

Yealink Meeting Server Installation Guide

Version 20.0.0.5 Dec.2018

About This Guide

This guide introduces how to install the YMS software.

YMS installation method includes: stand-alone installation or cluster installation.

The differences between them are described as below:

Туре	Description			
Stand-Alone installation	One stand-alone YMS but with all services.			
	Multiple YMSs, including the following node types:			
	• Master node : it includes all the YMS services.			
Cluster installation	• Sub-master node : if you want to realize the disaster recovery for all features, it must contain 2 sub-master nodes.			
	• Business node : you can destribute the desired service on each business node according to the enterprise deployment need. The services contain SIP service, MCU service and so on.			

In This Guide

This guide contains the following chapters:

- Chapter 1 Creating a Data Backup for YMS 1.X
- Chapter 2 Uninstalling YMS 1.X

Chapter 3 YMS Stand-Alone Installation

Chapter 4 Expanding the Stand-Alone YMS

Chapter 5 Installing the Cluster YMS

Chapter 6 Uninstalling YMS 2.0

Table of Contents

About This Guide	iii
In This Guide	iii
Table of Contents	iii
Creating a Data Backup for YMS 1.X	1
Saving the Important Data by Screenshot Exporting All Call Statistics Making a Backup for the System Data	2
Uninstalling YMS 1.X	5
YMS Stand-Alone Installation	7
Installing the Stand-Alone YMS with the Existing CentOS Installing YMS by Importing OVA/OVF Files	
Expanding the Stand-Alone YMS	13
Installing the Cluster YMS	15
Uninstalling YMS 2.0	19

Creating a Data Backup for YMS 1.X

If you use YMS 1.X, you need make a data backup first. Because when you upgrade YMS 1.X to YMS 2.0, you need uninstall YMS 1.X and the data on it will be deleted.

After the data backup, please contact Yealink to do the data migration.

Saving the Important Data by Screenshot

We recommend that you save the following configuration by screenshot:

 Click System->Call Settings->Global settings, and take screenshots of all the configuration.

Yealink	Meeting Server YMS D	EMO	Home	Quick settings	English +	Admin -
-\v-	- Call Settings	Global settings				
Status	Global settings					
	Call routing	Video resolution				
1	LDAP	Max video resolution : 360P/30FPS *				
Account	- Gateway Configuration	Max content sharing				
	H.323	resolution : 720P/5FPS *				
Meeting	SIP trunk					
Room	SIP trunk ACL	Call bandwidth				
VMR	SIP trunk IVR	Call bandwidth : 512Kbps Umit the bandwidth of media being received by Yealink Meeting Server from individual				
VMR	Skype for Business Server	participants.				
	- System Settings	laws to the second s				
Conference	Network	Layout Display participant name :				
Control	Time/Time zone	Default lavout ;				
Ċ	SMTP mailbox	Equal NxN : 4*4				
Statistics	Disk space	Max number of videos displayed in equal NaN layout				
•	- Security	When the number of videos exceed the maximum, every 30s •				
System	Registration blacklist	one video switches per cycle				
	Conference blacklist	all videos switch per cycle				
		ana Musaki sa Kuriya a	_			

• Click System->Call Settings->Call routing, and take screenshots of all the configuration.

4	- Call Settings	Call routing						Add Call Routing F
tatus	Global settings							<u></u> ,
	Call routing	The Batch delete						
2	LDAP	Name	Priority	Destination match	Call target	Out location	Enable	Operation
count	- Gateway Configuration	to_sfb_client	1	^888(\d+)@	SFB	to_sfb		/ 亩
~	H.323	to_sfb_mcu	2	^666\d+@	SFB	to_sfb		/ 亩
eting	SIP trunk	to_sfb_client1	3	yl(\d+)@	SFB	to_sfb		/ 亩
om	SIP trunk ACL	🗉 shouji	4	^(\d(11))\$	PSTN	testtjy		/ 亩
R	SIP trunk IVR	to_sfb_client2	6	^8888(\d+)@	SFB	to_sfb		/ 亩
ИR	Skype for Business Server	test	10	^0(\d+)\$	PSTN	testtjy		/ 亩
	- System Settings							
erence	Network							
	Time/Time zone							
tics	SMTP mailbox							
sucs	Disk space							
8	- Security							
tem	Registration blacklist					All 6 records 5	🗸 rows per pag	e page 💶 🔇

 Click System->Gateway Configuration->SIP trunk IVR, and take screenshots of all the configuration.

Yealinl	K Meeting Server YMS	DEMO					Home	Quick settings	English 🔹 🔔 A	dmin
-//-	- Call Settings	SIP Trun	k IVR 🕐				7			
Status	Global settings									
	Call routing	R	eceptionis	t Greeting Prompt Co	nfiguration					
1	LDAP		Configure g	reeting	Greeting (Current IVR lanuage	: Portuguese)				
Account	- Gateway Configuration		prompt :	Persona	I Greeting					
	H.323			🖀 Selec	t file	Browse Upload				
Meeting Room	SIP trunk			The uploade	ed personal greeting must be a .way	file which cannot exceed 10MB.				
_	SIP trunk ACL									
VMR	SIP trunk IVR	M	lenu Optic							
VIVIE	Skype for Business Server			first-level extension dialing						
6	- System Settings		Key	Description	Action	Action Data				
onference Control	Network		0	Extension dialing	Extension dialing	*				
	Time/Time zone		1	Conference dialing	Conference dialing	*				
Catistics	SMTP mailbox		2			•				
	Disk space		3							
۵.	- Security									
System	Registration blacklist		4			*				
	Conference blacklist		5			*				

Exporting All Call Statistics

Procedure:

1. Click **Statistics**->**Export**.

	istics (2018/10/27 ~ 20							
Near	y one month Nearly 3 mon	ths Nearly half a year Nearl	y one year					
	Conference details	Total conferences 53	Total di 27:2		Ports details	Total ports 30	Ma	x concurrent ports 9
	Туре	Conference times	Dura	tion	Rank	Concurrent ports		Frequency
	P2P	15 (28.30%)	00:51	8-79		1		41.03%
		as (conserve)			2	2		25.64%
	Meet Now	21 (39.62%)	01:34	6:17	8	3		7.69%
					10	5		7.69%
	Scheduled	17 (32.08%)	24:5	1:23	12	Others		17.95%
Rec	ord All P2P	Meet Now Scheduled	Search		٩			Export
	Subject		Туре	ID	Time		Duration	Detail
1	Wilson SU-Yealink's vid	eo conference	Meet Now	62610	2018/11/27 02:52:45 - 02:52:52		00:00:07	View
2	Sala1's video conferenc	e	Meet Now	54936	2018/11/27 01:05:31 - 01:05:32		00:00:01	View
3	Sala1's video conferenc	e	Meet Now	32611	2018/11/27 01:05:04 - 01:05:29		00:00:25	View
4	Wilson SU-Yealink's vid	eoconferência	Scheduled	86623	2018/11/26 15:44:50 - 16:30:00		00:45:10	View

Making a Backup for the System Data

Make sure there is no ongoing conferences before making the backup.

Procedure:

- 1. Click System->System Maintenance->Backup/Restore->Create Backup.
- 2. Click \bigstar on the right side of the created backup to download it to your computer.

Yealin	K Meeting Server Y		k Network Technology Co.,Ltd		Home	Quick settings English + (1) Admin
<u></u>	Disk space	•	Backup/Restore		⊕Create backup	load backup file 🛛 🛱 Auto backup settings
Status	- Security		📅 Batch delete			
1	Registration blacklist		File name	File size(MB)	Build time	Operation
Account	Conference blacklist		AutoBackup_20181127_120000.tar.gz	85.14	2018/11/27 00:00:00	★ C 亩
~	IP call blacklist		AutoBackup_20181126_120000.tar.gz	85.14	2018/11/26 00:00:00	★ C 亩
Meeting	- System Maintenance		AutoBackup_20181125_120000.tar.gz	85.13	2018/11/25 00:00:00	* C 亩
Room	Device upgrade		Backup_20181109_164627.tar.gz	85.19	2018/11/09 16:46:26	★ C 亩
VMR		•	Backup_20181108_152854.tar.gz	85.15	2018/11/08 15:28:53	本 C 亩
VMR	System upgrade		Backup_20181102_170837.tar.gz	85.10	2018/11/02 17:08:37	* C 亩
6	Reboot/Factory reset		Backup_20181017_094557.tar.gz	84.74	2018/10/17 09:45:58	★ C 亩
Conference Control	- Licenses Video port					
e	Broadcast port					
Statistics	Trusted CA Certificate					
	- System Log	- 1				
System	Server log	- 1			All 7 records 5	0 ▼ rows per page page 1 ▼
system	Device log					

Uninstalling YMS 1.X

If you use YMS 1.X, you need uninstall it before installing YMS 2.0.

Procedure (log into CentOS as the root):

- **1.** Open Terminal.
- 2. Run the command: apollo_util.sh uninstall 11055011 no

YMS Stand-Alone Installation

You can select one of the following ways to install YMS:

- Installing the Stand-Alone YMS with the Existing CentOS
- Installing YMS by Importing OVA/OVF Files

Installing the Stand-Alone YMS with the Existing CentOS

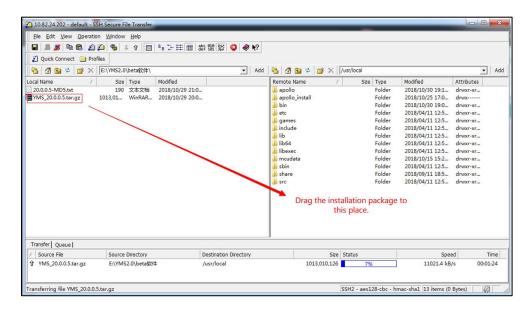
Before you begin:

If the installation environment cannot access the external network, we recommend that you use CentOS 7.5 or later. If it can access the external network, the operating system can be CentOS 7.0 or later.

Procedure:

1. Put the installation package in the path of /usr/local.

For example, put the installation package in the specific path by using SSH Secure File Transfer Client.



2. Use SecureCRT to log into CentOS via SSH and run the following command:

cd /usr/local tar xvzf Apollo_20.0.0.1.tar.gz cd apollo_install tar xvzf install.tar.gz

./install.sh

3. Enter A to select stand-alone installation.

If you do not select within 30 seconds, the system will select the stand-alone installation automatically. The installation will be finished in about 10 minutes. Please wait.

43 X3 La 43 X3 La 42 H3 La 53 A La 54 A	
	Ŧ
✓ 10.82.24.202 (1)	4 Þ
<pre>omcrypt-1.17-26.e17.x86_64 /usr/local/apollo/ansible/rpm/libtomcrypt-1.17-26.e17.x86_64.rpm: do e installed package. Examining /usr/local/apollo/ansible/rpm/libtommath-0.42.0-6.e17.x86_ ommath-0.42.0-6.e17.x86_64 /usr/local/apollo/ansible/rpm/libtommath-0.42.0-6.e17.x86_64.rpm: do e installed package.</pre>	64.rpm: libt
Examining /usr/local/apollo/ansible/rpm/libyaml-0.1.4-11.el7_0.x86_6 ml-0.1.4-11.el7_0.x86_64 /usr/local/apollo/ansible/rpm/libyaml-0.1.4-11.el7_0.x86_64.rpm: doe installed package. Examining /usr/local/apollo/ansible/rpm/sshpass-1.06-2.el7.x86_64 /usr/local/apollo/ansible/rpm/sshpass-1.06-2.el7.x86_64.rpm: does no talled package. Nothing to do	s not update m: sshpass-1
Default profile /usr/local/apollo/data/install.conf does not exist. please make a choice: !!! timeout 30 seconds, timeout default is [A]. [A]. Deploy allinone with default 127.0.0.1 [B]. Create default profile and then exit to edit it Please Input your choice: A	
就绪 ssh2: AES-256-CTR 24, 28 24行, 80列 VT100	大写数字。

The installation succeeds if the page displays the following part:

PLAY RECAP	****	****
manager-master	: ok=1249 changed=582 un	

Installing YMS by Importing OVA/OVF Files

Before you begin

You should check the following points:

• If you want to install YMS to a virtual machine, the following types of virtual machine are recommended:

Feature	Description		
Туре	• VMware ESXi 6.5 or later		
Туре	Microsoft Hyper-V Server 2012 or later		

• You can obtain the YMS setup file from the Yealink distributor or Yealink technical support engineer, and the YMS setup file contains the OVF and VMDK file or OVA file.

Procedure:

- **1.** Log into the ESXi host.
- 2. Click **Host** in the Navigator, and then select **Create/Register VM** to create a virtual machine.



3. Select Deploy a virtual machine from an OVF or OVA file.

🐿 New virtual machine			
 New virtual machine 1 Select creation type 2 Select OVF and VMDK files 3 Select storage 4 License agreements 5 Deployment options 6 Additional settings 7 Ready to complete 	Select creation type How would you like to create a Virtual Machine? Create a new virtual machine Deploy a virtual machine from an OVF or OVA file Register an existing virtual machine	This option guides you through the process virtual machine from an OVF and VMDK file	
vm ware [.]			
		Back Next Finish	Cancel

4. Click **Next** to continue.

5. Enter the name for the virtual machine, and then upload the OVF and VMDK file or OVA file.

🐿 New virtual machine - YMS-Test - Y	MS-Test
 1 Select creation type 2 Select OVF and VMDK files 3 Select storage 4 Deployment options 5 Ready to complete 	Select OVF and VMDK files Select the OVF and VMDK files or OVA for the VM you would like to deploy Enter a name for the virtual machine. YMS-Test Virtual machine names can contain up to 80 characters and they must be unique within each ESXi instance.
	× ₩ YMS1.1 test.ovf × ∰ disk-1.vmdk
vm ware*	
	Back Next Finish Cancel

(Take the OVF and VMDK file as an example)

6. Click **Next** to continue.

New virtual machine - YMS									
 1 Select creation type 2 Select OVF and VMDK files 	Select storage Select the datastore in which to store the configuration and disk files. The following datastores are accessible from the destination resource that you selected. Select the destination datastore for the virtual machine configuration files and all of the virtual disks.								
 3 Select storage 4 License agreements 5 Deployment options 									
6 Additional settings 7 Ready to complete	Name ~	Capacity ~	Free ~	Туре	✓ Thin pro… ✓	Access ~			
	datastore1	924 GB	632.9 GB	VMFS5	Supported	Single			
	datastore2	931.25 GB	717.3 GB	VMFS5	Supported	Single V			
	2 items								
vm ware [®]									
			Ba	ick	Next Finis	h Cancel			

7. Select the default destination datastore for the virtual machine configuration files and all of the virtual disks.

8. Click Next to continue.

🐿 New virtual machine - YMS							
 1 Select creation type 2 Select OVF and VMDK files 3 Select storage 	Deployment options Select deployment options						
4 Deployment options 5 Ready to complete	Network mappings	VM Network					
	Disk provisioning	● Thin ○ Thick					
vm ware [.]							
		Back Next Finish Cancel					

- **9.** Select **VM Network** from the drop-down menu of **VM Network**, and then select **Thin** in the Disk provisioning field.
- **10.** Click **Next** to continue.

🐿 New virtual machine - YMS - YMS - '	YMS						
✓ 1 Select creation type	Ready to complete						
2 Select OVF and VMDK files	Review your settings selection before finishing the wizard						
 3 Select storage 4 Deployment options 							
✓ 5 Ready to complete	Product	YMS1.1 test					
	VM Name	YMS					
	Disks	disk-1.vmdk datastore1					
	Datastore						
	Provisioning type	Thin					
	Network mappings	VM Network: VM Network					
	Guest OS Name	Unknown					
vm ware [.]	Do not refresh your brows	er while this VM is being depl	oyed.				
			Back	Next	Finish	Cancel	

11. Click Finish.

vmware esxi								root@10.200.110.210 - Help -	Q Search	
1 Navigator		localhost.yealink.com								
 Host Manage Monitor ♥ ♥ Virtual Machines 	14		com uiid 4887370) (not connected to any vCenter Serve		lefresh	Actions		CPU USED: 5.9 GHz MEMORY USED: 61.75 GB STORAGE USED: 672.32 GB	FREE: 27.7 OH: 15% CAPACITY: 33.6 OH: FREE: 214.00 97% CAPACITY: 63.90 OB FREE: 1.25 TB 31% CAPACITY: 1.81 TB	6 z 8 6 8 6
* Hardware			•		* Configu	* Configuration			t T	
		Manufacturer	Supermicro			Image pri	ofile	ESXI-6.5.0-20170104001-standard (VMware, Inc.)	
		Model	X10DRi			vSphere	HA state	Not configured		
		D CPU	16 CPUs x Intel(R) Xeon(R) CPU E5-2620 v4 @ 2.10GH;		GHz	► vMotion		Supported		
		Memory	63.89 GB		la fa ma ti a a					
		Virtual flash	0 B used, 0 B capacity			Date/time on host		Tuesday, October 17, 2017, 02:25:15 UTC		1.
		✓ 🤮 Networking				Install date		Wednesday, May 31, 2017, 11:07:27 UTC		-
Hostname		localhost.yealink.com			Asset tag		Unknown		`	
		Recent tasks						THE REAL PROPERTY OF THE PROPE		
		Task ~	Target ~	Initiator ~	Queued	~	Started ~	Result	 Completed • 	
		Import VApp	Resources	root	10/17/2017 0	9:58:05	10/17/2017 09:58:05	Failed - Operation timed out.	10/17/2017 10:16:46	
		Import VApp	Resources	root	10/17/2017 1	0:27:39	10/17/2017 10:27:39		S Running 42 %	
		Upload disk - disk-1.vmdk (1 of 1)	A YMS-Test	root	10/17/2017 0	9:30:58	10/17/2017 09:30:58		Running 42 %	

You can view the progress of uploading the files in the **Recent tasks** list.

After the files are uploaded successfully, the installation is completed.

Expanding the Stand-Alone YMS

For the stand-alone YMS, if you want to strengthen its MCU by making it become 1+N (N can be 1.2.3.4.5.6.....) with one master node and N business nodes, you can expand your YMS.

Before you begin:

- If the installation environment cannot access the external network, we recommend that you use CentOS 7.5 or later. If it can access the external network, the operating system can be CentOS 7.0 or later.
- The network among all of the nodes can be accessed. We recommend that all of the nodes can access the external network.
- YMS is not installed in all the business nodes.

Procedure:

1. Use SecureCRT to log into CentOS via SSH to run the following command:

vi /usr/local/apollo/data/install.conf

2. Enter A to edit the configuration file.

For example, set 10.86.0.33 as the master node, and 10.86.0.55 as the business node.

文件(F) 编辑(E) 查看(V) 选项(O) 传输(T) 脚本(S) 工具(L) 帮助(H)	
🖏 況 🗔 🎕 🔏 🕒 🕞 🥵 🎒 🖙 🎇 🎒 👘	÷
✓ 10.86.0.33	⊳
[global] # ansible_ssh_user = root # ansible_ssh_pass = XXXXXX # ansible_ssh_private_key_file=	*
[manager-master] ip=10.86.0.33 ansible_ssh_user=root ansible_ssh_pass = 123456	
[manager-slave-1] # ip=x.x.x.x	
[manager-slave-2] # ip=x.x.x.x	
[business-1] ip=10.86.0.55 ansible_ssh_user=root ansible_ssh_pass = Yealink1105	Ш
[business-2] INSERT	-
就绪	₹:

3. Press Esc to exit, and run the following command:

:wq

cd /usr/local/apollo_install

./install.sh

The installation succeeds if the page displays the following part:

PLAY RECAP	******	*****	*****	*****
business-1 business-2 manager-master	: ok=609 : ok=609	changed=291 changed=291	unreachable=0 unreachable=0 unreachable=0	failed=0 failed=0 failed=0

Installing the Cluster YMS

There are two plans for installing cluster YMS:

Plan A: 1+N (N can be 1.2.3.4.5.6.....), 1 master node and N business nodes. It does not have the disaster recovery feature, but it has multiple business nodes, with good service capability and low coupling.

Plan B: 3+N (N can be 1.2.3.4.5.6.....), 1 master node, 2 sub-master nodes, and N business nodes. It has disaster recovery feature (multi-machine backup feature).

Note that, there is no 2+N plan, that is 1 master node, 1 sub-master node and N business nodes. Because the sub-master node cannot be installed successfully, which makes it have the same effect as the plan A.

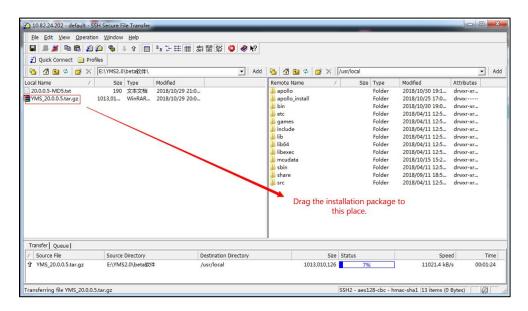
Before you begin:

- If the installation environment cannot access the external network, we recommend that you use CentOS 7.5 or later. If it can access the external network, the operational system can be CentOS 7.0 or later.
- The network among all of the nodes can be accessed. We recommend that all of the nodes can access the external network.
- YMS is not installed in all the business nodes.

Procedure:

1. Put the installation package in the path of /usr/local of the master node.

For example, put the installation package in the specific path by using SSH Secure File Transfer Client.



2. Use SecureCRT to log into CentOS via SSH and run the following command:

cd /usr/local tar xvzf Apollo_20.0.0.5.tar.gz cd apollo_install tar xvzf install.tar.gz ./install.sh

3. Enter B to select the cluster installation.

🔓 10.82.24.202 (1) - SecureCRT	
文件(F) 编辑(E) 查看(V) 选项(O) 传输(T) 脚本(S) 工具(L) 帮助(H)	
1 🕄 🕄 🖓 🖓 🗈 🖺 H 🕞 👺 🎒 🚰 💥 🕈 🛛 🖉	Ŧ
✓ 10.82.24.202 (1)	4 ⊳
<pre>Omcrypt-1.17-26.el7.x86_64 //usr/local/apollo/ansible/rpm/libtomcrypt-1.17-26.el7.x86_64.rpm: do e installed package.</pre>	es not updat 1
Examining /usr/local/apollo/ansible/rpm/libtommath-0.42.0-6.el7.x86_ ommath-0.42.0-6.el7.x86_64	
/usr/local/apollo/ansible/rpm/libtommath-0.42.0-6.el7.x86_64.rpm: do e installed package.	es not updat
Examining /usr/local/apollo/ansible/rpm/libyaml-0.1.4-11.el7_0.x86_6 ml-0.1.4-11.el7_0.x86_64	64.rpm: libya
/usr/local/apollo/ansible/rpm/libyaml-0.1.4-11.el7_0.x86_64.rpm: doe installed package.	es not update
Examining /usr/local/apollo/ansible/rpm/sshpass-1.06-2.el7.x86_64.rp .06-2.el7.x86_64	m: sshpass-1
/usr/local/apollo/ansible/rpm/sshpass-1.06-2.el7.x86_64.rpm: does no talled package. Nothing to do	nt update ins
Default profile /usr/local/apollo/data/install.conf does not exist. please make a choice:	
<pre>!!! timeout 30 seconds, timeout default is [A]. [A]. Deploy allinone with default 127.0.0.1 [B]. Create default profile and then exit to edit it</pre>	
Please Input your choice: B	*
就绪 ssh2: AES-256-CTR 24, 28 24行, 80列 VT100	大写数字。

- 4. Run the command: vi /usr/local/apollo/data/install.conf
- **5.** Enter A to edit the configuration file.

For example, set 10.86.0.202 as the master node, set 10.86.0.203 and 10.86.0.204 as the sub-master nodes, and set 10.86.0.208 as the business node.

		Ŧ
✓ 10.82.24.202 (1)	4 Þ	>
[global] #Global variable configuration. ansible_ssh_user = root #The default root authority, used for logging into the backend server. ansible_ssh_pass = Yealink@2018 #You can set the same backend login password for all nodes for unified specifying in this se # ansible_ssh_private_key_file= #No need configuration.	ntence	
<pre>[manager-master] #The IP address of the master node. ip=10.82.24.202 # ansible_ssh_user=root #The backend login password of the root authority of the master node. The password is set in the global configuration, so you do not need set the password again here.</pre>		
[manager-slave-1] 1p=10.82.24.203 #The IP address of the sub-master node.		
[manager-slave-2] ip=10.82.24.204		
[business-1] ip=10.82.24.208 #The IP address of the business node.		
[business-2] # ip=x.x.x.x		
[business-3] # ip=x.x.x.x INSERT		-

6. Press Esc to exit, and run the following command:

:wq

./install.sh

The installation succeeds if the page displays the following part:

Uninstalling YMS 2.0

Procedure (log into CentOS as the root user):

- **1.** Open Terminal.
- 2. Run the command: apollo-uninstall

For the cluster installation, you need run this command on each node.

3. Enter the password which can be obtained from Yealink.

Customer Feedback

We are striving to improve our documentation quality and we appreciate your feedback. Email your opinions and comments to *DocsFeedback@yealink.com*.

Technical Support

Visit Yealink WIKI (*http://support.yealink.com/*) for the latest firmware, guides, FAQ, Product documents, and more. For better service, we sincerely recommend you to use Yealink Ticketing system (*https://ticket.yealink.com*) to submit all your technical issues.