



Yealink Device Management Platform Quick Start Guide

Applies to version 3.5.0.20 or later

Overview

Yealink Device Management Platform (YDMP) allows administrators to realize centralized management for Yealink IP phones, Skype for Business HD T4XS IP phones, video conferencing systems, MVC series and others in the same enterprise.

Getting Started

Hardware and Software Requirements

YDMP supports the stand-alone installation and the cluster installation since version 3.5.0.20. Different installation methods has different hardware and software requirements.

For virtual machine, we support VMware ESXi in version 6.5 or later. For Linux operating system, we support CentOS7.5 and CentOS8.1 (supported since version 3.5.0.20).

Requirements for stand-alone installation:

Device Quantity	CPU	RAM	Hard Drive
0~6000	8-core	16G	At least 250G, and the capacity of the hard drive increases by 30G with every 1000 devices added.
6000~15000	16-core	32G	
15000~30000	32-core	64G	

Requirements for each server in cluster installation:

(3 servers are required and the requirements for each server are the same):

Device Quantity	CPU	RAM	Hard Drive
0~30000	8-core	16G	At least 250G for 6000 devices, and the capacity of the hard drive should be increased by 30G with every 1000 devices added.
30000~50000	8-core	24G	
50000~100000	16-core	24G	

Port Requirements

You need open five ports for YDMP: 443, 8446, 9989, 9090, and 80. We do not recommend that you modify those ports.

Installing YDMP

Before you begin

- One device running CentOS.
- Your hardware, software and ports should meet the requirements.
- Obtain the latest installation package of YDMP from the Yealink distributor or SE and then save it at the path /usr/local.

Note: If you want to upgrade YDMP to the version later than 3.5.0.20 (including 3.5.0.20), you can install it directly.

Procedure

1. Log into CentOS as the root user and open the terminal.

2. Run the command below:

```
cd /usr/local
tar zxvf DM-release-3.5.0.20.tar.gz
cd yealink_install/
tar zxvf install.tar.gz
./install
```

##This is the single NIC deployment, for more information, refer to the administrator guide.##

3. For the stand-alone installation, select A. If you do not select one within 30 seconds, the system will select A automatically.

Enter the IP address according to the prompts. If the server has only one IP address, enter it. If the server has several IP addresses, enter the internal IP address.

4. For the cluster deployment, select B and edit the configuration template usr/local/yealink/data/install.conf.

- If it is the deployment of single NIC (the internal or external network), you only need to edit the ip=x.x.x.x in the master node.
- If it is the deployment of dual NIC (the internal and the external network), you need to edit ip=x.x.x.x as the internal IP address and wan_ip=x.x.x.x as the external IP address. You need to edit the internal and external IP address in the corresponding field.
- After editing the parameter, you need to delete the comment symbol # in front of the parameter.
- You need to employ the domain name for the following configuration:
microdm_tcp_server_address
microdm_mail_web_domain
microdm_domain

```

[global]      #The settings of global variable
ansible_ssh_user = root      #The default value is root user. It is used to log into the back-end server.
ansible_ssh_pass = xxxxxxxxxx #The login password of the user. We recommend that you set the same password for all
# ansible_ssh_private_key_file= nodes to edit them together in the global settings.
# ansible_become = true
# ansible_become_pass = xxxxxx
# nginx_http_listen_port = 80
# nginx_https_listen_port = 443
# nginx_http_redirect_https = false
microdm_tcp_server_address = itsptcp.yealinkops.com
# microdm_service_default_domain = https://dm.domain.com
microdm_mail_web_domain = https://itspdms.yealinkops.com
microdm_domain = itspdms.yealinkops.com
# common_ipv6_disable = true

[manager-master]
ip=192.168.102.13      #Master node
wan_ip=10.200.112.27
# ansible_ssh_user=root

[manager-slave-1]
ip=192.168.102.8
wan_ip=10.200.112.34

[manager-slave-2]
ip=192.168.102.15
wan_ip=10.200.112.93

[business-1]
# ip=x.x.x.x

[business-2]
# ip=x.x.x.x

[business-3]
# ip=x.x.x.x

[dfs-server-1]
# ip=x.x.x.x

[dfs-server-2]
# ip=x.x.x.x

[dfs-server-3]
# ip=x.x.x.x

```

#The non-root user should configure these two items. The password is same with the above one.

#Edit it as the domain name for phones to connect to YDMP through TCP connection.

#Edit it as the domain name for accessing YDMP.

#You do not need to edit this. It is used for interactive use among cluster servers.

The same as microdm_mail_web_domain. Remove https://

#Sub-master node

The installation starts and takes some time to finish. For the cluster deployment, you can use the domain name to log into YDMP if your installation successes.

Logging into YDMP

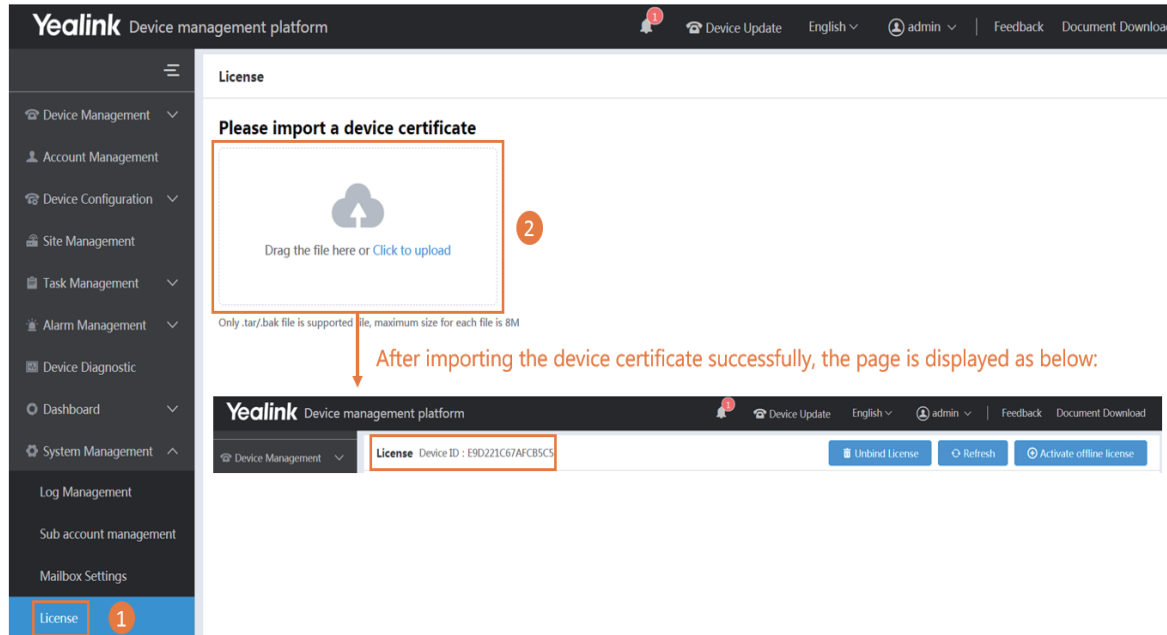
1. Open a web browser.
2. Enter **https://<IP address>/** (for example: https://10.2.62.12/) in the address box.
3. Optional: select a desired language.
4. Enter your username (default: admin) and the password (default: v123456789), and click **Login**.
5. If it is the first time you log into the platform, the system will remind you to change the password. After that, you can go to the Home page of YDMP.

Activating the License

After activating the license, you can manage your devices via YDMP.

Step1: Importing the Device Certificate

1. Obtain the device certificate from your service provider by submitting the company name, the distributor name and the country.
2. Follow the instructions in the picture below to upload the certificate.



Step2: Activating the License

1. You need purchase the corresponding service and obtain the authorization for the device management.
2. If the server can access the public network, you can activate the license online. Otherwise, you can activate the license offline.

※ Online

The screenshot shows the 'License' section of the Yealink Device management platform. The 'License' tab is selected in the left sidebar (marked with a red circle 1). The main area displays a table of licenses for Device ID: E9D221C67AFCB5C5. The table has columns: License ID, Status, Mode, Licenses, Validity, Expiration Time, and Activation Time. A license with ID 5d0d6c72e3084... is shown with Status 'Activated', Mode 'Online', 1000 Licenses, 30days Validity, and Expiration Time 2019/01/13 17:52:57. The Activation Time is 2018/12/14 17:52:57. Above the table, there are buttons: 'Unbind License', 'Refresh' (marked with a red circle 2), and 'Activate offline license'. A red callout box points to the 'Refresh' button with the text: 'After refreshing, the device license is displayed in the list.'

License ID	Status	Mode	Licenses	Validity	Expiration Time	Activation Time
5d0d6c72e3084...	Activated	Online	1000	30days	2019/01/13 17:52:57	2018/12/14 17:52:57

※ Offline

The screenshot shows the 'License' section of the Yealink Device management platform with the 'Activate offline license' button highlighted (marked with a red circle 1). A modal window titled 'Activate offline license' is open. It contains an 'Export' button (marked with a red circle 3) and a file upload area with a cloud icon and the text 'Drag the file here or Click to upload'. A red callout box points to the 'Export' button with the text: 'Send the exported license application to Yealink to get the license.' Another red callout box points to the upload area with the text: 'Upload the license.' Below the upload area, it says 'Only .lic file less than 1MB is available.' The 'Activation Time' column in the background table is marked with a red circle 2.

Importing the Latest Parameter Configuration File

If your YDMP is upgraded from a lower version, you must import the latest parameter configuration file. Otherwise, you cannot use some device models. You can update the configuration by downloading the latest configuration file from Yealink official website. If the configuration is updated, the parameters in the template will be updated synchronously. You can download the latest configuration file from <http://support.yealink.com/documentFront/forwardToDocumentDetailPage?documentId=243>



Importing the HTTPS Certificate

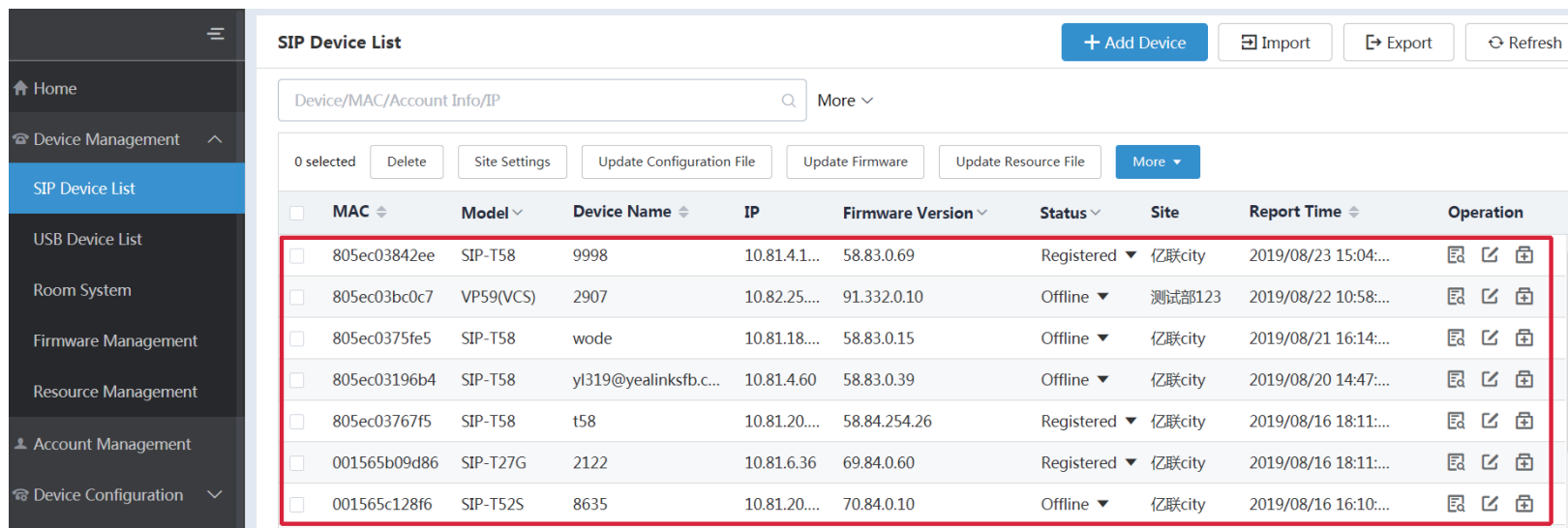
For the cluster deployment, you need to import HTTPS certificate. Otherwise, it will affect the mutual authentication between the phone and the server and cause the failure of pushing the configuration and firmware.






















1. Run command: `cd /usr/local/yealink/nginx/conf/ssl/`.
2. Replace the content in the `nginx.pem` file with the one in HTTPS certificate.
3. Run command: `systemctl restart nginx`

Deploying the SIP Device

1. Connect the device to the network.
2. The device and the server perform mutual TLS authentication using default certificates.
3. Obtain the server address:
 - With a running provisioning server, you need to configure the corresponding Common.cfg file (for example, <y0000000000xx>.cfg).
In the corresponding Common.cfg file, do the following:
 - ① If the firmware does not support YMDP, you need configure the parameters.
 - ② Configure the provisioning URL to connect the device to YDMP.
 - Without a running provisioning server, you can obtain the server address via the DHCP option 66, 43, 160 or 161.
The DHCP option value must meet this format: https://<IP address>/dm.cfg (for example: https://10.2.62.12/dm.cfg).

After you finish the deployment, the device will be connected to YDMP and be displayed in the Device List.



MAC	Model	Device Name	IP	Firmware Version	Status	Site	Report Time	Operation
805ec03842ee	SIP-T58	9998	10.81.4.1...	58.83.0.69	Registered	亿联city	2019/08/23 15:04:...	  
805ec03bc0c7	VP59(VCS)	2907	10.82.25....	91.332.0.10	Offline	测试部123	2019/08/22 10:58:...	  
805ec0375fe5	SIP-T58	wode	10.81.18....	58.83.0.15	Offline	亿联city	2019/08/21 16:14:...	  
805ec03196b4	SIP-T58	yl319@yealinksf.c...	10.81.4.60	58.83.0.39	Offline	亿联city	2019/08/20 14:47:...	  
805ec03767f5	SIP-T58	t58	10.81.20....	58.84.254.26	Registered	亿联city	2019/08/16 18:11:...	  
001565b09d86	SIP-T27G	2122	10.81.6.36	69.84.0.60	Registered	亿联city	2019/08/16 18:11:...	  
001565c128f6	SIP-T52S	8635	10.81.20....	70.84.0.10	Offline	亿联city	2019/08/16 16:10:...	  

Deploying the MVC Series

On your MTouch, open Yealink Room Connect, go to **Remote Management**, and configure the related parameters. After that, the MVC series will be connected to YDMP automatically.

Deploying the USB Devices

Open USB Device Manager client, go to **Config DM Server**, and complete the corresponding configuration. The USB Device will be connected to the device management platform automatically.

Managing the Configuration

※ Adding the Configuration Template

The screenshot shows the 'Model Configuration' page in the Yealink Device Management Platform. The left sidebar has 'Model Configuration' highlighted with a red box and a red circle '1'. The top right has an 'Add Template' button with a red box and a red circle '2'. Below the search bar, there is a table with columns: Template Name, Model, Description, and Operation. The first row has 'T42' in the Template Name column, 'SIP-T42G(SFB)' in the Model column, and 'SIP T42-SfB' in the Description column. The Operation column has 'Save' and 'Cancel' buttons. A red box highlights the first row with a red circle '3'. A red circle '4' highlights the 'Save' button. A red arrow points from the text 'You can add only one configuration template for a device model.' to the first row.


You can add only one configuration template for a device model.

※ Configuring and Updating the Parameter to the Device

Step 1: click  to go to the Set Template Parameters page.

The screenshot shows the 'Model Configuration' page in the Yealink Device Management Platform. The left sidebar has 'Model Configuration' highlighted with a red box. The top right has an 'Add Template' button. Below the search bar, there is a table with columns: Template Name, Model, Description, and Operation. The first row has 'T42G' in the Template Name column, 'SIP-T42G' in the Model column, and 'T42G' in the Description column. The Operation column has a gear icon, a plus icon, a minus icon, and a three-dot menu icon. A red box highlights the gear icon.


Step 2: Configure the parameters.

Set Template Parameters | T48S Edit the parameter in the text. 




1




Account Directory Dsskey Features Network Security Settings




Auto Provision
Call Display
Configuration
Power Saving 1
Preference 2
SIP
TR069
Time&Date
Tones 3
Upgrade
Voice
Voice Monitoring




☒ Select All  Reset




Preference




☒ Language  Chinese_T ☐ Live Dialpad  Disabled ☐ Transparency  1

☐ Inter Digit Time(1~14s)  4 ☐ Inactive Level  Low ☐ Active Level  8

☐ Backlight Time(seconds)  Always On ☐ Watch Dog  Enabled ☐ Ring Type  Ring1.wav

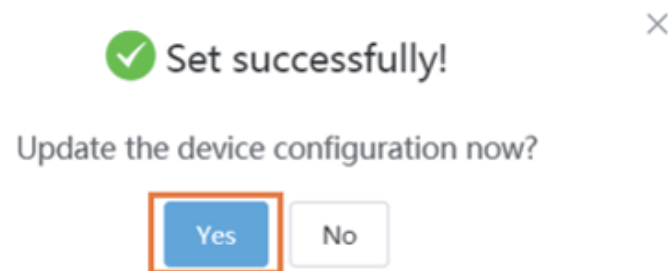
☐ Ringtone URL  ☒ Wallpaper  04.jpg ☐ Wallpaper URL 

☐ Wallpaper with Dsskey Unfold  Auto ☐ Screensaver Wait Time  6h ☐ Screensaver Display Clock  Enabled

☐ Screensaver Type  System ☐ XML Browser URL  ☐ Upload Screensaver 

2 Save Cancel

Step3: Update the device configuration file immediately.



Step 4: Push the parameters to update it.

1

Please select a site

MAC/Device Name/Account Info

<input checked="" type="checkbox"/>	MAC	Device Name	Account Info
<input checked="" type="checkbox"/>	001565f30702	T48S-ZYD	2572

>

Selected : 1

MAC	Device Name	Account Info
001565f30702	T48S-ZYD	2572

1

Push to Update

Cancel

Step 5: Select the execution mode.

Please select the execution mode

Note: After update, device configuration file will be overwritten

1

Execution mode ☒ At once ☐ Timing

2

OK

Cancel

Setting the SMTP Mailbox

SMTP mailbox can be used to send the related information to the users or the administrators, such as the alarm and the account information.

Yealink Device management platform

Device Management Account Management Device Configuration Site Management Task Management Alarm Management Device Diagnostic Dashboard System Management Log Management Sub account management Mailbox Settings License

Mailbox Settings

* SMTP: exchange2013.yealinkuc.com

* Sender: liqj@yealinkuc.com

* Username: liqj@yealinkuc.com

* Password: *****

* Port: 587

☒ This server requires secure connections to the

TLS

☒ Enable the mailbox

Save Test email settings

(Optional) Enter an email address to test whether or not the email address you set is available.

Managing the Alarm

When the devices are abnormal, they will send alarms to the platform. You can solve the problem by managing the alarms.

Before you begin

You set the SMTP mailbox (on page 9).

※ Editing the Mailbox

This mailbox is used for receiving the alarm and the account information.

Yealink Device management platform

Device Management Account Management

Mailbox Settings

Account Settings

Account Settings Privacy Policy Exit

Username : admin

Password : ***** [Edit](#)

Basic Settings

* Company name yealink

Phone number 12345678901

* Email admin@yealink.com

Office address Huli district, Xiamen, Fujian Province

Country/Area China

Save Cancel

※ Adding the Alarm Strategy

Alarm Strategy

0 selected [Delete](#)

Strategy	Alarm Strate...	Notification ...	Status	Alarm Receiver	Alarm content	Devices	Operation	
<input type="checkbox"/>	CRITICAL ALARMS	Email,In-station	Real-time	On	hongy@yealink.com,balyf@yealink.com,h...	Bad call quality, Register failure, Update firm...	All	Edit
<input type="checkbox"/>	ALARM-A1	Email,In-station	Real-time	On	balyf@yealink.com	Bad call quality, Register failure, Update firm...	Site	Edit
<input type="checkbox"/>	system_default	Email,In-station	Real-time	On	liqj@yealink.com	Call failed, Hold failed, Resume failed, Play v...	All	Edit

Add strategy

1 Set basic information 2 Alarm Receiver 3 Alarm content 4 Devices 5 Finish

* Strategy: CRITICAL ALARMS

* Alarm Strategy: ☒ Email ☐ In-Station

* Notification frequency: ☒ Real-time ☐ Daily ☐ Weekly

Status: ☒ On

Configure the basic information, the alarm receivers, the alarm content, and the devices.

[Next step](#) [Cancel](#)

※ Viewing the Alarm

Alarm List

Use the default filter in the system to view the filtered alarm content. You can also customize the filter.

[Export](#)

Device name/MAC/IP/Model [More](#)

0 selected [Delete](#) [Resolved](#) [Ignore](#) [Active](#)

Select the desired alarm, click Resolved/Ignore/Active to edit the alarm status.

Status	MAC	Device Name	Model	Site	IP	Alarm Severity	Alarm Time	Alarm Type	Module	Operation
<input type="checkbox"/> Active	e0d55efda9be	99999	MVC400	Yealink	10.86.3.13	Critical	2020/04/30 09:31:00	Offline	Connectivity	Detail Copy Download
<input type="checkbox"/> Active	001565c69d03	BYF-T41S	SIP-T41S	balyf测试站...	10.81.88.65	Critical	2020/04/28 18:05:00	Offline	Connectivity	Detail Copy Download
<input type="checkbox"/> Active	805ec03c3738	5002	SIP-T57W	Yealink	10.71.1.25	Critical	2020/04/27 11:17:06	Register failure	Protocol	Detail Copy Download

Click the detail to view the alarm information.

Click to go to the page of Device Diagnostic.

More Information

For more information about YDMP, refer to <http://support.yealink.com/>.