

Yealink SIP VP-T49G Release Notes of Version 22

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Yealink SIP IP Phones Release Notes of Version

51.22.0.5

1. Introduction

- Firmware Version:
T49G: 51.21.0.1 upgrades to 51.22.0.5
- Applicable Model: T49G
- Release Date: Feb 14th, 2017.

2. New Features

1. Added the feature that SIP VP-T49G is compatible with Yealink VC/Zoom/BlueJeans/Pexip/Mind/Custom Cloud-based video communications service.
2. Added the feature of H.323 Account Registration.
3. Added the feature of Dual-Stream Protocol (BFCP&H.239).
4. Added the feature of Output Resolution.
5. Added the feature of Video Conferencing.
6. Added the feature of Videoconferencing Key.
7. Added the feature of Virtual Meeting Rooms (VMR).

3. Optimization

1. Optimized the feature that you can use onscreen keyboard in dialing screen.
2. Optimized the dialing modes.
3. Added a VC Account page in the web user interface under the Account menu.

4. Bug Fixes

1. Fixed the issue that if the phone crashed during the call, after reboot, all the account information disappear from the phone user interface.
2. Fixed the issue that in the phone user interface, when you check the call stats, the Frame Rate is always 0 fbs.
3. Fixed the issue that when you use T49G IP phone to make a call, the Device Info displayed on other endpoint is wrong.

5. New Features Descriptions


1. Added the feature that SIP VP-T49G is compatible with Yealink VC/Zoom/BlueJeans/Pexip/Mind/Custom Cloud-based video communications service.

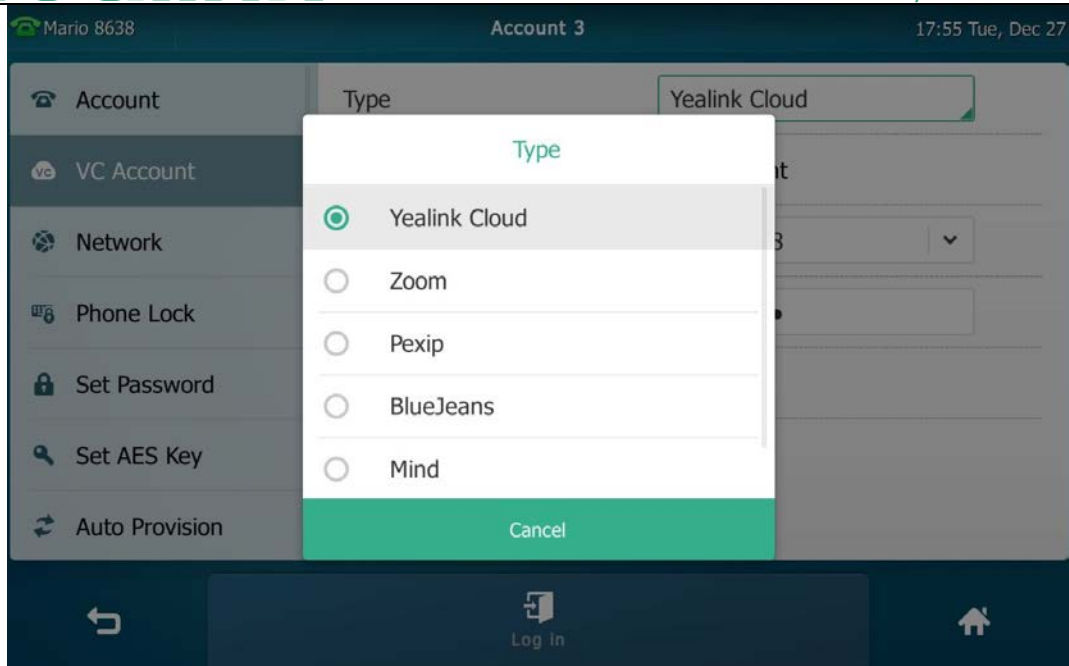
Description: SIP VP-T49G IP phones only support SIP account by default, after enabling the video conferencing feature, the IP phone can also support Cloud account. The IP phones are compatible with Yealink VC/Zoom/BlueJeans/Pexip/Mind/Custom Cloud-based video communications service. Meanwhile, you can enable or disable the video conferencing feature to display the related cloud account configuration at the web path of Settings->Video->Video Conferencing Features.

The parameters in the auto provision template are described as follows:

vcaccount.enable =
cloud.account.X.type =
cloud.account.X.label =
cloud.account.X.user_name =
cloud.account.X.alias =
cloud.account.X.register_name =
cloud.account.X.sip_server.address =
cloud.account.X.password =
cloud.account.X.sip_server.transport_type =
cloud.account.X.srtp_encryption =
cloud.account.X.dtmf.type =
cloud.account.X.dtmf.info_type =
cloud.account.X.dtmf.dtmf_payload =
cloud.account.X.keep_alive_interval =

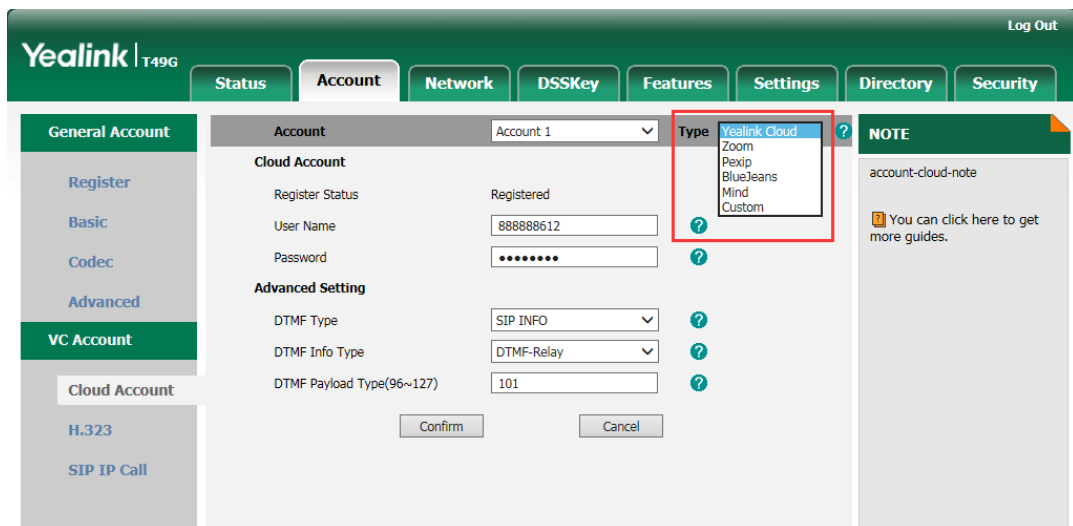
To configure the type of Cloud account via phone user interface:

Tap  -> **Advanced** (default password: admin) -> **VC Account** -> **Cloud Account** -> **Type**.



To configure the type of Cloud account via web user interface:

Click **Account** -> **Cloud Account** -> **Type**



2. Added the feature of H.323 Account Registration.

Description: The SIP VP-T49G IP phone only support SIP protocol by default, after enabling the video conferencing feature, the IP phone can also support H.323 call protocols. You can register an H.323 account to directly communicate with H.323 endpoints.

The parameters in the auto provision template are described as follows:

account_h323.auto_answer =

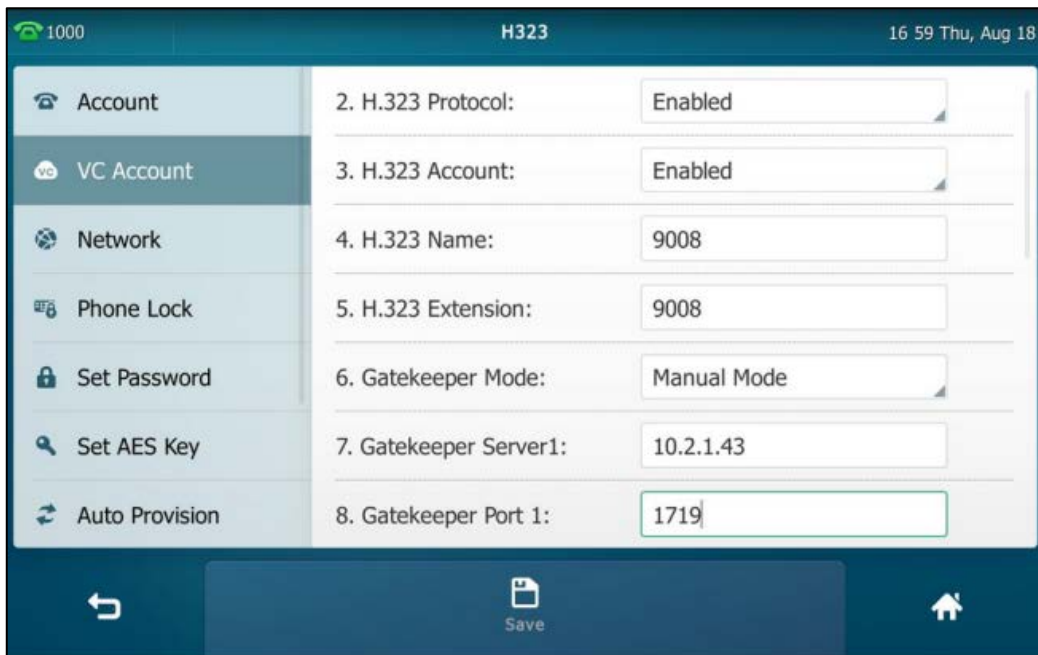
features.h323_protocol.enable =

account_h323.enable =

```
account_h323.name =
account_h323.extension =
account_h323.gk_server.Y.address =
account_h323.gk_server.Y.port =
account_h323.gk_mode =
account_h323.gk_auth.enable =
account_h323.gk_username =
account_h323.gk_password =
account_h323.h460.enable =
account_h323.tunneling.enable =
account_h323.h235_type =
account_h323.h323_port =
h323.user_cap.enable =
h323.video_sdp_report_twice =
```

To register an H.323 account via phone user interface:

Tap  -> **Advanced** (default password: admin) -> **VC Account** -> **H323**.



Step	Field	Value
2.	H.323 Protocol:	Enabled
3.	H.323 Account:	Enabled
4.	H.323 Name:	9008
5.	H.323 Extension:	9008
6.	Gatekeeper Mode:	Manual Mode
7.	Gatekeeper Server1:	10.2.1.43
8.	Gatekeeper Port 1:	1719

To register an H.323 account via web user interface:

Click **Account** -> **H.323**

Yealink T49G		Status	Account	Network	DSSKey	Features	Settings	Directory	Security
General Account									
Register									
Basic									
Codec									
Advanced									
VC Account									
Cloud Account									
H.323									
SIP IP Call									
Register Status	Unregistered								
H.323 Protocol	Enabled ?								
H.323 Account	Enabled ?								
H.323 Auto Answer	Disabled ?								
H.323 Name									
H.323 Extension									
Gatekeeper Mode	Disabled ?								
Gatekeeper IP Address 1								Port	1719 ?
Gatekeeper IP Address 2								Port	1719 ?
Gatekeeper Authentication	Disabled ?								
Gatekeeper Username									
Gatekeeper Password	***** ?								
H.460 Active	Disabled ?								
H.323 Tunneling	Disabled ?								
H235 Encryption	Disabled ?								
Protocol Monitor Port	1720 ?								
DTMF Type	Auto ?								
Local Early Media	Disabled ?								
H.239	Enabled ?								
		Confirm		Cancel					

NOTE
 account-h323-note
 You can click here to get more guides.

3. Added the feature of Dual-Stream Protocol (BFCP&H.239).

Description: The SIP VP-T49G IP phones support the standard H.239 protocol and BFCP (Binary Floor Control Protocol). H.239 protocol is used when sharing content with the far site in H.323 calls. BFCP protocol is used when sharing content with the far site in SIP calls. You can configure the BFCP for Cloud account (except Yealink Cloud account) and SIP IP call respectively. Before enabling the desired protocol, ensure that the protocol is supported and enabled by the far site you wish to call.

The parameters in the auto provision template are described as follows:

h323.h239.enable =

cloud.account.X.bfcp.enable =

To configure H.239 protocol via phone user interface:


Tap  -> **Advanced** (default password: admin) -> **VC Account** -> **H.323**.

Mario 8638 H.323 15:30 Thu, Dec 29

Account	14. H.460 Active:	Disabled
VC Account	15. H.323 Tunneling:	Disabled
Network	16. H235 Encryption:	Disabled
Phone Lock	17. Protocol Monitor Port:	1720
Set Password	18. DTMF Type:	Auto
Set AES Key	19. Local Early Media:	Disabled
Auto Provision	20. H.239:	Enabled

Save

To configure BFCP protocol for SIP IP call via phone user interface:

Tap  -> **Advanced** (default password: admin) -> **VC Account** -> **SIP IP Call**.

Mario 8638 SIP IP Call 11 16 Tue, Dec 27

Account	4. SRTP:	Disabled
VC Account	5. DTMF Type:	RFC2833
Network	6. DTMF Info Type:	DTMF-Relay
Phone Lock	7. DTMF Payload Type:	101
Set Password	8. RPort:	Disabled
Set AES Key	9. NAT:	Disabled
Auto Provision	10. BFCP:	Enabled

Save

To configure H.239 protocol via web user interface:

Click **Account** -> **H.323**.

Yealink | T49G Log Out

Account | Status | Network | DSSKey | Features | Settings | Directory | Security

General Account

Register Status: Unregistered

H.323 Protocol: Enabled

H.323 Account: Enabled

H.323 Auto Answer: Disabled

H.323 Name:

H.323 Extension:

Gatekeeper Mode: Disabled

Gatekeeper IP Address 1: Port 1719

Gatekeeper IP Address 2: Port 1719

Gatekeeper Authentication: Disabled

Gatekeeper Username:

Gatekeeper Password:

H.460 Active: Disabled

H.323 Tunneling: Disabled

H.235 Encryption: Disabled

Protocol Monitor Port: 1720

DTMF Type: Auto

Local Early Media: Disabled

H.239: Enabled

Confirm Cancel

NOTE

account-h323-note

You can click here to get more guides.

To configure BFCP protocol for Cloud account (except Yealink Cloud account) via web user interface:

Click **Account** -> **Cloud Account**.

Yealink | T49G Log Out

Account | Status | Network | DSSKey | Features | Settings | Directory | Security

Cloud Account

Account: Account 3 Type: Zoom

Register Status: Registered

Label: Zoom

Server Host: zoomcrc.com

Transport: TCP

SRTP: Disabled

DTMF Type: RFC2833

DTMF Info Type: DTMF-Relay

DTMF Payload Type(96~127): 101

Keep Alive Interval(Seconds): 30

BFCP: Enabled

Confirm Cancel

NOTE

account-cloud-note

You can click here to get more guides.

4. Added the feature of Output Resolution.

Description: SIP VP-T49G IP phones support output resolution adjustment. You can adjust output resolution of IP phone or external monitor.

Make sure the external monitor has been connected to the SIP VP-T49G IP phone before configuration.

The parameters in the auto provision template are described as follows:

features.hdmi_out.resolution =

`features.video_min_framerate =`

`account.X.video.max_resolution =`

To configure the maximum video resolution via web user interface:

Click **Account** -> **Basic**.

The screenshot shows the Yealink T49G web interface. The top navigation bar includes 'Status', 'Account', 'Network', 'DSSKey', 'Features', 'Settings', 'Directory', and 'Security'. The 'Account' tab is selected, and the 'Basic' sub-tab is active. On the left sidebar, 'General Account' is expanded, showing 'Register', 'Basic', 'Codec', and 'Advanced'. The main content area displays configuration options for 'Account 1'. The 'Video Resolution' dropdown is highlighted with a red box and set to '1920x1080'. Other options include 'Proxy Require', 'Local Anonymous', 'Local Anonymous Rejection', 'Send Anonymous Code', 'On Code', 'Off Code', 'Send Anonymous Rejection Code', 'Missed Call Log', 'Auto Answer', and 'Ring Type'. A 'NOTE' section on the right provides information about 'Basic' and 'Proxy Require' settings.

To configure the output resolution of external monitor via web user interface:

Click **Settings** -> **Video**.

The screenshot shows the Yealink T49G web interface. The top navigation bar includes 'Status', 'Account', 'Network', 'DSSKey', 'Features', 'Settings', 'Directory', and 'Security'. The 'Settings' tab is selected, and the 'Video' sub-tab is active. On the left sidebar, 'Preference' is expanded, showing 'Time & Date', 'Call Display', 'Upgrade', 'Auto Provision', 'Configuration', 'Dial Plan', 'Voice', 'Ring', 'Tones', 'Softkey Layout', 'TR069', 'Voice Monitoring', 'SIP', 'Camera', and 'Video'. The main content area displays 'Video Settings'. The 'Output Resolution' dropdown is highlighted with a red box and set to 'Auto'. Other options include 'Video Active', 'Auto Start Video', 'Auto Answer Video Mute', 'Uplink Bandwidth', 'Downlink Bandwidth', and 'Video Conferencing Features'. A 'NOTE' section on the right provides information about 'Video' parameters.

5. Added the feature of Video Conferencing.

Description: You can enable video conferencing feature to be able to configure or use the following features:

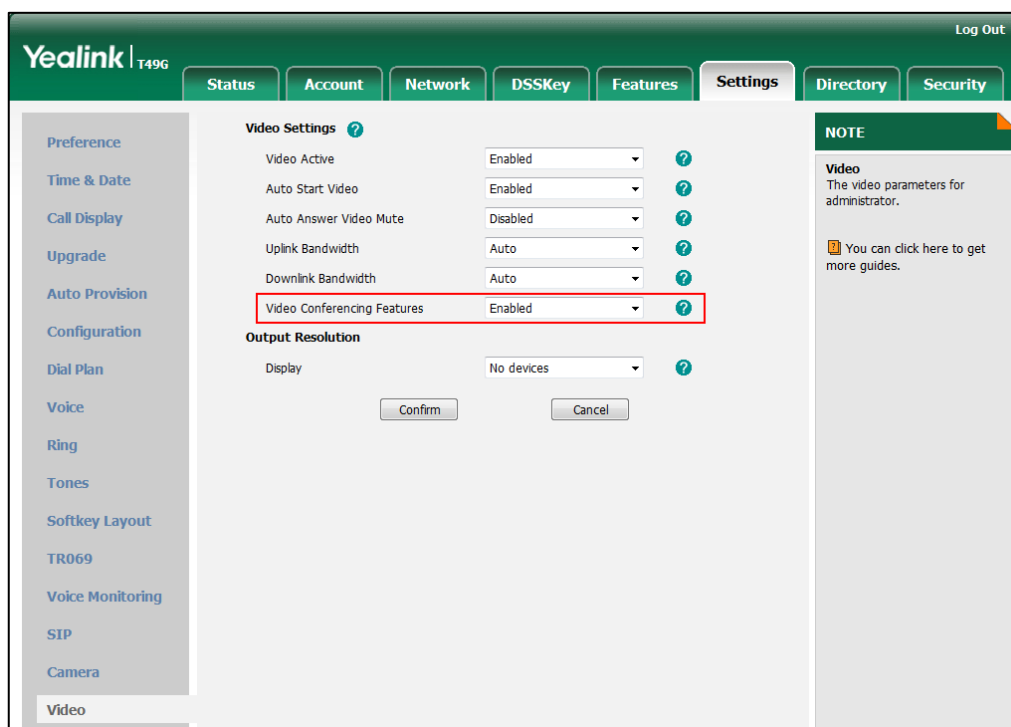
- Setup Wizard
- Cloud Account Registration
- H.323 Account Registration
- Cloud Phone Book
- Direct IP Call
- Auto Answer
- Receiving Presentations
- Virtual Meeting Rooms (VMR)
- Call Stats
- Videoconferencing Key

The parameters in the auto provision template are described as follows:

vcaccount.enable =

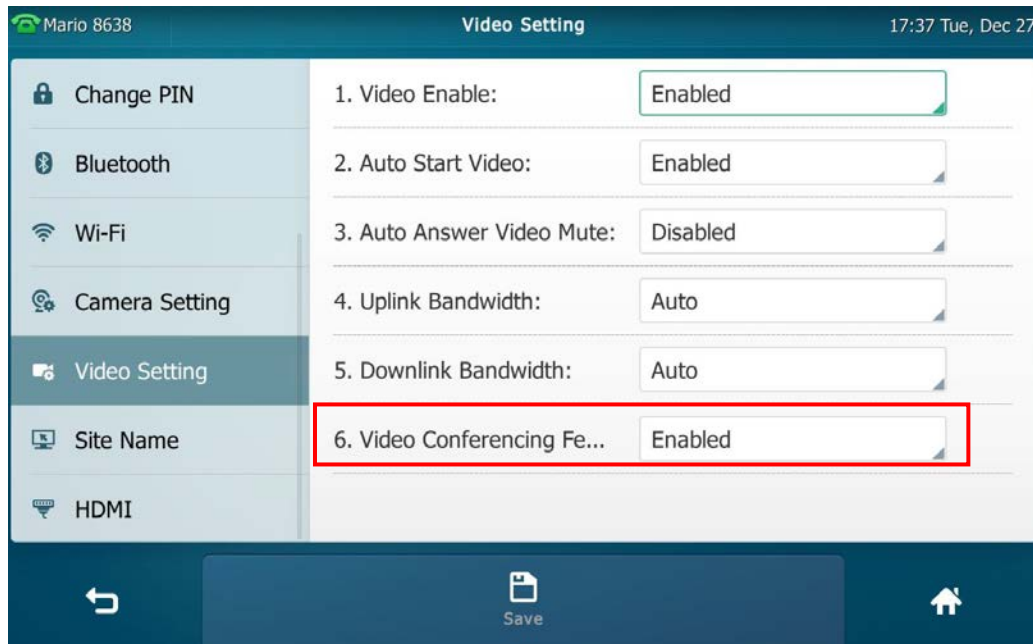
To configure video conferencing feature via web user interface:

Click **Settings** -> **Video**.



To configure video conferencing feature via phone user interface:

Tap  -> **Basic** -> **Video Setting**.



6. Added the feature of Videoconferencing Key.

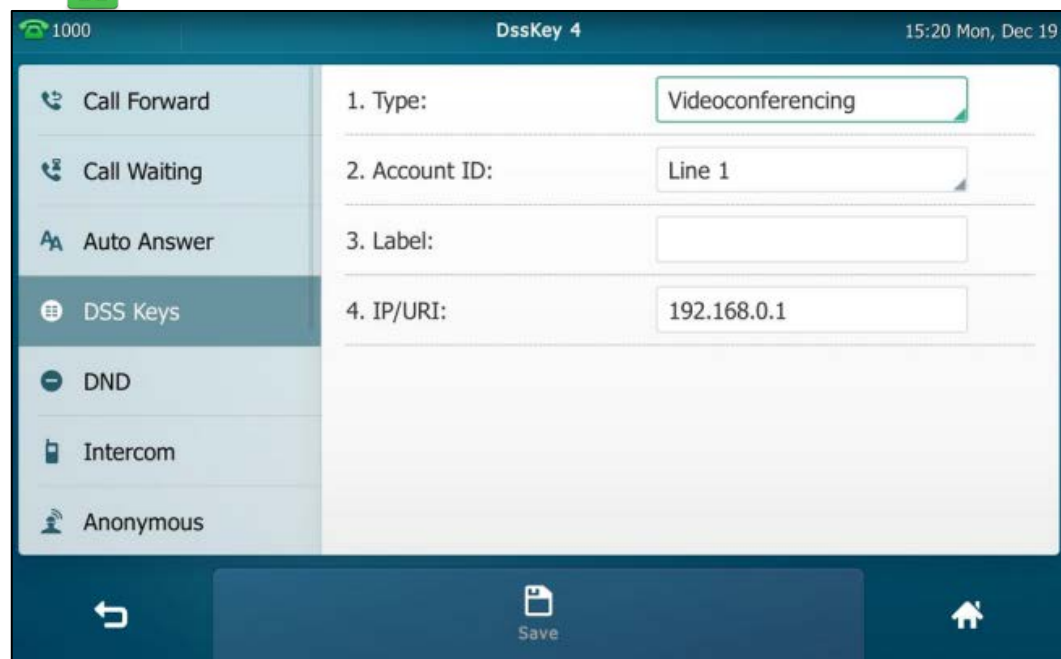
Description: You can use videoconferencing key to make a video call, to set up a video conference or add a party to the conference. Before configuring a videoconferencing key, you should enable the video conferencing feature first.

The parameters in the auto provision template are described as follows:

linekey.X.type =87

To configure a videoconferencing key via phone user interface:

Tap  -> **Features** -> **DSS Keys**.



To configure a videoconferencing key via web user interface:

Click **DSSKey** -> **Line key**.

The screenshot shows the Yealink T49G web interface with the 'DSSKey' tab selected. On the left, there's a sidebar with 'Line Key1-11', 'Line Key12-20', 'Line Key21-29', and 'Programable Key'. The main area has a table for configuring DSS keys. A dropdown menu is open for 'Line Key3', showing various options including 'Videoconferencing' (highlighted in red). The table has columns for Key, Type, Value, Label, Line, and Extension. On the right, there's a 'NOTE' section with information about Key Type, Key Event, and Intercom.

Key	Type	Value	Label	Line	Extension
Line Key1	Line		888882536	Line 1	
Line Key2	Line		曾海	Line 2	
Line Key3	Videoconferen			Line 3	
Line Key4	Transfer			Line 4	
Line Key5	Hold			Line 5	
Line Key6	DND			Line 6	
Line Key7	ReCall			Line 7	
Line Key8	SMS			Line 8	
Line Key9	Record			Line 9	
Line Key10	URL Record			Line 10	
Line Key11	Multicast Paging			Line 11	

This screenshot shows the same Yealink T49G web interface, but now 'Line Key3' is highlighted with a red box. The 'Type' dropdown for 'Line Key3' is set to 'Videoconferen'. The 'Value' field is empty, and the 'Line' dropdown is set to 'Auto'. The 'Confirm' and 'Cancel' buttons are visible at the bottom of the table.

7. Added the feature of Virtual Meeting Rooms (VMR).

Description: You can access Virtual Meeting Rooms(VMR) using SIP VP-T49G IP phone, whilst benefiting from both the hardware features provided by Yealink, such as 1080p HD video and audio, and software features provided by Zoom/BlueJeans/Pexip/Mind, including high end customization & interoperability.

If you have registered a Cloud account, you can dial out the meeting ID to join the VMR.

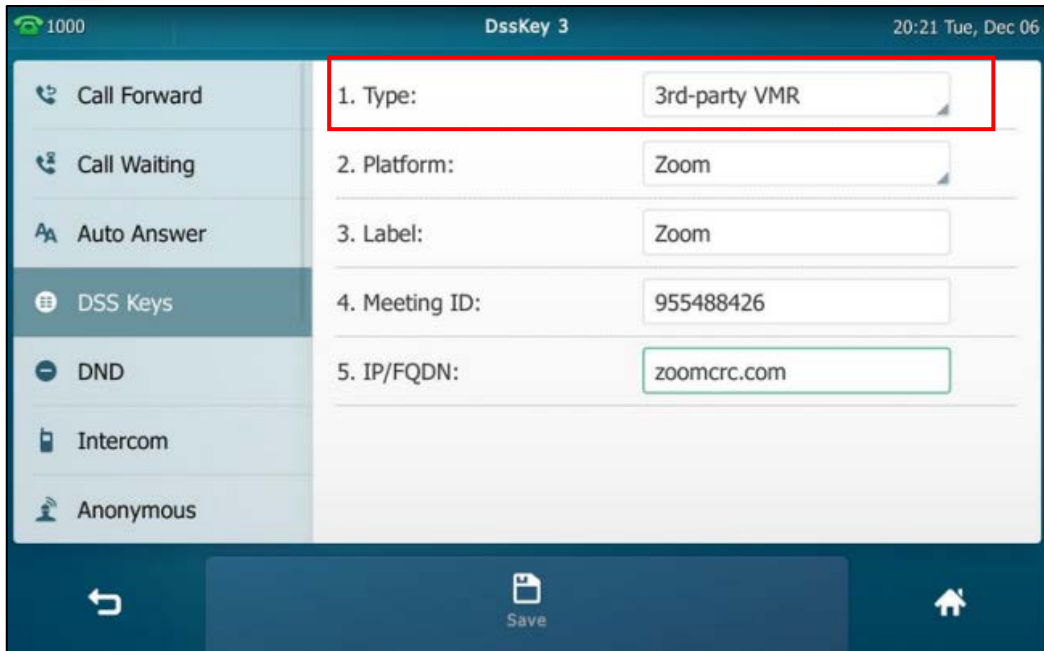
If you haven't registered a Cloud account, you can configure a 3rd-party VMR key to quickly join a VMR. It is only applicable to Zoom/BlueJeans/Custom platform.

The parameters in the auto provision template are described as follows:

linekey.X.type =86

To configure a 3rd-party VMR key via phone user interface:

Tap  -> Features -> DSS Keys.



1000 DssKey 3 20:21 Tue, Dec 06

Call Forward

Call Waiting

Auto Answer

DSS Keys

DND

Intercom

Anonymous

1. Type: 3rd-party VMR

2. Platform: Zoom

3. Label: Zoom

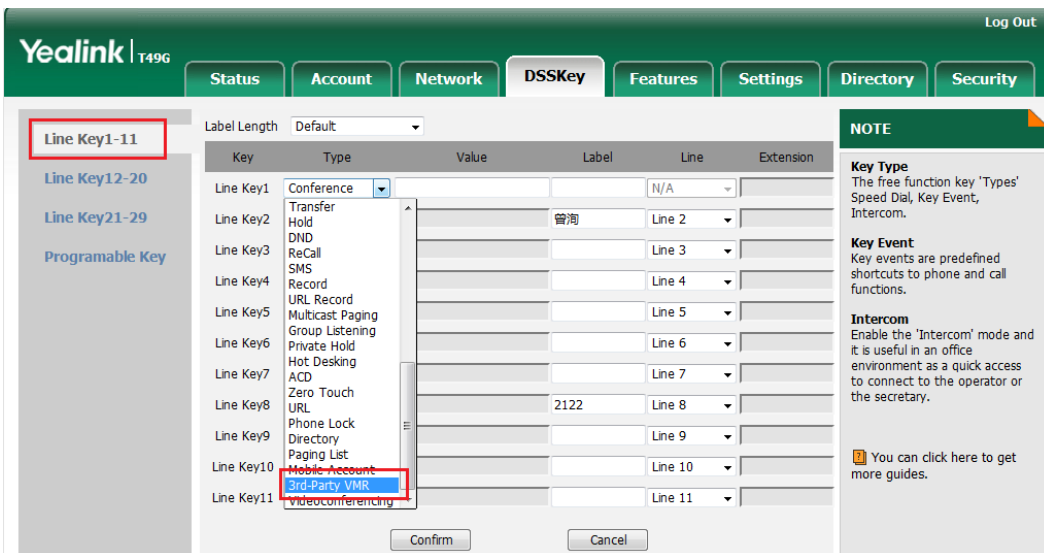
4. Meeting ID: 955488426

5. IP/FQDN: zoomcrc.com

Save

To configure a 3rd-party VMR key via web user interface:

Click DSSKey -> Line key



Yealink | T49G Log Out

Status Account Network DSSKey Features Settings Directory Security

Line Key1-11

Line Key12-20

Line Key21-29

Programable Key

Label Length Default

Key	Type	Value	Label	Line	Extension
Line Key1	Conference			N/A	
Line Key2	Transfer				
Line Key3	Hold		曾海	Line 2	
Line Key4	DND			Line 3	
Line Key5	ReCall			Line 4	
Line Key6	SMS			Line 5	
Line Key7	Record			Line 6	
Line Key8	URL Record			Line 7	
Line Key9	Multicast Paging			Line 8	
Line Key10	Group Listening			Line 9	
Line Key11	Private Hold			Line 10	
Line Key12	Hot Desking			Line 11	
Line Key13	ACD				
Line Key14	Zero Touch		2122		
Line Key15	URL				
Line Key16	Phone Lock				
Line Key17	Directory				
Line Key18	Paging List				
Line Key19	Mobile Account				
Line Key20	3rd-Party VMR				
Line Key21	Videoconferencing				


Confirm Cancel

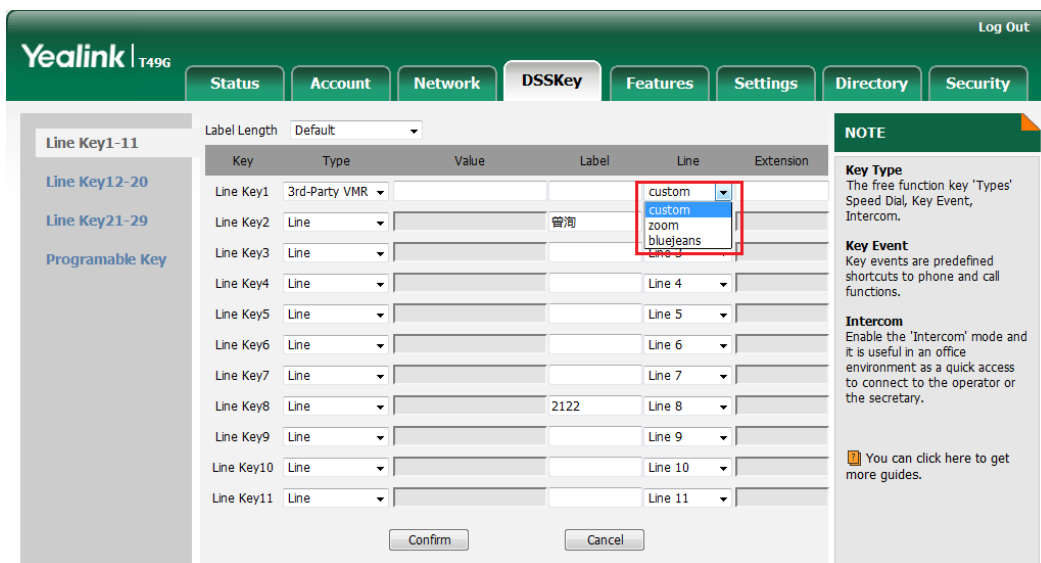
NOTE

Key Type
The free function key 'Types' Speed Dial, Key Event, Intercom.

Key Event
Key events are predefined shortcuts to phone and call functions.

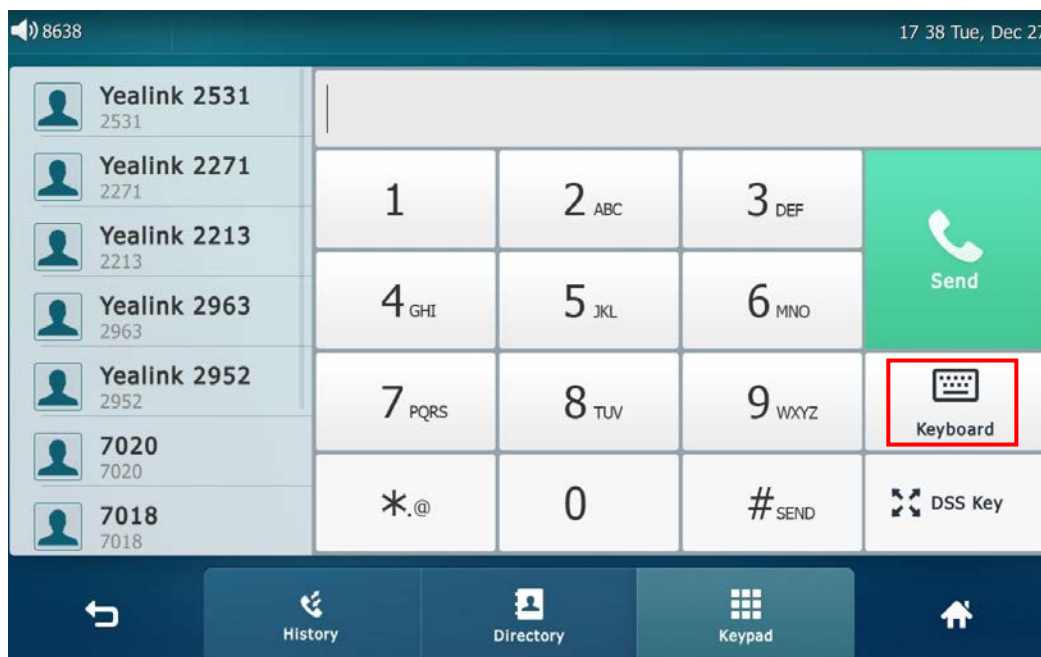
Intercom
Enable the 'Intercom' mode and it is useful in an office environment as a quick access to connect to the operator or the secretary.

 You can click here to get more guides.



6. Optimization Descriptions

1. Optimized the feature that you can use onscreen keyboard in dialing screen.





2. Optimized the dialing modes.

Description: You can dial using the phone number/SIP URI/IP address/name (User Name for SIP account, H.323 Name for H.323 account). The maximum SIP URI length is 32 characters. For example, SIP URI: 3606@sip.com.

7. Configuration Parameters Enhancements

Auto Provision Template Flies Change Log							
Firmware Version: [51.21.0.1]-[51.21.0.5]							
Function	Provisioning syntax Comparison		Permitted Values	Default Value	Action	Description	File
	51.21.0.1	51.22.0.5					
Dual-Strea m Protocol (X ranges from 1 to 16)		account.17.bf cp.enable	0 or 1	1	Add	It enables or disables the BFCP protocol for sharing content in SIP IP calls. 0-Disabled 1-Enabled	MAC.cfg
Dual-Strea m Protocol (X ranges from 1 to 16)		account.X.bfc p.enable	0 or 1	1	Add	It enables or disables the BFCP protocol for Cloud account X (except Yealink Cloud account).	MAC.cfg

						0-Disabled 1-Enabled	
H.323 Account		account_h323.enable	0 or 1	1	Add	It enables or disables the H.323 account 0-Disabled 1-Enabled Note: It works only if the value of the parameter "features.h323_protocol.enable" is set to 1 (Enabled).	common. cfg
H.323 Account		account_h323.name	String within 99 characters	Blank	Add	It specifies the name that gatekeepers and gateways use to identify this IP phone.	common. cfg
H.323 Account		account_h323.extension	String within 32 characters	Blank	Add	It specifies the extension that gatekeepers and gateways use to identify this IP phones.	common. cfg
H.323 Account		account_h323.gk_mode	0, 1 or 2	0	Add	It configures the gatekeeper mode. 0-Disabled 1-Auto 2-Manual If it is set to 0 (Disabled), the IP phone will not use a gatekeeper. If it is set to 1 (Auto), the IP phone will automatically discovers a gatekeeper. If it is set to 2 (Manual), you should specify the IP address and port for the gatekeeper manually.	common. cfg
H.323 Account		account_h323.gk_server.Y.address	String within 256 characters	Blank	Add	It configures the IP address of the gatekeeper Y. Note: It works only if the value of the parameter "account_h323.gk_mode" is set to 2 (Manual).	common. cfg
H.323 Account		account_h323.gk_server.Y	Integer from 0 to	1719	Add	It configures the port of the gatekeeper Y.	common. cfg

		port	65535			Note: It works only if the value of the parameter "account_h323.gk_mode" is set to 2 (Manual).	
H.323 Account		account_h323.gk_auth.enable	0 or 1	0	Add	It enables or disables gatekeeper authentication. 0-Disabled 1-Enabled If it is set to 1 (Enabled), the gatekeeper ensures that only trusted H.323 IP phones are allowed to access the gatekeeper.	common.cfg
H.323 Account		account_h323.gk_username	String within 99 characters	Blank	Add	It specifies the user name for gatekeeper authentication. Note: It works only if the value of the parameter "account_h323.gk_auth.enable" is set to 1 (Enabled).	common.cfg
H.323 Account		account_h323.gk_password	String within 99 characters	Blank	Add	It specifies the password for gatekeeper authentication. Note: It works only if the value of the parameter "account_h323.gk_auth.enable" is set to 1 (Enabled).	common.cfg
H.323 Settings		account_h323.h323_port	Integer from 0 to 65535	1720	Add	It specifies the monitor port for the H.323 IP call.	common.cfg
H.323 Settings		account_h323.auto_answer	0 or 1	0	Add	It enables or disables auto answer feature for H.323 calls. 0-Disabled 1-Enabled If it is set to 1 (Enabled), the IP phone can automatically answer an incoming H.323 call. Note: The IP phone cannot automatically answer the incoming H.323 call during a	common.cfg

						call even if auto answer is enabled.	
H.323 Settings		account_h323.tunneling.enable	0 or 1	0	Add	It enables or disables the H.323 tunneling. 0-Disabled 1-Enabled	common. cfg
H.323 Settings		account_h323.h460.enable	0 or 1	0	Add	It enables or disables H.460 firewall traversal feature. 0-Disabled 1-Enabled	common. cfg
H.323 Settings		account_h323.h235_type	0, 1 or 2	0	Add	It specifies the H.235 type for the H.323 calls. 0-Disabled 1-Optional 2-Compulsory If it is set to 0 (Disabled), the IP phone will not use H.235 in H.323 calls. If it is set to 1 (Optional), the IP phone will negotiate with the far site whether to use H.235. If it is set to 2 (Compulsory), the IP phone will compulsively use H.235 in H.323 calls.	common. cfg
NAT		network.static_nat.mode	0, 1 or 2	0	Add	It specifies the static NAT type. 0-Disabled 1-Manual 2-Auto If it is set to 0 (Disabled), the IP phone does not use the static NAT feature. If it is set to 1 (Manual), the IP phone uses the manually configured NAT public address. If it is set to 2 (Auto), the IP	common. cfg

						phone obtains the NAT public address from the Yealink-supplied server.	
NAT		network.static_nat.addr	IP address or domain name	Blank	Add	It configures the NAT public address for the IP phone. Example: network.static_nat.addr = 218.107.220.201 Note: It works only if the value of the parameter "network.static_nat.mode" is set to 1 (Manual).	common. cfg
NAT		network.static_nat.dynamic_addr	IP address or domain name	Blank	Add	It displays the NAT public address automatically obtained from the Yealink-supplied server. Note: It works only if the value of the parameter "network.static_nat.mode" is set to 2 (Auto).	common. cfg
NAT		network.static_nat.effect_type	0 or 1	0	Add	It configures the route traversal type. 0-Auto 1-Compulsory If it is set to 0 (Auto), NAT works only when making a call to public network or receiving a call from the public network. If it is set to 1 (Compulsory), NAT works when you are in multi-level intranet network to solve the one-way audio or video problem. Note: It works only if the value of the parameter "network.static_nat.mode" is set to 1 (Auto) or 2 (Auto).	common. cfg
Intelligent Firewall Traversal		network.intelligent_firewall_traversal.enable	0 or 1	1	Add	It enables or disables the intelligent firewall traversal	common. cfg

		able				feature. 0-Disabled 1-Enabled	
VC Accounts		vcaccount.enable	0 or 1	1	Add	It enables or disables the video conferencing feature. 0-Disabled 1-Enabled	common. cfg
H.323 Settings		features.h323_protocol.enable	0 or 1	1	Add	It enables or disables the H.323 protocol. 0-Disabled 1-Enabled	common. cfg
H.323 Settings		h323.video_sdp_report_twice	0 or 1	0	Add	It enables or disables local early media feature. 0-Disabled 1-Enabled If it is set to 1 (Enabled), the IP phone will send video SDP twice during a call to solve the compatibility between Yealink device and certain devices.	common. cfg
H.323 Settings		h323.h239.enable	0 or 1	1	Add	It enables or disables the H.239 protocol for sharing content in H.323 calls. 0-Disabled 1-Enabled	common. cfg
H.323 Settings		h323.user_capability.enable	0 or 1	1	Add	It configures the DTMF type for H.323 calls. 0-INBAND 1-Auto If it is set to 0 (INBAND), DTMF digits are transmitted in the voice band. If it is set to 1 (Auto), the IP phone automatically negotiates the way (INBAND, RFC2833 or SIP INFO) to transfer DTMF digits.	common. cfg

Output Resolution		features.hdm _out.resoluti on	0, 1920x1080f 60, 1280x720f6 0, 720x480f60 , 640x480f60	0	Add	It configures the output resolution of external monitor. 0-Auto (automatically select the highest resolution supported by the external monitor) 1920x1080f60-1920 × 1080 60Hz 1280x720f60-1280 × 720 60Hz 720x480f60-720 × 480 60Hz 640x480f60-640 × 480 60Hz	common. cfg
Output Resolution (X ranges from 1 to 16)		account.X.vide o.max_resolu tion	1920x1080, 1280x720, 704x576, 352x288	1920x1080	Add	It configure the maximum video resolution of IP phone for SIP account X.	MAC.cfg
Audio Advanced		phone_setting. audio_codec_ byte_order. enable	0 or 1	0	Add	It enables or disables the special audio codec byte sequence. Note: Different devices have different definition about how some Codecs are stored (Big-endian or little-endian), which may lead to the audio incompatibility problems between Yealink and certain devices. You can enable the special audio codec byte sequence feature to solve these incompatibility problems.	MAC.cfg
Cloud Settings (X ranges from 1 to 16)		cloud.account. X.dtmf.type	0, 1, 2 or 3	1	Add	It configures the DTMF type for Cloud account X. 0-INBAND 1-RFC 2833 2-SIP INFO 3-RFC2833 + SIP INFO If it is set to 0 (INBAND),	MAC.cfg

						DTMF digits are transmitted in the voice band. If it is set to 1 (RFC 2833), DTMF digits are transmitted by RTP Events compliant to RFC 2833. If it is set to 2 (SIP INFO), DTMF digits are transmitted by the SIP INFO messages. If it is set to 3 (RFC2833 + SIP INFO), DTMF digits are transmitted by RTP Events compliant to RFC 2833 and the SIP INFO messages.	
Cloud Settings (X ranges from 1 to 16)		cloud.account .X.dtmf.dtmf_payload	1, 2 or 3	1	Add	It configures the value of DTMF payload for Cloud account X. Note: It works only if the value of parameter "cloud.account.X.dtmf.type" is set to 1 (RFC2833) or 3 (RFC2833 + SIP INFO).	MAC.cfg
Cloud Settings (X ranges from 1 to 16)		cloud.account .X.dtmf.info_type	Integer from 96 to 127	101	Add	It configures the DTMF info type for Cloud account X. 1-DTMF-Relay 2-DTMF 3-Telephone-Event Note: It works only if the value of parameter "cloud.account.X.dtmf.type" is set to 2 (SIP INFO) or 3 (RFC2833 + SIP INFO).	MAC.cfg
Cloud Settings (X ranges from 1 to 16)		cloud.account .X.keep_alive_interval	Integer from 15 to 2147483647	30	Add	It configures the keep-alive interval (in seconds) for Cloud account X (except Yealink Cloud account). Example: cloud.account.1.keep_alive_interval = 60	MAC.cfg
Cloud Settings		cloud.account .X.srtp_encry	0, 1 or 2	0	Add	It configures whether to use	MAC.cfg

(X ranges from 1 to 16)		ption				voice/video encryption service for Cloud account X (except Yealink Cloud account). 0-Disabled 1-Optional 2-Compulsory If it is set to 0 (Disabled) or 1 (Optional), the IP phone will negotiate with the other IP phone what type of encryption to utilize for the session. If it is set to 2 (Compulsory), the IP phone is forced to use SRTP during a call.	
Dual-Stream Protocol (X ranges from 1 to 16)		cloud.account.X.bfcp.enable	0 or 1	1	Add	It enables or disables the BFCP protocol for Cloud account X (except Yealink Cloud account). 0-Disabled 1-Enabled	MAC.cfg
Cloud Account (X ranges from 1 to 16)		cloud.account.X.type	Integer from 0 to 5	1	Add	It configures the type of Cloud account X. 0-Custom 1-Yealink 2-Zoom 3-Pexip 4-Bluejeans 5-Mind	MAC.cfg
Cloud Account (X ranges from 1 to 16)		cloud.account.X.label	String within 99 characters	Blank	Add	It configures the label to be displayed on the touch screen for Zoom/Bluejeans/Mind/Custom Cloud account X. Note: It is a required parameter for Custom Cloud account.	MAC.cfg
Cloud Account		cloud.account.X.user_name	String within 99	Blank	Add	It configures the register user name for	MAC.cfg

(X ranges from 1 to 16)			characters			Custom/Yealink/Pexip Cloud account X.	
Cloud Account (X ranges from 1 to 16)		cloud.account.X.alias	String within 99 characters	Blank	Add	It configures the alias to be displayed on the touch screen for Pexip Cloud account X.	MAC.cfg
Cloud Account (X ranges from 1 to 16)		cloud.account.X.password	String within 99 characters	Blank	Add	It configures the register password for Custom/Yealink/Pexip Cloud account X.	MAC.cfg
Cloud Account (X ranges from 1 to 16)		cloud.account.X.register_name	String within 99 characters	Blank	Add	It configures the user name for register authentication for Custom Cloud account X.	MAC.cfg
Cloud Account (X ranges from 1 to 16)		cloud.account.X.sip_server.address	String within 256 characters	Blank	Add	It configures the IP address or domain name of the Cloud server for Cloud account X (except Yealink Cloud account). Example: cloud.account.2.sip_server.address = zoomcrc.com	MAC.cfg
Cloud Account (X ranges from 1 to 16)		cloud.account.X.sip_server.transport_type	Integer from 0 to 4	1	Add	It configures the type of transport protocol for Cloud account X (except Yealink Cloud account). 0-UDP 1-TCP 2-TLS 3-DNS-NAPTR	MAC.cfg
Output Resolution		features.video_min_frame_rate	Integer from 10 to 30	30	Add	It configures the minimum frame rate of sending video image during the call.	common.cfg
Power Saving		features.power_saving.office_hour_idle_timeout	For SIP VP-T49G: Integer from 1 to	For SIP VP-T49G: The default	Add	It configures the time (in minutes) to wait in the idle state before IP phone enters power-saving mode during	common.cfg

			240 For SIP-T48G/T46G/T29G: Integer from 1 to 600	value is 120. ForSIP-T48G/T46G/T29G: The default value is 480.		the office hours.	
Power Saving		features.power_saving.off_hour.idle_timeout	Integer from 1 to 10	10	Add	It configures the time (in minutes) to wait in the idle state before IP phone enters power-saving mode during the non-office hours.	common.cfg
Power Saving		features.power_saving.user_input_extension_idle_timeout	Integer from 1 to 20	10	Add	It configures the time (in minutes) to wait in the idle state before IP phone enters power-saving mode when using the IP phone (for example, press a key on the phone, pick up/hang up the handset or tap the touch screen (only applicable to SIP VP-T49G and SIP-T48G)). Note: If you use the IP phone, the idle timeout that applies (User input extension Idle TimeOut or Office Hour/Off Hour Idle TimeOut) is the timeout with the highest value. If the phone has an incoming call or message, the User input extension Idle TimeOut is ignored.	common.cfg
Power Saving		features.power_saving.office_hour.monday	Integer from 0 to 23, Integer from 0 to 23	For SIP VP-T49G: The default value is 7,19 For	Add	For SIP VP-T49G: It configures the starting time and ending time of the day's office hour on Monday. Starting time and ending	common.cfg

				SIP-T48G /T46G/T 29G: The default value is 7,12		time are separated by a comma. For SIP-T48G/T46G/T29G: It configures the starting time and duration of the day's office hour on Monday. Starting time and duration are separated by a comma.	
Power Saving		features.pow er_saving.offi ce_hour.tues day	Integer from 0 to 23, Integer from 0 to 23	For SIP VP-T49G: The default value is 7,19 For SIP-T48G /T46G/T 29G: The default value is 7,12	Add	For SIP VP-T49G: It configures the starting time and ending time of the day's office hour on Tuesday. Starting time and ending time are separated by a comma. For SIP-T48G/T46G/T29G: It configures the starting time and duration of the day's office hour on Tuesday. Starting time and duration are separated by a comma.	common. cfg
Power Saving		features.pow er_saving.offi ce_hour.wedn esday	Integer from 0 to 23, Integer from 0 to 23	For SIP VP-T49G: The default value is 7,19 For SIP-T48G /T46G/T 29G: The default value is 7,12	Add	For SIP VP-T49G: It configures the starting time and ending time of the day's office hour on Wednesday. Starting time and ending time are separated by a comma. For SIP-T48G/T46G/T29G: It configures the starting time and duration of the day's office hour on Wednesday. Starting time and duration are separated by a comma.	common. cfg
Power		features.pow	Integer	For SIP	Add	For SIP VP-T49G:	common.

Saving		er_saving.office_hour.thursday	from 0 to 23, Integer from 0 to 23	VP-T49G: The default value is 7,19 For SIP-T48G/T46G/T29G: The default value is 7,12		It configures the starting time and ending time of the day's office hour on Thursday. Starting time and ending time are separated by a comma. For SIP-T48G/T46G/T29G: It configures the starting time and duration of the day's office hour on Thursday. Starting time and duration are separated by a comma.	cfg
Power Saving		features.power_saving.office_hour.friday	Integer from 0 to 23, Integer from 0 to 23	For SIP VP-T49G: The default value is 7,19 For SIP-T48G/T46G/T29G: The default value is 7,12	Add	For SIP VP-T49G: It configures the starting time and ending time of the day's office hour on Friday. Starting time and ending time are separated by a comma. For SIP-T48G/T46G/T29G: It configures the starting time and duration of the day's office hour on Friday. Starting time and duration are separated by a comma.	common.cfg
Power Saving		features.power_saving.office_hour.saturday	Integer from 0 to 23, Integer from 0 to 23	For SIP VP-T49G: The default value is 7,7 For SIP-T48G/T46G/T29G: The default value is 7,0	Add	For SIP VP-T49G: It configures the starting time and ending time of the day's office hour on Saturday. Starting time and ending time are separated by a comma. For SIP-T48G/T46G/T29G: It configures the starting time and duration of the day's office hour on Saturday.	common.cfg

						Starting time and duration are separated by a comma.	
Power Saving		features.power_saving.office_hour.sunday	Integer from 0 to 23, Integer from 0 to 23	For SIP VP-T49G: The default value is 7,7 For SIP-T48G/T46G/T29G: The default value is 7,0	Add	For SIP VP-T49G: It configures the starting time and ending time of the day's office hour on Sunday. Starting time and ending time are separated by a comma. For SIP-T48G/T46G/T29G: It configures the starting time and duration of the day's office hour on Sunday. Starting time and duration are separated by a comma.	common.cfg
Call Display	phone_setting.contact_photo_display.enable		0 or 1	1	Delete	It enables or disables the IP phone to display the contact avatar when it receives an incoming call, dials an outgoing call or engages in a call. 0-Disabled 1-Enabled	common.cfg
Cloud	cloud.enable		0 or 1	1	Delete	It enables or disables the Cloud feature for the IP phone. 0-Disabled 1-Enabled	common.cfg

8. Configuration Parameters Update

Function	Provisioning syntax	Permitted Values Comparison		Default Value	Description	File
		51.21.0.1	51.22.0.5			
NAT	account.X.nat.nat_traversal	0 or 1	0, 1 or 2	0	It configures the NAT traversal type for account X. 0-Disabled	MAC.cfg

					<p>1-STUN</p> <p>2-StaticNat (only applicable to SIP VP-T49G)</p> <p>Note: STUN works only if the value of the parameter "sip.nat_stun.enable" is set to 1 (Enabled). StaticNat works only if the value of the parameter "network.static_nat.mode" is set to 1 (Manul) or 2 (Auto).</p>	
SIP IP Call	account.17.nat.nat_traversal	0 or 1	0, 1 or 2	0	<p>It configures the NAT traversal type for SIP IP call.</p> <p>0-Disabled</p> <p>1-Enabled</p> <p>2-StaticNat</p> <p>Note: STUN works only if the value of the parameter "sip.nat_stun.enable" is set to 1 (Enabled). StaticNat works only if the value of the parameter "network.static_nat.mode" is set to 1 (Manul) or 2 (Auto).</p>	MAC.cfg
LineKeyX	linekey.X.line	Integer from 1 to 16	Integer from 1 to 16, 150	<p>When X=1, the default value is 1.</p> <p>When X=2, the default value is 2.</p> <p>When X=3, the default value is 3.</p> <p>...</p> <p>When X=16, the default value is 16.</p>	<p>It configures the desired line to apply the key feature.</p> <p>1-Line 1</p> <p>2-Line 2</p> <p>3-Line 3</p> <p>...</p> <p>16-Line 16</p> <p>150-H.323 account</p> <p>Permitted Value:</p> <p>1 to 16, 150 (for T49G)</p> <p>1 to 16 (for T48G/T46G/T29G)</p> <p>1 to 12 (for T42G)</p>	common.cfg

					1 to 6 (for T41P/T27P) 1 to 3 (for T40P/T23P/T23G) 1 to 2 (for T21(P) E2)	
Jitter Buffer	voice.jib.min	Integer from 0 to 400	Integer from 20 to 300	60	It configures the minimum delay time (in milliseconds) of jitter buffer. Note: It works only if the value of the parameter "voice.jib.adaptive" is set to 1 (Adaptive).	common. cfg
Jitter Buffer	voice.jib.max	Integer from 0 to 400	Integer from 20 to 300	240	It configures the maximum delay time (in milliseconds) of jitter buffer. Note: It works only if the value of the parameter "voice.jib.adaptive" is set to 1 (Adaptive).	common. cfg
Jitter Buffer	voice.jib.normal	Integer from 0 to 400	Integer from 20 to 300	120	It configures the normal delay time (in milliseconds) of jitter buffer. Note: It works only if the value of the parameter "voice.jib.adaptive" is set to 0 (Fixed).	common. cfg

9. Default Value Setting Changes

Default Value Factory Setting Change Log				
Function	Provisioning syntax	Description	Default Value of Factory Setting	
			51. 21.0.5	51.22.0.5
Screen saver	screensaver.wait_time	It configures the time (in seconds) to wait in the idle state before the screen saver starts. 0-Never 15-15s 30-30s 60-1min	For SIP VP-T49G: The default value is 1800. For SIP-T48G/T46G/T29G: The default value is 0.	For SIP VP-T49G: The default value is 600. For SIP-T48G/T46G/T29G: The default value is 0.

		120-2min 300-5min 600-10min 1800-30min		
Network_Advanced	network.vlan.pc_port_mode	<p>It configures the way the IP phone processes packets for the PC (LAN) port when VLAN is enabled on the PC (LAN) port.</p> <p>0-when packets are sent from the PC port to the Internet port, the IP phone will forward the packets directly.</p> <p>1-when packets are sent from the PC port to the Internet port, and there is no VLAN tag in the packet, the IP phone will tag the packet with the configured tag for the PC port and then forward it.</p> <p>Note: When packets are sent from the Internet port to the PC port, remove the packet's tag if it is the same as the configured tag for the PC port, else forward the packets directly.</p>	0	1