



Cisco IP Phone Configuration Guides

Version 1.0

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Introduction

This guide is applicable to CISCO IP 7940, IP7960, SPA 501G, 502G, 504G, 508G, 509G, 514G, 512G, 525G2.

Please Note:

This guide has been tested with firmware version 7.4.6. Be aware that different firmware versions may have different web interface formats and functionality. This is based on a new phone OR one that has been reset to factory defaults. If in doubt, reset the phone to Factory Defaults.

Register Cisco IP Phone with MyPBX Manually

1. Start up the phone and identify its IP Address – using the menu key on the phone, go to the "Network" option and press the "Select" button. For this example we will assume the IP Address of the phone is 192.168.5.126, and IP Address of the MyPBX machine is 192.168.5.150.
2. Point your browser to the web interface of the phone: <http://192.168.5.126>
3. Click on the "Admin Login" link, and next click on the "Advanced" link at the top of the page to the phone's advanced administration page



Figure 1-1

4. We now need to set the phone to register with MyPBX. Click on the "Ext1" tab, and configure as follows:
 - 1) Set the "Line Enable" field to "yes"

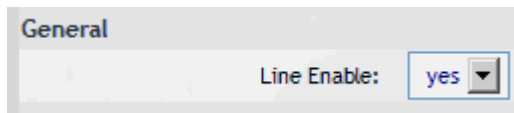


Figure 1-2

- 2) In the "Proxy and Registration" section, set the "Proxy" field to the IP Address of the MyPBX server – in this example, 192.168.5.150.



Figure 1-3

- 3) In the "Subscriber Information" section:

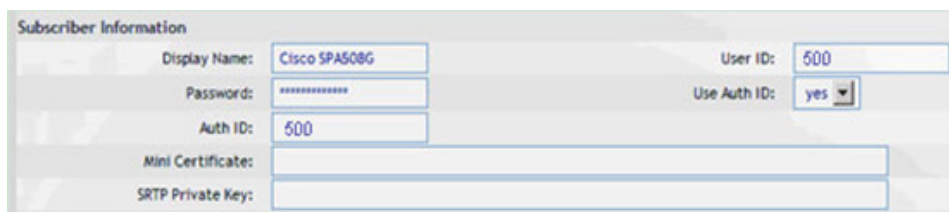


Figure 1-4

- Set the "Display Name" field to the name you want to appear on the Phone display
- Set the "User ID" field to the extension number you want to associate with this phone
- Set the "Password" field to the extension's Authentication Password
- Set the "Use Auth ID" field to "yes"
- Set the "Auth ID" field to the extension's Authentication ID In the "Dial Plan" section, set the "Dial Plan" field to "[x*]." (without the quotes)

Dial Plan	
Dial Plan:	[x*].
Caller ID Map:	
Enable IP Dialing:	yes
Emergency Number:	

Figure 1-5

5. Next, we need to configure the Voice Mail Number on the phone to be able to retrieve Voice Mail messages from MyPBX. Click on the "Phone" tab and set the "Voice Mail Number" field to Voice Mail Number you have set in MyPBX.
6. Next, we need to adjust the audio parameters. Click on the "SIP" tab and, in the "RTP Parameters" section, set the "RTP Packet Size" field to "0.020"

RTP Parameters			
RTP Port Min:	10000	RTP Port Max:	12000
RTP Packet Size:	0.020	Max RTP ICMP Err:	0
RTCP Tx Interval:	0	No UDP Checksum:	no
Symmetric RTP:	no	Stats In BYE:	no

Figure 1-6

Click the "Submit All Changes" button at the bottom of the page. Your phone will restart. After rebooting, the phone will register with the MyPBX. This can be verified via the "line Status" page of the MyPBX Management Console.

Configuration for Remote Extensions

If you want to configure the phone as a Remote Extension, you will need to ensure that the "Proxy" field is set to the Public IP Address of the PBX, and also perform the following configuration adjustments:

NAT Mapping Enable:	yes	NAT Keep Alive Enable:	yes
NAT Keep Alive Msg:	SNOTIFY	NAT Keep Alive Dest:	SPROXY

Figure 2-1

1. Go to the "Ext1" tab
2. Go to the "NAT Settings" section
3. Set the "NAT Mapping Enable" field to "yes"
4. Set the "NAT Keep Alive Enable" field to "yes"

Handle VIA received:	<input type="text" value="no"/>	Handle VIA rport:	<input type="text" value="yes"/>
Insert VIA received:	<input type="text" value="no"/>	Insert VIA rport:	<input type="text" value="yes"/>
Substitute VIA Addr:	<input type="text" value="no"/>	Send Resp To Src Port:	<input type="text" value="no"/>
STUN Enable:	<input type="text" value="yes"/>	STUN Test Enable:	<input type="text" value="no"/>
STUN Server:	<input type="text" value="stunserver.org"/>	EXT IP:	<input type="text"/>
EXT RTP Port Min:	<input type="text"/>	NAT Keep Alive Intvl:	<input type="text" value="15"/>

Figure 2-2

5. Go to the "SIP" tab
6. Go to the "NAT Support Parameters" section
7. Set the "Handle VIA rport" field to "yes"
8. Set the "Insert VIA rport" field to "yes"
9. Set the "STUN Enable" field to "yes"
10. Set the "STUN Server" field to "stunserver.org" – to allow the phone to discover its external IP Address, and the port mappings that will be applied to the traffic sent and received by the phone ,the default port is 5060 for TCP and 10000-12000 for RTP
11. Click the "Submit All Changes" button at the bottom of the page. Your phone will restart.

Provisioning for MyPBX

Important:

MyPBX supports phone provisioning for Cisco IP 7940, IP7960, SPA 501G, 502G, 504G, 508G, 509G, 514G, 512G, 525G2. This guide has been tested on Cisco IP 7940 with firmware version pos3.08.12.00. Be aware that different firmware versions may have different web interface formats and functionality. Here we guide you how to do phone provision for Cisco 7940/7960.

1. Verify Firmware Installed on your Phone

Make sure your Cisco 7940/7960 is configured to use the SIP protocol. By default these phones are configured to use the proprietary SCCP which only works with Cisco Call Manager.

2. Plug phone into the network

Plug your Cisco 7960/7940 IP phone into your LAN. (The Phone must be on the same LAN as that of MyPBX IP PBX).

3. Approve phone and Assign an Extension

To do provisioning with Cisco 7960/7940 IP phones, you need to set MyPBX working as the only DHCP server any more.

Step 1. Disable DHCP Server on your local network.

E.g. Disable DHCP Server on Linksys Router.

The screenshot shows the Linksys Basic Setup page for an Etherfast Cable/DSL Router (BEFSR41). The page is divided into several sections: Internet Setup, Network Setup, and Basic Setup. The Local DHCP Server settings are highlighted with a red box, showing the 'Disable' radio button selected. The settings include:

- Obtain an IP automatically:
- Host Name:
- Domain Name:
- MTU: Enable Disable Size:
- Local IP Address: . . .
- Subnet Mask: . . .
- Local DHCP Server: Enable Disable
- Start IP Address: . . .
- Number of Address:
- DHCP Address Range: to
- Client Lease Time: minutes (0 means one day)
- Static DNS 1: . . .
- Static DNS 2: . . .
- Static DNS 3: . . .
- WINS: . . .

The Basic Setup section on the right contains the following text:

The Basic Setup screen is where basic configuration is performed. Some ISPs (Internet Service Providers) will require that you enter the DNS information. These settings can be obtained from your ISP. After you have configured these settings, you should set a router password from the Administration->Management screen.

Completing the Internet Setup section is all that is required to set up for your specific ISP. Please look at the table below to configure the Router for your Internet connection.

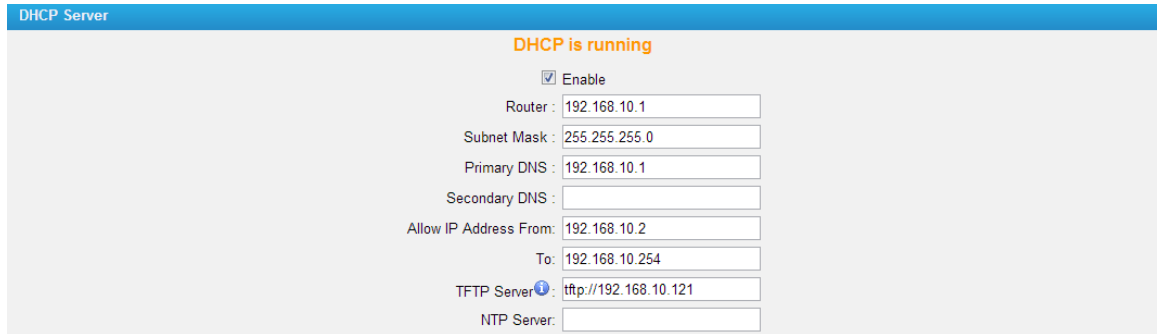
[More...](#)

At the bottom of the page, there are buttons for 'Save Settings' and 'Cancel Changes'.

Figure 3-1

Step2. Enable DHCP Server on MyPBX.

Login MyPBX web interface, go to System → Network Preferences → DHCP Server, enable DHCP server.



DHCP Server

DHCP is running

Enable

Router : 192.168.10.1

Subnet Mask : 255.255.255.0

Primary DNS : 192.168.10.1

Secondary DNS :

Allow IP Address From: 192.168.10.2

To: 192.168.10.254

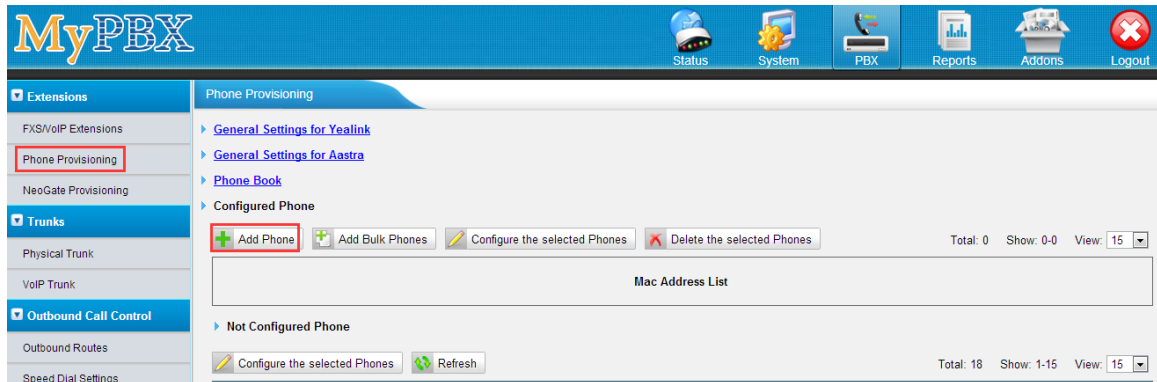
TFTP Server : ftp://192.168.10.121

NTP Server:

Figure 3-2

Step3. Configure phones on MyPBX Auto-Provision page.

1) Login MyPBX web interface, go to PBX → Extensions → Phone Provisioning click Add Phone.



MyPBX

Status System PBX Reports Addons Logout

Extensions

FXS/VoIP Extensions

Phone Provisioning

NeoGate Provisioning

Trunks

Physical Trunk

VoIP Trunk

Outbound Call Control

Outbound Routes

Speed Dial Settings

Phone Provisioning

General Settings for Yealink

General Settings for Aastra

Phone Book

Configured Phone

Add Phone Add Bulk Phones Configure the selected Phones Delete the selected Phones

Total: 0 Show: 0-0 View: 15

Mac Address List

Not Configured Phone

Configure the selected Phones Refresh

Total: 18 Show: 1-15 View: 15

Figure 3-3

2) Fill in the phone detail message on the pop-up window.
Input IP Phone's MAC address, configure Name, Call waiting, Line, Extension, Label, Line active for the phone.

Line		
<input checked="" type="checkbox"/> Line1	Extension: 500	Label: 500
<input checked="" type="checkbox"/> Line2	Extension: 501	Label: 501
<input checked="" type="checkbox"/> Line3	Extension: 503	Label: 503
<input type="checkbox"/> Line4	Extension:	Label:
<input type="checkbox"/> Line5	Extension:	Label:
<input type="checkbox"/> Line6	Extension:	Label:

Figure 3-4

3) Save it and apply the changes on web.

Step4. Save the settings and reboot the IP phone. After you save the changes, system will prompt you to save the changes and reboot to save changes without rebooting. Click OK to reboot the IP phone and provisioning the phone.

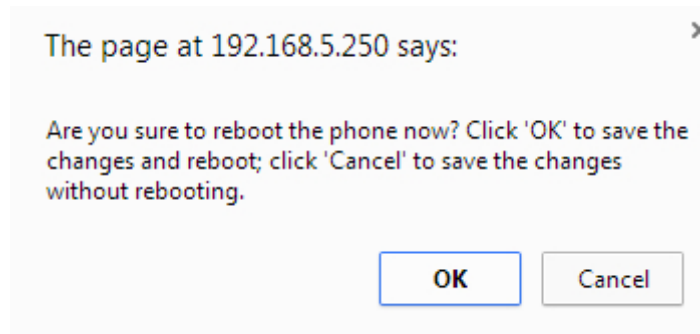


Figure 3-5

Note: The IP phone will reboot twice to apply the configuration take effect. When done, you can see extension 500, 501, 503 have been registered on the screen of Cisco IP phone.

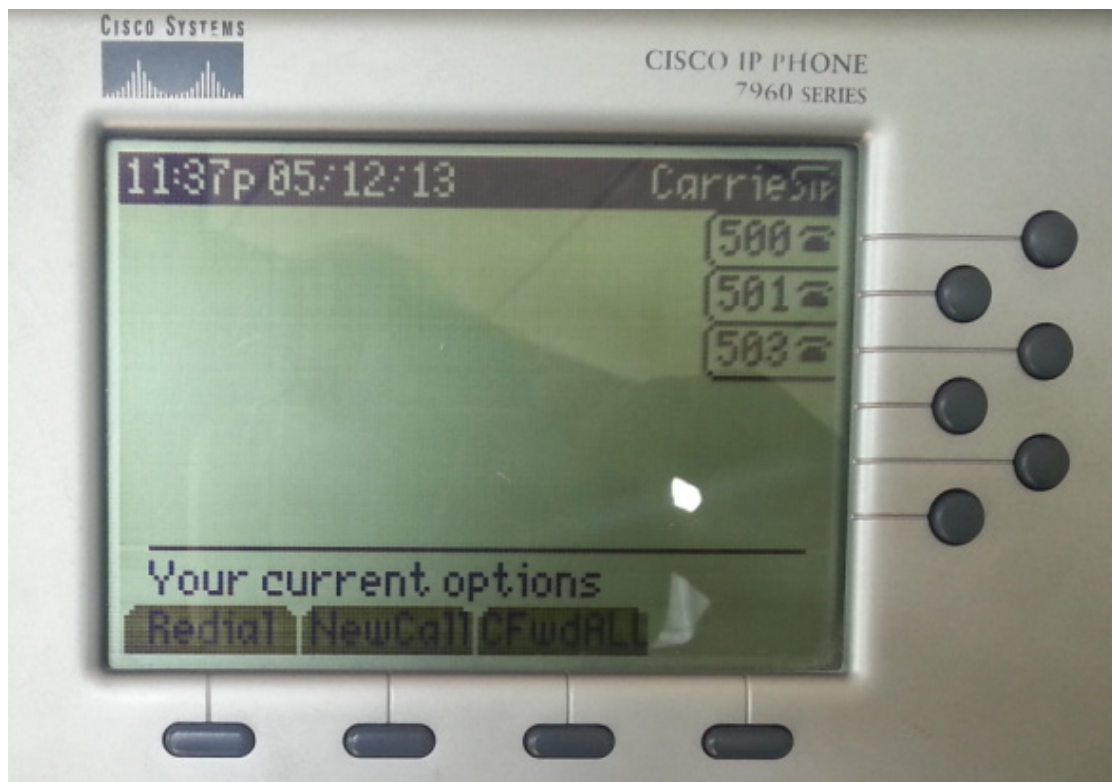


Figure 3-6

Remark:

The factory default setting of DHCP for IP Phone is "enable", so you can skip this step.

If the DHCP is disabled, please follow below step to enable it.

1) Login IP phone's web page.

2) Enable DHCP.

Step5. Done.

<End>