



Phone Provisioning

CooVox-U20/U50/U60/U100

1. General Introduction

Phone Provisioning is very useful function for company to configure the IP Phone quickly. To use this function, you need to record the MAC address, extension number and username of each IP Phone; when the phones connects to the local network, CooVox IP PBX will distribute SIP extension number and password to the phones.

Compatible IP Phone Brand & Models:

ZYCOO: CooFone-D30/ CooFone-D60

Grandstream: GXP280/ GXP1100/ GXP1160/ GXP1200/ GXP1400/ GXP1450/ GXP2100/
GXP2110/ GXP2120/ GXP2124

Yealink: T18/ T20/ T22/ T26/ T28/ T32/ T38/ VP530

Escene: HS108/ HS118/ CC800/ US102/ ES220/ ES290/ ES292/ ES320/ ES330/ ES410/ ES620...)

AkuVox: R21/ R23/ R25/ R27/ R50/ R51/ R52/ R53/ R59

Mocet: IP3032E (Default is PnP, also support TFTP(DHCP Option66));

Cisco: SPA303 (TFTP(DHCP Option66) only, DOES NOT support PnP);

When the auto-provision is finished, please do not modify extension login password or delete extension number; Otherwise, the phone provisioning will be invalid and IP Phone couldn't register to the PBX system.

Phone Provisioning supports two modes: DHCP and PnP.

2. Settings of Phone Provisioning

Click **Advanced**→**Phone Provisioning**→**Phones Settings**→ **New Phone** to see the following configuration dialog:

The screenshot shows a configuration window for a new phone. At the top, there are two tabs: 'Phones Settings' (selected) and 'PnP Settings'. Below the tabs is a 'List of Phones' table with one entry: ID 1, MAC 68692e0100d0. A 'New Phone' dialog box is open over this table. The dialog has a title bar with 'New Phone' and a close button 'X'. It contains the following fields:

- General**
 - Enable:
 - Manufacturer: Zycoo (dropdown)
 - Type: D30 (dropdown)
 - MAC: 68692e0100d0 (text input)
- Line**
 - Line1: 800 (dropdown)
 - Label: 800 (text input)

At the bottom of the dialog are 'Save' and 'Cancel' buttons.

Pic.1 Phone Provisioning

Item	Explanation
Enable	Enable Phone Provisioning by MAC
Manufacturer	Select the IP Phone Brand (Cannot change after saved)
Type	IP Phone Model
MAC	MAC address of IP Phone, please input without space.
Line1	Distribute the extension number Note: SIP extension is available to be distributed only; DO NOT modify extension password after distributed in case of any failure in registration; If extension password was modified, you need to save the phone provisioning information again.

After finished above setting, you can start DHCP or PnP Settings

2. 1 PnP Settings

Before using this mode, please ensure your phone support PnP.

Click **Advanced**→**Phone Provisioning**→**PnP Settings** to see the following dialog:

Plug and Play(PnP) Settings

Phones Settings
PnP Settings

Plug and Play(PnP) Settings

Enable:

Custom URL: _____

Multicasting Address: 224.0.1.175

Port: 5060

Save
Cancel

Pic.4 PnP

Item	Explanation
Enable	Enable PnP
Custom URL	Custom URL used in PnP function. E.g.: http://192.168.1.100:9999/phones/\${MAC}.conf Local address will be used if this option is disabled. (No need to configure normally)
Multicasting Address	Multicasting address for PnP, must be same as IP Phone(default 224.0.1.75)
Port	PnP port, must be same as the requirement port of IP Phone(default5060)

After settings of PnP, configure the IP address of IP Phone, and connect IP Phone to the same network of PBX.

After reboot, IP Phone will send PnP request automatically. Once received request, PBX will send configuration file to IP Phone; then IP Phone will be auto-provisioning, and reboot to activate.

Note: If multiple PBXs in same network enabled PnP Auto Provision, and use the same multicasting address and port, IP Phone will receive the configuration files from one PBX randomly. The file without MAC settings will lead to configuration failure; so you'd better configure the multiple broadcasting address and port. Take ZYCOO CooFone-D30 as example, modify the multiple broadcasting address and port of this IP Phone:

WE FOCUS.WE DELIVER

AUTO PROVISION SYSLOG CONFIG UPDATE ACC

BASIC
NETWORK
VOIP
PHONE
FUNCTION KEY
▶ MAINTENANCE
SECURITY
LOGOUT

Auto Provision Settings

Current Config Version 2.0002
Common Config Version 2.0002
CPE Serial Number 00100400XH020010000000010e597052
User
Password
Config Encryption Key
Common Config Encryption Key
Save Auto Provision Information

DHCP Option Settings >>

Plug and Play (PnP) Settings >>

Enable PnP
PnP Server 224.0.1.175
PnP Port 5060
PnP Transport UDP
PnP Interval 1 hour(s)

Phone Flash Settings >>

Apply

Pic. 5 IP Phone

Just modify the above red blank and save.

Note: If you used Auvovox IP Phone, you have to use custom URL, such as [http://192.168.1.100:9999/phones/\\${MAC}.conf](http://192.168.1.100:9999/phones/${MAC}.conf).

2. 2 DHCP Settings

To use this mode, please ensure you phone support DHCP OPTION 66

Click **Network Settings**→**DHCP Server** to enable DHCP service:

DHCP Server

DHCP Server Settings

Enable:

Start IP: 192.168.2.120

End IP: 192.168.2.200

Subnet Mask: 255.255.255.0

Gateway: 192.168.2.1

Primary DNS: 61.139.2.69

Lease Time(min): 10

TFTP Server: _____

Pic. 2 DHCP

Item	Explanation
Enable	Enable DHCP server
Start IP	Start IP
End IP	End IP
Subnet Mask	Subnet Mask
Gateway	Gateway must be in the same segment with Start IP
Lease Time (min)	Lease Time of IP
TFTP Server	Default is interface of IP PBX

If you need to distribute fixed IP for the IP Phone, you need to bundle IP in Static MAC. For details, please see the following dialog:

Static MAC

List of MACs

MAC Address	Options
1 68:69:2E:01:00:D0	<input type="button" value="Edit"/> <input type="button" value="Delete"/>

New Static MAC

MAC Address: 68:69:2E:01:00:D0

IP Address: 192.168.10.125

Pic.3 Static MAC

Item	Explanation
MAC Address	MAC address of IP Phone, separate by “:”
IP Address	Distributed IP address of the IP Phone

Note: After setting static IP, you need to re-enable DHCP to make the static MAC effective.

Then connect the IP Phone to the local network, Enable DHCP, click “Save”, “Activate”, and then reboot the IP Phone. After reboot, IP Phone will get the IP address from IP PBX automatically, read phone provisioning data and start phone provisioning. Then reboot the system to make it effective.

Note: When multiple IP PBXs are in a same network, IP Phone will get IP address from one of the IP PBX randomly if DHCP is enabled, and such phone provisioning may be invalid.