Welcome to our joint Yealink Webinar!

We will commence at:

9:00pm~10:00pm CST

If you have questions during the Webinar

During the formal presentation: use the chat service on the dashboard

During the Q&A Session: click the “raise hand” icon on the dashboard and we will cue you in and open your audio channel – fire way with your question for everyone to hear!

RPS and AutoProvisioning

Agenda

- Introduction
- Auto Provisioning order
- Yealink RPS
- Other Auto Provisioning methods

Introduction

What is Auto Provisioning?

Auto Provisioning is a feature used to update phone settings and firmware automatically.

This allows the phone to be plugged into an Ethernet Network and be automatically configured with the settings needed for the phone to operate.

In most cases no user intervention is required.

What is Auto Provisioning?

For a phone to be successfully provisioned, the phone Must:

- Obtain a server address where the configuration files are stored.
- Download the configuration files from the configured server.
- Resolve and apply the configuration settings to the phones from the configuration file.
- Do other updates, for example firmware updating.

Auto Provisioning order

Provisioning Order

When a Yealink phone boots it will try and obtain a provisioning server address in the following order.

If RPS is enabled, then:

- Yealink RPS
- Zero -Touch
- PnP Server
- DHCP custom option
- DHCP option 66
- DHCP option 43
- Phone Flash（TFTP/FTP/HTTP/HTTPS）

Yealink RPS

RPS Working Theory

MAC and URL information registered on Yealink RPS

[redacted] Servers

Auto Provisioning servers

Step 1 Sending request by HTTPS (including MAC)

Step 2 Sending URL info. by HTTPS

Step 3 Download request y000000000xx.cfg or MAC.cfg

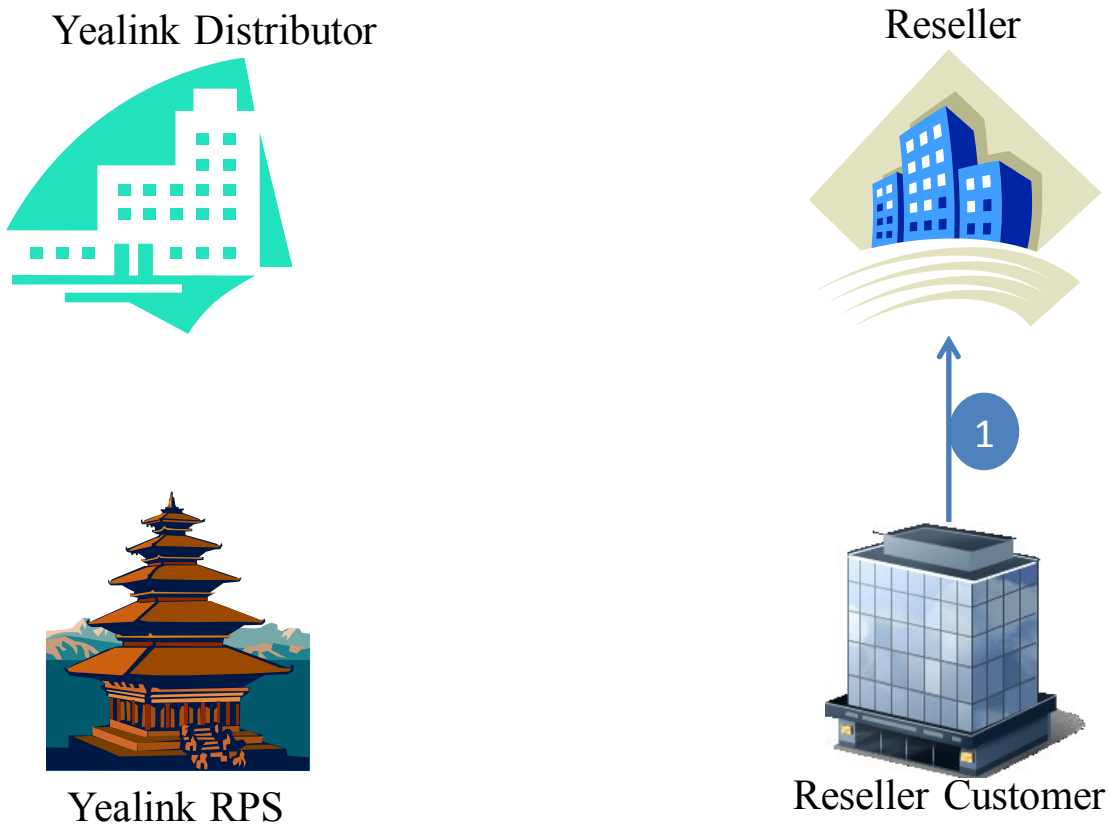
Step 4 Sending cfg files

Step 5 Restart to apply the cfg files

Yealink RPS - Benefits

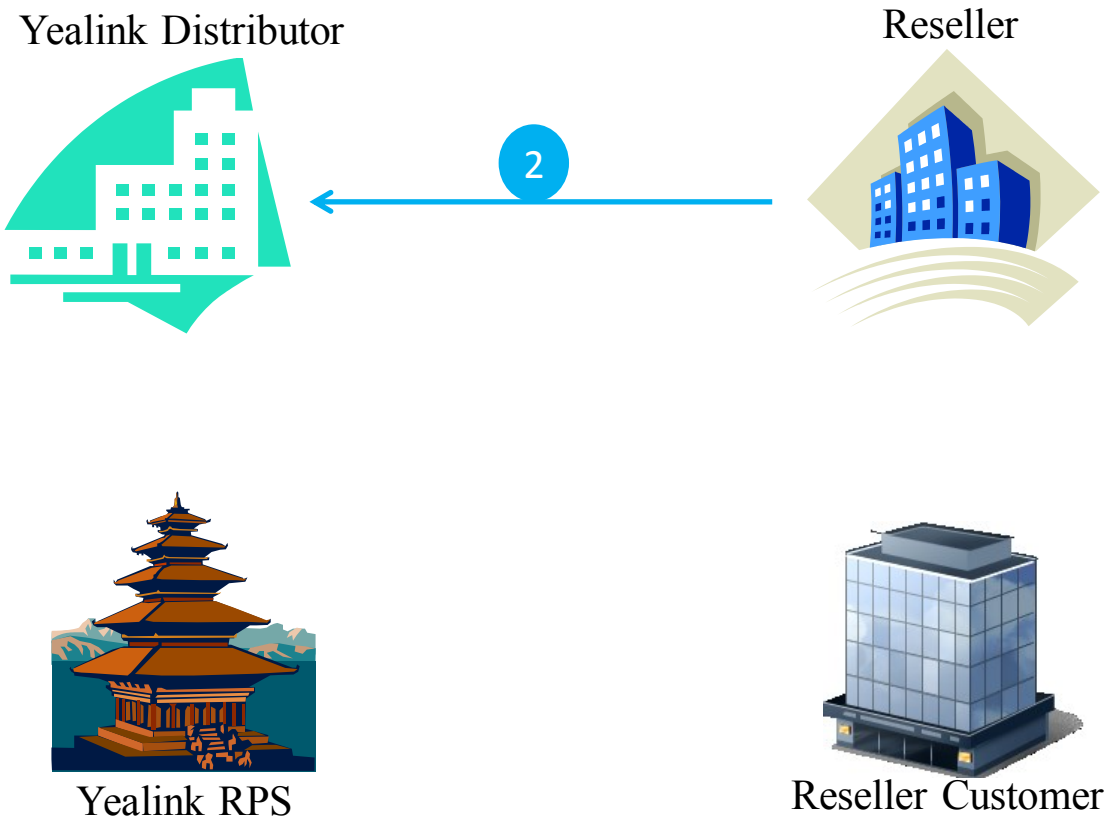
- Eliminates the need for Manual Configuration
- Allows direct shipment to customer without the need for the Reseller to configure the phone
- Plug and Play installation for the customer

Yealink RPS - Example



1 Customer orders telephone/service

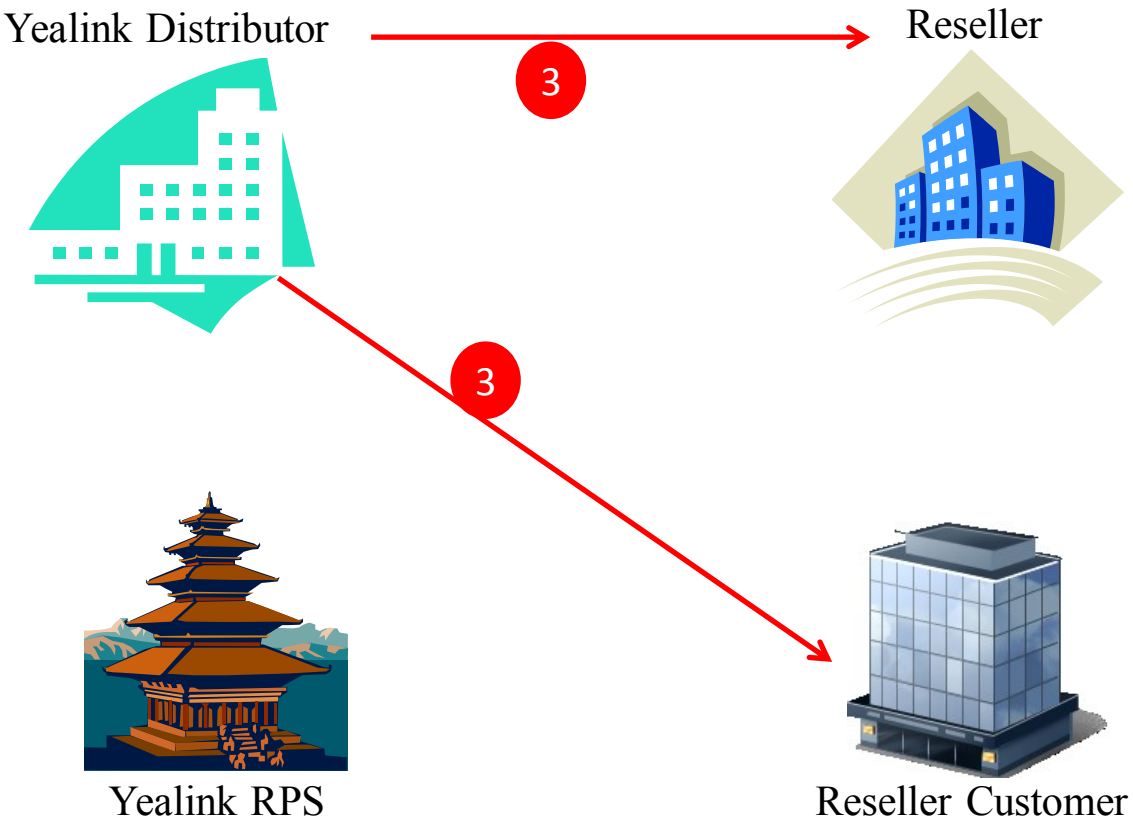
Yealink RPS - Example



1 Customer orders phone

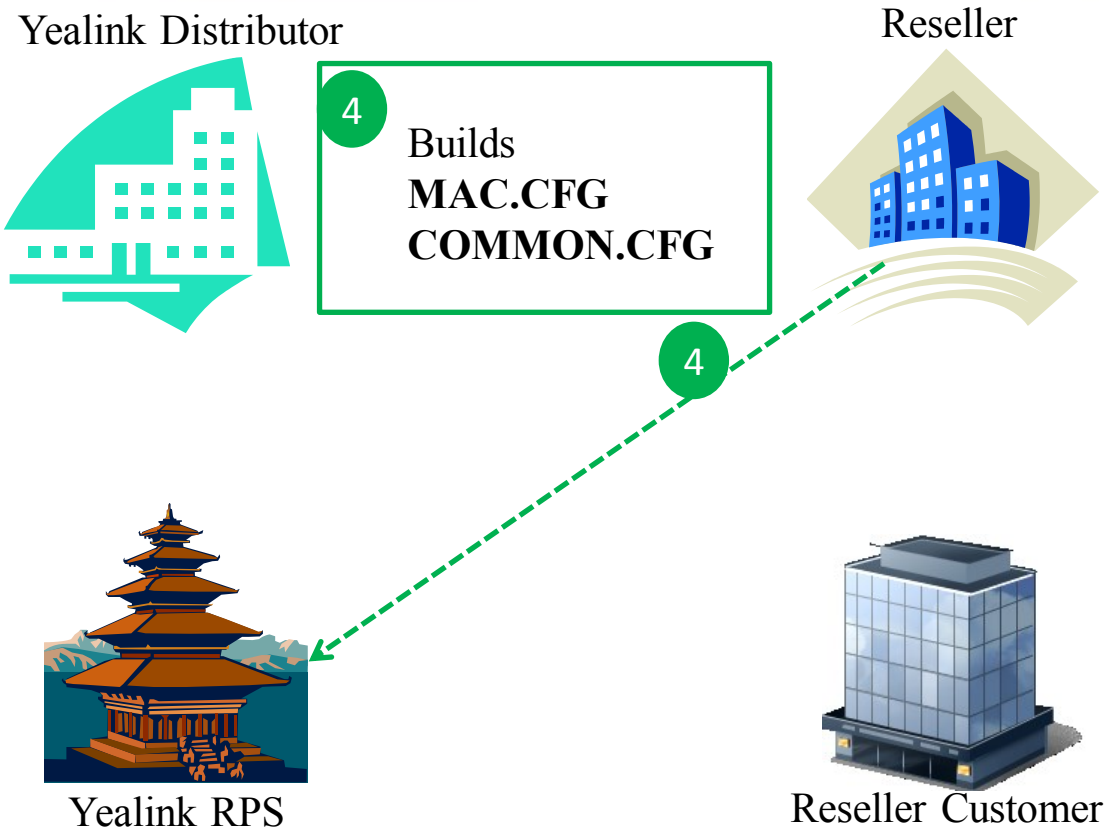
2 Reseller orders phone from Yealink Distributor

Yealink RPS - Example



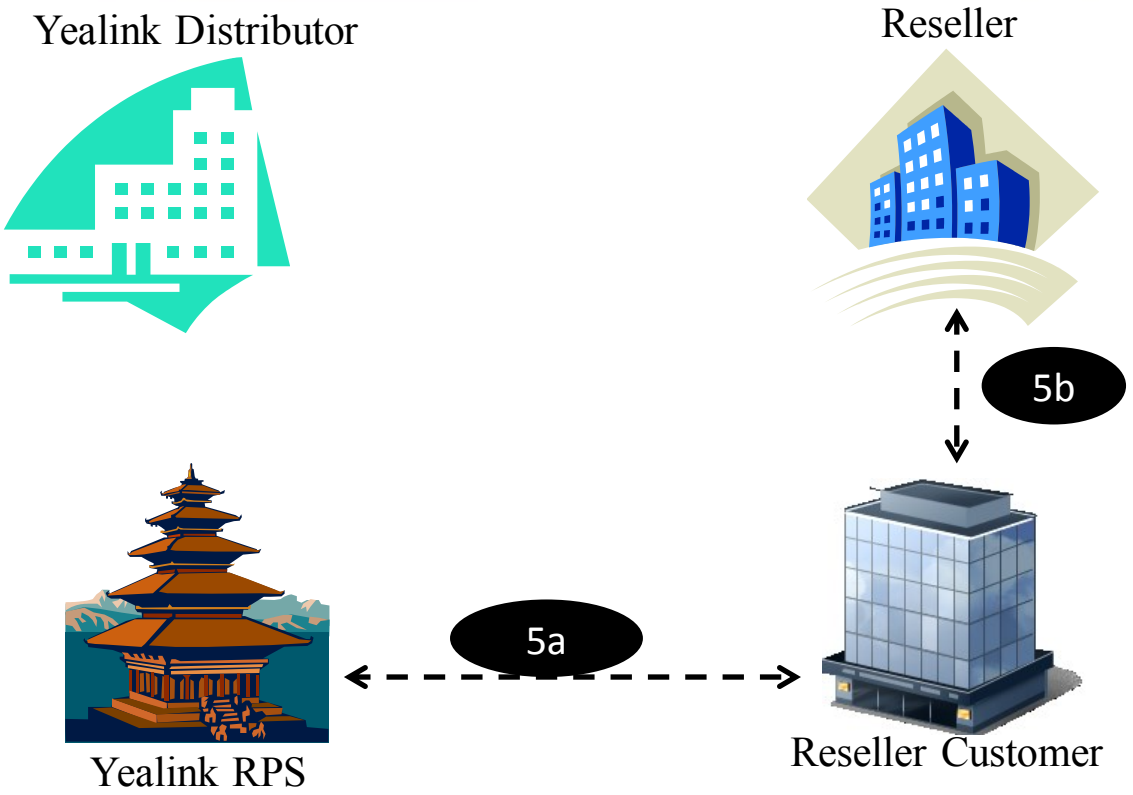
1 Customer orders phone
2 Reseller orders phone from Yealink Distributor
3 Yealink Distributor ships phone to customer and sends MAC details to Reseller

Yealink RPS - Example



1 Customer orders phone
2 Reseller orders phone from Yealink Distributor
3 Yealink Distributor ships phone to customer and sends MAC details to Reseller
4 Reseller creates provisioning files
4 Reseller update RPS with MAC address and provisioning server details

Yealink RPS - Example



1 Customer orders phone
2 Reseller orders phone from Yealink Distributor
3 Yealink Distributor ships phone to customer and sends MAC details to Reseller
4 Reseller creates provisioning files
4 Reseller update RPS with MAC address and provisioning server details
5a Yealink phone boots and requests Provisioning Server details from RPS, Yealink RPS provides details.
5b Phones request and receives CFG files from Provisioning Server

What you need to do in RPS process?

Yealink Distributor

- Creats RPS account for Resellers
- Ships phones installed RPS firmware to Customers
- Sends MAC details to Resellers

Reseller

- Applies RPS account from Yealink Distributors
- Orders phones installed RPS firmware from Yealink Distributors
- Creats Auto Provisioning Server
- Creats Correct Provisioning files including common.cfg and mac.cfg
- Login Yealink RPS to update MAC address and provisioning server details

Reseller Customer

- Orders phone from Resellers
- Make sure phones can connect to Public network

Auto Provisioning Server

- Contains the configuration files for each phone
  y0000000000xx.cfg (Common file)
  MAC-based.cfg (Unique file)
- Located at Reseller
- Web Server Based
- Supports HTTPS/HTTP/FTP/TFTP
  Uses Port 80 or 443(encrypted certificate based)

Configuration Files

MAC-based.cfg

- Unique per phone
- SIP account ID
- SIP account password
- Codecs
- Display name
- SIP Server
- SIP Port

y0000000000xx.cfg

- Unique per model
- BLF
- Network parameters
- Certificate
- SYSLog info
- SYSlog level (needs to be 6)
- VPN
- Auto provision check time

Directory structure

- **CustName\Location\accounts\Model**
- **CustName\Location\Sales\Model**

Yealink Configuration Files

- The phone will download two configuration files Common CFG file and MAC-based CFG file from the provisioning server.
- The Common CFG file will be used by all phones of the relevant model while the MAC-based CFG file will only be used by the phone with the corresponding MAC Address.
- A common CFG file has a fixed name for each model while a MAC-Oriented CFG file is named after a MAC address of the specific phone.

Yealink Configuration File Names

Model	Hardware	Firmware	Common Configuration File
W52P-HS	26.x.x.x	26.x.x.x	
W52P-Base	25.x.x.x	25.x.x.x	y000000000025.cfg
T46	28.x.x.x	28.x.x.x	y000000000028.cfg
T42	29.x.x.x	29.x.x.x	y000000000029.cfg
T41	36.x.x.x	36.x.x.x	y000000000036.cfg
T38	21.x.x.x	38.x.x.x	y000000000038.cfg
T32	22.x.x.x	32.x.x.x	y000000000032.cfg
T28	1.x.x.x	2.x.x.x	y000000000000.cfg
T26	4.x.x.x	6.x.x.x	y000000000004.cfg
T22	5.x.x.x	7.x.x.x	y000000000005.cfg
T21	34.x.x.x	34.x.x.x	y000000000034.cfg
T20	7.x.x.x	9.x.x.x	y000000000007.cfg
T19	31.x.x.x	31.x.x.x	y000000000031.cfg

Yealink Configuration File Example

- Example common configuration file (M7) for upgrading phone firmware

#!version:1.0.0.1

##File header "#!version:1.0.0.1" cannot be edited or deleted, and must be placed in the first line.##

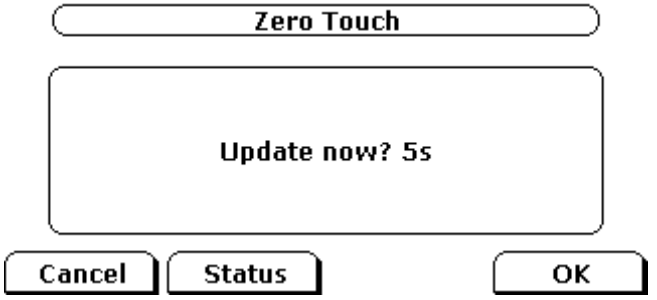
##
Configure the access URL of firmware
##
#Before using this parameter, you should store the desired firmware (x.72.x.x.rom) #to the provisioning server.
firmware.url = http://10.2.5.237:8080/28.72.0.25.rom

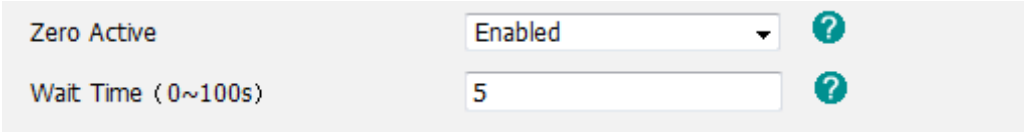
Configuration Files Tools

- Yealink Configuration Generator Tool (CGT) provides you with quicker and easier configuration generation, modification, conversion and encryption. Yealink Configuration Generator Tool
- AutoProvisioning template packed in Yealink website
  Yealink T19P/T2XP/T4X AutoProvisioning Template_V72
- AutoProvisioning Guide in Yealink
  Yealink Support Module

Other Auto Provisioning methods

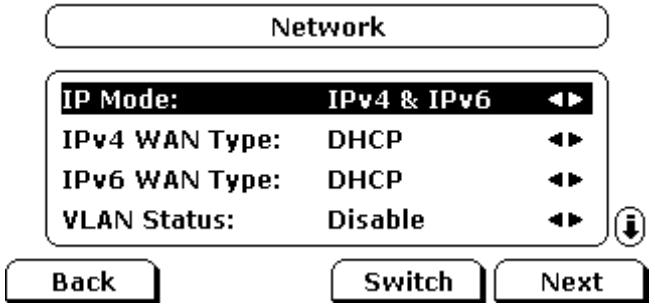
Zero -Touch



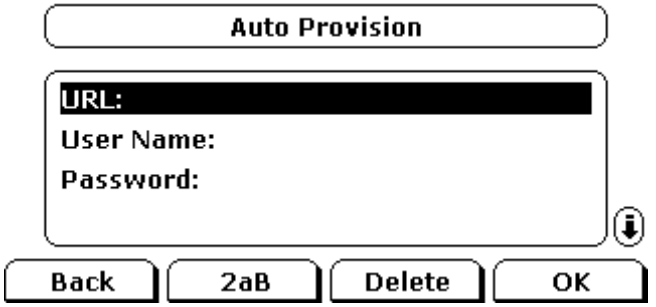


- When Zero Touch is enabled, a configuration wizard will be displayed after the phone has booted

Zero -Touch



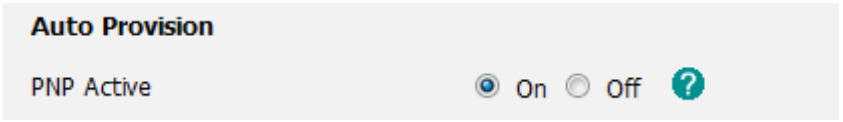
Network Configuration Options



Provisioning Server Address, Authentication user name (optional) and password (optional) Configuration Options

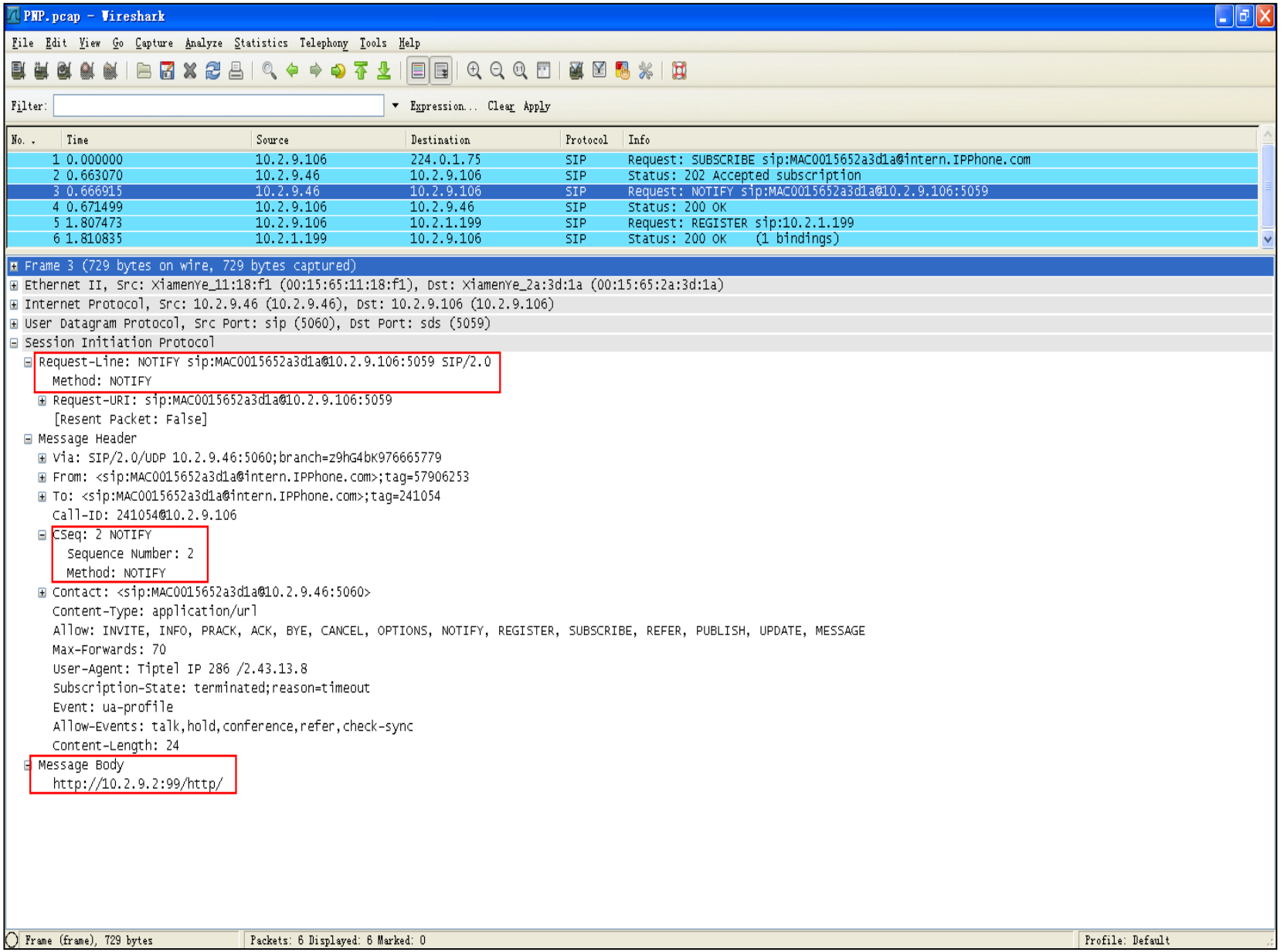
- Zero Touch allows you to configure the network parameters and provisioning server address via the phone's user interface during startup

Plug and Play (PnP) Server



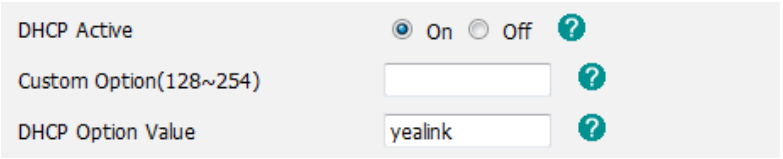
- Yealink Phones Support PnP
- Phone sends a SUBSCRIBE message to obtain provisioning server address details during startup.
- PnP server responses with a **SIP NOTIFY** message, and an address of the provisioning server.

Plug and Play (PnP) Server

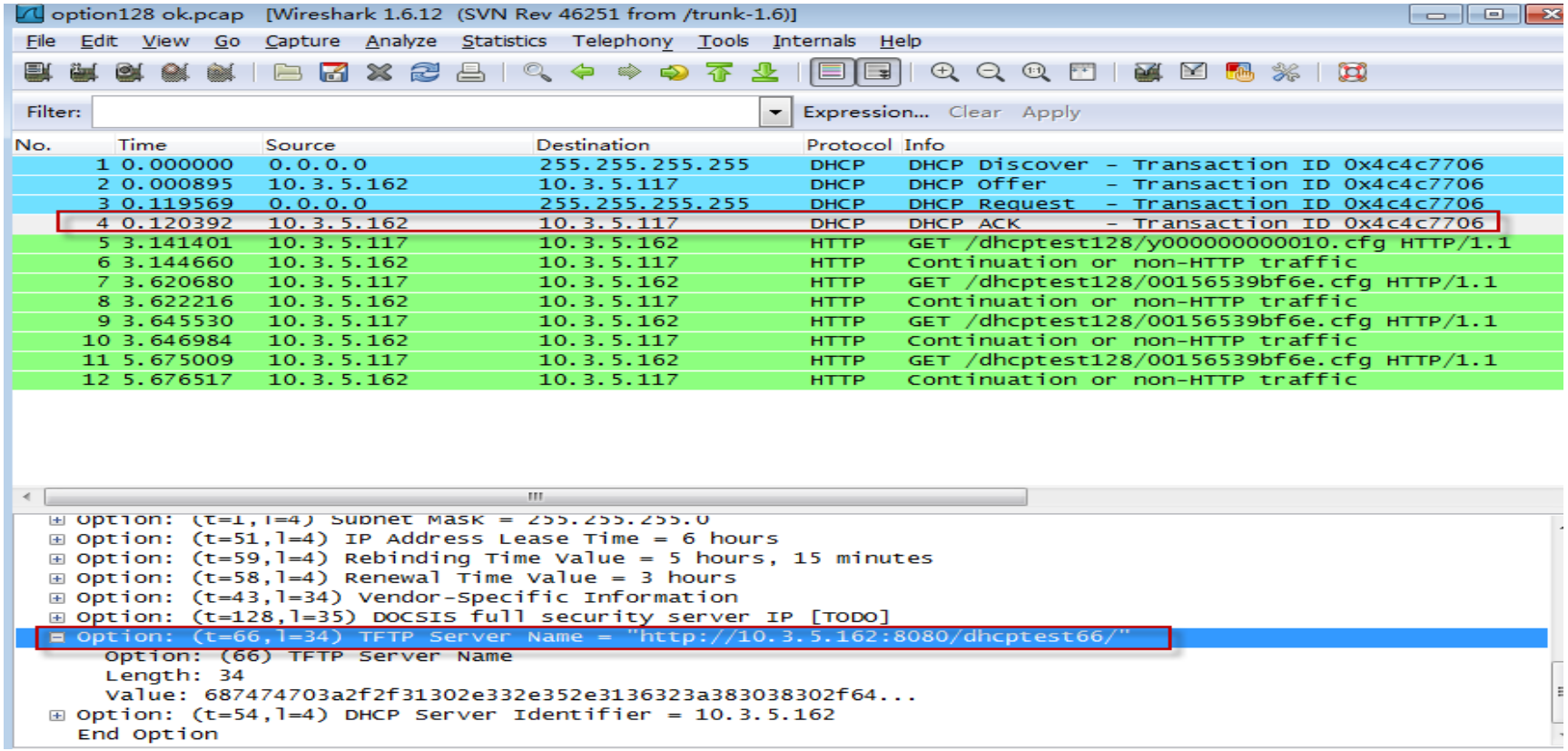


DHCP Options

- Yealink Phones support DHCP custom options or via Option 66 and 43.
- Custom option, DHCP option 66 then DHCP option 43
- **The Option 66 is used to identify the TFTP server.**
- Option 43 can be used to encapsulate vendor specific options
- DHCP Custom Option must be supported by DHCP Server

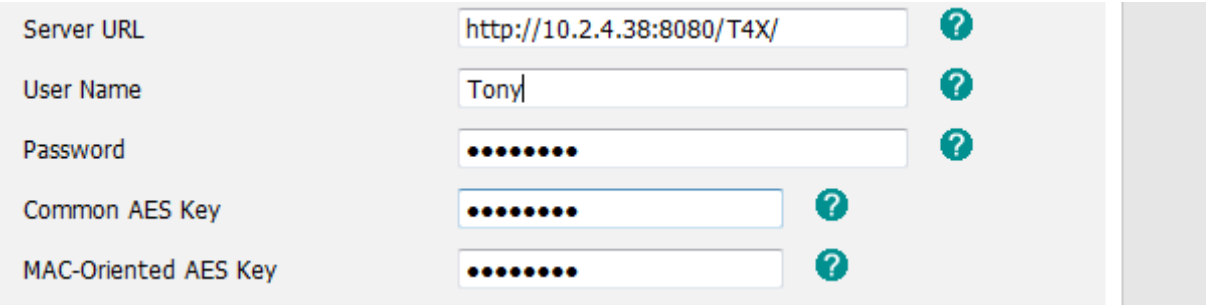


DHCP Options



Web Interface

- Yealink Phones allow manual entry of the Provisioning Server.
- This is done via the web interface of the phone.
- Enter the Server URL and Username and Password if required.



Coming soon....

Our next Yealink Webinar:

"How to address OPENVPN issues with Yealink phone?"

Wedesday May 28st

Info and Registration: Yealink Webinar

Questions?

If you would like to ask a question, click the “**Raised Hand**” icon in your GoToWebinar Dashboard.

We will activate your voice channel and cue you in.

Thank You!

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