

## Metaswitch SIP Provisioning Server Endpoint Pack Documentation

This document explains how to use a specific endpoint pack with the Metaswitch SIP Provisioning Server. If you require further help using this pack and this is an accredited or certified device then Metaswitch will be able to provide assistance. For community packs, please contact the pack author.

For further details on how to develop or extend endpoint packs please see the official documentation, including “Creating an Endpoint Pack”. To find out more about your SIP end-point, please consult the Admin and User guides.

**Note: this endpoint pack is compatible with SIP PS SDK version 2.0 and above. If you are unsure which version of SIP PS SDK you are running, see <https://communities.metaswitch.com/docs/DOC-91097> for a guide.**

**Please note: this pack requires EAS version 8.1.04 or above (inc. 8.3) to function.**

For general information on how to use the SIP Provisioning Server, please contact your Metaswitch representative.

### Pack Details

<b>Endpoint Pack ID</b>	Yealink_T4X_certified
<b>Author</b>	Yealink Network Technology Co., Ltd
<b>Version</b>	3
<b>Support contact</b>	<a href="mailto:support@yealink.com">support@yealink.com</a>
<b>Date of Publication</b>	2014-12-24
<b>End-point Vendor</b>	Yealink
<b>End-point devices covered by this pack</b>	T41P,T42G ,T46G,T48G
<b>Firmware version(s) included</b>	T48G: T48G-35.71.202.132.rom T46G: T46G-28.71.202.132.rom T42G: T42G-29.71.202.132.rom T41P: T41P-36.71.202.132.rom

### Setup Instructions

<b>DHCP Option to use</b>	66
<b>DHCP URL</b>	<a href="http[s]://example.com/sip-ps/">http[s]://example.com/sip-ps/</a>
<b>How to configure provisioning URL via web interface</b>	<ul style="list-style-type: none"> <li>- Navigate to the ‘Settings’ link on the upside.</li> <li>- Navigate to the ‘Auto Provision’ link on the left hand side</li> <li>- Enter <a href="http[s]://example.com/sip-ps/">http[s]://example.com/sip-ps/</a> in the Server URL field.</li> <li>- Click on”Confirm” to save</li> </ul>
<b>How to configure provisioning URL via endpoint menu</b>	<p>For T41P and T42G: Menu &gt;4. Settings &gt; 2. Advanced Settings&gt; 9.Auto Provision&gt; 1.URL</p> <p>For T46G and T48G: Menu &gt; Advanced &gt; 6.Auto Provision&gt; 1.URL</p>

<b>Authorisation mode</b>	HTTP Digest
<b>Non-alphanumeric character input instructions (enter n/a if not possible to enter)</b>	For T41P and T42G: Press the 'Abc' softkey to switch to non-numeric input mode. Press key * for " *,!:@+-\$ / " , key # for " # " For T46G and T48G: Press the 'Abc' softkey to switch to non-numeric input mode. Press key * for " .*/:@+-\$[] " , key # for " # "

## Authentication Login

<b>HTTP Digest login instructions</b>	After phone starts,the screen will display "Zero touch" interface, click OK, then click Next, enter the subscriber DN as username and EAS password as password, and click OK.  Note: If you do not see the "Zero touch" in the screen, please click Setting-> Auto Provision-> Zero Active,enable this feature,and restart the phone.
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## Default Settings

<b>Default user password for web UI</b>	user
<b>Default passwords for endpoint menu, if different from web UI</b>	
<b>Default admin password for web UI</b>	admin

## Miscellaneous

**This pack is compatible with Yealink firmware X.71.202.132.** If an endpoint of other firmware is provisioned then it will be given this version automatically .

## Release Notes

Change	Comments	SFR (if applicable)
Fixed the issue that the T4x series couldn't create a conference.	The Conference Softkey was lost by chance when user created a conference call. This has been fixed.	
Fixed the issue that user couldn't perform a semi-attended transfer.	There was a "Transfer Failed" prompt on the LCD screen when user performed a semi-attended transfer. This has been fixed.	
Fixed the issue that the Conference	The Conference Softkey was lost during a call for shared-line.The pack now fixed the problem ,user	

Softkey was lost when the shared-line is in use.	with shared-line can config whether or not to enable the "conference" soft key instead of the "Private Hold" soft key during a call .
Fixed the factory setting value of Auto Provisioning URL.	The new value was set to null.
Renamed the module of Programmable Keys	The module of Programmable keys was renamed as Programmable keys--Line Key.
Added the configuration of sidecar in the T46G/T48G model.	Added the configuration of sidecar in the T46G/T48G model.
Adjusts the Programmable keys of Line Key for T48G.	The user can now set the Programmable keys of Line Key for T48G based on the column hotspot not global hotspot.
Adjusted the module layout.	The module of "Line N" was now moved to be a single one, and the old module of "User" was deleted.
Adjusted the module layout.	The configurations of feature access code which in the module of "User-->Call Services" were now moved to the corresponding configuration item of soft key action.
Adjusted the module layout.	Moved the module of "User-->Locale" to the new module of "Preferences-->Time&Date" and the "Preferences-->Language".
Adjusted the module layout.	Moved the module of "Provisioning-->Transport" to "Preference-->WEB GUI".
Adjusted the module layout.	Moved the module of "Network Settings--Diagnostics" to "Provisioning-->Diagnostics".
Adjusted the module layout.	The configuration of "IP Address and Port" which in the Paging Group was now decomposed into "Address" and "Port".
Change the Line Description.	The custom Description of Line Description was now changed to be a selective configuration. User can either select custom Description, or Use Directory Number, or Use Extension.
Added some soft key actions.	Added some soft key actions as follows: Conference Forward

	<ul style="list-style-type: none"> <li>Group Listening</li> <li>Hold</li> <li>KeyPad Lock(Not applicable to T48G)</li> <li>LDAP</li> <li>Multicast Paging</li> <li>Prefix</li> <li>Transfer</li> <li>XML Group</li> <li>Zero Touch</li> </ul>
Deleted some soft key actions.	<p>Deleted some soft key actions as follows:</p> <ul style="list-style-type: none"> <li>Call List</li> <li>Call Park</li> <li>XML APP</li> </ul>
Added“ Features” module.	<p>Added“ Features” modules and multiple new features have been added to this module. They are listed below – See their help text in the phone profile editor for a full description of what they do:</p> <ul style="list-style-type: none"> <li>Dial Plan</li> <li>VoiceMail</li> <li>Call Waiting</li> <li>DND&amp;Forward</li> <li>Transfer</li> <li>Conference</li> <li>BLF</li> <li>Intercom</li> <li>HotLine</li> <li>LDAP</li> <li>Remote Phone Book</li> <li>Bluetooth(Not applicable to T41P andT42G)</li> </ul>
Added “Preferences” module.	<p>Added “Preferences” modules and multiple new features have been added to this module. They are listed below – See their help text in the phone profile editor for a full description of what they do:</p> <ul style="list-style-type: none"> <li>Time&amp;Date</li> <li>Language</li> <li>WEB GUI</li> <li>Display</li> <li>Ring Tone</li> <li>Key Tone</li> <li>Country Tone</li> <li>Headset</li> <li>KeyPad Lock(Not applicable to T48G)</li> </ul>
Added “Security” module.	<p>Added “Security” modules and multiple new features have been added to this module. They are listed below – See their help text in the phone profile editor</p>

for a full description of what they do:

Phone Access ( username&password setting)

SSL Certificates setting

Added three configurations in the module of Paging Group.

Added three configurations in the module of Paging Group. They are listed below – See their help text in the phone profile editor for a full description of what they do:

Outgoing page Codec

Paging Priority Enable

Priority paging group

Added some configurations in the module of Line N.

Multiple new configurations have been added to Line N module. They are listed below – See their help text in the phone profile editor for a full description of what they do:

In “SIP Server” Submodular :

Enable Outbound Proxy Server

Outbound Proxy

Outbound Proxy Port

Transport

Registration failure retry (s)

Only Accept Message From Trusted Server

SIP Server Address

SIP Server Port

Registration expiry (s)

In “RTP”Submodular:

RTP Encryption (SRTP)

RTP packet time

In " Codec " Submodular:

1st Codec

2nd Codec

3rd Codec

4th Codec

5th Codec

In “NAT” Submodular:

NAT Traversal

STUN Server

STUN Server Port

Keep Alive Type

Keep Alive Interval(Seconds)

NAT Rport

In “DTMF” Submodular:

DTMF Type

DTMF Info Type

DTMF Payload Type

In “Session Timer” Submodular :

SIP Session Timer T1

SIP Session Timer T2

SIP Session Timer T4

Added some configurations in the module of Provisioning.

Multiple new configurations have been added to Provisioning module.They are listed below – See their help text in the phone profile editor for a full description of what they do:

In “Server Address” Submodular:

PNP Provisioning Enable

DHCP Provisioning Enable

Custom Option (128~254)

Provisioning Server URL

User Name

Password

In “Polling” Submodular:

Poll for configuration updates

Check New Configuration Weekly

Day of week For Check New Configuration

Polling Window Start

Polling Window End

Check New Configuration Repeatedly Active

Repeatedly Interval

Custom MAC- Oriented URL

Added some configurations in the module of Network Settings.

Multiple new configurations have been added to Network Settings module .They are listed below – See their help text in the phone profile editor for a full description of what they do:

In “IP Setting” Submodular:

Internet Port Mode(IPv4/IPv6)

Internet Port Type For IPV4

Static IP Address

Subnet Mask

Gateway

Primary DNS

Secondary DNS

Internet Port Type For IPV6

Static IP Address

IPv6 Prefix

Gateway

Static DNS

Primary DNS

Secondary DNS

ICMPv6 Enable

In “Vlan”Submodular:

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WAN Vlan Enable  
WAN Vlan ID  
WAN Vlan Priority  
PC Port Mode  
PC Port Vlan Priority  
DHCP Vlan Enable  
DHCP Vlan Option  
LLDP Enable  
Packet Interval  
In “Port Link” Submodular:  
WAN Port Link  
PC Port Link  
In “Local RTP Port” Submodular:  
Max RTP Port  
Min RTP Port  
In “802.1x” Submodular:  
802.1x Mode  
Identity  
MD5 Password  
CA Certificates Access URL  
Device Certificates Access URL  
In “VPN” Submodular:  
VPN Enable  
Upload VPN Config