



Snom IP Phone Configuration Guide

Version 1.0

Date: 2016.09.12

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Introduction

This guide introduces how to configure Snom IP phones with Yeastar S-Series VoIP PBX. You have multiple ways to configure the Snom phone:

- [Registering to Yeastar S-Series Manually](#)
- [Provisioning Snom Phones via PnP](#) (Recommended)
- [Provisioning Snom Phones via DHCP](#)

Supported Phone Models

- Snom 320, 710, 715, 720, 725, 760, 765
- Snom D Series: 305, 315, 345, 375

Note: Different IP phone firmware versions may have different web GUI with different settings.

Registering to Yeastar S-Series Manually

If you choose registering Snom to Yeastar S-Series VoIP PBX manually, you have to log in each phone, and configure one by one.

1. Start up the phone and press "**Settings> Information> System Info**" (or **Menu> Information> System Info**) to find the IP Address. For this example we will assume the IP Address of the phone is 192.168.9.180, and IP Address of the S-Series VoIP PBX is 192.168.9.174.
2. Enter the phone's IP in the address bar of your web browser, then press "Enter".
3. Go to the "**Setup -> Identity 1**" page, and click "**Login**" tab:

The screenshot shows the 'Login Information' configuration page for Identity 1. The sidebar on the left lists various settings categories: Operation (Home, Directory), Setup (Preferences, Speed Dial, Function Keys, Identity 1, Identity 2, Identity 3, Identity 4, Action URL Settings, Advanced, Certificates, Software Update), Status (System Information, Log, SIP Trace, DNS Cache, Subscriptions, PCAP Trace, Memory, Settings), and Manual. The main content area has tabs for Login, Features, SIP, NAT, and RTP. The 'Login Information' section includes the following fields and options:

- Identity active:** Radio buttons for 'on' (selected) and 'off'.
- Displayname:** Text input field containing 'John'.
- Account:** Text input field containing '1002'.
- Password:** Password input field containing '*****'.
- Registrar:** Text input field containing '192.168.9.174:5060'.
- Outbound Proxy:** Text input field.
- Failover Identity:** Dropdown menu set to 'Identity 1'.
- Authentication Username:** Text input field containing '1002'.
- Mailbox:** Text input field containing '*2'.
- Ringtone:** Dropdown menu set to 'Ringer 1'.
- Custom Melody URL:** Text input field.
- Display text for idle screen:** Text input field.
- Ring After Delay (sec):** Text input field.
- Record Missed Calls:** Radio buttons for 'on' (selected) and 'off'.
- Record Dialed Calls:** Radio buttons for 'on' (selected) and 'off'.
- Record Received Calls:** Radio buttons for 'on' (selected) and 'off'.
- Identity is hidden:** Radio buttons for 'on' and 'off' (selected).

At the bottom of the form, there are buttons for 'Apply', 'Re-Register', 'Play Ringer', 'Remove Identity', and 'Remove All Identities'.

- **Identity active:** on
 - **Displayname:** fill in the name you wish to appear on the phone display.
 - **Account:** fill in the extension number.
 - **Password:** fill in the extension's "Registration Password".
 - **Registrar:** fill in the S-Series PBX's IP address and SIP port. The default port is 5060. In this example, fill in 192.168.9.174:5060.
 - **Authentication Username:** Set the extension's "Registration Name".
 - **Mailbox:** fill in S-Series PBX's "Check Voicemail" feature code, default is *2.
4. Next, we need to adjust the audio parameters. Click on the "**RTP**" tab and set the

"**RTP Encryption**" field to "off" if you disable the SRTP in extension settings.

The screenshot shows the configuration page for RTP Identity Settings. At the top, a warning message states: "Some settings are not yet stored permanently. Save View Changes". The "RTP" tab is selected. The "RTP Encryption" field is highlighted with a red box and is set to "off". Other settings include:

- Codec: pcmu,pcma,g722,g729,gsi
- Packet Size: 20 ms
- Filtered codec list: pcmu, pcma, g722, g729, gsm, telephone-event
- Full SDP Answer: on off
- Symmetrical RTP: on off
- RTP Encryption: on off
- G.726 Byte Order: RFC3551 AAL2
- SRTP Auth-tag: AES-32 AES-80
- RTP/SAVP: off
- Media Transport Offer: UDP
- Media Transport Offer Setup: active
- Multicast relay address: (empty field)

The "Apply" button at the bottom left is also highlighted with a red box.

5. Click "**Apply**" button, and then click "**Save**" button at the top of the page. The phone will retrieve its configuration files and register with Yeastar S-series VoIP PBX. You can check the extension status on Yeastar S-Series PBX's "**PBX Monitor**" page.

Provisioning Snom Phones via PnP

Before provisioning the phones, you must reset the phones to factory defaults in case that the phones have residual settings of a previous configurations.

2. Connect the phone to the same network with Yeastar S-Series VoIP PBX. The phone will send a PnP request to the PBX when booting up.
3. Log in Yeastar S-Series VoIP PBX Web interface, go to “**Auto Provisioning**” App. Click “**Scan**”, all the phones in the local network will show up on the page.
4. Search the phone by IP address or MAC address, and click “**Edit**”.

The screenshot shows the 'Auto Provisioning' window with a table of discovered devices. The table has columns for MAC Address, Extension, Name, IP Address, Manufacturer, Model, Edit, and Delete. One device is listed with MAC Address 000413749E11, Extension Not Configured, Name Not Configured, IP Address 192.168.9.180, Manufacturer Snom, and Model 710. The 'Edit' button for this device is highlighted with a red box.

<input type="checkbox"/>	MAC Address	Extension	Name	IP Address	Manufacturer	Model	Edit	Delete
<input type="checkbox"/>	000413749E11	Not Configured	Not Configured	192.168.9.180	Snom	710		

5. Choose the phone Model, active a line and assign an extension for the phone. You can also configure keys, features, preferences and codec for the phone.

The screenshot shows the 'Edit Device' window. At the top, 'Manufactures' is set to 'Snom' and 'MAC Address' is '000413749E11'. The 'Model' dropdown is set to '710'. Below, there are tabs for 'Account', 'Function Key Settings', 'Features', 'Preference', and 'Codec'. Under the 'Account' tab, there are four line configurations. 'Line1' is checked, with 'Extension' set to '1005' and 'Label' set to '1005'. The 'Line Active' checkbox for Line1 is also checked. Lines 2, 3, and 4 have 'Extension' set to '1000' and 'Line Active' checked.

Line	Extension	Label	Line Active
<input checked="" type="checkbox"/> Line1	1005	1005	<input checked="" type="checkbox"/>
<input type="checkbox"/> Line2	1000		<input checked="" type="checkbox"/>
<input type="checkbox"/> Line3	1000		<input checked="" type="checkbox"/>
<input type="checkbox"/> Line4	1000		<input checked="" type="checkbox"/>

6. Click “**Save**”.
7. The system prompts you to reboot the phone, click “**OK**”. The phone will reboot and configure automatically.

Note: if the phone doesn't reboot automatically, please reboot the phone manually.

Provisioning Snom Phones via DHCP

Before provisioning the phones, you must reset the phones to factory defaults in case that the phones have residual settings of a previous configurations.

1. Connect the phone to the same network with Yeastar S-Series VoIP PBX.
2. Disable local DHCP server in 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 'Local DHCP Server' option is currently set to 'Disable', which is highlighted with a red box. The page also shows other network settings like IP address, subnet mask, and DNS.

LINKSYS
A Division of Cisco Systems, Inc. Firmware Version: 1.04.08

Setup | Etherfast® Cable/DSL Router | BEFSR41

Setup | Security | Applications & Gaming | Administration | Status

Basic Setup | DDNS | MAC Address Clone | Advanced Routing

Internet Setup

Internet Connection Type: Obtain an IP automatically

Optional Settings (required by some ISPs)

Host Name:

Domain Name:

MTU: Enable Disable Size:

Network Setup

Router IP

Local IP Address:

Subnet Mask:

Local DHCP Server: Enable Disable

Start IP Address:

Number of Address:

DHCP Address Range: 192.168.1.100 to 192.168.1.149

Client Lease Time: minutes (0 means one day)

Static DNS 1:

Static DNS 2:

Static DNS 3:

WINS:

Basic Setup

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...](#)

Save Settings | Cancel Changes

CISCO SYSTEMS

3. Enable DHCP server on Yeastar S-Series VoIP PBX and configure the DHCP server settings according to your local network. (**Settings > System > Security > Service**)

Enable DHCP Server DHCP is running.

Gateway ⓘ:

Subnet Mask ⓘ:

Preferred DNS Server ⓘ:

Alternate DNS Server ⓘ:

DHCP Address Range ⓘ: -

TFTP Server ⓘ:

NTP Server ⓘ:

- Go to “**Auto Provisioning**” App. Click “**Scan**”, all the phones in the local network will show up on the page.
- Search the phone by MAC address or IP address, and click “**Edit**”.

Auto Provisioning

Device List | Upload Files | Phonebook | Firmware Upgrade

Scan | Add | Bulk Add | Edit | Delete

000413749e11

<input type="checkbox"/>	MAC Address	Extension	Name	IP Address	Manufacturer	Model	Edit	Delete
<input type="checkbox"/>	000413749e11	Not Configured	Not Configured	192.168.9.200	Snom	710	Edit	Delete

- Choose the phone Model, active a line and assign an extension for the phone. You can also configure keys, features, preferences and codec for the phone.

Edit Device

Manufactures: MAC Address:

Model:

Account | Function Key Settings | Features | Preference | Codec

<input checked="" type="checkbox"/> Line1	Extension: <input type="text" value="1005"/>	Label: <input type="text" value="1005"/>	<input checked="" type="checkbox"/> Line Active
<input type="checkbox"/> Line2	Extension: <input type="text" value="1000"/>	Label: <input type="text"/>	<input checked="" type="checkbox"/> Line Active
<input type="checkbox"/> Line3	Extension: <input type="text" value="1000"/>	Label: <input type="text"/>	<input checked="" type="checkbox"/> Line Active
<input type="checkbox"/> Line4	Extension: <input type="text" value="1000"/>	Label: <input type="text"/>	<input checked="" type="checkbox"/> Line Active

- Click “**Save**”.
- The system prompts you to reboot the phone, click “**OK**”. The phone will reboot

and configure automatically.

Note: if the phone doesn't reboot automatically, please reboot the phone manually.