastar PBX11 | 2 |
| Manually Register Mitel IP Phone with Yeastar PBX12 | 22 |
| Dinstar12 | 27 |
| Manually Register Dinstar IP Phone with Yeastar PBX12 | 27 |
| Poly13 | 31 |
| Auto Provision Poly IP Phone with Yeastar P-Series Cloud Edition | 31 |
| Manually Register Poly IP Phone with Yeastar P-Series Cloud Edition | 34 |
| Wildix | 39 |
| Provision Wildix IP Phone with Yeastar P-Series Cloud Edition | 39 |
| Manually Register Wildix IP Phone with Yeastar P-Series Cloud Edition | 16 |

Overview

Yeastar P-Series Cloud Edition supports most SIP-based IP phones, allowing you to configure IP phones to work with the PBX system. This topic describes different configuration methods (including phone provisioning and extension registration) to help you understand the configuration process between IP phones and Yeastar P-Series Cloud Edition, and offers the detailed configuration guides for the IP phones of many popular phone vendors.

Configuration methods

Yeastar supports multiple configuration methods to help you connect your IP phones to Yeastar PBX, as the following table shows.

| Methods | Description |
|--------------------------|--|
| <u>Auto Provisioning</u> | Provision a large number of identical IP phones at one time to complete general settings (preferences, codecs, etc) and extension registration, which significantly improves deployment efficiency. In addition, the IP phones can be managed centrally on Yeastar P-Series Cloud Edition. This method is applicable for IP phones that support Auto Provisioning. |
| Manual Provisioning | Provision IP phones one by one by manually entering a PBX-provided provisioning link on the phone's web interface, so as to complete general settings (preference, codecs, etc) and extension registration. This method is mainly used for IP phones that do NOT support RPS auto provisioning. |
| Manual Registration | Register PBX extension(s) on an IP phone, without additional phone auto provisioning. This method is applicable for IP phones that are compatible with the standard SIP protocol. |

Auto Provisioning

Yeastar supports to auto provision IP phones via **RPS** and **DHCP** methods, you can select the most suitable auto provisioning method according to the IP phone compatibility.

RPS (Redirection and Provisioning Service) method

You can provision IP phones via **RPS** method.

The provisioning process is shown below:



DHCP method

If you need to provision a large number of identical IP phones, but the phones do NOT support RPS provisioning, you can utilize DHCP option 66 to deliver a PBX-provided provisioning link to the IP phones. In this way, the phones can re-trieve configurations from the PBX using the given link.

The provisioning process is shown below:



Manual Provisioning

For an IP phone that does NOT support **RPS** provisioning, you can manually provision the IP phone with Yeastar PBX by entering a PBX-provided provisioning link on the phone's web interface.





Manual Registration

You can manually register IP phones to Yeastar PBX by entering the SIP credentials (extension information and PBX server information) on the phone's web interface.

The registration process is shown below:



Configuration guides

Based on the configuration methods mentioned above, the following configuration guides offer detailed instructions to assist you in configuring IP phones from various phone vendors.

| Yealink | Fanvil | SNOM |
|--|--|--|
| Auto Provisioning Manual Registration | Auto Provisioning Manual Registration | Auto Provisioning Manual Registration |
| Gigaset | GRANDSTREAM | E -tek |
| Auto Provisioning | Provisioning Manual Registration | Auto Provisioning Manual Registration |
| tiptel | Alcatel·Lucent | FLYINGVOICE |
| Auto Provisioning Manual Registration | Provisioning Manual Registration | Auto Provisioning Manual Registration |
| 🕅 Mitel | DINSTAR | poly |
| Provisioning Manual Registration | Manual Registration | Auto Provisioning Manual Registration |

| \mathcal{N} Wildix | |
|----------------------|--|
| Provisioning | |
| Manual Registration | |

Yealink

Auto Provision Yealink IP Phone with Yeastar P-Series Cloud Edition

This topic takes Yealink SIP-T53W (firmware: 96.85.0.5) as an example to introduce how to auto provision a Yealink IP phone with Yeastar P-Series Cloud Edition.

Requirements

The firmwares of Yealink IP phone and Yeastar PBX meet the following requirements.

| Model | Phone Requirement | PBX Requirement |
|-------------|----------------------|---------------------|
| CP920 | 78.85.0.5 or later | 84.5.0.86 or later |
| CP925 | 148.86.0.5 or later | 84.5.0.86 or later |
| CP960 | 73.85.0.5 or later | 84.5.0.86 or later |
| CP965 | 143.86.0.5 or later | 84.5.0.86 or later |
| SIP-CP935W | 149.86.0.5 or later | 84.6.0.24 or later |
| SIP-T19P_E2 | 53.84.0.125 or later | 84.5.0.86 or later |
| SIP-T21_E2 | 52.84.0.125 or later | 84.5.0.86 or later |
| SIP-T21P_E2 | 52.84.0.125 or later | 84.5.0.86 or later |
| SIP-T23P | 44.84.0.125 or later | 84.5.0.86 or later |
| SIP-T23G | 44.84.0.125 or later | 84.5.0.86 or later |
| SIP-T27G | 69.85.0.5 or later | 84.5.0.86 or later |
| SIP-T29G | 46.83.0.120 or later | 84.5.0.86 or later |
| SIP-T30 | 124.85.0.15 or later | 84.5.0.86 or later |
| SIP-T30P | 124.85.0.15 or later | 84.5.0.86 or later |
| SIP-T31 | 124.85.0.15 or later | 84.5.0.86 or later |
| SIP-T31G | 124.85.0.15 or later | 84.5.0.86 or later |
| SIP-T31P | 124.85.0.15 or later | 84.5.0.86 or later |
| SIP-T31W | 124.86.0.75 or later | 84.12.0.32 or later |
| SIP-T33G | 124.85.0.15 or later | 84.5.0.86 or later |

| Model | Phone Requirement | PBX Requirement |
|---|----------------------|---------------------|
| SIP-T33P | 124.85.0.15 or later | 84.5.0.86 or later |
| SIP-T34W | 124.86.0.75 or later | 84.12.0.32 or later |
| SIP-T40P | 54.84.0.125 or later | 84.5.0.86 or later |
| SIP-T40G | 76.84.0.125 or later | 84.5.0.86 or later |
| SIP-T41P | 36.83.0.120 or later | 84.5.0.86 or later |
| SIP-T41S | 66.85.0.5 or later | 84.5.0.86 or later |
| SIP-T41U | 108.85.0.39 or later | 84.5.0.86 or later |
| SIP-T42G | 29.83.0.120 or later | 84.5.0.86 or later |
| SIP-T42S | 66.85.0.5 or later | 84.5.0.86 or later |
| SIP-T42U | 108.85.0.39 or later | 84.5.0.86 or later |
| SIP-T43U | 108.85.0.39 or later | 84.5.0.86 or later |
| SIP-T44U | 108.86.0.90 or later | 84.10.0.32 or later |
| SIP-T44W | 108.86.0.90 or later | 84.10.0.32 or later |
| SIP-T46G | 28.83.0.120 or later | 84.5.0.86 or later |
| SIP-T46S | 66.85.0.5 or later | 84.5.0.86 or later |
| SIP-T46U | 108.85.0.39 or later | 84.5.0.86 or later |
| SIP-T48G | 35.83.0.120 or later | 84.5.0.86 or later |
| SIP-T48S | 66.85.0.5 or later | 84.5.0.86 or later |
| SIP-T48U | 108.85.0.39 or later | 84.5.0.86 or later |
| SIP-T52S | 70.84.0.70 or later | 84.5.0.86 or later |
| SIP-T53 | 96.85.0.5 or later | 84.5.0.86 or later |
| SIP-T53W | 96.85.0.5 or later | 84.5.0.86 or later |
| SIP-T54S | 70.84.0.70 or later | 84.5.0.86 or later |
| SIP-T54W | 96.85.0.5 or later | 84.5.0.86 or later |
| SIP-T56A | 58.83.0.15 or later | 84.5.0.86 or later |
| SIP-T57W | 96.85.0.5 or later | 84.5.0.86 or later |
| SIP-T58 | 58.85.0.5 or later | 84.5.0.86 or later |
| SIP-T58W | 150.86.0.5 or later | 84.5.0.86 or later |
| VP59 | 91.85.0.5 or later | 84.5.0.86 or later |
| W60B (W53P, W41P, W60P, CP930W-Base) | 77.83.0.85 or later | 84.5.0.86 or later |

| Model | Phone Requirement | PBX Requirement |
|-------------------------|----------------------|---------------------|
| W70B (W79P, W76P, W73P) | 146.85.0.20 or later | 84.5.0.86 or later |
| W75DM | 175.85.0.5 or later | 84.14.0.26 or later |
| W80B | W80DM-103.83.0.80 | 84.5.0.86 or later |
| W90DM | 130.85.0.15 or later | 84.5.0.86 or later |

Prerequisites

- Make sure that you have <u>downloaded the template</u> for the desired phone model (Path: **Auto Provisioning > Resource Repository > Default Templates**).
- RESET the IP phone if it is previously used.
- Gather information of the IP phone, including Vendor, Model, and MAC address.

Procedure

- Step 1. Add the Yealink IP phone on PBX
- Step 2. Trigger the IP phone to complete provisioning

Step 1. Add the Yealink IP phone on PBX

- 1. Log in to PBX web portal, go to **Auto Provisioning > Phones**.
- 2. Click Add > Add.
- 3. In the **IP Phone** section, enter the following phone information.

| IP Phone | | | |
|---------------|--------|----------|--------|
| * Vendor | | * Model | |
| Yealink | \sim | SIP-T53W | \vee |
| * MAC Address | | | |

- Vendor: Select Yealink.
- Model: Select the phone model. In this example, select SIP-T53W.
- MAC Address: Enter the MAC address of the IP phone.
- 4. In the **Options** section, configure the following settings.

| Options | |
|---|--|
| * Template | Provisioning Link |
| YSDP_YealinkT5 | https://docs.example.yeastarcloud.com:443/api/autoprovision/H70R 🗐 |
| ✓ Authentication for the First-time Auto Provisioning | |

- Template: Select a desired template from the drop-down list.
 - **Note:** You can select the default template corresponding to the phone model, or customize your own template. For more information, see <u>Create a</u> <u>Custom Auto Provisioning Template</u>.
- **Provisioning Link**: A provisioning link is automatically generated, which points to the location where the phone's configuration file is stored.
- Authentication for the First-time Auto Provisioning: If enabled, users are requested to fill in authentication information on the IP phones before triggering the first-time provisioning.

Note: We recommend that you keep this option selected.

5. In the Assign Extension section, assign an extension to the IP phone.

| * Select Extension 3000-Leo Ball | Assign Extension | | |
|----------------------------------|--------------------|--|--------|
| 3000-Leo Ball V | * Select Extension | | |
| | 3000-Leo Ball | | \sim |

Tip:

If your desired extension is not listed in the drop-down list, it indicates that the extension has been associated with an IP phone.

- To release the extension from the associated IP phone, see <u>Release an</u> <u>Extension from a Provisioned IP Phone</u>.
- To register the extension to the phone without releasing it from the previously associated one, you need to <u>configure the concurrent registra-</u> <u>tion setting for the extension</u>, as the PBX only allows an extension to register with one SIP endpoint by default.

6. Click Save.

The PBX will send an event notification of RPS Request Success.

Step 2. Trigger the IP phone to complete provisioning

- 1. Reboot the IP phone.
- 2. If you have enabled **Authentication for the First-time Auto Provisioning** on the PBX, enter the authentication credential on the IP phone.

| | Yealink | |
|-----------|------------|----|
| | Redirector | |
| Username: | | |
| Password: | | |
| | | |
| | | |
| Back | | ОК |

- **Username**: Enter the extension number that is assigned to the phone.
- Password: Enter the extension's Voicemail Access PIN.

| ou can extensio | check t on's con | the Voic figuratio | email A on page | Access I 9. | PIN in t | he Voice | mail t | ab c |
|--------------------|---------------------|-----------------------|--------------------|----------------|-------------------|-----------------|--------|------|
| < User | Presence | Voicemail | Features | Advanced | Security | Linkus Clients | Phone | Fund |
| - Enab | le Voicemail | | | | | | | |
| * Voicemail | PIN Authentication | | | * Void | cemail Access PIN | 1 | | |
| | | | | 074 | 0 | | | 0 |

Result

- The IP phone automatically downloads the configurations from the PBX and applies the settings.
- The extension is successfully registered on the IP phone. You can check the registration status on **Auto Provisioning > Phone** on the PBX web portal.



Related information

Allow Users to Query Contacts on IP Phones Auto Provision LDAP for IP Phones Auto Provision Yealink Expansion Module with Yeastar P-Series Cloud Edition

Auto Provision Yealink Expansion Module with Yeastar P-Series Cloud Edition

This topic takes Yealink T53W as an example to describe how to provision Yealink expansion module with Yeastar P-Series Cloud Edition, so as to add extra programmable keys.

Requirements

Refer to the table below to learn about the supported Yealink IP phone models for different expansion modules, as well as the required phone provisioning templates.

| Expansion Module | Phone model | Phone provisioning template |
|---------------------|--|-----------------------------------|
| EXP40 | T46S, T48S | YSDP_YealinkT4 (1.0.5 or later) |
| | T46G, T48G | YSDP_YealinkT4xG (1.0.4 or later) |
| EXP43 | T43U, T46U, T48U | YSDP_YealinkT4 (1.0.5 or later) |
| EXP50 | SIP-T53, SIP-T53W, SIP-T54W, SIP-T57W | YSDP_YealinkT5 (1.0.5 or later) |
| | SIP-T56A | YSDP_YealinkT56 (1.0.5 or later) |
| | SIP-T58, SIP-T58W | YSDP_YealinkT58 (1.0.5 or later) |

Prerequisites

- The Yealink expansion module is connected to a Yealink IP phone.
- <u>The Yealink IP phone is connected to Yeastar P-Series Cloud Edition via Auto Provi</u>sioning

Supported methods

- Provision function keys for Yealink expansion module via web interface
- Provision function keys for Yealink expansion module using auto provisioning template

Provision function keys for Yealink expansion module via web interface

On PBX web portal, you can easily customize function keys by directly selecting key types from the menu and setting up specific operation for each function key.



Note:

Yeastar P-Series Cloud Edition supports to add up to **120** function keys on PBX web portal.

- 1. Add and configure function keys.
 - a. Log in to PBX web portal, go to **Extension and Trunk > Extension**, edit the desired extension.
 - b. Click Function Keys tab.
 - c. Click **Add** to add and configure function keys for the expansion module.

Note:

Function key settings that **exceed the supported programmable keys of the IP phone** will be automatically applied to the connected expansion module. For example, Yealink T53W supports 21 programmable keys, then the function key settings starting from the 22nd key will take effect on the expansion module.

| User Pres | ence Voicemail | Features Advance | ed Security Linkus Clients | Phone Function Keys | |
|--------------|-----------------|------------------|----------------------------|---------------------|------|
| Function Key | Туре | Value | Label | Operations | Sort |
| Key 1 | BLF | × \$99 | ✓ Global Business Hours | 面 | = |
| Key 2 | BLF | ×042001 | V Phillip Huff | 面 | = |
| Key | | V | v | D | = |
| Key 21 | Park & Retrieve | ~ 6000 | V Park-6000 | 面 | ≡ |
| Key 22 | Check Voicemail | V 2008-Anna Simm | ons V VM-Anna Simmons | | = |
| | | | + Add | | |

- Type: Select a key type.
- Value: Configure a desired value based on the key type.
- Label: Optional. Enter a label, which will be displayed on the LCD screen.
- d. Click Save.
- 2. Reprovision the IP phone.
 - a. On PBX web portal, go to **Auto Provisioning > Phones**.
 - b. Click O beside the phone.
 - c. In the pop-up window, click **OK**.

Provision function keys for Yealink expansion module using auto provisioning template

If you are familiar with the configuration parameters of IP phone, you can bulk configure function keys in a template file, via which the function key settings will be applied on the phone and expansion module automatically, thus saving time and effort.

Important:

As custom auto provisioning template is created based on the default phone provisioning template, make sure that you have updated the default template of the desired phone model to the <u>required version</u> on PBX (Path: **Auto Provisioning > Resource Repository > Default Templates**).

- 1. Create a custom auto provisioning template.
 - a. Log in to PBX web portal, go to **Auto Provisioning > Resource Repository > Custom Templates**.
 - b. Click Add.

- c. In the **Basic** section, set the basic information.
 - Template Name: Enter a name to help you identify the template.
 - Source Default Template: Search and select the <u>default template of the</u> <u>phone model</u>. In this example, select YSDP_YealinkT5.
 - Template Type: Select Advanced.
 - **Remark**: Optional. Add a note for the template.
- d. **Optional:** In the **Preference**, **Distinctive Ringtone**, **Codecs**, and **LDAP Direc-tory** sections, configure the settings according to your needs.
- e. In the second text box of the **Customize Configuration Parameters in Text** section, select the specific phone model, then refer to specific IP phone's configuration parameter explanations to add function key settings for the expansion module.

Note:

Function key settings that **exceed the supported programmable keys of the IP phone** will be automatically applied to the connected expansion module. For example, Yealink T53W supports 21 programmable keys, then the function key settings starting from the 22nd key will take effect on the expansion module.



- 2. Apply the template to the phone.
 - a. On PBX web portal, go to **Auto Provisioning > Phones**, edit the desired phone.
 - b. In the **Options** section, select the template from the **Template** drop-down list.
 - c. Click Save.
- 3. Reprovision the IP phone.
 - a. On PBX web portal, go to **Auto Provisioning > Phones**.

b. Click O beside the phone.c. In the pop-up window, click OK.

Manually Register Yealink IP Phone with Yeastar P-Series Cloud Edition

This topic takes Yealink SIP-T53W (firmware: 96.85.0.5) as an example to introduce how to manually register an extension on a Yealink IP phone.

Supported devices

The Yealink IP phones that are compatible with SIP (Session Initiation Protocol).

Procedure

- Step 1. Gather registration information on Yeastar PBX
- <u>Step 2. Register extension on Yealink IP phone</u>

Step 1. Gather registration information on Yeastar PBX

Log in to PBX web portal, gather the following information for extension registration.

| Information | Instruction | | |
|-----------------------|--|--|-------|
| Extension information | Go to Extension and Trunk > Extension > Information, note down the following informat • Extension Number • Registration Name • Registration Password | 2 > User > Extension ion: | |
| | Extension Information | | |
| | * Extension Number | * Caller ID | |
| | 3000 | 39-3000 | |
| | * Registration Name | * Registration Password | |
| | birKhC0MdW | ······································ | × 🖻 🖸 |
| | IP Phone Concurrent Registrations | | |
| | | | |
| Transport protocol | Go to Extension and Trunk > Extension > Settings > Transport, note down the transport | Advanced > VoIP t protocol of the extension. | |

| Information | Instruction |
|-----------------------|---|
| | In this example, the extension use UDP transport protocol. |
| | User Presence Voicemail Features Advanced Security Linkus Clients Phone Function Keys |
| | VoIP Settings |
| | DTMF Mode Transport RFC4733 (RFC2833) UDP V |
| PBX domain name | Note: • If the extension uses TCP transport protocol, make sure that the SIP TCP port is enabled on the PBX, or the registration would fail (Path: PBX Settings > SIP Settings > General > Basic.) Basic * SIP UDP Port * SIP Settings > SIP Settings > TLS). The domain name of the PBX |
| PBX domain name | The domain name of the PBX. |
| | In this example, we use the PBX domain name docs.example.yeastarcloud.com for extension registration. |
| SIP registration port | The SIP registration port is 5060. |

Step 2. Register extension on Yealink IP phone

1. Log in to the web interface of the Yealink IP phone.

| | ~ - o × |
|---|--------------------|
| $\epsilon \rightarrow c$ (0 192.168.28.192 a) | ⊮ ☆ ★ ± □ : |
| Prime Business Phone SIP-T53W | |
| Login Login Login C | |
| | Þ |
| Copyright © 2020 Yeallink Inc. All rights reserved. | |

- a. In the browser's address bar, enter the IP address of the IP phone.
- b. Enter the username admin and the associated password.

In this example, enter the default password admin.

- c. Click Login.
- 2. On the left navigation bar, go to **Account > Register**, and complete the registration configurations.

| Y | ealink T53 | w | | | |
|----------|--------------|----------|-----------------|-------------------------------|-------------|
| • | Status | ~ | | | |
| • | Account | ^ (a) | Account | Account 1 | 0 |
| | Register | | Register status | Disabled | 0 |
| | Basic | Þ | Line Active | | 0 |
| | Codec | | Label | Leo Ball | 0 |
| <u>a</u> | Network | ~ | Display Name | | 0 |
| • • | Dsskev | <u>_</u> | Register Name | birKhcOMdW | 0 |
| ৻ঀ | Features | ~ | Username | 3000 | 0 |
| \$ | Settings | ~ | Password | •••••• | 0 |
| 13 | Directory | ~ | SIP Server 1 | | |
| v | Security | ~ d | Server Host | docs.example.yeastarcloud.com | Port 5060 ? |
| | | Į | Transport | UDP - | • |

a. In the **Account** drop-down list, select an available account.

- b. Turn on the switch of **Line Active** to activate the account.
- c. Enter the extension information.
 - **Label**: Enter the name associated with the account, which will be displayed on the phone screen.
 - Register Name: Enter the registration name of the extension.
 - Username: Enter the extension number.
 - Password: Enter the registration password of the extension.
- d. Enter the PBX server information.
 - Server Host: Enter the domain name of the PBX.
 - **Port**: Enter the SIP registration port of the PBX.
 - **Transport**: Select the transport protocol of the extension. In this example, select **UDP**.
- 3. Click **Confirm**.

Result

The extension is registered successfully. You can check the registration status in the **Register status** field.

| Yealink T53W | | | |
|----------------|-----------------|------------------------------------|--|
| 1 Status Ý | | | |
| 👤 Account 🛛 🔨 | Account | Account 1 (Leo Ball : Register 👻 👔 | |
| Register | Register status | Registered | |
| Basic | Line Active | | |
| Codec | Label | Leo Ball | |

Fanvil

Auto Provision Fanvil IP Phone with Yeastar P-Series Cloud Edition

This topic takes Fanvil X6U-V2 (firmware: 2.12.1) as an example to introduce how to auto provision a Fanvil IP phone with Yeastar P-Series Cloud Edition.

Requirements

| Model | Phone Requirement | PBX Requirement |
|--------|----------------------|---------------------|
| A10 | 2.12.4 or later | 84.11.0.22 or later |
| A10W | 2.12.4 or later | 84.11.0.22 or later |
| A32 | 2.6.0.408 or later | 84.5.0.86 or later |
| A32i | 2.6.0.408 or later | 84.5.0.86 or later |
| A320 | 2.6.0.1402 or later | 84.11.0.22 or later |
| A320i | 2.6.0.1402 or later | 84.11.0.22 or later |
| FH-S01 | 2.12.8 or later | 84.9.0.20 or later |
| H1 | 2.12.1 or later | 84.10.0.32 or later |
| H2U | 2.4.7 or later | 84.5.0.86 or later |
| H2U-V2 | 2.4.7.6 or later | 84.5.0.86 or later |
| НЗ | 2.12.1.7334 or later | 84.5.0.86 or later |
| H3W | 2.4.4 or later | 84.5.0.86 or later |
| Н5 | 2.12.1.7334 or later | 84.5.0.86 or later |
| H5W | 2.4.4 or later | 84.5.0.86 or later |
| i10 | 1.2.7 or later | 84.5.0.86 or later |
| i10D | 1.2.7 or later | 84.5.0.86 or later |
| i10S | 2.4.4 or later | 84.5.0.86 or later |
| i10SD | 2.4.4 or later | 84.5.0.86 or later |
| i10SV | 2.4.4 or later | 84.5.0.86 or later |

The firmwares of Fanvil IP phone and Yeastar PBX meet the following requirements.

| Model | Phone Requirement | PBX Requirement |
|-------|---------------------|---------------------|
| i10V | 1.2.7 or later | 84.5.0.86 or later |
| i11S | 1.2.7 or later | 84.5.0.86 or later |
| i11SV | 2.4.4 or later | 84.5.0.86 or later |
| i12 | 2.8.2.7009 or later | 84.5.0.86 or later |
| i16V | 2.8.2.7009 or later | 84.5.0.86 or later |
| i16S | 2.4.4 or later | 84.5.0.86 or later |
| i16SV | 2.4.4 or later | 84.5.0.86 or later |
| i18S | 2.8.2.7009 or later | 84.5.0.86 or later |
| i20S | 2.8.2.7009 or later | 84.5.0.86 or later |
| i23S | 2.8.2.7009 or later | 84.5.0.86 or later |
| i30 | 2.8.2.7009 or later | 84.5.0.86 or later |
| i31S | 2.8.2.7009 or later | 84.5.0.86 or later |
| i32V | 2.8.2.7009 or later | 84.5.0.86 or later |
| i33V | 2.8.2.7009 or later | 84.5.0.86 or later |
| i33VF | 2.8.2.7009 or later | 84.5.0.86 or later |
| i504 | 2.12.43.13 or later | 84.6.0.24 or later |
| i505 | 2.6.6.391 or later | 84.11.0.22 or later |
| i506W | 2.12.43.13 or later | 84.6.0.24 or later |
| i507W | 2.6.6.394 or later | 84.11.0.22 or later |
| i51 | 2.8.13 or later | 84.5.0.86 or later |
| i51W | 2.8.13 or later | 84.5.0.86 or later |
| i52 | 2.8.13 or later | 84.5.0.86 or later |
| i52W | 2.8.13 or later | 84.5.0.86 or later |
| i53 | 2.8.13 or later | 84.5.0.86 or later |
| i53W | 2.8.13 or later | 84.5.0.86 or later |
| i55A | 1.0.0.45 or later | 84.8.0.25 or later |
| i56A | 0.3.0.21 or later | 84.5.0.86 or later |
| i57A | 1.0.0.46 or later | 84.8.0.25 or later |
| i61 | 2.4.0 or later | 84.6.0.24 or later |
| i62 | 2.4.0 or later | 84.6.0.24 or later |
| i63 | 2.4.0 or later | 84.6.0.24 or later |

| Model | Phone Requirement | PBX Requirement |
|----------------------|----------------------|---------------------|
| i64 | 2.4.0 or later | 84.6.0.24 or later |
| i68 | 2.8.40.22 or later | 84.8.0.25 or later |
| PA2 | 2.8.2.7009 or later | 84.5.0.86 or later |
| PA2S | 2.8.11 or later | 84.5.0.86 or later |
| PA3 | 2.4.4 or later | 84.5.0.86 or later |
| V62 | 2.4.10 or later | 84.6.0.24 or later |
| V63 | 2.12.16.19 or later | 84.11.0.22 or later |
| V64 | 2.4.10 or later | 84.6.0.24 or later |
| V65 | 2.12.2.4 or later | 84.7.0.17 or later |
| V67 | 2.6.0 or later | 84.6.0.24 or later |
| W610W | 2.12.0 or later | 84.11.0.22 or later |
| W611W | pvt-2.8 or later | 84.8.0.25 or later |
| X1S / X1SP | 2.2.12 or later | 84.5.0.86 or later |
| X1SG | 2.2.12 or later | 84.5.0.86 or later |
| X2/X2P | 2.14.0.7386 or later | 84.5.0.86 or later |
| X2C/X2CP | 2.14.0.7386 or later | 84.5.0.86 or later |
| X210 | 2.2.11 or later | 84.5.0.86 or later |
| X210-V2 | 2.12.1.3 or later | 84.7.0.17 or later |
| X210i | 2.2.11 or later | 84.5.0.86 or later |
| X210i-V2 | 2.12.1.3 or later | 84.7.0.17 or later |
| X3SG | 2.2.12 or later | 84.5.0.86 or later |
| X3S/X3SP/X3G | 2.14.0.7386 or later | 84.5.0.86 or later |
| X3S Lite / X3SP Lite | 2.4.5 or later | 84.5.0.86 or later |
| X3S Pro / X3SP Pro | 2.4.5 or later | 84.5.0.86 or later |
| X3SW | 2.4.5 or later | 84.5.0.86 or later |
| X3SG Lite | 2.4.5 or later | 84.5.0.86 or later |
| X3SG Pro | 2.4.5 or later | 84.5.0.86 or later |
| X3U | 2.2.12 or later | 84.5.0.86 or later |
| X3U Pro | 2.4.5 or later | 84.5.0.86 or later |
| X301 | 0.0.16 or later | 84.8.0.25 or later |
| X301G | 0.0.16 or later | 84.8.0.25 or later |

| Model | Phone Requirement | PBX Requirement |
|---------|----------------------|---------------------|
| X301W | 0.0.16 or later | 84.8.0.25 or later |
| X303 | 0.0.16 or later | 84.8.0.25 or later |
| X303G | 0.0.16 or later | 84.8.0.25 or later |
| X303W | 0.0.16 or later | 84.8.0.25 or later |
| X305 | 2.12.1.6 or later | 84.8.0.25 or later |
| X4/X4G | 2.14.0.7386 or later | 84.5.0.86 or later |
| X4U | 2.2.11 or later | 84.5.0.86 or later |
| X4U-V2 | 2.12.1 or later | 84.6.0.24 or later |
| X5U | 2.2.11 or later | 84.5.0.86 or later |
| X5U-V2 | 2.12.1 or later | 84.6.0.24 or later |
| X5S | 2.2.1 or later | 84.5.0.86 or later |
| X6 | 2.2.1 or later | 84.5.0.86 or later |
| X6U | 2.2.11 or later | 84.5.0.86 or later |
| X6U-V2 | 2.12.1 or later | 84.6.0.24 or later |
| Х7 | 2.2.11 or later | 84.5.0.86 or later |
| Х7А | 2.2.0.229 or later | 84.5.0.86 or later |
| X7C | 2.2.11 or later | 84.5.0.86 or later |
| X7-V2 | 2.12.1.3 or later | 84.7.0.17 or later |
| X7C-V2 | 2.12.1.3 or later | 84.7.0.17 or later |
| Y501 | 2.12.4 or later | 84.11.0.22 or later |
| Y501W | 2.12.4 or later | 84.11.0.22 or later |
| Y501-Y | 2.12.4 or later | 84.11.0.22 or later |
| Y501-YW | 2.12.4 or later | 84.11.0.22 or later |

Prerequisites

- Make sure that you have <u>downloaded the template</u> for the desired phone model (Path: **Auto Provisioning > Resource Repository > Default Templates**).
- RESET the IP phone if it is previously used.
- Gather information of the IP phone, including Vendor, Model, and MAC address.

Procedure

- 1. Step 1. Add the Fanvil IP phone on PBX
- 2. Step 2. Trigger the IP phone to complete provisioning

Step 1. Add the Fanvil IP phone on PBX

- 1. Log in to PBX web portal, go to **Auto Provisioning > Phones**.
- 2. Click **Add > Add**.
- 3. In the **IP Phone** section, enter the following phone information.

| IP Phone | | |
|---------------|---------|--------|
| * Vendor | * Model | |
| Fanvil V | X6U-V2 | \sim |
| * MAC Address | | |
| 1.00.000 | | |
| | | |

- Vendor: Select Fanvil.
- Model: Select the phone model. In this example, select X6U-V2.
- MAC Address: Enter the MAC address of the IP phone.
- 4. In the **Options** section, configure the following settings.

| Options | | |
|---|--------|--|
| * Template | | Provisioning Link |
| YSDP_FanvilX6 | \vee | https://docs.example.yeastarcloud.com:443/api/autoprovision/H70R 📔 |
| ✓ Authentication for the First-time Auto Provisioning | | |

• Template: Select a desired template from the drop-down list.

Note:

You can select the default template corresponding to the phone model, or customize your own template. For more information, see <u>Create a</u> <u>Custom Auto Provisioning Template</u>.

- **Provisioning Link**: A provisioning link is automatically generated, which points to the location where the phone's configuration file is stored.
- Authentication for the First-time Auto Provisioning: If enabled, users are requested to fill in authentication information on the IP phones before triggering the first-time provisioning.

Note: We recommend that you keep this option selected.

5. In the **Assign Extension** section, assign an extension to the IP phone.

| * Select Extension | |
|--------------------|--------|
| 3000-Leo Ball | \vee |

i) Tip:

If your desired extension is not listed in the drop-down list, it indicates that the extension has been associated with an IP phone.

- To release the extension from the associated IP phone, see <u>Release an</u> <u>Extension from a Provisioned IP Phone</u>.
- To register the extension to the phone without releasing it from the previously associated one, you need to <u>configure the concurrent registra-</u> <u>tion setting for the extension</u>, as the PBX only allows an extension to register with one SIP endpoint by default.
- 6. Click Save.

The PBX will send an event notification of **RPS Request Success**.

Step 2. Trigger the IP phone to complete provisioning

- 1. Reboot the IP phone.
- 2. If you have enabled **Authentication for the First-time Auto Provisioning** on the PBX, enter the authentication credential on the IP phone.

| Fanvil | |
|---------------|-------|
| Update Prompt | 11:38 |
| 1. Username | |
| 2. Password | |
| | |
| Return | ОК |

• **Username**: Enter the extension number that is assigned to the phone.

• **Password**: Enter the extension's Voicemail Access PIN.

| 'ou cai extensi | n check 1 on's con | the Voic figuratio | email A on page | Access F 9. | PIN in t | he Voice | mail t | ab on |
|--------------------|-----------------------|-----------------------|--------------------|----------------|-------------------|-----------------|--------|--------|
| < User | Presence | Voicemail | Features | Advanced | Security | Linkus Clients | Phone | Fun: > |
| | | | | | | | | |
| - Ena | ble Voicemail | | | | | | | |
| Ena Voicema | ble Voicemail | | | * Voic | cemail Access PIN |] | | |

Result

- The IP phone automatically downloads the configurations from the PBX and applies the settings.
- The extension is successfully registered on the IP phone. You can check the registration status on **Auto Provisioning > Phone** on the PBX web portal.

| Status | Extension | Name | Vendor 🌲 | Model 🌲 | Phone Password | Operations | 7 |
|--------|-----------|----------|----------|---------|----------------|------------|---|
| ę, | 3000 | Leo Ball | Fanvil | X6U-V2 | *******@ | | |

Related information

Auto Provision LDAP for IP Phones

Manually Register Fanvil IP Phone with Yeastar P-Series Cloud Edition

This topic takes Fanvil X6U-V2 (firmware: 2.12.1) as an example to introduce how to manually register an extension on a Fanvil IP phone.

Supported devices

The Fanvil IP phones that are compatible with SIP (Session Initiation Protocol).

Procedure

- Step 1. Gather registration information on Yeastar PBX
- Step 2. Register extension on Fanvil IP phone

Step 1. Gather registration information on Yeastar PBX

Log in to PBX web portal, gather the following information for extension registration.

| Information | Instruction |
|-----------------------|---|
| Extension information | Go to Extension and Trunk > Extension > ∠ > User > Extension Information, note down the following information: • Extension Number • Registration Name • Registration Password |

| mormation | | | Institu | | | | | |
|--------------------|--|---|--|--|--|---|--|---------------|
| | Extension Information | | | | | | | |
| | * Extension Number | | | | * Caller ID | | | |
| | 3000 | | | | 39-3000 | | | |
| | * Registration Name | | | | * Registrat | tion Password | | |
| | birKhC0MdW | | | | | | | بر |
| | IP Phone Concurrent Registration | S | | | | | | |
| | 1 | | | \sim | | | | |
| | | | | | | | | |
| Fransport protocol | Go to Extension a | nd Trunk | x > Exten | sion > 💋 | > Adv | vanced > Vo | DIP | |
| | Settings > Transp | oort , note | down the | transport | t protoco | l of the exter | nsion. | |
| | In this example, the | a avtensio | n ueo I ID | P transno | rt protoc | ol | | |
| | in this example, the | e exterisio | | г папэро | n protoc | 01. | | |
| | User Presence | Voicemail | Features | Advanced | Security | Linkus Clients | Phone | Function Keys |
| | | | | | | | | |
| | VoIP Settings | | | | | | | |
| | DTMF Mode | | | | Transport | | | |
| | RFC4733 (RFC2833) | | | \vee | UDP | | | |
| | | | | | | | | |
| | Note: • If the | e extensio | n uses T(| CP transpo | ort proto | col, make su | ire | |
| | Note: • If the that regis > Ge | e extension the SIP To stration wo eneral > B | n uses T(CP port is ould fail (F Basic). | CP transpo enabled Path: PBX | ort protoc on the P Setting | col, make su BX, or the s > SIP Sett | ire tings | |
| | Note: • If the that regis > Ge | e extension the SIP T(stration wo eneral > B | n uses T(CP port is ould fail (F Basic). | CP transpo enabled Path: PBX | ort protoc on the P Setting | col, make su BX, or the s > SIP Sett | ire tings | |
| | Note: • If the that regis > Ge | e extension the SIP T(stration wo eneral > B sic | n uses T(CP port is buld fail (F B asic). | CP transpo enabled Path: PBX | ort protoc on the P Setting | col, make su BX, or the s > SIP Sett | ire tings | |
| | Note: • If the that regis > Ge | e extension the SIP T(stration wo eneral > E | n uses TC CP port is buld fail (F B asic). | CP transpo enabled Path: PBX | ort protoc on the P Setting | col, make su BX, or the s > SIP Sett | ire tings | |
| | Note: • If the that regis > Ge | e extension the SIP T(stration wo eneral > E sic IP UDP Port 260 | n uses TC CP port is buld fail (F Basic). | CP transpo enabled Path: PBX | ort protoc on the P Setting | col, make su BX, or the s > SIP Sett * SIP TCP Port 2 5060 * Octoared 50 D | ire tings | |
| | Note: • If the that regis > Ge | e extension the SIP TC stration wo eneral > B sic IP UDP Port 256 | n uses TC CP port is buld fail (F Basic). | CP transpo enabled Path: PBX | ort protoc on the P Setting | col, make su BX, or the s > SIP Sett * SIP TCP Port € 5060 * Outbound SIP Pc | tings | 182 |
| | Note: • If the that regis > Ge | e extension the SIP T(stration wo eneral > B sic IP UDP Port D60 TP Port Range 3256 | n uses TC CP port is buld fail (F Basic). | CP transpo enabled Path: PBX | ort protoc on the P Setting | col, make su BX, or the s > SIP Sett * SIP TCP Port Sofo * Outbound SIP Port 5062 | ort Range * | 082 |
| | Note: • If the that regis > Ge | e extension the SIP T(stration wo eneral > E sic IP UDP Port 3256 | n uses TC CP port is buld fail (F Basic). | CP transpo enabled Path: PBX | ort protoc | col, make su BX, or the s > SIP Sett [★] SIP TCP Port [★] SIP T | ort Range * | 082 |
| | Note: • If the that regis > Ge | e extension the SIP T(stration wo eneral > E sic IP UDP Port 060 TP Port Range 3256 e extension the TL S is | n uses TC CP port is buld fail (F Basic). | CP transpo enabled Path: PBX S transpo | ort protoc on the P Setting | col, make su BX, or the s > SIP Sett * SIP TCP Port ✓ 5060 * Outbound SIP Port ✓ 5062 col, make superconstration | ort Range * | 082 |
| | Note: • If the that regis > Ge | e extension the SIP T(stration wo eneral > B sic IP UDP Port D60 TP Port Range 3256 e extension the TLS is | n uses TC CP port is buld fail (F Basic). : 18356 n uses TL : enabled | CP transpo enabled Path: PBX S transpo on the PE | ort protoc on the P Setting ort protoc | col, make su BX, or the s > SIP Sett [★] SIP TCP Port [♥] 5060 [★] Outbound SIP Port [♥] 5062 [★] Coutbound SIP Port [♥] 5062 [↓] Col, make sup [↓] registration | ort Range * | 082 |
| | Note: • If the that regis > Ge | e extension the SIP T(stration wo eneral > B sic IP UDP Port D60 TP Port Range 3256 e extension the TLS is Id fail (Pat | n uses TC CP port is buld fail (F Basic). : 18356 n uses TL : enabled h: PBX S e | CP transpo enabled Path: PBX S transpo on the PE ettings > | ort protoc on the P Setting ort protoc 3X, or the SIP Set | col, make su BX, or the s > SIP Sett * SIP TCP Port 5060 * Outbound SIP Pr 5062 col, make sur e registration tings > TLS | re ings tings * 54 re 1). | 082 |
| | Note: • If the that regis > Ge Bas * S 50 * R 12 • If the that would | e extension the SIP T(stration wo eneral > E sic IP UDP Port D60 TP Port Range 3256 e extension the TLS is Id fail (Pat | n uses TC CP port is buld fail (F Basic). : 18356 n uses TL : enabled h: PBX S e | CP transpo enabled Path: PBX S transpo on the PE ettings > | ort protoc Setting | col, make su BX, or the s > SIP Sett SIP TCP Port S060 * Outbound SIP Port S062 col, make su e registration tings > TLS | re 1). | 082 |
| | Note: • If the that regis > Ge | e extension the SIP T(stration wo eneral > E sic IP UDP Port D60 TP Port Range 3256 e extension the TLS is Id fail (Pati | n uses TC CP port is buld fail (F Basic). : 18356 n uses TL : enabled h: PBX S 6 | CP transpo enabled Path: PBX S transpo on the PE ettings > | ort protoc on the P Setting ort protoc 3X, or the SIP Set | col, make su BX, or the s > SIP Sett * SIP TCP Port 2 5060 * Outbound SIP Port 5062 col, make su e registration tings > TLS | ort Range * | 082 |
| | Note: • If the that regis > Ge | e extension the SIP TC stration wo eneral > B sic IP UDP Port D60 TP Port Range 3256 e extension the TLS is Id fail (Pati TLS IP TLS Port | n uses TC CP port is buld fail (F Basic). : 18356 n uses TL : enabled h: PBX S o | CP transpo enabled Path: PBX S transpo on the PE ettings > | ort protoc on the P Setting ort protoc 3X, or the SIP Set | col, make su BX, or the s > SIP Sett * SIP TCP Port 5060 * Outbound SIP Port 5062 col, make sur e registration tings > TLS | ort Range * tings re 1). | 082 |
| | Note: • If the that regis > Ge Bas * S 50 * R 18 • If the that would • If the that would • If the that would • If the that would be the that would be the that would be that would be t | e extension the SIP TC stration wo eneral > B sic IP UDP Port D60 TP Port Range 3256 e extension the TLS is Id fail (Path TLS Port D61 | n uses TC CP port is buld fail (F Basic). : 18356 n uses TL : enabled h: PBX S e | CP transpo enabled Path: PBX S transpo on the PE ettings > | ort protoc on the P Setting ort protoc 3X, or the SIP Set | col, make su BX, or the s > SIP Sett * SIP TCP Port So60 * Outbound SIP Port So62 col, make sure registration tings > TLS | ort Range * ire ire n). | 082 |
| | Note: • If the that regis > Ge Bas * S 50 * R 18 • If the that would • If the that would • S 50 | e extension the SIP T(stration wo eneral > E sic IP UDP Port 060 TP Port Range 3256 e extension the TLS is Id fail (Pati TLS IP TLS Port 061 | n uses TC CP port is buld fail (F Basic). : 18356 n uses TL : enabled h: PBX S e | CP transpo enabled Path: PBX S transpo on the PE ettings > | ort protoc on the P Setting ort protoc 3X, or the SIP Set | col, make su BX, or the s > SIP Sett SIP TCP Port S060 * Outbound SIP Port S062 col, make su e registration tings > TLS | re). | 082 |
| | Note: • If the that regis > Ge Bas * S • If the that regis • If th | e extension the SIP T(stration wo eneral > E sic IP UDP Port 3256 e extension the TLS is Id fail (Pati TLS IP TLS Port 361 | n uses TC CP port is buld fail (F Basic). : 18356 n uses TL : enabled h: PBX S o | CP transpo enabled Path: PBX S transpo on the PE ettings > | ort protoc on the P Setting ort protoc 3X, or the SIP Set | col, make su BX, or the s > SIP Sett * SIP TCP Port 5060 * Outbound SIP Port 5062 col, make sure registration tings > TLS | ort Range * ire ire i 50 re h). | 082 |

| Information | Instruction |
|-----------------------|--|
| | In this example, we use the PBX domain name docs.example.yeastarcloud.com for extension registration. |
| SIP registration port | The SIP registration port is 5060. |

Step 2. Register extension on Fanvil IP phone

1. Log in to the web interface of the Fanvil IP phone.

| 🛛 togin x + | ~ - O X |
|--|-----------|
| ← → C ▲ Not secure 192.168.28.206 a | i ☆ ★ 🖬 🕴 |
| User: Password: Language: Login c | ŕ |

- a. In the browser's address bar, enter the IP address of the IP phone.
- b. Enter the username admin and the associated password.

In this example, enter the default password admin.

- c. Click Login.
- 2. On the left navigation bar, go to Line > SIP, and select an available account.

| | SIP | SIP Hotspot | Dial Plan | Action Plan | Basic Settings | RTCP-XR | |
|------------------|------------------------------------|-------------|-----------|---------------------------|---|---------|-------------|
| › System | | | | | | | |
| › Network | Line S | | | | | | |
| > Line | Line Status | : Inacti | ve | Activa | ite: | | |
| > Phone settings | Username: Display nan Realm: | ne: | | Authe Authe Serve | ntication User: ntication Password: r Name: | | 0 0 0 |

3. In the **Register Settings** section, complete the registration configurations.

| | | _ | | | | |
|------------------|--|-----------------------------|----------------|--|-------------------|-------------|
| | SIP SIP Ho | tspot Dial Plan | Action Plan | Basic Settings | RTCP-XR | |
| › System | | | | | | |
| › Network | Line SIP1 V | | | | | |
| > Line | b Line Status: | Inactive | a Activ | ate: | | |
| › Phone settings | Username: Display name: | 3000 Leo Ball | Auth | entication User: entication Password: | birKhcOMdW | 0 |
| > Phonebook | Realm: | | Serv Serv | er Name: | | |
| | C SIP Server 1: | | SIP | Server 2: | | |
| Call logs | Server Address: | docs.example.yeastarcloud. | Serv | er Address: er Port: | 5060 | |
| • Function Key | Transport Protocol: Registration Expiration | UDP ~ 2 : 3600 second(s) | Trans Regis | sport Protocol: stration Expiration: | UDP V 2 3600 s | second(s) 🕜 |

- a. Select the checkbox of Activate to activate the account.
- b. Enter the extension information.
 - Username: Enter the extension number.
 - **Display Name**: Enter the name associated with the account, which will be displayed on the phone screen.
 - Authentication User: Enter the registration name of the extension.
 - Authentication Password: Enter the registration password of the extension.
- c. Enter the PBX server information.
 - Server Address: Enter the domain name of the PBX.
 - Server Port: Enter the SIP registration port of the PBX.
 - **Transport Protocol**: Select the transport protocol of the extension. In this example, select **UDP**.
- 4. At the bottom of the page, click **Apply**.

Result

The extension is registered successfully. You can check the registration status on the **Line Status** field.

| | SIP SIP Hots | spot Dial Plan | Action Plan | Basic Settings | RTCP-XR | |
|------------------|--|----------------------------|---|---|-------------------|---------------------------------------|
| > System | | | | | | |
| › Network | Line SIP1 V Register Settings >> | | | | | |
| > Line | Line Status: | Registered | Activa | te: | 2 | |
| > Phone settings | Username: Display name: Realm: | 3000 Leo Ball | AutherAutherAutherServer | ntication User: ntication Password: • Name: | UeT6tFqfaK | 0 0 0 0 |
| > Phonebook | | | | | | |
| › Call logs | SIP Server 1: Server Address: Server Port: | docs.example.yeastarcloud. | SIP Server | Address: | 5060 | 0 |
| Function Key | Transport Protocol: Registration Expiration: | UDP V 2 3600 second(s) | October Transp Registre | oort Protocol: ration Expiration: | UDP V (2) 3600 | second(s) ? |

Monitor Extension Status by BLF Key on Fanvil IP Phone

This topic takes Fanvil X6U-V2 (firmware: 2.12.1) as an example to describe how to configure a BLF key for auto-provisioned Fanvil IP phone on PBX web portal, so as to monitor the call status and DND (Do Not Disturb) presence status of a specific extension.

Prerequisites

The phone is connected to Yeastar P-Series Cloud Edition via Auto Provisioning, and has been assigned an extension.

For more information, see <u>Auto Provision Fanvil IP Phone with Yeastar P-Series Cloud Edi-</u> tion.

Step 1. Set up a function key for extension monitoring

- 1. Log in to PBX web portal, go to **Extension and Trunk > Extension**, edit the extension that is assigned to the phone.
- 2. Click the **Function Keys** tab.
- 3. Configure a function key to monitor the status of an extension.

The following figure shows a configuration example of monitoring extension 1004.

| Function Key | Туре | Value | Label | Operations | | |
|--------------|-------|-------------------------|----------------|------------|--|--|
| Key 1 | BLF v | 1004-Kristin Hale 🗸 🗸 🗸 | 1004-ExtStatus | 団 | | |
| + Add | | | | | | |

- Type: Select BLF.
- Value: In the drop-down list, select an extension to monitor.
- Label: Optional. Enter a value, which will be displayed on the phone screen.
- 4. Click Save.

Step 2. Apply the configuration to the Fanvil IP phone

1. Go to **Auto Provisioning > Phones**, click $^{\rm C}$ beside the desired phone.

| Status | Extension | Name | Vendor 🍦 | Model 🍦 | IP Address 🍦 | Phone Passwo Operations |
|--------|-----------|----------|----------|---------|--------------|---------------------------------|
| ۶, | 3000 | Leo Ball | Fanvil | X6U-V2 | - | ********@ 2 @ <u>C</u> ~ |

The system prompts you whether to reprovision the phone.

2. In the pop-up window, click OK.

Result

- The LED of the BLF key shows the real-time status of extension 1004:
 - Solid Green: The extension is being monitored, and the status is idle.
 - Solid Red: The extension is sending a call or is in a call.
 - Solid Yellow: The extension is in DND (Do Not Disturb) status.

Note:

If your Fanvil IP phone does not support differentiated DND status indication, the DND status is indicated by **Solid Red**. For more information regarding the supported phone models and firmware versions, contact your Fanvil IP phone provider.

- Flashing Red: The extension is ringing.
- **LED off**: The extension is not registered, or the extension has been deleted from the PBX system.

- You can press the BLF key on the phone to achieve the followings:
 - Place a call to the monitored extension.
 - Pick up the monitored extension's incoming calls.

Note:

To achieve this, make sure that the Extension Pickup feature code is enabled (Path: **Call Features > Feature Code > Call Pickup > Extension Pickup**).

Related information

Linkus Web Client Guide - Configure Function Keys Linkus Desktop Client Guide - Configure Function Keys
Snom

Auto Provision Snom IP Phone with Yeastar P-Series Cloud Edition

This topic takes Snom D865 (firmware: 10.1.137.15) as an example to introduce how to provision a Snom IP phone with Yeastar P-Series Cloud Edition.

Requirements

The firmwares of **Snom IP phone** and **Yeastar PBX** meet the following requirements.

| Model | Phone Requirement | PBX Requirement |
|----------|----------------------|---------------------|
| D120 | 10.1.54.13 or later | 84.5.0.86 or later |
| D140 | 10.1.148.1 or later | 84.12.0.34 or later |
| D150 | 10.1.148.1 or later | 84.12.0.34 or later |
| D315 | 10.1.73.16 or later | 84.5.0.86 or later |
| D335 | 10.1.73.16 or later | 84.5.0.86 or later |
| D385 | 10.1.73.16 or later | 84.5.0.86 or later |
| D713 | 10.1.73.16 or later | 84.6.0.46 or later |
| D717 | 10.1.73.16 or later | 84.5.0.86 or later |
| D735 | 10.1.73.16 or later | 84.5.0.86 or later |
| D785 | 10.1.73.16 or later | 84.5.0.86 or later |
| D862 | 10.1.137.15 or later | 84.9.0.22 or later |
| D865 | 10.1.137.15 or later | 84.9.0.22 or later |
| HD100 | 1.0.0.3-0 or later | 84.14.0.26 or later |
| HD101 | 1.0.0.3-0 or later | 84.14.0.26 or later |
| HD350W | 1.0.0.3-0 or later | 84.14.0.26 or later |
| HD351W | 1.0.0.3-0 or later | 84.14.0.26 or later |
| HM201 | 1.0.0.3-0 or later | 84.14.0.26 or later |
| M100 KLE | 1.0.5.7 or later | 84.14.0.24 or later |
| M500 | 1.12.2 or later | 84.14.0.24 or later |

| Model | Phone Requirement | PBX Requirement |
|-------|-------------------|--------------------|
| M300 | BSV530B2 or later | 84.8.0.25 or later |
| M400 | BSV610B5 or later | 84.8.0.25 or later |
| M900 | BSV530B7 or later | 84.8.0.25 or later |

Prerequisites

- Make sure that you have <u>downloaded the template</u> for the desired phone model (Path: Auto Provisioning > Resource Repository > Default Templates).
- RESET the IP phone if it is previously used.
- Gather information of the IP phone, including Vendor, Model, and MAC address.

Procedure

- <u>Step 1. Add the Snom IP phone on PBX</u>
- Step 2. Trigger the IP phone to complete provisioning

Step 1. Add the Snom IP phone on PBX

- 1. Log in to PBX web portal, go to **Auto Provisioning > Phones**.
- 2. Click **Add > Add**.
- 3. In the **IP Phone** section, enter the following phone information.

| IP Phone | | |
|---------------|----------|---|
| * Vendor | * Model | |
| Snom v | snomD865 | ~ |
| * MAC Address | | |
| | | |
| | | |

- Vendor: Select Snom.
- Model: Select a phone model. In this example, select snomD865.
- MAC Address: Enter the MAC address of the IP phone.
- 4. In the **Option** section, configure the following settings.

| Options | | |
|---|--------|---|
| * Template | | Provisioning Link |
| YSDP_SnomD | \vee | https://docs.example.yeastarcloud.com:443/api/autoprovision/grobc |
| ✓ Authentication for the First-time Auto Provisioning | | |

• Template: Select a desired template from the drop-down list.

Note:

You can select the default template corresponding to the phone model, or customize your own template. For more information, see <u>Create a</u> <u>Custom Auto Provisioning Template</u>.

- **Provisioning Link**: A provisioning link is automatically generated, which points to the location where the phone's configuration file is stored.
- Authentication for the First-time Auto Provisioning: If enabled, users are requested to fill in authentication information on the IP phones before triggering the first-time provisioning.

Note: We recommend that you keep this option selected.

5. In the **Assign Extension** section, assign an extension to the IP phone.

| Assign Extension | |
|--------------------|--------|
| * Select Extension | |
| 3000-Leo Ball | \vee |

i Tip:

If your desired extension is not listed in the drop-down list, it indicates that the extension has been associated with an IP phone.

- To release the extension from the associated IP phone, see <u>Release an</u> <u>Extension from a Provisioned IP Phone</u>.
- To register the extension to the phone without releasing it from the previously associated one, you need to <u>configure the concurrent registra-</u> <u>tion setting for the extension</u>, as the PBX only allows an extension to register with one SIP endpoint by default.

6. Click Save.

The PBX will send an event notification of **RPS Request Success**.

Step 2. Trigger the IP phone to complete provisioning

- 1. Reboot the IP phone.
- 2. If you have enabled **Authentication for the First-time Auto Provisioning** on the PBX, enter the authentication credential on the IP phone.



- Login ID: Enter the extension number that is assigned to the phone.
- Password: Enter the extension's Voicemail Access PIN.



You can check the Voicemail Access PIN in the **Voicemail** tab on the extension's configuration page.

| — Enable | e Voicemail | | | | | |
|-----------------|-------------------|--|--------|------------------|--|--|
| Voicemail P | IN Authentication | | * Voic | email Access PIN | | |
| | | | | | | |

Result

- The IP phone automatically downloads the configurations from the PBX and applies the settings.
- The extension is successfully registered on the IP phone. You can check the registration status on **Auto Provisioning > Phone** on the PBX web portal.

| Status | Extension | Name | Vendor 🖕 | Model 🍦 | Phone Password | Operations | 7 |
|--------|-----------|----------|----------|----------|----------------|-------------------------|---|
| ۶, | 3000 | Leo Ball | Snom | snomD865 | ******** | 2 0 v | |

Related information

Auto Provision LDAP for IP Phones

Manually Register Snom IP Phone with Yeastar P-Series Cloud Edition

This topic takes Snom D865 (firmware: 10.1.137.15) as an example to introduce how to manually register an extension on a Snom IP phone.

Supported devices

The Snom IP phones that are compatible with SIP (Session Initiation Protocol).

Procedure

- Step 1. Gather registration information on Yeastar PBX
- Step 2. Register extension on Snom IP phone

Step 1. Gather registration information on Yeastar PBX

Log in to PBX web portal, gather the following information for extension registration.

| Information | Instruction |
|-----------------------|--|
| Extension information | Go to Extension and Trunk > Extension > A > User > Extension Information , note down the following information: |
| | Extension NumberRegistration Name |

| Information | Instruction | |
|--------------------|--|---------------|
| | Registration Password | |
| | Extension Information * Extension Number * Caller ID 3000 39-3000 * Registration Name * Registration Password | |
| | birKhC0MdW IP Phone Concurrent Registrations 1 V | |
| Transport protocol | Go to Extension and Trunk > Extension > 2 > Advanced > VoIP Settings > Transport, note down the transport protocol of the extension. In this example, the extension use UDP transport protocol. | |
| | User Presence Voicemail Features Advanced Security Linkus Clients Phone VoIP Settings DTMF Mode Transport | Function Keys |
| | Note: If the extension uses TCP transport protocol, make sure that the SIP TCP port is enabled on the PBX or the | |
| | registration would fail (Path: PBX Settings > SIP Settings > General > Basic). | |
| | * SIP UDP Port * SIP TCP Port 5060 5060 * RTP Port Range * 18256 : 18356 5062 | 5082 |
| | If the extension uses TLS transport protocol, make sure that the TLS is enabled on the PBX, or the registration would fail (Path: PBX Settings > SIP Settings > TLS). Image: SIP TLS Port Image: SIP TLS | |
| | | |

| Information | Instruction |
|-----------------------|--|
| PBX domain name | The domain name of the PBX. |
| | In this example, we use the PBX domain name docs.example.yeastarcloud.com for extension registration. |
| SIP registration port | The SIP registration port is 5060. |

Step 2. Register extension on Snom IP phone

1. Log in to the web interface of the Snom IP phone.

| ① Phone Manager × + ← → C ▲ Not secure https://192.168.28.205 a Phone Manager a | - ~ ک ک ک ک ک | CI × I ∶ en ▼ |
|---|---|---------------------|
| snom Phone Manager | Welcome to Phone manager! Please log in with your user credentials. Username admin Password | |

- a. In the browser's address bar, enter the IP address of the IP phone.
- b. Enter the username admin and the associated password.
- c. Click Authenticate.
- 2. Add an identity for the extension.

| 🔒 НОМЕ | | Home | | Get info | | |
|----------------|---|---------------------------------------|---|-----------|-----------------|-------------------|
| Status | ~ | Malaama to your daviaa wah interfacal | | | 1 | |
| Preferences | ~ | Phone Manager D8 | 65 | | Search settings | Q 💿 🔇 en🗸 |
| Directory | ~ | | | | | |
| Function Keys | ~ | A HOME | Homepage \rightarrow Identities \rightarrow 2 | → Profile | | |
| Identities | ^ | Status 🗸 | D. Cl. | | | |
| 1 Kristin Hale | ~ | Preferences V | Profile | | | 49 Revert Changes |
| Add Identity | | Directory ~ | Profile | | | |
| Action URLs | | Function Keys 🗸 🗸 | | | | |
| Security | ~ | Identities ^ | Displayname | | | |
| Network | ~ | 1 Kristin Hale 🗸 🗸 | | | | |
| Maintenance | ~ | 2 ^ | Account | | | |
| | | Profile | Password | | × | |
| | | SIP ≣∏ Dial Plan | Registrar | | | |
| | | RTP | Outbound Proxy | | | |

- a. On the left navigation bar, go to **Identities**, and click **Add Identity**.
- b. Select an available identity, and go to the **Profile** page.
- 3. Complete the registration configurations.

| Homepage \rightarrow Identities \rightarrow 2 \rightarrow Profile | |
|---|----------------------------------|
| Profile | |
| Profile | |
| Displayname | Leo Ball |
| Account | 3000 |
| Password | × |
| Registrar | docs.example.yeastarcloud.com:50 |
| Outbound Proxy | docs.example.yeastarcloud.com:50 |
| Failover Identity | None 👻 |
| Hidden Identity | Off On |
| Authentication Username | birKhC0MdW |

- **Displayname**: Enter the name associated with the account, which will be displayed on the phone screen.
- Account: Enter the extension number.
- Password: Enter the registration password of the extension.
- **Registar**: Enter the domain name of the PBX along with the SIP registration port.
- **Outbound Proxy**: Enter the domain name of the PBX, along with the SIP registration port and the transport protocol of the extension.

Note: The format should be PBX domain name:sip registration port;transport=udp/tcp/tls. For example, docs.example.yeastarcloud.com:5060;transport=udp.

• Authentication Username: Enter the registration name of the extension. 4. At the top-right corner of the **Profile** page, click **Apply**.

Result

The extension is registered successfully. You can check the registration status on **Status > Account Info** on the phone's web interface.

| 👚 НОМЕ | | Homepage → Status → Account Info | |
|--------------------|---|----------------------------------|---------------------------|
| Status | ^ | Account Info | Log off All Identities |
| i System Info | | | |
| ((*)) Network Info | | All identities | |
| Account Info | | | |
| Preferences | ~ | Kristin Hale | [default] 🖸 voicemail 🔅 > |
| Directory | ~ | Registered | |
| Function Keys | ~ | Leo Ball | : > |
| Identities | ~ | Registered Identity 2 | |

Gigaset

Auto Provision Gigaset DECT System with Yeastar P-Series Cloud Edition

A DECT system consists of two parts, DECT base station and DECT handsets (namely DECT phones). This topic describes how to provision Gigaset DECT base station with Yeastar P-Series Cloud Edition, so that the Gigaset DECT handsets can be connected to the PBX via the base station, allowing users to utilize the handsets as PBX extensions to make and receive calls.

Requirements

The firmwares of **Gigaset DECT base station** and **Yeastar PBX** meet the following requirements.

| Model | Phone Requirement | PBX Requirement |
|-------------------|-------------------|--------------------|
| N870 IP PRO | 2.38.1 or later | 84.5.0.86 or later |
| N870 VI PRO | 2.38.1 or later | 84.5.0.86 or later |
| N670 IP PRO | 2.38.1 or later | 84.5.0.86 or later |
| N610 IP PRO | 2.52.0 or later | 84.5.0.86 or later |
| Maxwell Basic PRO | 3.18.1 or later | 84.5.0.86 or later |
| Maxwell 2 PRO | 3.18.1 or later | 84.5.0.86 or later |
| Maxwell 3 PRO | 3.18.1 or later | 84.5.0.86 or later |
| Maxwell 4 PRO | 3.18.1 or later | 84.5.0.86 or later |

The device model and firmware version of the Gigaset DECT system used in this example are shown in the table below.

| Device Model | Firmware Version |
|---------------------------|------------------|
| Gigaset DECT base station | |
| N870 IP PRO | v2.38.1 |
| Gigaset DECT handset | |
| S650H PRO | v114.074.04 |

| Device Model | Firmware Version |
|--------------|------------------|
| SL750H PRO | v116.074.04 |

Prerequisites

- Make sure that there is only one DHCP server running in the subnet where the Gigaset DECT system (base station and handset) is deployed, or the base station would fail to obtain an IP address.
- Make sure that you have <u>downloaded the template</u> for the desired phone model (Path: **Auto Provisioning > Resource Repository > Default Templates**).
- Gather information of the Gigaset DECT base station, including Vendor, Model, and MAC address.

Step 1. Add the Gigaset DECT base station on PBX

Add the DECT base station on PBX. The PBX will generate a configuration file based on the device's MAC address.

- 1. Log in to PBX web portal, go to **Auto Provisioning > Phones**.
- 2. Click **Add > Add**.
- 3. In the **IP Phone** section, enter the following information.

| IP Phone | | |
|---------------|--------|---------------------|
| * Vendor | | * Model |
| Gigaset | \sim | Gigaset N870 IP PRO |
| * MAC Address | | |
| | | |
| | | |

- Vendor: Select Gigaset.
- Model: Select the device model. In this example, select Gigaset N870 IP PRO.
- MAC Address: Enter the MAC address of the DECT base station.
- 4. In the **Options** section, configure the following settings.

| Options | | |
|------------------|--------|--|
| * Template | | Provisioning Link |
| YSDP_GigasetN870 | \vee | https://docs.example.yeastarcloud.com:443/api/autoprovision/H70R 自 |

• Template: Select a desired template from the drop-down list.

Note:

You can select the default template corresponding to the phone model, or customize your own template. For more information, see <u>Create a</u> <u>Custom Auto Provisioning Template</u>.

- **Provisioning Link**: A provisioning link is automatically generated, which points to the location where the phone's configuration file is stored.
- 5. In the Assign Extension section, assign extensions for the DECT handsets.
 - To assign extensions one by one, select the checkbox of the corresponding handset, then select the desired extension in the **Extension** drop-down list.

| Assign Exte | ension | | | |
|--------------|------------------------------|--------------------------|-----------------|--------------------|
| Handset ID R | Range | Start Extension | End Extension | |
| 1 | ✓ - 250 | 1000-Kristin Hale \vee | 3000-Leo Ball V | ∝ Assign Extension |
| | Handset | Extension | | |
| a 🔽 | Handset 1 | b 1000-Kristin Hale | \vee | I |
| | Handset 2 | 3000-Leo Ball | V | |

• To assign extensions in bulk, set the extension range in **Start Extension** and **End Extension**, then click **Assign Extension**.

| Assign Ex | tension | | | | | |
|------------|---------|--------|-----------------------|---------------|----------|--------------------|
| Handset ID | Range | | Start Extension | End Extension | <u>a</u> | • |
| 1 | ~ - 250 | \vee | 1000-Kristin Hale 🗸 🗸 | 3000-Leo Ball | \sim | ℜ Assign Extension |
| | Handset | | Extension | | | |
| | | | | V | | |
| | | | | \vee | | |

In this example, assign extension 1000 to Handset 1 and extension 3000 to Handset 2.



If your desired extension is not listed in the drop-down list, it indicates that the extension has been associated with an IP phone.

• To release the extension from the associated IP phone, see <u>Release an</u> <u>Extension from a Provisioned IP Phone</u>. To register the extension to the phone without releasing it from the previously associated one, you need to <u>configure the concurrent registra-</u> <u>tion setting for the extension</u>, as the PBX only allows an extension to register with one SIP endpoint by default.

- 6. **Optional:** Configure other settings according to your needs.
- 7. Click Save.

i

The DECT base station is added to the PBX, and displayed in the Auto Provisioning phone list; The PBX will send an event notification of **RPS Request Success**.

i Tip:

You can click + in front of the DECT base station to see the extensions assigned to the DECT handsets.

| | Status | Extension | Name | | Vendor 🌲 | Model 🌲 | Phone Password | Template | Operations |
|-----|--------|-----------|------|-----------|----------|------------------------|----------------|---------------|-----------------------------|
| [| + | | | | Gigaset | Gigaset N870 IP PRO | | YSDP_GigasetN | ∠ ⊚ O ∨ |
| ([| Status | | | Handset | | Exte | ension | | Name |
| 1 | 2* | | | Handset 1 | | 100 | 0 | | Kristin Hale |
| | 2* | | | Handset 2 | | 300 | 0 | | Leo Ball |

Step 2. Enable dynamic IP setting for Gigaset DECT base station

On the DECT base station, use the device button to change the device role, so that the base station can obtain an IP address from a DHCP server in the subnet.

1. Press and hold the device button for at least 10 seconds until both LEDs switch off, then release the button.

The device is now in programming mode.

2. Short press the device button until both LEDs become blue, then release the button.

The device role is switched to **Integrator/DECT Manager** with dynamic IP setting enabled.

3. Press and hold the device button until both LEDs turn red, then release the button.

The base station is reset, and it takes several minutes for the device to boot up with the selected device role; After booted up, the device gets an IP address from the DHCP server and automatically downloads configurations from the PBX.

Step 3. Register the Gigaset DECT handsets to the DECT base station

Enable the registration mode of DECT base station and confirm the registration on DECT handsets, so that the Gigaset DECT handsets can be registered to the DECT base station.

- Paddress of DECT base station
 Bedress of DECT base station
 Cigaset
- 1. Log in to the web interface of DECT base station.

- a. In the browser's address bar, enter the IP address of the base station.
- b. Enter the username admin and the default password admin.
- c. Click Login.
- 2. Change the default password, select a radio frequency band, then click Set.

Note:

For the DECT radio band, select the radio frequency band used in your region.

| Gıgaset | | Gigaset N870 |) IP PRO |
|---------|-----------------------|---|----------|
| | Change password | | |
| | New password @ | | |
| | Repeat password @ | | |
| | | Show password 💿 | |
| | DECT Radio band | | |
| | DECT Radio band 💿 🛛 🕒 | 1880 MHz - 1900 MHz (Europe) 1910 MHz - 1930 MHz (Latin America) 1910 MHz - 1920 MHz (Brazil) | |
| | C | Set Cancel | |
| | | Licen | ce terms |

You are redirected to the web interface of the DECT base station.

3. Under the **SETTINGS** tab, go to **Mobile devices > Administration**, click *to* edit a handset with an extension assigned.

| | G | gaset | | | | | | | | | Gigase | t N870 IP PRO |
|---------------------|----|--------------------------|-------|----------|-----------|------------|---------------|-----------------|-----------------|--------------|--------|---------------|
| - | - | ¢\$ SETTINGS | i STA | TUS | | | | | | 🎒 Language 👻 | ? Hel | o 🕞 Logout |
| 1 | # | Network | > | Mobil | e devices | | | | | | | |
| 1 | ۲ | DECT Manager | > | | | | | | | | | |
| | & | Base stations | > | Sear | rch | | Q Search in 👻 | Match whole wor | ď | | | |
| $\langle - \rangle$ | • | Provider or PBX profiles | | | IPUI 🌣 | Username 🔍 | Display name | Location 🗦 | DECT | SIP 🗇 | Type 🕀 | FW |
| | | Mobile devices | ~ | ø, | 0_00000 | 1000 | Kristin Hale | | Not registered | × | | |
| ľ | | Administration | | * | 0_00001 | 3000 | Leo Ball | | Not registered | × | | |
| | | Registration Centre | | | 0_00002 | | | | Not registered | × | | |
| | ٩. | Telephony | > | | 0_00003 | | | | Not registered | × | | |
| | 8 | Online directories | > | | 0.00004 | | | | Not registered | × | | |
| | ۲ | Online services | > | | 0.00005 | | | | Matanaiatanad | | | |
| | ŧ | System | > | | 0_00005 | | | | ivot registered | × | | |

a. In the RegStatus drop-down list, select To register.

| Mobile device | |
|---------------------------|-----------------------|
| IPUI 😨 | 0_0002 |
| RegStatus 😨 | To register 🔹 |
| Authentication Code (PIN) | 0000 |
| | ス Generate random PIN |

b. In the **Authentication Code (PIN)** field, set and note down a PIN code, which will be used on handset later for registration.

In this example, use the default PIN code 0000.

| Mobile device | |
|-----------------------------|-----------------------|
| IPUI 📀 | 0_0002 |
| RegStatus 📀 | To register 🗸 |
| Authentication Code (PIN) 🔞 | 0000 |
| | ス Generate random PIN |

c. Scroll down to the bottom, click **Register now**.

| Feature key synchronization | | |
|-------------------------------|--------------|--------|
| Feature key synchronization 📀 | 🔵 Yes 💿 No | |
| | Register now | |
| | Set | Cancel |

- 4. Repeat <u>the above steps</u> to edit other handsets with extensions assigned until all the handsets are in **To register** status.
- 5. Go to **Mobile devices > Registration Centre > DECT Managers**, complete the following settings.

| (| Gigaset | | | | | | | | | |
|---|----------|--------------------------|-------------|----------------------------------|---------------------|--|--|--|--|--|
| | | ¢\$ SETTINGS | i S1 | TATUS | | | | | | |
| | . | Network | > | Mobile devices | | | | | | |
| | P | DECT Manager | > | | | | | | | |
| | * | Base stations | > | with RegStatus: "To register" 🔞 | 2 | | | | | |
| | | Provider or PBX profiles | | with RegStatus: "Registering" 💿 | 0 | | | | | |
| , | | Mobile devices | | Total 😡 | 250 | | | | | |
| ĺ | | Administration | | DECT Managers | | | | | | |
| | | Registration Centre | | | | | | | | |
| | فر | Telephony | > | with Registrations Window open 📀 | 0 | | | | | |
| | a | Online directories | > | Total 😨 | 1 | | | | | |
| | ۲ | Online services | > | | | | | | | |
| | ŧ | System | > | Current time 📀 | 2024-02-04 14:47:45 | | | | | |

a. In the **Registration duration** section, set how long the DECT base station should stay in registration mode.

In this example, keep the default value (3 minutes).

| Registration duration 📀 | 0 | d |
|-------------------------|---|-----|
| | 0 | h |
| | 3 | min |
| | 0 | s |

- b. In the **Registration start time** section, enable the registration mode of DECT base station.
 - To start registration right now, click **Start now**.

| Registration start time 📀 | YYYY-MM-DD HH:mm | | |
|---------------------------|---------------------|--|--|
| | O Start now K Close | | |

• To schedule a time to start registration, set a time in the **Registration start time** field, then click **Set** at the bottom of the page.

| Registration start time 📀 | 2024-02-04 13:00 | | |
|---------------------------|---------------------------------------|--|--|
| | O Start now ✗ Close | | |

In this example, click **Start now**.

The **with Registrations Window open** field displays **1**, indicating that the DECT base station is in registration mode at the given time duration.

| DECT Managers | |
|----------------------------------|---|
| with Registrations Window open 📀 | 1 |
| Total 📀 | 1 |

- 6. Confirm registration on DECT handset.
 - a. On the handset, go to Menu > Settings > Registration > Register Handset.

The DECT handset starts to search for a base station that is in registration mode. When it finds the base station, there is a prompt asking you to enter a system PIN.

b. Enter the PIN code obtained from the base station, and press OK.

Result

- The handsets are successfully registered to the DECT base station, and associated with the assigned PBX extensions via the base station.
 - On the web interface of DECT base station, you can check the registration status of the handsets on SETTINGS > Mobile devices > Administration.

| G | gaset | | | | | | | | Gi | gaset N870 IP PRO |
|---|--------------------------|-------------|----------------|------------|---------------|------------|------------|-------|--------------|-------------------|
| | C SETTINGS | i ST | ATUS | | | | | 🕼 Lar | nguage 🗸 💡 | Help 🕞 Logout |
| # | Network | > | Mohile devices | | | | | | | |
| Ð | DECT Manager | > | | | | | | | | |
| & | Base stations | > | Search | | Q Search in - | Match who | le word | | | |
| ۵ | Provider or PBX profiles | | IPUI 🗢 | Username 🗢 | Display name | Location 🖨 | DECT | SIP 🔅 | Type 🗇 | FW |
| | | ~ | Ø 033e3cb235 | 1000 | Kristin Hale | local | Registered | ~ | "SL750H PRO" | 74.04 |
| | | | 🖋 🗌 034718af9f | 3000 | Leo Ball | local | Registered | ~ | "S650H PRO" | 74.04 |
| | | | | | | | | | | |

 On PBX web portal, you can check the registration status of the extensions on Auto Provisioning > Phones.

| | Status | Extension | Name | Vendor 💠 | Model 💠 | Phone Password | Template | Firmware Version | MAC Address \$ | Operations | 7 |
|--|--------|-----------|------|-----------|------------------------|----------------|------------------|---------------------|----------------|----------------------|---|
| | • | | | Gigaset | Gigaset N870 IP PRO | - | YSDP_GigasetN870 | | | ∠ © O ∨ | |
| | | Status | | Handset | | Đ | rtension | | Name | | |
| | | 2 | | Handset 1 | | 10 | 000 | | Kristin Hale | | |
| | | ۶ | | Handset 2 | | 30 | 000 | | Leo Ball | | |

• The registered DECT handsets can be used as extensions to make and receive calls.

Grandstream

Provision Grandstream IP Phone with Yeastar P-Series Cloud Edition

This topic takes Grandstream GPR2602 (firmware: 1.0.3.67) as an example to introduce how to provision a Grandstream IP phone with Yeastar P-Series Cloud Edition.

Requirements

| Model | Phone Requirement | PBX Requirement |
|----------|--------------------|---------------------|
| GXP1610 | 1.0.7.13 or later | 84.9.0.18 or later |
| GXP1620 | 1.0.7.13 or later | 84.9.0.18 or later |
| GXP1625 | 1.0.7.13 or later | 84.9.0.18 or later |
| GXP1628 | 1.0.7.13 or later | 84.9.0.18 or later |
| GXP1630 | 1.0.7.13 or later | 84.9.0.18 or later |
| GXP2130 | 1.0.11.16 or later | 84.9.0.18 or later |
| GXP2135 | 1.0.11.16 or later | 84.9.0.18 or later |
| GXP2140 | 1.0.11.16 or later | 84.9.0.18 or later |
| GXP2160 | 1.0.11.16 or later | 84.9.0.18 or later |
| GXP2170 | 1.0.11.16 or later | 84.9.0.18 or later |
| GAC2500 | 1.0.3.45 or later | 84.11.0.22 or later |
| GAC2570 | 1.0.1.36 or later | 84.11.0.22 or later |
| GRP2601 | 1.0.3.63 or later | 84.9.0.18 or later |
| GRP2601P | 1.0.3.63 or later | 84.9.0.18 or later |
| GRP2602 | 1.0.3.63 or later | 84.9.0.18 or later |
| GRP2602P | 1.0.3.63 or later | 84.9.0.18 or later |
| GRP2602G | 1.0.3.63 or later | 84.9.0.18 or later |
| GRP2602W | 1.0.3.63 or later | 84.9.0.18 or later |
| GRP2603 | 1.0.3.63 or later | 84.9.0.18 or later |

The firmwares of Grandstream IP Phone and Yeastar PBX meet the following requirements.

| Model | Phone Requirement | PBX Requirement |
|----------|-------------------|--------------------|
| GRP2603P | 1.0.3.63 or later | 84.9.0.18 or later |
| GRP2604 | 1.0.3.63 or later | 84.9.0.18 or later |
| GRP2604P | 1.0.3.63 or later | 84.9.0.18 or later |
| GRP2612 | 1.0.7.25 or later | 84.9.0.18 or later |
| GRP2612P | 1.0.7.25 or later | 84.9.0.18 or later |
| GRP2612G | 1.0.7.25 or later | 84.9.0.18 or later |
| GRP2612W | 1.0.7.25 or later | 84.9.0.18 or later |
| GRP2613 | 1.0.7.25 or later | 84.9.0.18 or later |
| GRP2614 | 1.0.7.25 or later | 84.9.0.18 or later |
| GRP2615 | 1.0.7.25 or later | 84.9.0.18 or later |
| GRP2616 | 1.0.7.25 or later | 84.9.0.18 or later |
| GRP2624 | 1.0.7.25 or later | 84.9.0.18 or later |
| GRP2634 | 1.0.7.25 or later | 84.9.0.18 or later |
| GRP2670 | 1.0.7.25 or later | 84.9.0.18 or later |

Scenarios

The provisioning methods and operations vary depending on your provisioning needs, as the following table shows:

| Scenario | Description |
|--|---|
| Provision a SINGLE Grandstream IP phone | In this scenario, you can manually add a provisioning link provided by Yeastar PBX to the phone. In this way, the phone can retrieve configurations from the PBX using the given link. For more information, see <u>Manually provision a Grandstream IP phone</u> . |
| Provision MULTIPLE Grandstream IP phones | In this scenario, you can utilize DHCP option 66 to deliver the provisioning link offered by Yeastar PBX to the IP phones. In this way, the phones can retrieve configurations from the PBX using the given link. For more information, see <u>Auto provision multiple Grandstream IP phones</u> . |

Manually provision a Grandstream IP phone

Prerequisites

- Make sure that you have <u>downloaded the template</u> for the desired phone model (Path: Auto Provisioning > Resource Repository > Default Templates).
- RESET the IP phone if it is previously used.
- Gather information of the IP phone, including Vendor, Model, and MAC address.

Procedure

- Step 1. Add the Grandstream IP phone on PBX
- Step 2. Configure provisioning server on the Grandstream IP phone

Step 1. Add the Grandstream IP phone on PBX

Add the IP phone on PBX. The PBX will generate a configuration file based on the phone's MAC address.

- 1. Log in to PBX web portal, go to **Auto Provisioning > Phones**.
- 2. Click **Add > Add**.
- 3. In the **IP Phone** section, enter the following phone information.

| IP Phone | | | |
|---------------|--------|---------|--------------|
| * Vendor | | * Model | |
| Grandstream | \sim | GRP2602 | \checkmark |
| * MAC Address | | | |
| 07407408 | | | |

- Vendor: Select Grandstream.
- Model: Select a phone model. In this example, select GRP2602.
- MAC Address: Enter the MAC address of the IP phone.
- 4. In the **Options** section, configure the following settings.

| Options | |
|-------------------------|---|
| * Template | Provisioning Link |
| YSDP_GrandstreamGRP260X | https://docs.example.yeastarcloud.com:443/api/autoprovision/grobc |
| | Please copy this Provisioning Link, then set up the link to where your IP phones can fetch the configuration files. |

• Template: Select a desired template from the drop-down list.



- You can select the default template corresponding to the phone model, or customize your own template. For more information, see <u>Create a Custom Auto Provisioning Template</u>.
- **Provisioning Link**: A provisioning link is automatically generated, which points to the location where the phone's configuration file is stored.



5. In the Assign Extension section, assign an extension to the IP phone.

| * Select Extension | |
|--------------------|--------|
| 3000-Leo Ball | \vee |

| Tip: |
|------|
|------|

1

If your desired extension is not listed in the drop-down list, it indicates that the extension has been associated with an IP phone.

- To release the extension from the associated IP phone, see <u>Release an Extension from a Provisioned IP Phone</u>.
- To register the extension to the phone without releasing it from the previously associated one, you need to <u>config-</u> <u>ure the concurrent registration setting for the extension</u>, as the PBX only allows an extension to register with one SIP endpoint by default.

6. Click Save.

Step 2. Configure provisioning server on the Grandstream IP phone

Manually configure provisioning server for the Grandstream IP phone using the provisioning link provided by the PBX.

1. Log in to the web interface of the Grandstream IP phone.



- a. In the browser's address bar, enter the IP address of the IP phone.
- b. Enter the username admin and the associated password.
- c. Click **Login**.
- 2. On the left navigation bar, go to **Maintenance > Upgrade and Provi**sioning > Config File.



3. In the **Configure via Network** section, complete the following configurations.

| Configure via Network | | |
|-----------------------|---------------------------|--|
| | Config Upgrade via 🕥 | HTTPS v |
| a | Config Server Path 🧿 | docs.example.yeastarcloud.com:443/api/autopr |
| C | Config Server Username 꼜 | |
| (| Config Server Password 🧿 | ۶ |
| Always Authen | ticate before Challenge 🧿 | |
| | Config File Prefix 🧿 | |
| | Config File Postfix 🗿 | |
| | Authenticate Conf File 🧿 | |
| XN | AL Config File Password 🕜 | <u>له</u> |
| | | Save Save and Apply Reset |

- a. Enter the information of the provisioning server.
 - Config Upgrade via: Select HTTPS.
 - Config Server Path: Paste the provisioning link obtained from PBX.



Note:

You should remove the prefix https:// before pasting the link into the field.

b. Click Save and Apply.

Result



Note:

Some IP phones will reboot automatically. If not, you need to manually reboot the phone to make the configurations take effect.

- After the IP phone is rebooted, it automatically downloads the configurations from the PBX and applies the settings.
- The extension is successfully registered on the IP phone. You can check the registration status on Auto Provisioning > Phone on the PBX web portal.

| | Status | Extension | Name | Vendor 👙 | Model 👙 | Phone Password | Template | Operations | 7 |
|--|--------|-----------|----------|-------------|---------|----------------|-----------------------------|---------------------------------------|---|
| | ۶. | 3000 | Leo Ball | Grandstream | GRP2602 | ******* | YSDP_GrandstreamGR P260X | ∠ () () ∨ | |

What to do next

By default, Grandstream IP phone enables all available codecs for its accounts, which may lead to issues with outgoing calls. Therefore, it is recommended to remove unnecessary codecs for the account that has been registered with the PBX extension.

For more information, see <u>Remove Unnecessary Codecs for Grandstream IP</u> <u>Phone</u>.

Auto provision multiple Grandstream IP phones

Prerequisites

- Make sure that there is only one DHCP server in the subnet where the IP phones are deployed, or the IP phones may fail to obtain IP addresses.
- Make sure that you have <u>downloaded the template</u> for the desired phone model (Path: Auto Provisioning > Resource Repository > Default Templates).
- RESET the IP phone if it is previously used.
- Gather information of the IP phone, including Vendor, Model, and MAC address.

Procedure

- <u>Step 1. Add the Grandstream IP phone on PBX</u>
- Step 2. Configure DHCP option 66 on DHCP server

Step 1. Add the Grandstream IP phone on PBX

Add the IP phone on PBX. The PBX will generate a configuration file based on the phone's MAC address.

- 1. Log in to PBX web portal, go to **Auto Provisioning > Phones**.
- 2. Click **Add > Add**.
- 3. In the **IP Phone** section, enter the following phone information.

| IP Phone | |
|---------------|-----------|
| * Vendor | * Model |
| Grandstream V | GRP2602 V |
| * MAC Address | |

- Vendor: Select Grandstream.
- Model: Select a phone model. In this example, select GRP2602.
- MAC Address: Enter the MAC address of the IP phone.

4. In the **Options** section, configure the following settings.

| Options | |
|---------------------------|--|
| * Template | Provisioning Link |
| YSDP_GrandstreamGRP260X V | https://docs.example.yeastarcloud.com:443/api/autoprovision/grobc |
| | Please copy this Provisioning Link, then set up the link to where your IP phones can fetch the configuration files. |

• Template: Select a desired template from the drop-down list.



Tip:

You can select the default template corresponding to the phone model, or customize your own template. For more information, see Create a Custom Auto Provisioning Template.

 Provisioning Link: A provisioning link is automatically generated, which points to the location where the phone's configuration file is stored.



5. In the Assign Extension section, assign an extension to the IP phone.

| * Select Extension 3000-Leo Ball V | Assign Extension | |
|------------------------------------|--------------------|--------|
| 3000-Leo Ball V | * Select Extension | |
| | 3000-Leo Ball | \vee |

If your desired extension is not listed in the drop-down list, it indicates that the extension has been associated with an IP phone.

- To release the extension from the associated IP phone, see <u>Release an Extension from a Provisioned IP Phone</u>.
- To register the extension to the phone without releasing it from the previously associated one, you need to <u>config-</u> <u>ure the concurrent registration setting for the extension</u>, as the PBX only allows an extension to register with one SIP endpoint by default.
- 6. Click Save.

Step 2. Configure DHCP option 66 on DHCP server

In the subnet where the IP phone is deployed, use the generated provisioning link to configure option 66 on the DHCP Server.

1. On PBX web portal, copy the provisioning link from the phone's detail page.

| Options | |
|---------------------------|---|
| * Template | Provisioning Link |
| YSDP_GrandstreamGRP260X V | https://docs.example.yeastarcloud.com:443/api/autoprovision/grobc 😰 |
| | Please copy this Provisioning Link, then set up the link to where your IP phones can fetch the configuration files. |

2. On the DHCP server, set up option 66 with the provisioning link.

In this example, the configuration is shown below:

| nterfaces » LAN General Settings Advanced S | ettings Firewall Settings DHCP Server |
|---|--|
| General Setup Advanced Set | ings IPv6 Settings IPv6 RA Settings |
| Dynamic <u>DHCP</u> | Ø Dynamically allocate DHCP addresses for clients. If disabled, only clients having static leases will be served. |
| Force | Proce DHCP on this network even if another server is detected. |
| <u>IPv4</u> -Netmask | 255.255.255.0Override the netmask sent to clients. Normally it is calculated from the subnet that is served. |
| DHCP-Options | 6,223.5.5.5 × 66,https://docs.example.yeastarcloud.com:443/api/autoprovisi on/aroboJzZKfloVa12 × |
| | Define additional DHCP options, for example "6,192.168.2.1,192.168.2.2" which advertises different DNS servers to clients. |
| | Dismiss Save |

Result

Note:

Some IP phones will reboot automatically. If not, you need to manually reboot the phone to make the configurations take effect.

- After the IP phone is rebooted, it gets an IP address from the DHCP server, downloads the configurations from the PBX via the provisioning link, and applies the settings automatically.
- The extension is successfully registered on the IP phone. You can check the registration status on Auto Provisioning > Phone on the PBX web portal.

| Status | Extension | Name | Vendor 👙 | Model 💠 | Phone Password | Template | Operations | 7 |
|--------|-----------|----------|-------------|---------|----------------|-----------------------------|---------------|---|
| 2 | 3000 | Leo Ball | Grandstream | GRP2602 | ********@ | YSDP_GrandstreamGF P260X | ² ∠ ⊨⊚ ⊨⊖ ⊨ ∽ | |

What to do next

By default, Grandstream IP phone enables all available codecs for its accounts, which may lead to issues with outgoing calls. Therefore, it is recommended to remove unnecessary codecs for the account that has been registered with the PBX extension. For more information, see <u>Remove Unnecessary Codecs for Grandstream IP</u> <u>Phone</u>.

Related information

Auto Provision LDAP for IP Phones

Manually Register Grandstream IP Phone with Yeastar P-Series Cloud Edition

This topic takes Grandstream GPR2602 (firmware: 1.0.3.67) as an example to introduce how to manually register an extension on a Grandstream IP phone.

Supported devices

The Grandstream IP phones that are compatible with SIP (Session Initiation Protocol).

Procedure

- Step 1. Gather registration information on Yeastar PBX
- Step 2. Register extension on Grandstream IP phone

Step 1. Gather registration information on Yeastar PBX

Log in to PBX web portal, gather the following information for extension registration.

| Information | Instruction |
|-----------------------|--|
| Extension information | Go to Extension and Trunk > Extension > A > User > Extension Information , note down the following information: |
| | Extension Number Registration Name Registration Password |

| | Extension Information | |
|--------------------|---|---------------|
| | * Extension Number * Caller ID | |
| | 3000 39-3000 | |
| | * Registration Name * Registration Password | |
| | birkhC0MdW | <i>ب</i> ہ |
| | IP Phone Concurrent Registrations | |
| | | |
| | | |
| Transport protocol | Go to Extension and Trunk > Extension > Advanced > VoIP Settings > Transport, note down the transport protocol of the extension. | |
| | In this example, the extension use UDP transport protocol. | |
| | User Presence Voicemail Features Advanced Security Linkus Clients Phone | Function Keys |
| | | |
| | VolP Settings | |
| | DTMF Mode Transport | |
| | RFC4733 (RFC2833) V UDP | |
| | | |
| | Note: | |
| | Note: If the extension uses TCP transport protocol, make sure that the SIP TCP port is enabled on the PBX, or the registration would fail (Path: PBX Settings > SIP Settings > General > Basic). | |
| | Note: If the extension uses TCP transport protocol, make sure that the SIP TCP port is enabled on the PBX, or the registration would fail (Path: PBX Settings > SIP Settings > General > Basic | |
| | Note: If the extension uses TCP transport protocol, make sure that the SIP TCP port is enabled on the PBX, or the registration would fail (Path: PBX Settings > SIP Settings > General > Basic. Basic * SIP UPP Port * SIP TCP Port | |
| | Note: • If the extension uses TCP transport protocol, make sure that the SIP TCP port is enabled on the PBX, or the registration would fail (Path: PBX Settings > SIP Settings > General > Basic). | |
| | Note: If the extension uses TCP transport protocol, make sure that the SIP TCP port is enabled on the PBX, or the registration would fail (Path: PBX Settings > SIP Settings > General > Basic). Basic * SIP UDP Port | |
| | Note: If the extension uses TCP transport protocol, make sure that the SIP TCP port is enabled on the PBX, or the registration would fail (Path: PBX Settings > SIP Settings > General > Basic.) Basic * SIP UDP Port | |
| | Note: If the extension uses TCP transport protocol, make sure that the SIP TCP port is enabled on the PBX, or the registration would fail (Path: PBX Settings > SIP Settings > General > Basic). Basic * SIP UDP Port * SIP UDP Port * SIP UDP Port * SIP UDP V * SIP U * SIP U </td <td></td> | |

| Information | Instruction |
|-----------------------|--|
| | In this example, we use the PBX domain name docs.example.yeastarcloud.com for extension registration. |
| SIP registration port | The SIP registration port is 5060. |

Step 2. Register extension on Grandstream IP phone

1. Log in to the web interface of the Grandstream IP phone.

| GRP2602 × + | | ~ - O × |
|---|---|---------------|
| ← → C ▲ Not secure 192.168.28.205/login a | | Q @ ☆ ★ ± □ : |
| | Welcome to GRP2602 | English v |
| | L Username Password → | |
| | Login | |
| | Copyright $\ensuremath{\mathbb{O}}$ Grandstream Networks, Inc. 2023. All Rights Reserved. Open Source License | |

- a. In the browser's address bar, enter the IP address of the IP phone.
- b. Enter the username admin and the associated password.
- c. Click Login.
- 2. On the left navigation bar, go to **Accounts > Accounts**, and select an available account.

| S GRP2602 | I | |
|--------------|---|--------|
| 🗮 Status | * Accounts | |
| L Accounts | Account 1 Account 2 Account 3 Account | 4 |
| Accounts | General Settings SIP Settings Codec Settings Call Set | ttings |
| Account Swap | Account Register | |

3. In the **General Settings** tab, complete the registration configurations.

| | Account Active 🧑 | |
|----------|-------------------------|------------------------------------|
| | Account Name 👩 | Leo Ball |
| | SIP Server 👩 | docs.example.yeastarcloud.com:5060 |
| 1 | Secondary SIP Server 👩 | |
| | Outbound Proxy 👩 | |
| Second | dary Outbound Proxy 👩 | |
| | SIP User ID 👩 | 3000 |
| : | SIP Authentication ID 🧑 | birKhC0MdW |
| SIP Auth | nentication Password 👩 | ······ >>~< |
| | Name 👩 | |
| | Tel URI 👩 | Disabled |

- Account Active: Select the checkbox to activate the account.
- Account Name: Enter the name associated with the account, which will be displayed on the phone screen.

- **SIP Server**: Enter the domain name of the PBX along with the SIP registration port.
- SIP User ID: Enter the extension number.
- SIP Authentication ID: Enter the registration name of the extension.
- **SIP Authentication Password**: Enter the registration password of the extension.
- 4. In the **Codec Settings** tab, remove unnecessary codecs for the account.

Note:

By default, Grandstream IP phone enables all available codecs for its accounts, which may lead to issues with outgoing calls. Therefore, it is recommended to remove unnecessary codecs for the account that has been registered with the PBX extension.

| Accounts | wint 2 Account 2 | Account 4 | | | | |
|----------------------|------------------------|----------------|-------------------|------------|---|---------------|
| General Settings SIP | Settings Codec Setting | call Settings | Advanced Settings | Dial Plan | Hidden Number Plan | Feature Codes |
| Audio | | - | | | | |
| | Prefe | rred Vocoder ⑦ | 0 item Av | ailable | - 6/8 items Selec | ted |
| | | | | ~ | PCMU | î |
| | | | | > | PCMA | |
| | | | | _ <u>b</u> | ✓ G.723.1 ✓ G.729A/B | |
| | | | | ↓ | G.722 (wide band) | • |

5. Click Save and Apply.

Result

The extension is registered successfully. You can check the registration status on **Status > Account Status** on the phone's web interface.

| Ş GRP2602 🥔 🖂 | | | | Q D Englis | sh v 🛛 admin 🗍 |
|---------------------|----------------|-------------|-------------------------------|----------------|----------------|
| 😑 Status 🖍 🇴 | Account Status | | | | |
| Account Status | | | | | |
| Network Status | Account | SIP User ID | SIP Server | Operation | |
| System Info | Account 1 | 3000 | docs.example.yeastarcloud.com | 2 | |
| Call Status | Account 2 | | | Ż | |
| Call Feature Status | Account 3 | | | <u>~</u> | |
| 👤 Accounts 🛛 👻 | Account 4 | | | <u>~</u> | |

Remove Unnecessary Codecs for Grandstream IP Phone

By default, Grandstream IP phone enables all available codecs for its accounts, which may lead to issues with outgoing calls. Therefore, it is recommended to remove unnecessary codecs for the account that has been registered with the PBX extension.

Prerequisites

You have Provision Grandstream IP Phone with Yeastar P-Series Cloud Edition.

Procedure

1. Configure the codecs settings for the IP phone on PBX.

a. Log in to PBX web portal, go to Auto Provisioning > Phones.

b. Click 횓 beside the Grandstream IP phone.

| Status | Extension | Name | Vendor 👙 | Model 🍦 | Phone Password | Operations | 7 |
|--------|-----------|----------|-------------|---------|----------------|------------------|---|
| ۶. | 3000 | Leo Ball | Grandstream | GRP2602 | *******@ | ∠ ⊘ , O ∨ | |

- c. In the phone configuration page, scroll down to the **Codecs** section.
- d. Select the necessary codecs from the Available box to the Selected box.

| odecs | | | |
|-------------|-----------|-------------|----------|
| 4 items | Available | 2 items | Selected |
| Search here | ٩ | Search here | ٩ |
| Codec | | Codec | |
| ilbc | | PCMU | |
| G722 | | PCMA | |
| G726-32 | | | |
| G729 | | | |
| | | | |
| | | | |
| | | | |

e. Click Save.

2. Configure the codec settings on the IP phone.

Note:

Due to the restriction of the Grandstream IP phone, the PBX is not able to remove the codecs enabled on the IP phone via auto provisioning. Therefore, you need to manually remove unnecessary codecs via the phone's web interface to match the settings on the PBX.

- a. Log in to the phone's web interface via its IP address.
- b. On the left navigation bar, go to **Accounts > Accounts**.
- c. Click the desired account, then enter the **Codec Settings** tab.

| 5 | GRP2602 | I 🖸 | | $Q \mid Q \mid$ English \vee |
|----------|-------------------|------------|--|----------------------------------|
| ≔ | | ~ | Accounts | |
| 1 | Accounts | ^ | Account 1 Account 2 Account 3 Account 4 | |
| | Accounts | | General Settings SIP Settings Codec Settings Call Settings Advanced Settings Dial Plan | Hidden Number Plan Feature Codes |
| | Account Swap | | L Audio | |
| | UCM | | Preferred Vocoder ③ | 8 items Selected |
| S. | | ~ | A | D PCMU |
| @ | | ~ | > | PCMA |
| | Programmable Keys | 5 v | < | G.723.1 |
| G. | | ~ | ↓ ↓ | G.729A/B |
| | | | | |

d. In the **Preferred Vocoder** field, move unnecessary codecs from the **Selected** box to the **Available** box.
| Accounts | | | | |
|-------------------------------|------------------------------|-------------------|------------|----------------------------------|
| Account 1 Account 2 | Account 3 Account 4 | | | |
| General Settings SIP Settings | Codec Settings Call Settings | Advanced Settings | Dial Plan | Hidden Number Plan Feature Codes |
| Audio | | | | |
| | Preferred Vocoder 🕜 | 0 item Avail | lable 🔷 | 6/8 items Selected |
| | | | ~ | PCMU |
| | | | > | PCMA |
| | | | _lm | ☑ G.723.1 |
| | | | 7 ~ | G.729A/B |
| | | | Ψ | G.722 (wide band) 🖕 |

e. Click Save and Apply.

Htek

Auto Provision Htek IP Phone with Yeastar P-Series Cloud Edition

This topic takes Htek UC921G (firmware: 2.0.4.8.18) as an example to introduce how to auto provision an Htek IP phone with Yeastar P-Series Cloud Edition.

Requirements

The firmwares of Htek IP phone and Yeastar PBX meet the following requirements.

| Model | Phone Requirement | PBX Requirement |
|--------|-------------------------|---------------------|
| UC902 | 2.0.4.8.18 or later | 84.5.0.86 or later |
| UC902S | 2.0.4.8.18 or later | 84.5.0.86 or later |
| UC903 | 2.0.4.8.18 or later | 84.5.0.86 or later |
| UC912 | 2.0.4.8.18 or later | 84.5.0.86 or later |
| UC912G | 2.0.4.8.18 or later | 84.5.0.86 or later |
| UC912E | 2.0.4.8.18 or later | 84.5.0.86 or later |
| UC921 | 2.0.4.8.18 or later | 84.5.0.86 or later |
| UC921G | 2.0.4.8.18 or later | 84.5.0.86 or later |
| UC923 | 2.0.4.8.18 or later | 84.5.0.86 or later |
| UC923U | 2.0.4.8.18 or later | 84.5.0.86 or later |
| UC924 | 2.0.4.8.18 or later | 84.5.0.86 or later |
| UC924E | 2.0.4.8.18 or later | 84.5.0.86 or later |
| UC924U | 2.0.4.8.18 or later | 84.5.0.86 or later |
| UC924W | 2.0.4.8.18 or later | 84.5.0.86 or later |
| UC926 | 2.0.4.8.18 or later | 84.5.0.86 or later |
| UC926E | 2.0.4.8.18 or later | 84.5.0.86 or later |
| UC926U | 2.0.4.8.18 or later | 84.5.0.86 or later |
| UCV10 | 5.42.1.6.30b58 or later | 84.12.0.32 or later |
| UCV20 | 5.42.1.6.30b79 or later | 84.12.0.32 or later |

| Model | Phone Requirement | PBX Requirement |
|-------|-------------------------|---------------------|
| UCV50 | 5.42.1.6.30b62 or later | 84.12.0.32 or later |
| UCV52 | 5.42.1.6.30b68 or later | 84.12.0.32 or later |
| UCV53 | 5.42.1.6.32R76 or later | 84.12.0.32 or later |

Prerequisites

- Make sure that you have <u>downloaded the template</u> for the desired phone model (Path: Auto Provisioning > Resource Repository > Default Templates).
- RESET the IP phone if it is previously used.
- Gather information of the IP phone, including Vendor, Model, and MAC address.

Procedure

- Step 1. Add the Htek IP phone on PBX
- Step 2. Trigger the IP phone to complete provisioning

Step 1. Add the Htek IP phone on PBX

- 1. Log in to PBX web portal, go to **Auto Provisioning > Phones**.
- 2. Click **Add > Add**.
- 3. In the **IP Phone** section, enter the following phone information.

| IP Phone | | | |
|---------------|--------|---------|--------|
| * Vendor | | * Model | |
| Htek | \sim | UC921G | \vee |
| * MAC Address | | | |
| | | | |

- Vendor: Select Htek.
- Model: Select the phone model. In this example, select UC921G.
- MAC Address: Enter the MAC address of the IP phone.
- 4. In the **Options** section, configure the following settings.

| Options | | |
|---|--------|---|
| * Template | | Provisioning Link |
| YSDP_HtekUC9XX | \sim | https://docs.example.yeastarcloud.com:443/api/autoprovision/grobc 🕒 |
| ✓ Authentication for the First-time Auto Provisioning | | |

- **Template**: Select a desired template from the drop-down list.
 - **Note:** You can select the default template corresponding to the phone model, or customize your own template. For more information, see <u>Create a</u> <u>Custom Auto Provisioning Template</u>.
- **Provisioning Link**: A provisioning link is automatically generated, which points to the location where the phone's configuration file is stored.
- Authentication for the First-time Auto Provisioning: If enabled, users are requested to fill in authentication information on the IP phones before triggering the first-time provisioning.

Note: We recommend that you keep this option selected.

5. In the Assign Extension section, assign an extension to the IP phone.

| Assign Extension | |
|--------------------|--------|
| * Select Extension | |
| 3000-Leo Ball | \sim |

Tip:

If your desired extension is not listed in the drop-down list, it indicates that the extension has been associated with an IP phone.

- To release the extension from the associated IP phone, see <u>Release an</u> <u>Extension from a Provisioned IP Phone</u>.
- To register the extension to the phone without releasing it from the previously associated one, you need to <u>configure the concurrent registra-</u> <u>tion setting for the extension</u>, as the PBX only allows an extension to register with one SIP endpoint by default.

6. Click Save.

The PBX will send an event notification of RPS Request Success.

Step 2. Trigger the IP phone to complete provisioning

- 1. Reboot the IP phone.
- 2. If you have enabled **Authentication for the First-time Auto Provisioning** on the PBX, enter the authentication credential on the IP phone.

| E l-Ite | k |
|----------------|------|
| 1. User Name: | |
| 2. Password: | |
| | |
| Back | Save |

- User Name: Enter the extension number that is assigned to the phone.
- Password: Enter the extension's Voicemail Access PIN.



You can check the Voicemail Access PIN in the **Voicemail** tab on the extension's configuration page.

| < | User | Presence | Voicemail | Features | Advanced | Security | Linkus Clients | Phone | Fu |
|---|-------------|--------------------|-----------|----------|----------|------------------|----------------|-------|----|
| | | | | | | | | | |
| | - Enabl | e Voicemail | | | | | | | |
| | | | | | | | | | |
| | Voicemail F | PIN Authentication | | | * Voic | email Access PIN | 1 | | |

Result

- The IP phone automatically downloads the configurations from the PBX and applies the settings.
- The extension is successfully registered on the IP phone. You can check the registration status on **Auto Provisioning > Phone** on the PBX web portal.

| | Status | Extension | Name | Vendor 🖕 | Model 🍦 | Phone Password | Operations | 7 |
|--|--------|-----------|----------|----------|---------|----------------|------------|---|
| | 2 | 3000 | Leo Ball | Htek | UC921G | | | |

Related information

Auto Provision LDAP for IP Phones

Manually Register Htek IP Phone with Yeastar P-Series Cloud Edition

This topic takes Htek UC921G (firmware: 2.0.4.8.18) as an example to introduce how to manually register an extension on an Htek IP phone.

Supported devices

The Htek IP phones that are compatible with SIP (Session Initiation Protocol).

Procedure

- <u>Step 1. Gather registration information on Yeastar PBX</u>
- Step 2. Register extension on Htek IP phone

Step 1. Gather registration information on Yeastar PBX

Log in to PBX web portal, gather the following information for extension registration.

| Information | Instruction |
|-----------------------|--|
| Extension information | Go to Extension and Trunk > Extension > A > User > Extension Information , note down the following information: |
| | Extension NumberRegistration Name |

| Information | Instruction | |
|--------------------|--|---------------|
| | Registration Password | |
| - | Extension Information * Extension Number * Caller ID 3000 39-3000 * Registration Name * Registration Password birKhCOMdW | |
| Transport protocol | Go to Extension and Trunk > Extension > 2 > Advanced > VoIP Settings > Transport, note down the transport protocol of the extension. In this example, the extension use UDP transport protocol. | |
| | User Presence Voicemail Features Advanced Security Linkus Clients Phone VoIP Settings | Function Keys |
| | Note: If the extension uses TCP transport protocol, make sure that the SIP TCP port is enabled on the PBX, or the registration would fail (Path: PBX Settings > SIP Settings > General > Basic). | |
| | Basic * SIP UDP Port \$ \$060 * RTP Port Range * 18256 * 20ubound SIP Port Range * 0utbound SIP Port Range * 0utbound SIP Port Range * 18256 * 5062 * 18256 * 5062 * 18256 * 5062 * 18256 * 5062 * 5062 * 5062 * 5062 * 5062 * 5062 * 5062 * 5062 * 5062 * 5062 * 5062 * 5062 * 5062 * 5062 * 5062 * 5062 * 5063 * 5064 * 507 * 507 * 5061 | 5082 |

| Information | Instruction |
|-----------------------|--|
| PBX domain name | The domain name of the PBX. |
| | In this example, we use the PBX domain name docs.example.yeastarcloud.com for extension registration. |
| SIP registration port | The SIP registration port is 5060. |

Step 2. Register extension on Htek IP phone

1. Log in to the web interface of the Htek IP phone.

| 3 192.168.28.193/rsf.htm × + | | ~ - O | × |
|---|---|-----------|---|
| $\leftarrow \rightarrow C$ a 192.168.28.193 | | 🖻 🌣 🗯 🛓 🗖 | : |
| 0 | Sign in https://192.168.28.193 Username Password C Sign in Cancel | | |
| | | | |
| | | | |
| | | | |
| | | | |

- a. In the browser's address bar, enter the IP address of the IP phone.
- b. Enter the username admin and the associated password.
 - In this example, enter the default password admin.
- c. Click Sign in.
- 2. Go to **Profile > Basic**, edit the profile for registration.
 - a. Complete the following settings

| El-Itek | Home Profile | Account Network Function Keys Settings |
|----------------------------|--|--|
| Basic Codec Advanced | Profile * Primary SIP Server Failover SIP Server Prefer Primary SIP Server Outbound Proxy Backup Outbound Proxy * SIP Transport NAT Traversal | Profile 2 docs.example.yeastarcloud.com No Ves UDP O TCP O TLS No No No,but send keep alive O STUN |

- Primary SIP Server: Enter the domain name of the PBX.
- **SIP Transport**: Select the transport protocol of the extension. In this example, select **UDP**.
- b. At the bottom of the page, click **SaveSet**.
- 3. Go to **Account > Basic**, complete the following settings.

| El-tek | | | |
|----------|-------------------------|---|---|
| | Home Profile | Account Network Function Keys Setting | S |
| | | | |
| Basic a | Account | Account 2 | |
| | Account Status | Disabled | |
| | * Account Active | ○ No ● Yes | |
| <u>_</u> | Profile | Profile 2 | |
| - | Label | Leo Ball | |
| | * SIP User ID | 3000 | |
| | * Authenticate ID | birKhcOMdW | |
| <u>_</u> | * Authenticate Password | | |
| | Name | | |
| | Local SIP Port | 5060 | |
| | Use Random Port | • No O Yes | |

- a. In the **Account** drop-down list, select an available account.
- b. In the Account Active field, select Yes to activate the account.
- c. In the **Profile** drop-down list, select the profile edited in step 2.

- d. Enter the extension information,
 - Label: Enter the name associated with the account, which will be displayed on the phone screen.
 - SIP User ID: Enter the extension number.
 - Authenticate ID: Enter the registration name of the extension.
 - Authenticate Password: Enter the registration password of the extension.
 - Local SIP Port: Enter the SIP registration port.
- e. At the bottom of the page, click **SaveSet**.

Result

The extension is registered successfully. You can check the registration status in the **Ac-count Status** field.

| El-Itek | Home Profil | e Account Network Function Keys Settings |
|---------|------------------|--|
| Basic | Account | Account 2 |
| | Account Status | 3000@docs.example.yeastarcloud.com:5060 : Registered; UDP |
| | * Account Active | O No O Yes |

Tiptel

Auto Provision Tiptel IP Phone with Yeastar P-Series Cloud Edition

This topic takes Tiptel 3310 (firmware: 2.42.6.5.55) as an example to introduce how to auto provision a Tiptel IP phone with Yeastar P-Series Cloud Edition.

Requirements

The firmwares of **Tiptel IP phone** and **Yeastar PBX** meet the following requirements.

| Model | Phone Requirement | PBX Requirement |
|-------|----------------------|--------------------|
| 3310 | 2.42.6.5.55 or later | 84.7.0.17 or later |
| 3320 | 2.42.6.5.55 or later | 84.7.0.17 or later |
| 3330 | 2.42.6.5.55 or later | 84.7.0.17 or later |
| 3340 | 2.42.6.5.55 or later | 84.7.0.17 or later |

Table 1.

Prerequisites

- Make sure that you have <u>downloaded the template</u> for the desired phone model (Path: Auto Provisioning > Resource Repository > Default Templates).
- RESET the IP phone if it is previously used.
- Gather information of the IP phone, including Vendor, Model, and MAC address.

Procedure

- Step 1. Add the Tiptel IP phone on PBX
- Step 2. Trigger the IP phone to complete provisioning

Step 1. Add the Tiptel IP phone on PBX

- 1. Log in to PBX web portal, go to **Auto Provisioning > Phones**.
- 2. Click **Add > Add**.

3. In the **IP Phone** section, enter the following phone information.

| IP Phone | | |
|---------------|---------|--------|
| * Vendor | * Model | |
| Tiptel V | 3310 | \sim |
| * MAC Address | | |
| 85.4785 | | |

- Vendor: Select Tiptel.
- Model: Select the phone model. In this example, select **3310**.
- MAC Address: Enter the MAC address of the IP phone.

4. In the **Options** section, configure the following settings.

| Options | | |
|---|--------|---|
| * Template | | Provisioning Link |
| YSDP_Tiptel | \sim | https://docs.example.yeastarcloud.com:443/api/autoprovision/grobc 🖻 |
| ✓ Authentication for the First-time Auto Provisioning | | |

• Template: Select a desired template from the drop-down list.

Note:

You can select the default template corresponding to the phone model, or customize your own template. For more information, see <u>Create a</u> <u>Custom Auto Provisioning Template</u>.

- **Provisioning Link**: A provisioning link is automatically generated, which points to the location where the phone's configuration file is stored.
- Authentication for the First-time Auto Provisioning: If enabled, users are requested to fill in authentication information on the IP phones before triggering the first-time provisioning.

Note: We recommend that you keep this option selected.

5. In the **Assign Extension** section, assign an extension to the IP phone.

| Assign Extension | |
|--------------------|--|
| * Select Extension | |
| | |

i Tip:

If your desired extension is not listed in the drop-down list, it indicates that the extension has been associated with an IP phone.

- To release the extension from the associated IP phone, see <u>Release an</u> <u>Extension from a Provisioned IP Phone</u>.
- To register the extension to the phone without releasing it from the previously associated one, you need to <u>configure the concurrent registra-</u> <u>tion setting for the extension</u>, as the PBX only allows an extension to register with one SIP endpoint by default.
- 6. Click Save.

The PBX will send an event notification of **RPS Request Success**.

Step 2. Trigger the IP phone to complete provisioning

- 1. Reboot the IP phone.
- 2. If you have enabled **Authentication for the First-time Auto Provisioning** on the PBX, enter the authentication credential on the IP phone.



• **UserName**: Enter the extension number that is assigned to the phone.

• Password: Enter the extension's Voicemail Access PIN.



Result

- The IP phone automatically downloads the configurations from the PBX and applies the settings.
- The extension is successfully registered on the IP phone. You can check the registration status on **Auto Provisioning > Phone** on the PBX web portal.

| Status | Extension | Name | Vendor 🍦 | Model 👙 | Phone Password | Operations | 7 |
|--------|-----------|----------|----------|---------|----------------|-------------------------|---|
| ۶. | 3000 | Leo Ball | Tiptel | 3310 | | 2 0 ∨ | |

Related information

Auto Provision LDAP for IP Phones

Manually Register Tiptel IP Phone with Yeastar P-Series Cloud Edition

This topic takes Tiptel 3310 (firmware: 2.42.6.5.55) as an example to introduce how to manually register an extension on a Tiptel IP phone.

Supported devices

The Tiptel IP phones that are compatible with SIP (Session Initiation Protocol).

Procedure

- <u>Step 1. Gather registration information on Yeastar PBX</u>
- Step 2. Register extension on Tiptel IP phone

Step 1. Gather registration information on Yeastar PBX

Log in to PBX web portal, gather the following information for extension registration.

| Information | Instruction | |
|-----------------------|--|---------------|
| Extension information | Go to Extension and Trunk > Extension > A User > Extension Information , note down the following information: | |
| | Extension Number Registration Name Registration Password | |
| | Extension Information | |
| | * Extension Number * Caller ID | |
| | 3000 39-3000 * Registration Name * Registration Password | |
| | birkhcoMdW •••••••••••••••••••••••••••••••••••• | ¥ 🖻 🔾 |
| | IP Phone Concurrent Registrations 1 | |
| Transport protocol | Go to Extension and Trunk > Extension > 🖉 > Advanced > VoIP Settings > Transport, note down the transport protocol of the extension. In this example, the extension use UDP transport protocol. | |
| | User Presence Voicemail Features Advanced Security Linkus Clients Phone | Function Keys |
| | VoIP Settings | |
| | DTMF Mode Transport | |
| | RFC4733 (RFC2833) V UDP | × |
| | Note: If the extension uses TCP transport protocol, make sure that the SIP TCP port is enabled on the PBX, or the registration would fail (Path: PBX Settings > SIP Settings > General > Basic). | |

| Information | Instruction | |
|-----------------------|--|--|
| | Basic * SIP UDP Port \$5060 * RTP Port Range * 18256 * 18256 * 5062 * 5063 * 5064 * 5064 <tr< th=""><th></th></tr<> | |
| PBX domain name | The domain name of the PBX. In this example, we use the PBX domain name docs.example.yeastarcloud.com for extension registration. | |
| SIP registration port | The SIP registration port is 5060. | |

Step 2. Register extension on Tiptel IP phone

1. Log in to the web interface of the Tiptel IP phone.

| | | 、 、 | ~ - | σ | × |
|---|---|--------|--------------|---|---|
| $\leftarrow \rightarrow C$ a 192.168.28.195 | | e : | ☆ ≯ [| | : |
| в | Sign in http://192.168.28.195 Your connection to this site is not private Username Password | | | | |
| | C Sign in Cancel | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

- a. In the browser's address bar, enter the IP address of the IP phone.
- b. Enter the username admin and the associated password.

In this example, enter the default password admin.

- c. Click Sign in.
- 2. Go to **Profile > Basic**, edit the profile for registration.
 - a. Complete the following settings.

| tipte | Home Profile | Account Network Function Keys |
|----------|---------------------------|---------------------------------------|
| Basic | Profile | Profile 1 |
| Codec | * Primary SIP Server | docs.example.yeastarcloud.com |
| Advanced | Failover SIP Server | · · · · · · · · · · · · · · · · · · · |
| | Prefer Primary SIP Server | ● No ○ Yes |
| | Current SIP Server | |
| | DHCP SIP Server | ● No ○ Yes |
| | Outbound Proxy | |
| | Backup Outbound Proxy | 2 |
| | * SIP Transport | ● UDP OTCP OTLS 🕜 |
| | NAT Traversal | ○ No ● No,but send keep alive ○ STUN |

- Primary SIP Server: Enter the domain name of the PBX.
- **SIP Transport**: Select the transport protocol of the extension. In this example, select **UDP**.
- b. At the bottom of the page, click **SaveSet**.
- 3. Go to **Account > Basic**, complete the following settings.

| tintol | | |
|--|-------------------------|-----------------------------------|
| upter | Home Profile | Account Network Function Keys |
| Pasia | Account | Account 1 |
| Dasic d | Account Status | Not Registered |
| De la compañía de la | * Account Active | O No O Yes |
| • | Profile | Profile 1 |
| | Label | Leo Ball |
| | * SIP User ID | 3000 📀 |
| _ | * Authenticate ID | birKhcOMdW |
| | * Authenticate Password | •••••• |
| | Name | |
| | Local SIP Port | 5060 🕜 |

- a. In the **Account** drop-down list, select an available account.
- b. In the Account Active field, select Yes to activate the account.
- c. In the **Profile** drop-down list, select the profile edited in step 2.
- d. Enter the extension information.
 - **Label**: Enter the name associated with the account, which will be displayed on the phone screen.
 - SIP User ID: Enter the extension number.
 - Authenticate ID: Enter the registration name of the extension.
 - Authenticate Password: Enter the registration password of the extension.
 - Local SIP Port: Enter the SIP registration port.
- e. At the bottom of the page, click **SaveSet**.

Result

The extension is registered successfully. You can check the registration status in the **Ac-count status** field.

| tipte | Home Profile | Account Network Function Keys |
|-------|------------------|---|
| Basic | Account | Account 1 |
| | Account Status | 3000@docs.example.yeastarcloud.com:5060 : |
| | | Registered; UDP |
| | * Account Active | O No O Yes |

Alcatel-Lucent Enterprise (ALE)

Provision Alcatel Lucent Enterprise (ALE) IP Phone with Yeastar P-Series Cloud Edition

This topic takes Alcatel Lucent Enterprise M3 (firmware: 2.13.39.000.2217) as an example to describe how to provision Alcatel Lucent Enterprise IP phone with Yeastar P-Series Cloud Edition.

Requirements

The firmwares of ALE IP Phone and Yeastar PBX meet the following requirements.

| Model | Phone Requirement | PBX Requirement |
|-------|---------------------------|--------------------|
| H2 | 2.10.00.0001083 or later | 84.9.0.18 or later |
| H2P | 2.10.00.0001083 or later | 84.9.0.18 or later |
| НЗР | 2.12.43.010.2272 or later | 84.9.0.18 or later |
| H3G | 2.12.43.010.2272 or later | 84.9.0.18 or later |
| H6 | 2.12.43.010.2272 or later | 84.9.0.18 or later |
| M3 | 2.13.37.000.2202 or later | 84.9.0.18 or later |
| M5 | 2.13.37.000.2202 or later | 84.9.0.18 or later |
| M7 | 2.13.37.000.2202 or later | 84.9.0.18 or later |
| M8 | 2.13.32.000.1535 or later | 84.9.0.18 or later |

Table 2.

Scenarios

The provisioning methods and operations vary depending on your provisioning needs, as the following table shows:

| Scenario | Description |
|---------------------------------|---|
| Provision a SINGLE ALE IP phone | In this scenario, you can manually add a provisioning link provided by Yeastar PBX to the phone. In this way, the phone can retrieve configurations from the PBX using the given link. For more information, see <u>Manually provision an ALE IP phone</u> . |

| Scenario | Description |
|-------------------------------------|--|
| Provision MULTIPLE ALE IP phones | In this scenario, you can utilize DHCP option 66 to deliver the provisioning link offered by Yeastar PBX to the IP phones. In this way, the phones can retrieve configurations from the PBX using the given link. For more information, see <u>Auto provision multiple ALE IP phones</u> . |

Manually provision an ALE IP phone

Prerequisites

- Make sure that you have <u>downloaded the template</u> for the desired phone model (Path: Auto Provisioning > Resource Repository > Default Templates).
- RESET the IP phone if it is previously used.
- Gather information of the IP phone, including Vendor, Model, and MAC address.

Procedure

- Step 1. Add the ALE IP phone on PBX
- Step 2. Configure provisioning server address on the phone

Step 1. Add the ALE IP phone on PBX

Add the IP phone on PBX. The PBX will generate a configuration file based on the phone's MAC address.

- 1. Log in to PBX web portal, go to **Auto Provisioning > Phones**.
- 2. Click **Add > Add**.
- 3. In the **IP Phone** section, configure phone information as follows:

| IP Phone | | |
|---------------------------|---------|---|
| * Vendor | * Model | |
| Alcatel-Lucent Enterprise | M3 | ~ |
| * MAC Address | | |
| | | |
| | | |

- Vendor: Select Alcatel-Lucent Enterprise.
- Model: Select the phone model. In this example, select M3.
- MAC Address: Enter the MAC address of the IP phone.
- 4. In the **Options** section, configure the following settings.

| Options | | |
|----------------|--------|---|
| * Template | | Provisioning Link |
| YSDP_AleMyriad | \vee | https://docs.test.yeastarcloud.com:443/api/autoprovision/gVvUsLAE 🔳 |
| | | Please copy this Provisioning Link, then set up the link to where your IP phones can fetch the configuration files. |

- Template: Select a desired template from the drop-down list.
 - Note: You can select the default template corresponding to the phone model, or customize your own template. For more information, see <u>Create a Custom Auto Provisioning Template</u>.
- Provisioning Link: A provisioning link is automatically generated, which points to the location where the phone's configuration file is stored.



5. In the Assign Extension section, assign an extension to the IP phone.

| Assign Extension | |
|--------------------|--------|
| * Select Extension | |
| 3000-Leo Ball | \sim |

Tip:

If your desired extension is not listed in the drop-down list, it indicates that the extension has been associated with an IP phone.

- To release the extension from the associated IP phone, see <u>Release an Extension from a Provisioned IP Phone</u>.
- To register the extension to the phone without releasing it from the previously associated one, you need to <u>config-</u> <u>ure the concurrent registration setting for the extension</u>, as the PBX only allows an extension to register with one SIP endpoint by default.

6. Click Save.

Step 2. Configure provisioning server address on the phone

Manually configure provisioning server for the Grandstream IP phone using the provisioning link provided by the PBX.

1. Log in to the web interface of the ALE IP phone.

| M3 DeskPhone x + | | ~ | - | σ | × |
|--|-----|---|---|---|---|
| ← → C ▲ Not secure https://192.168.28.207/#/login a | € ☆ | * | ₹ | | |
| Alcatel-Lucent Enterprise Fleue enter the user same Fleue enter the user parswel Login | | | | | |

- a. In the browser's address bar, enter the IP address of the IP phone.
- b. Enter the username \underline{admin} and the associated password.

In this example, enter the default password 123456.

- c. Click **Login**.
- 2. On the left navigation bar, go to **Provision > Auto Provision**.
- 3. In the **DM URL** field, paste the provisioning link.

| Alcatel·Lucer Enterprise | nt 🕢 | Web Base | ed Management M3 | | |
|-----------------------------|------|----------|---------------------|---|---|
| | Ū. | | Auto Provision | | |
| Status | ~ | | Auto Provision | | |
| 窗 Account | ~ | | DHCP Provision: | 0 | |
| ① Network | ~ | | IPv4 Custom Option: | | 0 |
| 🔰 Provision | ^ | | IPv6 Custom Option: | | ? |
| Auto Provision | | | PnP Provision: | 0 | |
| TR069 | | | DM URL: | https://docs.test.yeastarcloud.com:443/api/at | ? |
| Phone Keys | ~ | | Backup DM URL: | | 0 |
| 🔅 Settings | ~ | | Username: | | 0 |

- 4. Click Submit.
- 5. Click Auto Provision Now.

Result

Note:

Some IP phones will reboot automatically. If not, you need to manually reboot the phone to make the configurations take effect.

- After the IP phone is rebooted, it automatically downloads the configurations from the PBX and applies the settings.
- The extension is successfully registered on the IP phone. You can check the registration status on Auto Provisioning > Phone on the PBX web portal.

| Status | Extension | Name | Vendor 👙 | Model 👙 | Phone Password | Operations | 7 |
|--------|-----------|----------|------------------------------|---------|----------------|-------------------------|---|
| 2 | 3000 | Leo Ball | Alcatel-Lucent Enterprise | M3 | ******@ | 2 0 v | |

Auto provision multiple ALE IP phones

Prerequisites

• Make sure that there is only one DHCP server in the subnet where the IP phones are deployed, or the IP phones may fail to obtain IP addresses.

- Make sure that you have <u>downloaded the template</u> for the desired phone model (Path: Auto Provisioning > Resource Repository > Default Templates).
- RESET the IP phone if it is previously used.
- Gather information of the IP phone, including Vendor, Model, and MAC address.

Procedure

- Step 1. Add the IP phone on the PBX
- <u>Step 2. Configure DHCP option 66 on the router</u>

Step 1. Add the IP phone on the PBX

Add the IP phone on PBX. The PBX will generate a configuration file based on the phone's MAC address.

- 1. Log in to PBX web portal, go to Auto Provisioning > Phones.
- 2. Click **Add > Add**.
- 3. In the IP Phone section, configure phone information as follows:

| IP Phone | | | |
|---------------------------|--------|---------|---|
| * Vendor | | * Model | |
| Alcatel-Lucent Enterprise | \sim | M3 | ~ |
| * MAC Address | | | |
| | | | |

- Vendor: Select Alcatel-Lucent Enterprise.
- Model: Select the phone model. In this example, select M3.
- MAC Address: Enter the MAC address of the IP phone.
- 4. In the **Options** section, configure the following settings.

| Options | |
|------------------|--|
| * Template | Provisioning Link |
| YSDP_AleMyriad V | https://docs.test.yeastarcloud.com:443/api/autoprovision/gVvUsLAE 🕒 |
| | Please copy this Provisioning Link, then set up the link to where your IP phones can fetch the configuration files. |

• Template: Select a desired template from the drop-down list.



You can select the default template corresponding to the phone model, or customize your own template. For more information, see <u>Create a Custom Auto Provisioning Template</u>.

 Provisioning Link: A provisioning link is automatically generated, which points to the location where the phone's configuration file is stored.



5. In the Assign Extension section, assign an extension to the IP phone.

| Assign Extension | |
|--------------------|--------|
| * Select Extension | |
| 3000-Leo Ball | \vee |

| Tip: |
|------|
|------|

1

If your desired extension is not listed in the drop-down list, it indicates that the extension has been associated with an IP phone.

- To release the extension from the associated IP phone, see <u>Release an Extension from a Provisioned IP Phone</u>.
- To register the extension to the phone without releasing it from the previously associated one, you need to <u>config-</u> <u>ure the concurrent registration setting for the extension</u>, as the PBX only allows an extension to register with one SIP endpoint by default.

6. Click **Save**.

Step 2. Configure DHCP option 66 on the router

In the subnet where the IP phone is deployed, use the generated provisioning link to configure option 66 on the DHCP Server.

1. On PBX web portal, copy the provisioning link from the phone's detail page.

| Options | | |
|----------------|--------|--|
| * Template | | Provisioning Link |
| YSDP_AleMyriad | \vee | https://docs.test.yeastarcloud.com:443/api/autoprovision/gVvUsLAI |
| | | Please copy this Provisioning Link, then set up the link to where your IP volume the phones can fetch the configuration files. |

2. On the DHCP server, set up option 66 with the provisioning link.

In this example, the configuration is shown below.

| Interfaces » LAN | |
|-----------------------------|---|
| General Settings Advanced S | ettings Firewall Settings DHCP Server |
| General Setup Advanced Set | ings IPv6 Settings IPv6 RA Settings |
| Dynamic <u>DHCP</u> | Opnamically allocate DHCP addresses for clients. If disabled, only clients having static leases will be served. |
| Force | Force DHCP on this network even if another server is detected. |
| <u>IPv4</u> -Netmask | 255.255.255.0 |
| | Override the netmask sent to clients. Normally it is calculated from the subnet that is served. |
| DHCP-Options | 6,223.5.5.5 × |
| | 66,https://docs.test.yeastarcloud.com:443/api/autoprovision/gVv UsLADybIdHwPX × |
| | + |
| | Define additional DHCP options, for example "6,192.168.2.1,192.168.2.2" which advertises different DNS servers to clients. |
| | |
| | Dismiss Save |

Result



Note:

Some IP phones will reboot automatically. If not, you need to manually reboot the phone to make the configurations take effect.

- After the IP phone is rebooted, it gets an IP address from the DHCP server, downloads the configurations from the PBX via the provisioning link, and applies the settings automatically.
- The extension is successfully registered on the IP phone. You can check the registration status on Auto Provisioning > Phone on the PBX web portal.

| Status | Extension | Name | Vendor 🍦 | Model 🌲 | Phone Password | Operations | 7 |
|--------|-----------|----------|------------------------------|---------|----------------|-------------------------|---|
| 2 | 3000 | Leo Ball | Alcatel-Lucent Enterprise | M3 | ********@ | 2 0 v | |

Related information

Auto Provision LDAP for IP Phones

Manually Register Alcatel-Lucent Enterprise (ALE) Phone with Yeastar P-Series Cloud Edition

This topic takes Alcatel-Lucent Enterprise M3 (firmware: 2.13.39.000.2217) as an example to introduce how to manually register an extension on an Alcatel-Lucent Enterprise (ALE) IP phone.

Supported devices

The Alcatel-Lucent Enterprise IP phones that are compatible with SIP (Session Initiation Protocol).

Procedure

- Step 1. Gather registration information on Yeastar PBX
- <u>Step 2. Register extension on ALE IP phone</u>

Step 1. Gather registration information on Yeastar PBX

Log in to PBX web portal, gather the following information for extension registration.

| Information | Instruction | |
|-----------------------|--|-------------------------|
| Extension information | Go to Extension and Trunk > Extension > 4 Information, note down the following information | Vser > Extension tion: |
| | Extension Number Registration Name Registration Password | |
| | Extension Number 3000 | * Caller ID |
| | * Registration Name | * Registration Password |
| | IP Phone Concurrent Registrations 1 V | |

| Information | Instruction |
|-----------------------|--|
| Transport protocol | Go to Extension and Trunk > Extension > 🖉 > Advanced > VoIP Settings > Transport, note down the transport protocol of the extension. In this example, the extension use UDP transport protocol. |
| | User Presence Voicemail Features Advanced Security Linkus Clients Phone Function Keys |
| | VoIP Settings |
| | DTMF Mode Transport PFC4733 (RFC2833) V |
| | If the extension uses TCP transport protocol, make sure that the SIP TCP port is enabled on the PBX, or the registration would fail (Path: PBX Settings > SIP Settings > General > Basic). Basic SIP UDP Port SIP TCP Port SIP TCP Port S060 |
| | * RTP Port Range * Outbound SIP Port Range * 18256 : 18356 |
| | If the extension uses TLS transport protocol, make sure that the TLS is enabled on the PBX, or the registration would fail (Path: PBX Settings > SIP Settings > TLS). Image: SIP TLS Port Sold SIP TLS Port Sold |
| PBX domain name | The domain name of the PBX. |
| | In this example, we use the PBX domain name docs.example.yeastarcloud.com for extension registration. |
| SIP registration port | The SIP registration port is 5060. |

Step 2. Register extension on ALE IP phone

1. Log in to the web interface of the ALE IP phone.



- a. In the browser's address bar, enter the IP address of the IP phone.
- b. Enter the username admin and the associated password.

In this example, enter the default password 123456.

- c. Click Login.
- 2. On the left navigation bar, go to **Account > Basic**, and complete the following registration configurations.
 - a. In the **Account** drop-down list, select an available account, then enable the **Ac-count Active** option.

| Basic | | |
|-----------------|---------------------------|---|
| Account: | Account1 (Not registered) | ~ |
| Account Active: | • • | |

b. Enter the extension information.

| SIP Label Name: | Leo Ball | ? |
|-----------------|------------|---|
| Display Name: | | ? |
| User Name: | 3000 | ? |
| Register Name: | birKhcOMdW | ? |
| Password: | •••••• | ? |

- **SIP Label Name**: Enter the name associated with the account, which will be displayed on the phone screen.
- User Name: Enter the extension number.
- **Register Name**: Enter the registration name of the extension.
- **Password**: Enter the registration password of the extension.
- c. Enter the PBX's information and set the registration period.

| SIP Server. | docs.example.yeastarcloud.com | 0 |
|-----------------------|-------------------------------|---|
| SIP Server Port: | 5060 | ? |
| Register Expire Time: | 3600 | ? |
| Transport Mode: | UDP ~ | ? |

- SIP Server: Enter the domain name of the PBX.
- **SIP Server Port**: Enter the SIP registration port of the PBX. In this example, enter 5060.
- Register Expire Time: Optional. Configure the registration period.

Tip:

You can check the available range of the registration time on **PBX Settings > SIP Settings > General > SIP Endpoint Registration Timer** in the PBX web portal.

- **Transport Mode**: Select the transport protocol of the extension. In this example, select **UDP**.
- d. Click Submit.

Result

The extension is registered successfully. You can check the registration status in the **Ac-count Status** field.

| Account: | Account1 (Leo Ball : Registered) |
|-----------------|----------------------------------|
| Account Active: | 0 |
| Account Status: | Registered |

Flyingvoice

Auto Provision Flyingvoice IP Phone with Yeastar P-Series Cloud Edition

This topic takes Flyingvoice P20P (firmware: V0.8.18.6) as an example to introduce how to auto provision a Flyingvoice IP phone with Yeastar P-Series Cloud Edition.

Requirements

The firmwares of Flyingvoice IP phone and Yeastar PBX meet the following requirements.

| Model | Phone Requirement | PBX Requirement |
|-------------|-------------------|--------------------|
| FIP10 | 0.7.23.1 or later | 84.8.0.25 or later |
| FIP11C | 0.7.23.1 or later | 84.8.0.25 or later |
| FIP12WP | 0.7.23.1 or later | 84.8.0.25 or later |
| FIP13G | 0.7.23.1 or later | 84.8.0.25 or later |
| FIP14G | 0.7.23.1 or later | 84.8.0.25 or later |
| FIP15G | 0.7.23.1 or later | 84.8.0.25 or later |
| FIP15G Plus | 0.7.23.1 or later | 84.8.0.25 or later |
| FIP16 | 0.7.23.1 or later | 84.8.0.25 or later |
| FIP16 Plus | 0.7.23.1 or later | 84.8.0.25 or later |
| P10 | V0.7.56 or later | 84.9.0.20 or later |
| P10P | V0.7.56 or later | 84.9.0.20 or later |
| P10G | V0.7.56 or later | 84.9.0.20 or later |
| P10W | V0.7.56 or later | 84.9.0.20 or later |
| P10LTE | V0.7.56 or later | 84.9.0.20 or later |
| P11 | V0.7.56 or later | 84.9.0.20 or later |
| P11P | V0.7.56 or later | 84.9.0.20 or later |
| P11G | V0.7.56 or later | 84.9.0.20 or later |
| P11W | V0.7.56 or later | 84.9.0.20 or later |
| P11LTE | V0.7.56 or later | 84.9.0.20 or later |

| Model | Phone Requirement | PBX Requirement |
|---------------|--------------------|--------------------|
| P20 | V0.7.57 or later | 84.9.0.20 or later |
| P20P | V0.7.57 or later | 84.9.0.20 or later |
| P20W | V0.7.57 or later | 84.9.0.20 or later |
| P20G | V0.7.57 or later | 84.9.0.20 or later |
| P21 | V0.7.57 or later | 84.9.0.20 or later |
| P21P | V0.7.57 or later | 84.9.0.20 or later |
| P21W | V0.7.57 or later | 84.9.0.20 or later |
| flyphone | V0.7.57 or later | 84.9.0.20 or later |
| P22P | V0.7.57 or later | 84.9.0.20 or later |
| P22G | V0.7.57 or later | 84.9.0.20 or later |
| P23G | V0.7.57 or later | 84.9.0.20 or later |
| P23GW | V0.7.57 or later | 84.9.0.20 or later |
| P24G | V0.7.57 or later | 84.9.0.20 or later |
| i86Box_Basic | V0.0.16.1 or later | 84.9.0.20 or later |
| i86Box_Indoor | V0.0.16.1 or later | 84.9.0.20 or later |
| i86Box_2Line | V0.0.16.1 or later | 84.9.0.20 or later |
| i86Box_PCBA | V0.0.16.1 or later | 84.9.0.20 or later |
| i86Box_NFC | V0.0.16.1 or later | 84.9.0.20 or later |

Prerequisites

- Make sure that you have <u>downloaded the template</u> for the desired phone model (Path: Auto Provisioning > Resource Repository > Default Templates).
- RESET the IP phone if it is previously used.
- Gather information of the IP phone, including Vendor, Model, and MAC address.

Procedure

- <u>Step 1. Add the Flyingvoice IP phone on PBX</u>
- <u>Step 2. Trigger the IP phone to complete provisioning</u>

Step 1. Add the Flyingvoice IP phone on PBX

1. Log in to PBX web portal, go to **Auto Provisioning > Phones**.

- 2. Click Add > Add.
- 3. In the **IP Phone** section, enter the following phone information.

| IP Phone | | | |
|--------------------|--------|---------|--------|
| * Vendor | | * Model | |
| Flyingvoice | \sim | P20P | \vee |
| * MAC Address | | | |
| 10.21 (2.21 (3.2)) | | | |
| | | | |

- Vendor: Select Flyingvoice.
- Model: Select the phone model. In this example, select P20P.
- MAC Address: Enter the MAC address of the IP phone.
- 4. In the **Options** section, configure the following settings.

| Options | | |
|---|--------------|---|
| * Template | | Provisioning Link |
| YSDP_FlyingvoiceP2 | \checkmark | https://docs.example.yeastarcloud.com:443/api/autoprovision/grobc 闺 |
| ✓ Authentication for the First-time Auto Provisioning | | |

• **Template**: Select a desired template from the drop-down list.

Note:

You can select the default template corresponding to the phone model, or customize your own template. For more information, see <u>Create a</u> <u>Custom Auto Provisioning Template</u>.

- **Provisioning Link**: A provisioning link is automatically generated, which points to the location where the phone's configuration file is stored.
- Authentication for the First-time Auto Provisioning: If enabled, users are requested to fill in authentication information on the IP phones before triggering the first-time provisioning.

Note:

We recommend that you keep this option selected.

5. In the **Assign Extension** section, assign an extension to the IP phone.

| * Select Extension | |
|--------------------|--------|
| 3000-Leo Ball | \sim |

i Tip:

If your desired extension is not listed in the drop-down list, it indicates that the extension has been associated with an IP phone.

- To release the extension from the associated IP phone, see <u>Release an</u> <u>Extension from a Provisioned IP Phone</u>.
- To register the extension to the phone without releasing it from the previously associated one, you need to <u>configure the concurrent registra-</u> <u>tion setting for the extension</u>, as the PBX only allows an extension to register with one SIP endpoint by default.

6. Click Save.

The PBX will send an event notification of **RPS Request Success**.

Step 2. Trigger the IP phone to complete provisioning

1. Reboot the IP phone.

After boot-up, the phone screen displays an HTTP Authentication prompt.

2. Press **OK**.

You are redirected to the Auto Provision page.

- 3. In the Auto Provision page, complete the following configurations.
 - a. Scroll down to the **User Name** field, enter the extension number that is assigned to the phone.
| | FLYINGVOICE |
|----|----------------|
| | Auto Provision |
| | 3. User Name |
| | 3000 |
| Ва | ack Save |

b. Scroll down to the **Password** field, enter the extension's Voicemail Access PIN.



| Auto | Provision |
|-------------|-----------|
| 4. Password | |
| 8742 | |

c. Scroll down to the HTTP Authentication field, select Basic.

FLYINGVOICE

| A | uto Provision | |
|---------|----------------|----|
| 5. HTTP | Authentication | |
| Basic | <> | |
| Back | Sa | ve |

d. Press **Save** to save the configurations.

The phone screen displays a prompt, asking whether to update now.

e. Press **OK** to trigger the update.

Result

- The IP phone automatically downloads the configurations from the PBX and applies the settings.
- The extension is successfully registered on the IP phone. You can check the registration status on **Auto Provisioning > Phone** on the PBX web portal.

| | Status | Extension | Name | Vendor 🍦 | Model 🍦 | Phone Password | Operations | 7 |
|--|--------|-----------|----------|-------------|---------|----------------|-------------------------|---|
| | ۶, | 3000 | Leo Ball | Flyingvoice | P20P | *******@ | 2 0 v | |

Related information

Auto Provision LDAP for IP Phones

Manually Register Flyingvoice IP Phone with Yeastar P-Series Cloud Edition

This topic takes Flyingvoice P20P (firmware: V0.8.18.6) as an example to introduce how to manually register an extension on a Flyingvoice IP phone.

Supported devices

The Flyingvoice IP phones that are compatible with SIP (Session Initiation Protocol).

Procedure

- <u>Step 1. Gather registration information on Yeastar PBX</u>
- Step 2. Register extension on Flyingvoice IP phone

Step 1. Gather registration information on Yeastar PBX

Log in to PBX web portal, gather the following information for extension registration.

| Information | Instruction | |
|-----------------------|--|---------------|
| Extension information | Go to Extension and Trunk > Extension > A User > Extension Information, note down the following information: | |
| | Extension Number Registration Name Registration Password | |
| | Extension Information | |
| | * Extension Number * Caller ID | |
| | 3000 39-3000 | |
| | Registration Name Registration Password | ¥ 🖻 🖸 |
| | IP Phone Concurrent Registrations | |
| | | |
| Transport protocol | Go to Extension and Trunk > Extension > > Advanced > VoIP Settings > Transport, note down the transport protocol of the extension. In this example, the extension use UDP transport protocol. User Presence Voicemail Features Advanced Security Linkus Clients Phone | Function Keys |
| | | |
| | VolP Settings | |
| | DTMF Mode Transport RFC4733 (RFC2833) V | V |
| | Note: If the extension uses TCP transport protocol, make sure that the SIP TCP port is enabled on the PBX, or the registration would fail (Path: PBX Settings > SIP Settings > General > Basic). | |

| Information | Instruction |
|-----------------------|--|
| | Basic * SIP UDP Port * SIP TCP Port 5060 * SIP TCP Port \$ 5060 * RTP Port Range * Outbound SIP Port Range * 18256 : 18356 \$ 5062 : 5082 • If the extension uses TLS transport protocol, make sure that the TLS is enabled on the PBX, or the registration would fail (Path: PBX Settings > SIP Settings > TLS). Image: SIP TLS Port * SIP TLS Port * SIP TLS Port * SIP TLS Port * SIP TLS Port * SIP TLS Port |
| PBX domain name | The domain name of the PBX. In this example, we use the PBX domain name docs.example.yeastarcloud.com for extension registration. |
| SIP registration port | The SIP registration port is 5060. |

Step 2. Register extension on Flyingvoice IP phone

1. Log in to the web interface of the Flyingvoice IP phone.

| S P20P Login × + | | ~ - o × |
|--------------------------|------------------------|---------|
| ← → C ⊗ 192.168.28.192 a | | * 🖬 🗄 |
| FLYIN | NGVOICE | |
| | Usemame Dassword Login | |
| | | |
| | | |
| | | |
| | | |
| | | |

- a. In the browser's address bar, enter the IP address of the IP phone.
- b. Enter the username admin and the associated password, then click **Login**.
 - In this example, enter the default password admin.
- 2. Go to the **SIP Account** tab, complete the registration configurations.

| atus Network Wi | reless SIP Account Pho | one Administration | |
|--|--|---|--|
| ra Line 2 SIP Sett | ings VoIP QoS Ring | | |
| lasic | | | |
| inter Chabur | | | |
| ister Status | | | |
| Register Status | Disable | | |
| ic Setup | | | |
| ine Enable | Enable 🗸 | | |
| scriber Information — | | | |
| | | | |
| Display Name | Leo Ball | Phone Number | 3000 |
| Display Name Account | Leo Ball birKhcOMdW | Phone Number Password | 3000 |
| Display Name Account xy and Registration — | Leo Ball birKhcOMdW | Phone Number Password | 3000 |
| Display Name Account ky and Registration Proxy Server | Leo Ball birKhcOMdW docs.example.yeastar | Phone Number Password Proxy Port | 3000 •••••• 5060 |
| Display Name Account xy and Registration Proxy Server Dutbound Server | Leo Ball birKhcOMdW docs.example.yeastar | Phone Number Password Proxy Port Outbound Port | 3000 •••••• 5060 5060 |
| Display Name Account | Leo Ball birKhcOMdW | Phone Number Password | 3000 |
| Display Name Account cy and Registration Proxy Server Dutbound Server Backup Outbound Server | Leo Ball birKhcOMdW docs.example.yeastar | Phone Number Password Proxy Port Outbound Port Backup Outbound Port | 3000 •••••• 5060 5060 5060 |

- a. Select an available line.
- b. In the **Line Enable** drop-down list, select **Enable**.
- c. In the **Subscriber Information** section, enter the extension information.
 - **Display Name**: Enter the name associated with the account, which will be displayed on the phone screen.
 - Phone Number: Enter the extension number.
 - Account: Enter the registration name of the extension.
 - **Password**: Enter the registration password of the extension.
- d. In the **Proxy and Registration** section, enter the PBX server information.
 - Proxy Server: Enter the domain name of the PBX.
 - **Proxy Port**: Enter the SIP registration port of the PBX.
- 3. At the bottom of the page, click **Save & Apply**.

Result

The extension is registered successfully. You can check the registration status in the **Register status** field.

| Status | Netwo | rk | Wireless | SIP Acc | ount | Phone | Administration | |
|----------------------------|--------------------------|-----|------------|----------|------|-------|----------------|--|
| Line 1 | Line 2 | SIP | 9 Settings | VoIP QoS | Ring | | | |
| Basic Register S | Basic Register Status | | | | | | | |
| Register Status Registered | | | | | | | | |
| Basic Setup | | | | | | | | |
| Line En | able | | En | able 🖌 | | | | |

Mitel

Provision Mitel IP Phones with Yeastar P-Series Cloud Edition

This topic takes Mitel 6867i (firmware: 5.0.0.1018) as an example to describe how to provision a Mitel IP phone with Yeastar P-Series Cloud Edition.

Requirements and restrictions

Requirements

The firmwares of **Mitel IP phone** and **Yeastar PBX** meet the following requirements.

| Model | Phone Requirement | PBX Requirement |
|-------|--------------------|---------------------|
| 6863i | R5.1.0SP6 or later | 84.11.0.22 or later |
| 6865i | R5.1.0SP6 or later | 84.11.0.22 or later |
| 6867i | R5.1.0SP6 or later | 84.11.0.22 or later |
| 6869i | R5.1.0SP6 or later | 84.11.0.22 or later |
| 6873i | R5.1.0SP6 or later | 84.11.0.22 or later |
| 6920 | 6.3.1 SP1 or later | 84.11.0.22 or later |
| 6930 | 6.3.1 SP1 or later | 84.11.0.22 or later |
| 6940 | 6.3.1 SP1 or later | 84.11.0.22 or later |

Table 3.

Restrictions

The following features are NOT available on the provisioned Mitel IP phones:

- LDAP Directory
- Specific types of PBX function keys, including LDAP Directory, DTMF, Intercom and Park & Retrieve.

Scenarios

The provisioning methods and operations vary depending on your provisioning needs, as the following table shows:

| Scenario | Description |
|--|---|
| Provision a SINGLE Mitel IP phone | In this scenario, you can manually add a provisioning link provided by Yeastar PBX to the phone. In this way, the phone can retrieve configurations from the PBX using the given link. For more information, see <u>Manually provision a Mitel IP phone</u> . |
| Provision MULTIPLE Mitel IP phones | In this scenario, you can utilize DHCP option 66 to deliver the provisioning link offered by Yeastar PBX to the IP phones. In this way, the phones can retrieve configurations from the PBX using the given link. For more information, see <u>Auto Provision multiple Mitel IP phones</u> . |

Manually provision a Mitel IP phone

Prerequisites

- Make sure that you have <u>downloaded the template</u> for the desired phone model (Path: Auto Provisioning > Resource Repository > Default Templates).
- RESET the IP phone if it is previously used.
- Gather information of the IP phone, including Vendor, Model, and MAC address.

Procedure

- Step 1. Add the Mitel IP phone on PBX
- <u>Step 2. Configure provisioning server on the Mitel IP phone</u>
- <u>Step 3. Turn off certificate validation on the phone</u>

Step 1. Add the Mitel IP phone on PBX

Add the IP phone on PBX. The PBX will generate a configuration file based on the phone's MAC address.

- 1. Log in to PBX web portal, go to **Auto Provisioning > Phones**.
- 2. Click **Add > Add**.
- 3. In the **IP Phone** section, enter the following phone information.

| IP Phone | | | |
|---------------|--------|---------|---|
| * Vendor | | * Model | |
| Mitel | \sim | 6867i | ~ |
| * MAC Address | | | |
| 0.0000000 | | | |

- Vendor: Select Mitel.
- Model: Select the phone model. In this example, select 6867i.
- MAC Address: Enter the MAC address of the IP phone.
- 4. In the **Options** section, configure the auto provision settings.

| Options | |
|------------------|--|
| * Template | Provisioning Link |
| YSDP_Mitel68XX V | https://docs.test.yeastarcloud.com:443/api/autoprovision/gVvUsLAE |
| | Please copy this Provisioning Link, then set up the link to where your IP phones can fetch the configuration files. |

• Template: Select a desired template from the drop-down list.



You can select the default template corresponding to the phone model, or customize your own template. For more information, see <u>Create a Custom Auto Provisioning Template</u>.

• **Provisioning Link**: A provisioning link is automatically generated, which points to the location where the phone's configuration file is stored.



Note down the provisioning link, as you will use it later.

5. In the **Assign Extension** section, assign an extension to the IP phone.

| * Salaat Extension | | |
|--------------------|--------|--|
| · Select Extension | | |
| 3000-Leo Ball | \vee | |

7 Tip:

If your desired extension is not listed in the drop-down list, it indicates that the extension has been associated with an IP phone.

- To release the extension from the associated IP phone, see <u>Release an Extension from a Provisioned IP Phone</u>.
- To register the extension to the phone without releasing it from the previously associated one, you need to <u>config-</u> <u>ure the concurrent registration setting for the extension</u>, as the PBX only allows an extension to register with one SIP endpoint by default.
- 6. Click **Save**.

Step 2. Configure provisioning server on the Mitel IP phone

Manually configure provisioning server in the Mitel IP phone's web interface using the provisioning link provided by the PBX.

1. Log in to the web interface of the Mitel IP phone.

| $\leftrightarrow \rightarrow \mathbb{C}$ (0 192.168.28.205 a) |
|---|
| - |
| Sign in http://192.168.28.205 Your connection to this site is not private Username admin Password |

- a. In the browser's address bar, enter the IP address of the IP phone.
- b. Enter the username admin and the associated password.

In this example, enter the default password 22222.

- c. Click Sign in.
- 2. On the left navigation bar, go to **Advanced Settings > Configuration Server**, then complete the following settings:
 - a. In the Download Protocol drop-down list, select HTTPS.

| Configuration Server Settings | | |
|-------------------------------|---------|------|
| Settings | | _ |
| Download Protocol | HTTPS 🗸 | |
| Primary Server | TFTP | .102 |
| Pri TFTP Path | HTTP | |
| Alternate Server | | |

b. Enter the provisioning link in the corresponding fields:

| HTTPS Server | docs.test.yeastarcloud.com |
|--------------|----------------------------|
| HTTPS Path | api/autoprovision/gVvUsLAE |
| HTTPS Port | 443 |

- HTTPS Server: Enter the domain name of the PBX. In this example, enter docs.test.yeastarcloud.com.
- HTTPS Path: Enter the HTTPS path provided in the URL. In this example, enter api/autoprovision/gVvUsLADybIdHwPX.
- **HTTPS Port**: Enter the HTTPS port of the PBX. In this example, enter 443.
- c. Click Save Settings.

Step 3. Turn off certificate validation on the phone

Some older Mitel phones don't have certain necessary certificates, so they would not be able to download configuration files from the PBX due to the certification validation issue. In this case, you have to turn off the certificate validation on the IP phone to bypass the authentication between the PBX and the phone.

Important:

It is strongly recommended that you use a trusted certificate, as disabling server validation may introduce security risks on the network.

1. On the IP phone web interface, go to Advanced Settings > Network > HTTPS Settings, disable Validate Certificates.

| Status | | |
|-----------------------------|-------------------------------------|--------------------|
| System Information | Network Settings | |
| License Status | | |
| Operation | Basic Network Settings | |
| Oser Password Dhono Look | DHCP | Enabled |
| Softkovs and YMI | IP Address | 192.168.28.205 |
| Keynad Speed Dial | Subnet Mask | 255.255.255.0 |
| Directory | Gateway | 192.168.28.1 |
| Reset | Primary DNS | 223.5.5.5 |
| Basic Settings | Secondary DNS | 8888 |
| Preferences | Hostnamo | 6967 |
| Account Configuration | LAN Dort | Auto Negotiation |
| Custom Ringtones | DO Dat Desether Feekle (Disable | |
| Advanced Settings | PC Port Pass I hru Enable/Disable | Enabled |
| Network | PC Port | Auto Negotiation V |
| Global SIP | | |
| Line 1 | Advanced Network Settings | |
| Line 2 | DHCP Download Option | Any 🗸 |
| Line 4 | LLDP | Enabled |
| Line 5 | LLDP packet interval | 30 |
| Line 6 | NATIP | |
| Line 7 | NAT SIP Port | 51620 |
| Line 8 | NAT DTD Dect | 51020 |
| Line 9 | NAL RTP POIL | 51720 |
| Line 10 | Rport (RFC 3581) | Enabled |
| Line 11 | HTTPS Softings | |
| Line 12 | HTTPS Securitys | |
| Line 13 | | |
| Line 15 | HTTPS Server - Block XML HTTP POSTs | Enabled |
| Line 16 | Client Method | TLS Preferred V |
| Line 17 | Validate Certificates | Enabled |
| Line 18 | Check Certificate Expiration | Enabled |
| Line 19 | Check Certificate Hostnames | Enabled |
| Line 20 | Trusted Certificates Filename | |
| Line 21 | Indited Continentes FileHallie | |

- 2. Click Save Settings.
- 3. Reboot the phone manually.

Result

- After the IP phone is rebooted, it automatically downloads the configurations from the PBX and applies the settings.
- The extension is successfully registered on the IP phone. You can check the registration status on Auto Provisioning > Phone on the PBX web portal.



Auto Provision multiple Mitel IP phones

Prerequisites

• Make sure that there is only one DHCP server in the subnet where the IP phones are deployed, or the IP phones may fail to obtain IP addresses.

- Make sure that you have <u>downloaded the template</u> for the desired phone model (Path: Auto Provisioning > Resource Repository > Default Templates).
- RESET the IP phone if it is previously used.
- Gather information of IP phone, including Vendor, Model, and MAC address.

Procedure

- Step 1. Add the IP phone on the PBX
- <u>Step 2. Configure DHCP option 66 on DHCP server</u>
- <u>Step 3. Turn off certificate validation on the phone</u>

Step 1. Add the IP phone on the PBX

Add the IP phone on PBX. The PBX will generate a configuration file based on the phone's MAC address.

- 1. Log in to PBX web portal, go to **Auto Provisioning > Phones**.
- 2. Click **Add > Add**.
- 3. In the **IP Phone** section, enter the following phone information.

| IP Phone | | | |
|---------------|---|---------|---|
| * Vendor | * | Model | |
| Mitel ~ | | 6867i v | / |
| * MAC Address | | | |
| BBSCN6 | | | |
| | | | |

- Vendor: Select Mitel.
- Model: Select the phone model. In this example, select 6867i.
- MAC Address: Enter the MAC address of the IP phone.
- 4. In the **Options** section, configure the auto provision settings.

| Options | | |
|----------------|---|--|
| * Template | | Provisioning Link |
| YSDP_Mitel68XX | ~ | https://docs.test.yeastarcloud.com:443/api/autoprovision/gVvUsLAE |
| | | Please copy this Provisioning Link, then set up the link to where your IP phones can fetch the configuration files. |

• Template: Select a desired template from the drop-down list.



You can select the default template corresponding to the phone model, or customize your own template. For more information, see <u>Create a Custom Auto Provisioning Template</u>.

• **Provisioning Link**: A provisioning link is automatically generated, which points to the location where the phone's configuration file is stored.



5. In the Assign Extension section, assign an extension to the IP phone.

| * Select Extension | |
|--------------------|--------|
| 3000-Leo Ball | \vee |

| т | ΪD |
|---|-----|
| | . 6 |

1

If your desired extension is not listed in the drop-down list, it indicates that the extension has been associated with an IP phone.

- To release the extension from the associated IP phone, see <u>Release an Extension from a Provisioned IP Phone</u>.
- To register the extension to the phone without releasing it from the previously associated one, you need to <u>config-</u> <u>ure the concurrent registration setting for the extension</u>, as the PBX only allows an extension to register with one SIP endpoint by default.
- 6. Click **Save**.

Step 2. Configure DHCP option 66 on DHCP server

In the subnet where the IP phone is deployed, use the generated provisioning link to configure option 66 on the DHCP Server.

1. On PBX web portal, copy the provisioning link from the phone's detail page.

| Options | | |
|----------------|--------|---|
| Template | | Provisioning Link |
| YSDP_Mitel68XX | \vee | https://docs.test.yeastarcloud.com:443/api/autoprovision/gVvUsLAE |
| | | Please copy this Provisioning Link, then set up the link to where your IP |

2. On the DHCP server, set up DHCP option 66 with the provisioning link.

In this example, the configuration is shown below.

| Interfaces » LAN | |
|--|-------------|
| General Settings Advanced Settings Firewall Settings DHCP Server | |
| General Setup Advanced Settings IPv6 Settings IPv6 RA Settings | |
| Dynamic <u>DHCP</u> ② Dynamically allocate DHCP addresses for clients. If disabled, only clients having static leases will be served | 1. |
| Force Group Force DHCP on this network even if another server is detected. | |
| IPv4-Netmask 255.255.255.0 Override the netmask sent to clients. Normally it is calculated from the subnet that is served. | |
| DHCP-Options 6,223.5.5.5 × 66,https://docs.test.yeastarcloud.com:443/api/autoprovision/gVv UsLADybIdHwPX + | |
| Define additional DHCP options, for example "6,192.168.2.1,192.168.2.2" which advertises different E servers to clients. Dismiss |)NS Save |
| | |

Step 3. Turn off certificate validation on the phone

Some older Mitel phones don't have certain necessary certificates, so they would not be able to download configuration files from the PBX due to the certification validation issue. In this case, you have to turn off the certificate validation on the IP phone to bypass the authentication between the PBX and the phone.

Important:

It is strongly recommended that you use a trusted certificate, as disabling server validation may introduce security risks on the network.

1. Log in to the web interface of the Mitel IP phone.

| $\leftarrow \rightarrow \mathbf{C}$ (0 192.168.28.205 a) | |
|--|---|
| | Sign in http://92.168.28.205 Your connection to this site is not private Username admin Password Sign in C ncel |

- a. In the browser's address bar, enter the IP address of the IP phone.
- b. Enter the username admin and the associated password.

In this example, enter the default password 22222.

- c. Click Sign in.
- 2. On the IP phone web interface, go to Advanced Settings > Network > HTTPS Settings, disable Validate Certificates.

| Network Settings | |
|---------------------------------------|---|
| 5 | |
| Basic Network Settings | |
| DHCP | Enabled |
| IP Address | 192.168.28.205 |
| Subnet Mask | 255.255.255.0 |
| Gateway | 192,168,28,1 |
| Primary DNS | 223 5 5 5 |
| Secondary DNS | 8 8 8 8 |
| Hesterne | 6967 |
| | 00071 |
| LAN POIL | |
| PC Port Pass I hru Enable/Disable | Enabled |
| PC Port | Auto Negotiation |
| | |
| Advanced Network Settings | |
| DHCP Download Option | Any 🗸 |
| LLDP | Z Enabled |
| LI DP nacket interval | 30 |
| NAT ID | 30 |
| | 0.0.0 |
| NAT SIP Port | 51620 |
| NAT RTP Port | 51720 |
| Rport (RFC 3581) | Enabled |
| | |
| HTTPS Settings | |
| HTTPS Server - Redirect HTTP to HTTPS | Enabled |
| HTTPS Server - Block XML HTTP POSTs | Enabled |
| Client Method | TLS Preferred V |
| Validate Certificates | Enabled |
| Check Certificate Expiration | Enabled |
| Chock Contificate Hostnamos | Enabled |
| | Enabled |
| Trusted Certificates Filename | |
| | Network Settings DHCP IP Address Subnet Mask Gateway Primary DNS Secondary DNS Hostname LAN Port PC Port PassThru Enable/Disable PC Port Advanced Network Settings DHCP Download Option LLDP LLDP packet interval NAT IP NAT SIP Port NAT SIP Port Rport (RFC 3581) HTTPS Seriver - Redirect HTTP to HTTPS HTTPS Seriver - Block XML HTTP POSTS Cleint Method Validate Certificates Check Certificate Expiration Check Certificate Expiration Check Certificate Hostnames |

- 3. Click Save Settings.
- 4. Reboot the phone manually.

Result

- After the IP phone is rebooted, it gets an IP address from the DHCP server, downloads the configurations from the PBX via the provisioning link, and applies the settings automatically.
- The extension is successfully registered on the IP phone. You can check the registration status on Auto Provisioning > Phone on the PBX web portal.

| Status | Extension | Name | Vendor 🌲 | Model 🌲 | Phone Password | Operations | 7 |
|--------|-----------|----------|----------|---------|----------------|-------------------------|---|
| ۶, | 3000 | Leo Ball | Mitel | 6867i | ********@ | 2 0 v | |

Manually Register Mitel IP Phone with Yeastar P-Series Cloud Edition

This topic takes Mitel 6867i (firmware: 5.0.0.1018) as an example to introduce how to manually register an extension on a Mitel IP phone.

Supported devices

The Mitel IP phones that are compatible with SIP (Session Initiation Protocol).

Procedure

- <u>Step 1. Gather registration information on Yeastar PBX</u>
- Step 2. Register extension on Mitel IP phone

Step 1. Gather registration information on Yeastar PBX

Log in to PBX web portal, gather the following information for extension registration.

| Information | Instruction |
|-----------------------|--|
| Extension information | Go to Extension and Trunk > Extension > ∠ > User > Extension Information, note down the following information: • Extension Number • Caller ID • Registration Name • Registration Password |

| Information | Instruction | |
|--------------------|--|---------------|
| | Extension Information | |
| | * Extension Number * Caller ID 3000 39-3000 * Registration Name * Registration Resourced | |
| | Kegistration Name Kegistration Password G2T8I8GIrv | × B O |
| | IP Phone Concurrent Registrations 1 V | |
| Transport protocol | Go to Extension and Trunk > Extension > 🖉 > Advanced > VoIP Settings > Transport, note down the transport protocol of the extension. In this example, the extension use UDP transport protocol. | |
| | User Presence Voicemail Features Advanced Security Linkus Clients Phone VoIP Settings | Function Keys |
| | DTMF Mode Transport RFC4733 (RFC2833) V UDP | ~ |
| | Note: If the extension uses TCP transport protocol, make sure that the SIP TCP port is enabled on the PBX, or the registration would fail (Path: PBX Settings > SIP Settings > General > Basic). | |
| | Basic * SIP UDP Port * SIP TCP Port 5060 \$ 5060 * RTP Port Range * Outbound SIP Port Range 18256 : 18356 5062 | * 5082 |
| | If the extension uses TLS transport protocol, make sure that the TLS is enabled on the PBX, or the registration would fail (Path: PBX Settings > SIP Settings > TLS). Image: SIP TLS Port Image: SIP TLS | |

| Information | Instruction |
|-----------------------|---|
| PBX domain name | The domain name of the PBX. |
| | In this example, we use the PBX domain name docs.example.yeastarcloud.com for extension registration. |
| SIP registration port | The SIP registration port is 5060. |

Step 2. Register extension on Mitel IP phone

1. Log in to the web interface of the Mitel IP phone.

| ♥ 192.168.28.205 × + | | |
|----------------------------|---|---|
| ← → C (0 192.168.28.205) a | | |
| | Sign in http://192.168.28.205 Your connection to this site is not private Username admin Password | Þ |
| | Sign in C ncel | |

- a. In the browser's address bar, enter the IP address of the IP phone.
- b. Enter the username admin and the associated password.

In this example, enter the default password 22222.

- c. Click Sign in.
- 2. On the left navigation bar, go to Advanced Settings, then select an available line.



- 3. Complete the registration configurations.
 - a. In the **Basic SIP Authentication Settings** section, enter the extension information.

| Basic SIP Authentication Settings | |
|-----------------------------------|------------|
| Screen Name | Leo Ball |
| Screen Name 2 | |
| Phone Number | 3000 |
| Caller ID | 39-3000 |
| Authentication Name | birKhcOMdW |
| Password | ••••• |
| BLA Number | |
| | |
| Line Mode | Generic V |

- Screen Name: Enter the name associated with the account, which will be displayed on the phone screen.
- Phone Number: Enter the extension number.
- **Caller ID**: Optional. Enter the caller ID number of the extension, which will be displayed on the callee's device.
- Authentication Name: Enter the registration name of the extension.
- **Password**: Enter the registration password of the extension.
- b. In the **Basic SIP Network Settings** section, enter the PBX server information and set the registration period.

| Basic SIP Network Settings | |
|------------------------------|---------------------------|
| Proxy Server | docs.example.yeastarcloud |
| Proxy Port | 5060 |
| Backup Proxy Server | 0.0.0.0 |
| Backup Proxy Port | 0 |
| Outbound Proxy Server | 0.0.0.0 |
| Outbound Proxy Port | 0 |
| Backup Outbound Proxy Server | 0.0.0.0 |
| Backup Outbound Proxy Port | 0 |
| Registrar Server | docs.example.yeastarcloud |
| Registrar Port | 5060 |
| Backup Registrar Server | 0.0.0.0 |
| Backup Registrar Port | 0 |
| Registration Period | 1800 |
| Conference Server URI | |

• Proxy Server: Enter the domain name of the PBX.

- Proxy Port: Enter the SIP registration port of the PBX.
- Registrar Server: Enter the domain name of the PBX.
- Registrar Port: Enter the SIP registration port of the PBX.
- **Registration Period**: Optional. Set the registration period.

Tip:

You can check the available range of the registration time on **PBX Settings > SIP Settings > General > SIP Endpoint Registration Timer** in the PBX web portal.

- 4. Click Save Settings.
- 5. Reboot the IP phone to make the configurations take effect.

Result

The extension is registered successfully. You can check the registration status on **Status > System Information > SIP Status** on the phone's web interface.

| SIP Status | | | |
|------------|--------------------------------|------------|------------------------|
| Line | SIP Account | Status | Backup Registrar Used? |
| 1 | 3000@docs.example.yeastarcloud | Registered | No |

Dinstar

Manually Register Dinstar IP Phone with Yeastar P-Series Cloud Edition

This topic takes Dinstar C60S (firmware: 2.60.11.7.0) as an example to introduce how to manually register an extension on a Dinstar IP phone.

Supported devices

The Dinstar IP phones that are compatible with SIP (Session Initiation Protocol).

Procedure

- Step 1. Gather registration information on Yeastar PBX
- Step 2. Register extension on Dinstar IP phone

Step 1. Gather registration information on Yeastar PBX

Log in to PBX web portal, gather the following information for extension registration.

| Information | Instruction | | |
|-----------------------|---|--|----|
| Extension information | Go to Extension and Trunk > Extension > Information, note down the following inform • Extension Number • Registration Name • Registration Password | Vser > Extension ation: | |
| | Extension Information | | |
| | * Extension Number | * Caller ID | |
| | 3000 | 39-3000 | |
| | * Registration Name | * Registration Password | |
| | birKhC0MdW | | 10 |
| | IP Phone Concurrent Registrations 1 V | | |
| Transport protocol | Go to Extension and Trunk > Extension > Settings > Transport, note down the transp | Advanced > VoIP For protocol of the extension. | |

| Information | Instruction |
|-----------------------|--|
| | In this example, the extension use UDP transport protocol. |
| | User Presence Voicemail Features Advanced Security Linkus Clients Phone Function Keys |
| | VoIP Settings |
| | DTMF Mode Transport RFC4733 (RFC2833) V UDP V |
| | Note: • If the extension uses TCP transport protocol, make sure that the SIP TCP port is enabled on the PBX, or the registration would fail (Path: PBX Settings > SIP Settings > General > Basic). Basic • SP UDP Port • SP UDP Port |
| PBX domain name | The domain name of the PBX. |
| | In this example, we use the PBX domain name docs.example.yeastarcloud.com for extension registration. |
| SIP registration port | The SIP registration port is 5060. |

Step 2. Register extension on Dinstar IP phone

1. Log in to the web interface of the Dinstar IP phone.

| 📀 ceos × + | | | ~ - o × |
|---|-----------|----------------------------|---------|
| $\leftrightarrow \rightarrow \mathbf{C}$ a 192.168.28.192 | | | ** 🖬 🗄 |
| DINSTAR | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | b Usernai | | |
| | Passwo | | |
| | Langua | Remember Username/Password | |
| | | C Login | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| 4 | | | |

- a. In the browser's address bar, enter the IP address of the IP phone.
- b. Enter the username admin and the associated password.

In this example, enter the default password admin.

- c. Click Login.
- 2. Go to **Account > Basic**, complete the registration configurations.

| DINSTAR | Status | Account | Network | Phone | PhoneBook | Upgrade | Security | |
|----------|--------|---------|--------------|---------|-----------|---------|---------------------|-------------|
| L Basic | | SI | P Account | | | | | |
| Advanced | | | Status | | | Dis | abled | |
| Codecs | | | Account | | | Ac | count1 ~ |] |
| | | | Active | | | Er | nabled 🗸 🗸 |] |
| | | | Display Labe | I | | Le | o Ball | |
| | | | Display Name | e | | | | |
| | | | Register Nan | ne | | bir | rKhcOMdW | |
| | | | Username | | | 30 | 000 | |
| | | | Password | | | •• | ••••• | |
| | | SI | P Server 1 | | | | | |
| | | | Server IP | | | do | cs.example.yeastarc | Port 5060 |
| | | | Registration | Expires | | 60 | 0 | (30~65535s) |

- a. In the **Account** drop-down list, select an available account.
- b. In the Active drop-down list, select Enabled.
- c. Enter the extension information.

- **Display Label**: Enter the name associated with the account, which will be displayed on the phone screen.
- Register Name: Enter the registration name of the extension.
- Username: Enter the extension number.
- Password: Enter the registration password of the extension.
- d. Enter the PBX server information.
 - Server IP: Enter the domain name of the PBX.
 - Port: Enter the SIP registration port of the PBX.
- 3. Click **Submit**.

Result

The extension is registered successfully. You can check the registration status in the **Status** field.

| DINSTAR | Status | Account | Network | Phone | PhoneBook | Upgrade | Security |
|----------|--------|---------|---------------|-------|-----------|---------|---------------------|
| Basic | | SI | P Account | | | | |
| Advanced | | | Status | | | Re | gistered |
| Codecs | | | Account | | | A | ccount1: Leo Ball 🗸 |
| | | | Active | | | E | nabled 🗸 |
| | | | Display Label | | | Le | eo Ball |
| | | | Display Name | e | | | |
| | | | Register Nam | ie | | bi | rKhcOMdW |
| | | | Username | | | 30 | 000 |
| | | | Password | | | •• | ••••• |
| | | | | | | | |

Poly

Auto Provision Poly IP Phone with Yeastar P-Series Cloud Edition

This topic takes Poly VVX_450 (firmware: 6.4.6.2494) as an example to introduce how to provision a Poly IP phone with Yeastar P-Series Cloud Edition.

Requirements

| Model | Phone Requirement | PBX Requirement |
|-----------|----------------------|---------------------|
| Edge_E100 | 8.0.0.15602 or later | 84.15.0.22 or later |
| Edge_E220 | 8.0.0.15602 or later | 84.15.0.22 or later |
| Edge_E300 | 8.0.0.15602 or later | 84.15.0.22 or later |
| Edge_E320 | 8.0.0.15602 or later | 84.15.0.22 or later |
| Edge_E350 | 8.0.0.15602 or later | 84.15.0.22 or later |
| Edge_E400 | 8.0.0.15602 or later | 84.15.0.22 or later |
| Edge_E450 | 8.0.0.15602 or later | 84.15.0.22 or later |
| Edge_E500 | 8.0.0.15602 or later | 84.15.0.22 or later |
| Edge_E550 | 8.0.0.15602 or later | 84.15.0.22 or later |
| VVX_101 | 6.4.3.5059 or later | 84.15.0.22 or later |
| VVX_201 | 6.4.3.5059 or later | 84.15.0.22 or later |
| VVX_301 | 6.4.3.5059 or later | 84.15.0.22 or later |
| VVX_311 | 6.4.3.5059 or later | 84.15.0.22 or later |
| VVX_401 | 6.4.3.5059 or later | 84.15.0.22 or later |
| VVX_411 | 6.4.3.5059 or later | 84.15.0.22 or later |
| VVX_501 | 6.4.3.5059 or later | 84.15.0.22 or later |
| VVX_601 | 6.4.3.5059 or later | 84.15.0.22 or later |
| VVX_150 | 6.4.3.5059 or later | 84.15.0.22 or later |
| VVX_250 | 6.4.3.5059 or later | 84.15.0.22 or later |

The firmwares of **Poly IP phone** and **Yeastar PBX** meet the following requirements.

| Model | Phone Requirement | PBX Requirement |
|---------|---------------------|---------------------|
| VVX_350 | 6.4.3.5059 or later | 84.15.0.22 or later |
| VVX_450 | 6.4.3.5059 or later | 84.15.0.22 or later |

Prerequisites

- Make sure that you have <u>downloaded the template</u> for the desired phone model (Path: Auto Provisioning > Resource Repository > Default Templates).
- RESET the IP phone if it is previously used.
- Gather information of the IP phone, including Vendor, Model, and MAC address.

Procedure

- 1. Log in to PBX web portal, go to **Auto Provisioning > Phones**.
- 2. Click Add > Add.
- 3. In the IP Phone section, enter the following phone information.

| IP Phone | | | |
|---------------|--------|---------|--------|
| * Vendor | | * Model | |
| Poly | \sim | VVX_450 | \sim |
| * MAC Address | | | |
| | | | |

- Vendor: Select Poly.
- Model: Select a phone model. In this example, select VVX_450.
- MAC Address: Enter the MAC address of the IP phone.
- 4. In the **Option** section, configure the following settings.

| Options | | |
|--------------|--------------|---|
| * Template | | Provisioning Link |
| YSDP_PolyVVX | \checkmark | https://docs.example.yeastarcloud.com:443/api/autoprovision/grobc 🗈 |

• Template: Select a desired template from the drop-down list.



You can select the default template corresponding to the phone model, or customize your own template. For more information, see <u>Create a</u> <u>Custom Auto Provisioning Template</u>.

- **Provisioning Link**: A provisioning link is automatically generated, which points to the location where the phone's configuration file is stored.
- 5. In the **Assign Extension** section, assign an extension to the IP phone.

| * Select Extension | |
|--------------------|--------|
| 3000-Leo Ball | \vee |

i Tip:

If your desired extension is not listed in the drop-down list, it indicates that the extension has been associated with an IP phone.

- To release the extension from the associated IP phone, see <u>Release an</u> <u>Extension from a Provisioned IP Phone</u>.
- To register the extension to the phone without releasing it from the previously associated one, you need to <u>configure the concurrent registra-</u> <u>tion setting for the extension</u>, as the PBX only allows an extension to register with one SIP endpoint by default.

6. Click Save.

The PBX will send an event notification of RPS Request Success.

7. Manually reboot the IP phone.

Result

- The IP phone automatically downloads the configurations from the PBX and applies the settings.
- The extension is successfully registered on the IP phone. You can check the registration status on **Auto Provisioning > Phone** on the PBX web portal.

| Status | Extension | Name | Vendor 🍦 | Model 🌲 | Phone Password | Operations | 7 |
|--------|-----------|----------|----------|---------|----------------|-------------------------|---|
| 2 | 3000 | Leo Ball | Poly | VVX_450 | ********@ | ∠ ⊘ ∨ | |

Manually Register Poly IP Phone with Yeastar P-Series Cloud Edition

This topic takes Poly VVX_450 (firmware: 6.4.6.2494) as an example to introduce how to manually register an extension on a Poly IP phone.

Supported devices

The Poly IP phones that are compatible with SIP (Session Initiation Protocol).

Procedure

- <u>Step 1. Gather registration information on Yeastar PBX</u>
- Step 2. Register extension on Poly IP phone

Step 1. Gather registration information on Yeastar PBX

Log in to PBX web portal, gather the following information for extension registration.

| Information | Instruction | | |
|-----------------------|---|---|-------|
| Extension information | Go to Extension and Trunk > Extension > 🖉 > Information, note down the following information: • Extension Number • Registration Name • Registration Password | • User > Extension | |
| | Extension Information * Extension Number 3000 * Registration Name birKhCOMdW IP Phone Concurrent Registrations 1 | Caller ID 39-3000 Registration Password | ₩ @ O |
| Transport protocol | Go to Extension and Trunk > Extension > Settings > Transport , note down the transport pro In this example, the extension use UDP transport pr | • Advanced > VoIP otocol of the extension. rotocol. | |

| Information | Instruction |
|-----------------------|--|
| | User Presence Voicemail Features Advanced Security Linkus Clients Phone Function Keys |
| | VolP Settings DTMF Mode RFC4733 (RFC2833) UDP Image: Comparison of the setting |
| PBX domain name | 18256 : 18356 5062 : 5082 • If the extension uses TLS transport protocol, make sure that the TLS is enabled on the PBX, or the registration would fail (Path: PBX Settings > SIP Settings > TLS). Image: Start of the the text of text |
| | In this example, we use the PBX domain name docs.example.yeastarcloud.com for extension registration. |
| SIP registration port | The SIP registration port is 5060. |

Step 2. Register extension on Poly IP phone

- 1. Enable the web server on the IP phone.
 - a. Press û on the phone to access the **Main Menu**.
 - b. Go to **Settings > Advanced**.

c. In the Enter Password field, enter the administrator password, then press Enter.

In this example, enter the default administrator password 456.

d. Go to Administration Settings > Web Server Configuration, and complete the following settings.



• Web Server: Select Enabled.

• Web Config Mode: Select the protocol according to your network requirements.



Note:

If you select HTTPS Only, you need to add a prefix ${\tt https://}$ to the beginning of the IP address when accessing the phone's web interface.

e. Press the Back button, and select Save Config.

The phone reboots automatically. After that, you can access the web interface of the phone.

2. Log in to the web interface of the Poly IP phone.



- a. In the browser's address bar, enter the IP address of the IP phone.
- b. Log in to your phone account.

In this example, select the **Admin** account and enter the default administrator password 456.

- c. Click Submit.
- 3. At the top navigation bar, go to **Settings > Lines**.
- 4. Select a Line and complete the following settings.
 - a. In the **Identification** section, enter the basic information of the extension.

| ροίγ vvx 450 | | |
|-------------------------------|-----------------------|--------------------|
| Home Simple Setup Preferences | Settings Diagnostics | Utilities |
| | | |
| VIEWS | Line 3 | |
| Line 1 | 📕 Identificatio | on |
| Line 2 | Display Name | |
| Line 3 | Address | 3000 |
| Line 4 | Label | Leo Ball |
| Line 5 | Туре | Private O Shared |
| Line 6 | Third Party Name | |
| Line 7 | Number of Line Keys | 1 |
| Line 8 | Calls Per Line | 24 |
| Line 9 | Enable SRTP | • Yes O No |
| Line 10 | Offer SRIP | Ves No |
| Line 11 | Server Auto Discovery | Fnable Disable |
| | | |

- Address: Enter the extension number.
- Label: Enter the name associated with the account, which will be displayed on the phone screen.

b. In the **Authentication** section, enter the registration information of the extension.



- User ID: Enter the registration name of the extension.
- **Password**: Enter the registration password of the extension.
- c. In the **Server 1** section, enter the PBX information.

| Server 1 | |
|------------------------|---------------------------|
| Special Interop | Standard 🗸 |
| Address | docs.example.yeastarcloud |
| Port | 5060 |
| Transport | UDPOnly 🗸 |
| Expires (s) | 3600 |
| Subscription Expires (| 3600 |
| Register | 💿 Yes i 🔘 No |
| Retry Timeout (ms) | 0 |
| Retry Maximum Count | 3 |
| Line Seize Timeout (s) | 30 |

- Special Interop: Select Standard.
- Address: Enter the domain name of the PBX.
- Port: Enter the SIP registration port of the PBX.
- **Transport**: Select the transport protocol of the extension.
- 5. At the bottom of the webpage, click **Save**.

Result

The extension is registered successfully. You can see \checkmark displayed at the extension account on the phone screen.

Wildix

Provision Wildix IP Phone with Yeastar P-Series Cloud Edition

This topic takes Wildix WP480R3 (firmware: 63.145.10.168) as an example to describe how to provision Wildix IP phone with Yeastar P-Series Cloud Edition.

Requirements

| Model | Phone Requirement | PBX Requirement |
|---------|------------------------|---------------------|
| WP410R2 | 50.145.6.169 or later | 84.15.0.22 or later |
| WP480R2 | 55.145.6.111 or later | 84.15.0.22 or later |
| WP480R3 | 63.145.10.168 or later | 84.15.0.22 or later |
| WP480R4 | 65.145.6.38 or later | 84.15.0.22 or later |
| WP490R2 | 59.145.6.148 or later | 84.15.0.22 or later |
| WP490R3 | 67.145.8.107 or later | 84.15.0.22 or later |

The firmwares of Wildix IP Phone and Yeastar PBX meet the following requirements.

Scenarios

The provisioning methods and operations vary depending on your provisioning needs, as the following table shows:

| Scenario | Description | |
|--|--|--|
| Provision a SINGLE Wildix IP phone | In this scenario, you can manually add a provisioning link provided by Yeastar PBX to the phone. In this way, the phone can retrieve configurations from the PBX using the given link. For more information, see <u>Manually provision a Wildix IP phone</u> . | |
| Provision MULTIPLE Wildix IP phones | In this scenario, you can utilize DHCP option 66 to deliver the provisioning link offered by Yeastar PBX to the IP phones. In this way, the phones can retrieve configurations from the PBX using the given link. For more information, see <u>Auto provision multiple Wildix IP phones</u> . | |

Manually provision a Wildix IP phone

Prerequisites

- Make sure that you have <u>downloaded the template</u> for the desired phone model (Path: Auto Provisioning > Resource Repository > Default Templates).
- RESET the IP phone if it is previously used.
- Gather information of the IP phone, including Vendor, Model, and MAC address.

Procedure

- Step 1. Add the Wildix IP phone on PBX
- Step 2. Configure provisioning server address on the phone

Step 1. Add the Wildix IP phone on PBX

Add the IP phone on PBX. The PBX will generate a configuration file based on the phone's MAC address.

- 1. Log in to PBX web portal, go to **Auto Provisioning > Phones**.
- 2. Click **Add > Add**.
- 3. In the **IP Phone** section, configure phone information as follows:

| IP Phone | | |
|---------------|---------|--------|
| * Vendor | * Model | |
| Wildix | WP480R3 | \vee |
| * MAC Address | | |
| | | |
| | | |

- Vendor: Select Wildix.
- Model: Select the phone model. In this example, select WP480R3.
- MAC Address: Enter the MAC address of the IP phone.
- 4. In the **Options** section, configure the following settings.

| Options | | |
|---------------|--------------|---|
| * Template | | Provisioning Link |
| YSDP_WildixWP | \checkmark | https://docs.test.yeastarcloud.com:443/api/autoprovision/gVvUsLAE |
| | | Please copy this Provisioning Link, then set up the link to where your IP phones can fetch the configuration files. |

• Template: Select a desired template from the drop-down list.



You can select the default template corresponding to the phone model, or customize your own template. For more information, see <u>Create a Custom Auto Provisioning Template</u>.

• **Provisioning Link**: A provisioning link is automatically generated, which points to the location where the phone's configuration file is stored.



Note down the provisioning link, as you will use it later.

5. In the Assign Extension section, assign an extension to the IP phone.

| Assign Extension | |
|--------------------|--------|
| * Select Extension | |
| 3000-Leo Ball | \sim |
| | |

Tip:

If your desired extension is not listed in the drop-down list, it indicates that the extension has been associated with an IP phone.

- To release the extension from the associated IP phone, see <u>Release an Extension from a Provisioned IP Phone</u>.
- To register the extension to the phone without releasing it from the previously associated one, you need to <u>config-</u> <u>ure the concurrent registration setting for the extension</u>, as the PBX only allows an extension to register with one SIP endpoint by default.
- 6. Click Save.

Step 2. Configure provisioning server address on the phone

Manually configure provisioning server for the Wildix IP phone using the provisioning link provided by the PBX.
1. Log in to the web interface of the Wildix IP phone.

| Ø IF Phone × + ← → C ▲ Not + O T192168.28.207/tcgl/do1/d=1 Wildix | | v – O X ∾ Q છે ☆ ★ O 🔮 : |
|---|--|-----------------------------|
| Login | User Name Password Penember Username/Password Cogin | 8 |

- a. In the browser's address bar, enter the IP address of the IP phone.
- b. Enter the username and the associated password.

In this example, enter the default username admin and password admin.

- c. Click Login.
- 2. On the left navigation bar, go to **Update > Advance > Manual Autop**.
- 3. In the **URL** field, paste the provisioning link.

| atus | | | |
|-------|---------------------------------|------------------------------------|--|
| | Update-Advanced | | Help |
| count | | PNP options | Note: |
| vork | PNP Config | Enabled V | Length. Max characters inbox: 255: Server address Directory |
| e | | DHCP options | 127: External directory URL & AUTOP Refresh server URL |
| te | Custom Options | (128~2 | 63: Rest of inbox 54) |
| | (DHCP Option 66/43 is enabled b | y default) | Attention: |
| nce | | Manual Autop | Field description: |
| ity | URL | https://docs.test.yeastarcloud.org | com:443/api/ar Submit Shortcut |
| | Username | | Submit Cancel |
| | Current Password | ••••• | |
| | Common AES Key | ••••• | |
| | AES Key(MAC) | ••••• | |

4. Click AutoP Immediate.

Result

Note:

Some IP phones will reboot automatically. If not, you need to manually reboot the phone to make the configurations take effect.

- After the IP phone is rebooted, it automatically downloads the configurations from the PBX and applies the settings.
- The extension is successfully registered on the IP phone. You can check the registration status on Auto Provisioning > Phone on the PBX web portal.

| | Status | Extension | Name | Vendor 🌲 | Model 🌲 | Phone Password | Operations | 7 |
|--|--------|-----------|----------|----------|---------|----------------|----------------|---|
| | 2 | 3000 | Leo Ball | Wildix | WP480R3 | *******@ | ∠ ⊚ 0 ∨ | |

Auto provision multiple Wildix IP phones

Prerequisites

- Make sure that there is only one DHCP server in the subnet where the IP phones are deployed, or the IP phones may fail to obtain IP addresses.
- Make sure that you have <u>downloaded the template</u> for the desired phone model (Path: Auto Provisioning > Resource Repository > Default Templates).
- RESET the IP phone if it is previously used.
- Gather information of the IP phone, including Vendor, Model, and MAC address.

Procedure

- Step 1. Add the IP phone on the PBX
- Step 2. Configure DHCP option 66 on the router

Step 1. Add the IP phone on the PBX

Add the IP phone on PBX. The PBX will generate a configuration file based on the phone's MAC address.

- 1. Log in to PBX web portal, go to Auto Provisioning > Phones.
- 2. Click **Add > Add**.
- 3. In the **IP Phone** section, configure phone information as follows:

| IP Phone | | |
|----------|---------|---|
| * Vendor | * Model | |
| wildix 🗸 | WP480R3 | V |
| | | |

- Vendor: Select Wildix.
- Model: Select the phone model. In this example, select WP480R3.
- MAC Address: Enter the MAC address of the IP phone.
- 4. In the **Options** section, configure the following settings.

| Options | | |
|---------------|--------|---|
| * Template | | Provisioning Link |
| YSDP_WildixWP | \vee | https://docs.test.yeastarcloud.com:443/api/autoprovision/gVvUsLAE 🗎 |
| | | Please copy this Provisioning Link, then set up the link to where your IP phones can fetch the configuration files. |

• Template: Select a desired template from the drop-down list.



Note:

You can select the default template corresponding to the phone model, or customize your own template. For more information, see Create a Custom Auto Provisioning Template.

 Provisioning Link: A provisioning link is automatically generated, which points to the location where the phone's configuration file is stored.



Note:

Note down the provisioning link, as you will use it later.

5. In the **Assign Extension** section, assign an extension to the IP phone.

| * Select Extension |
|--------------------|
| |
| 3000-Leo Ball V |

Tip:

If your desired extension is not listed in the drop-down list, it indicates that the extension has been associated with an IP phone.

- To release the extension from the associated IP phone, see <u>Release an Extension from a Provisioned IP Phone</u>.
- To register the extension to the phone without releasing it from the previously associated one, you need to <u>config-</u> <u>ure the concurrent registration setting for the extension</u>, as the PBX only allows an extension to register with one SIP endpoint by default.
- 6. Click Save.

Step 2. Configure DHCP option 66 on the router

In the subnet where the IP phone is deployed, use the generated provisioning link to configure option 66 on the DHCP Server.

1. On PBX web portal, copy the provisioning link from the phone's detail page.

| Options | | |
|---------------|--------|---|
| * Template | | Provisioning Link |
| YSDP_WildixWP | \vee | https://docs.test.yeastarcloud.com:443/api/autoprovision/gVvUsLAD |
| | | Please copy this Provisioning Link, then set up the link to where your IP |

2. On the DHCP server, set up option 66 with the provisioning link.

In this example, the configuration is shown below.

| General Settings Advanced Set | ttings Firewall Settings DHCP Server |
|-------------------------------|--|
| General Setup Advanced Setti | ngs IPv6 Settings IPv6 RA Settings |
| Dynamic <u>DHCP</u> | Opynamically allocate DHCP addresses for clients. If disabled, only clients having static leases will be served. |
| Force | Force DHCP on this network even if another server is detected. |
| <u>IPv4</u> -Netmask | 255.255.255.0 Override the netmask sent to clients. Normally it is calculated from the subnet that is served. |
| DHCP-Options | 6,223.5.5.5 × 66,https://docs.test.yeastarcloud.com:443/api/autoprovision/gVv × UsLADybIdHwPX |
| | Define additional DHCP options, for example "6,192.168.2.1,192.168.2.2" which advertises different DNS servers to clients. |

Result

Note:

Some IP phones will reboot automatically. If not, you need to manually reboot the phone to make the configurations take effect.

- After the IP phone is rebooted, it gets an IP address from the DHCP server, downloads the configurations from the PBX via the provisioning link, and applies the settings automatically.
- The extension is successfully registered on the IP phone. You can check the registration status on **Auto Provisioning > Phone** on the PBX web portal.

| Status | Extension | Name | Vendor 👙 | Model 👙 | Phone Password | Operations | 7 |
|--------|-----------|----------|----------|---------|----------------|----------------------|---|
| 2 | 3000 | Leo Ball | Wildix | WP480R3 | ********@ | ∠ ⊚ ⊖ ∨ | |

Manually Register Wildix IP Phone with Yeastar P-Series Cloud Edition

This topic takes Wildix WP480R3 (firmware: 63.145.10.168) as an example to introduce how to manually register an extension on a Wildix IP phone.

Supported devices

The Wildix IP phones that are compatible with SIP (Session Initiation Protocol).

Procedure

- Step 1. Gather registration information on Yeastar PBX
- Step 2. Register extension on Wildix IP phone

Step 1. Gather registration information on Yeastar PBX

Log in to PBX web portal, gather the following information for extension registration.

| | Instruction | |
|----------------------|---|------------------|
| xtension information | Go to Extension and Trunk > Extension > A User > Information , note down the following information: | • Extension |
| | Extension NumberRegistration NameRegistration Password | |
| | Extension Information | |
| | * Extension Number * Caller ID | |
| | 3000 39-3000 | |
| | * Registration Name * Registration Pas | assword |
| | birKbC0MdW | |
| | | |
| | IP Phone Concurrent Registrations | |
| | IP Phone Concurrent Registrations 1 V | |
| ransport protocol | Go to Extension and Trunk > Extension > 2 > Advance Settings > Transport, note down the transport protocol of In this example, the extension use UDP transport protocol. | the extension. |
| ansport protocol | IP Phone Concurrent Registrations 1 Go to Extension and Trunk > Extension > 2 > Advance Settings > Transport, note down the transport protocol of In this example, the extension use UDP transport protocol. User Presence Voicemail Features Advanced Security L | the extension. |
| ansport protocol | IP Phone Concurrent Registrations 1 Go to Extension and Trunk > Extension > 🖉 > Advance Settings > Transport, note down the transport protocol of In this example, the extension use UDP transport protocol. User Presence Voicemail Features Advanced Settings | f the extension. |
| ansport protocol | IP Phone Concurrent Registrations 1 Go to Extension and Trunk > Extension > 2 > Advance Settings > Transport, note down the transport protocol of In this example, the extension use UDP transport protocol. User Presence VoiP Settings DTMF Mode Transport | the extension. |

| Information | Instruction | |
|-----------------------|--|--|
| | If the extension uses TCP transport that the SIP TCP port is enabled or registration would fail (Path: PBX > General > Basic). | ort protocol, make sure on the PBX, or the Settings > SIP Settings |
| | Basic | |
| | * SIP UDP Port | * SIP TCP Port |
| | 5060 | 5060 |
| | * RTP Port Range * 18256 : 18356 | * Outbound SIP Port Range * |
| | would fail (Path: PBX Settings > | SIP Settings > TLS). |
| PBX domain name | The domain name of the PBX. In this example, we use the PBX domain name | registration. |
| SIP registration port | The SIP registration port is 5060. | <u> </u> |

Step 2. Register extension on Wildix IP phone

1. Log in to the web interface of the Wildix IP phone.

| ③ IP Phone × + | | | | \sim | - | 0 | × |
|---------------------------------|---|----|----|--------|---|---|-----|
| ← → C ▲ Not se a 192.168.28.207 | /fcgi/do?id=1 | 07 | Qß | \$ | * | • |) E |
| Wwile | dix | | _ | | | | - |
| | Login Ugin Page Login Page User Name Password C Login | | | | | | |

- a. In the browser's address bar, enter the IP address of the IP phone.
- b. Enter the username and the associated password.

In this example, enter the default username admin and password admin.

- c. Click Login.
- 2. At the left navigation bar, go to **Account > Basic**, then complete the following settings.
 - a. In the **SIP Account** section, configure an account.

| WWild | dix | |
|-----------|---------------------------|---------------------|
| ► Status | Account-Basic | |
| Account | | SIP Account |
| Basic | Status | UnRegistered |
| Advanced | Account Account Active | Account 3 Enabled |
| Network | Display Label | Leo Ball |
| | Display Name | |
| Phone | Register Name | birKhcOMdW |
| | User Name | 3000 |
| ► Upgrade | Password | ••••• |

- Account: Select an idle account.
- Account Active: Select Enable to activate the account.

- **Display Label**: Enter the name associated with the account, which will be displayed on the phone screen.
- Register Name: Enter the registration name of the extension.
- User Name: Enter the extension number.
- **Password**: Enter the registration password of the extension.
- b. In the SIP Server 1 section, enter the PBX information.

| | SIP Server 1 |
|---------------------|---------------------------------|
| Server IP | docs.example.yeastarc Port 5060 |
| Registration Period | 1800 (30~65535s) |

- Server IP: Enter the domain name of the PBX server.
- **Port**: Enter the SIP registration port.
- c. In the Transport Type section, select the transport protocol of the extension.

| | Transport Type |
|----------------|----------------|
| Transport Type | UDP ~ |

3. At the bottom of the page, click **Submit**.

Result

The extension is registered successfully. You can check the registration status on **SIP Ac-count > Status**.

| ount-Basic | | | |
|----------------|-------------|--|--|
| SIP Account | | | |
| Status | Registered | | |
| Account | Account 3 🗸 | | |
| Account Active | Enabled 🗸 | | |
| Display Label | Leo Ball | | |
| Display Name | | | |
| Register Name | birKhcOMdW | | |
| User Name | 3000 | | |
| Password | ••••• | | |