Yealink SIP IP Phones Release Note of Version 72

1. Introduction

- **Firmware Version:**

  T41P: 36.72.0.45 upgrades to 36.72.0.55

  T42G: 29.72.0.45 upgrades to 29.72.0.55

- **Applicable** Models: SIP-T41P/T42G

- Release Date: July 28th, 2014.

2. New features

No new features added on the new commercial version.

3. Bug fixes

1. Added the language support of Italian/Portuguese/Spanish/Turkish to web user interface.

Yealink SIP IP Phones Release Note of Version 72

1. Introduction

- **Firmware Version:**

  T41P: 36.72.0.25 upgrades to 36.72.0.45

  T42G: 29.72.0.25 upgrades to 29.72.0.45

  T46G: 28.72.0.25 upgrades to 28.72.0.45

  T48G: 35.72.0.10 upgrades to 35.72.0.30

- Applicable Models: SIP-T41P/T42G/T46G/T48G

- Release Date: July 28th, 2014.

2. New features

3. Bug fixes

1. Fixed the issue that the configuration file of T48G touch screen was lost.
2. Fixed the issue that the T48G would crash when the T48G received an incoming call just when it was switched interface A to B.
3. Fixed the issue that the SIP-T48G remote phonebook was updated continually as a result of memory leak.
4. Fixed the issue that the SIP-T48G would automatically pop up the RPS window.
5. Fixed the issue that when the user connect the SIP-T48G to the Internet via PPPoE mode, and then disconnected network connection, the phone would stuck in the network connecting interface.
6. Fixed the probabilistic issue that user couldn't access the web user interface of the SIP-T48G IP phone.
7. Fixed the issue that the configuration settings was lost when the SIP-T48G was reset to factory settings.
8. Fixed the issue that when user entered into the menu interface and reset the SIP-T48G to factory settings, the configuration settings didn't take effect.
9. Fixed the security vulnerabilities of CRLF Injection and XSS vulnerabilities in Yealink VoIP telephones.

10. Fixed the issue that the configuration was lost when the T4x series firmware was upgraded to a new version.

Yealink SIP IP Phones Release Note of Version 72

1. Introduction

- Firmware Version:

  T41P: 36.72.0.1 upgrades to 36.72.0.25.

  T42G: 29.72.0.1 upgrades to 29.72.0.25.

  T46G: 28.72.0.1 upgrades to 28.72.0.25.

  T48G: 35.72.0.5 upgrades to 35.72.0.10.

- Applicable Models:

  SIP-T41P/T42G/T46G/T48G

- Release Date: April 18th, 2014.

Note: The feature which the user's personalized configurations could not be covered after auto provisioning was not added to this version of T2x series.

2. New features

There was no new features added on the new commercial version.

3. Bug fixes

1. Fixed the issue that the certificate was lost in the probabilistic when the phone was reset to factory.

Yealink SIP IP Phones Release Note of Version 72

1. Introduction

- Firmware Version:

  T28P:2.71.0.165 upgrades to 2.72.0.1.

  T26P:6.71.0.165 upgrades to 6.72.0.1.

  T22P:7.71.0.165 upgrades to 7.72.0.1.

  T20P:9.71.0.165 upgrades to 9.72.0.1.

  T21P:34.71.0.70 upgrades to 34.72.0.1.

  T19P:31.71.0.50 upgrades to 31.72.0.1.

  T41P:36.71.0.50 upgrades to 36.72.0.1.

  T42G:29.71.0.110 upgrades to 29.72.0.1.

  T46G:28.71.0.180 upgrades to 28.72.0.1.

- Applicable Models:SIP-T28P/T26P/T22P/T20P/T21P/T19P/T41P/T42G/T46G

- Release Date: December 31, 2013.

2. New features

1. SIP phones with V72 from the factory will be preset with an SSL Certificate based on MAC.
2. Added the configuration of static DNS on the web interface.

3. Optimization

Important Notes:

Regarding the user experience inconsistency problem before the version of V72, the new version (V72) are now unified in some aspects, such as auto provisioning, user experience, and features.

Please note that the old auto provisioning configurations also take effect on V72, and it will not affect the normal use of the user. The new version of V72 was optimized in the following aspects:

1. Unified the flashing mode of BLF status on all phone models.

2. Unified the flashing mode of power light status on all phone models.

3. Unified the flashing mode of backlight status on the LCD screen.

4. Unified the configuration of syslog on all phone models.

5. Unified the configuration of the DSS Key type.

6. Unified the configuration of the LDAP.

7. Unified the configuration item name of Anonymous Call.

8. Removed the feature of SNMP.

9. Unified the configuration path of the Open VPN.

10. In auto provisioning, the GUI translation file are unified as TXT file type.

11. Optimized the priority of voice mail and power light.

12. Unified the auto provisioning files (Com.cfg/MAC.cfg) among all phone types.

13. Optimized the XML template.

4. Bug fixes

1. Fixed the issue that the phone (T2 series) was transmitted in 10Mbps when the PC port was configured the full-duplex to transmit in 100Mbps.

2. Fixed the issue that the phone (T46G) couldn't reboot by receiving the SIP NOTIFY message with "Event: check-sync".

3. Fixed the issue that the configuration would not take effect on T46G when the line key of 19-27 were configured as BLF.

4. Fixed the issue that the call would be ended when the user press the BLF key by the second time after using the BLF key to pick up the call firstly.

5. Fixed the issue that the maximum length of BLF value on the T46G is not enough for users to enter the characters. It can now support up to 99 characters.

6. Fixed the issue that the 802.1.X authentication couldn't tack effect on the T28P when the VLAN wan port and PC port were enabled.

5. Description to the newly added features

1. **SIP phones with V72 from the factory will be preset with an SSL Certificate based on MAC.**

    Instruction: To ensure the phone and the server achieve absolute security of two-way TLS authentication, the SIP phones from the factory were preset with an SSL certificate.

Notes:

1）Certificate authentication and view:

Please note that the phones will not get the MAC-based SSL certificate when the user directly upgrade previous phones to V72. SSL certificate must be preset based on MAC from the factory.

If users want to view the certification status via phone user interface, you can take the following steps:

Press Menu->Status->More->Phone->Device Cert

The status of Factory Installed and Not Installed respectively indicate whether or not the factory preset an SSL certificate.

2）Firmware upgrading:

When the firmware was upgraded from V72 factory to a new version (over V72), the SSL certificate will still exist.

3）Firmware downgrading:

It is not recommended for users to downgrade the firmware. There is risk when downgrading to other versions (below V72). For example, if the firmware is downgraded to other versions, the SSL certificate on T2X will be lost and cannot be restored even if the phone is upgraded again to V72.

4）The security of Certificate Authority:

It is not allowed for the ordinary user or administrator to view details of the preset certificate or TLS certificate on the phones from the factory. The certificate cannot be deleted, copied, edited, exported, or viewed.

2. Added the configuration of static DNS on the web interface.

Description: In the new version, the web UI and configuration files were both added the static DNS configuration. When users obtaining the IP address via DHCP you can configure the static DNS via web UI manually or use auto provisioning.

The auto configuration parameters are:

network.static_dns_enable =

network.primary_dns=

network.secondary_dns =

The configuration path on the web UI:

Network→Basic→IPv4 Config→Static DNS

For more information, refer to the *Yealink_IP_Phones_Auto_Provisioning_Guide and Yealink_IP_Phones_User_Guide.*

1. Optimization description

1. Unified the flashing mode of BLF status on all phone models

Description: In the previous version of V72, the flashing mode of BLF status was different. And it was now optimized in a unified mode in the version of V72. The correlative type of the IP phone included T46/T42/T41/T2X/T19.

The Following four aspects was worth to attract attention:

1) The unified configuration item:

The auto provisioning parameter of the flashing mode on different types was unified as follow:

features.blf_led_mode =

It can now be configured in four modes, for more information, refer to the *Yealink Auto Provisioning User Guide.*

2) Advice:

In the new auto provisioning template, different models of configuration items are unified and easier to use. For the version of V72 or upper version, we suggest using the new template. If users still use the old configuration items for auto-provision or upgrading, the configuration can still take effect, and the individual differences will not affect the main experience.

3) Risk of downgrading:

We do not recommend users to downgrade. There is risk when users downgrade the version from the factory version to the other.

4) The related changes to the configuration items on the web UI:

The old configuration item of "LED Off In Idle" was replaced as "BLF LED Mode" under the path of *Feature->General Information.*

2. Unified the flashing mode of power light status on all phone models

Description: In the previous version of V72, the flashing mode of power light status was different. And it was now optimized in a unified mode in the version of V72. The correlative type of the IP phone included T46/T42/T41/T2X/T19.

a) The unified configuration item:

In the new configuration file, the following configuration items were added to replace the old configuration items:

phone_setting.common_power_led_enable

account.x.call_center.queue_status_light_enable

phone_setting.ring_power_led_flash_enable

phone_setting.mail_power_led_flash_enable

phone_setting.mute_power_led_flash_enable

phone_setting.hold_and_held_power_led_flash_enable

phone_setting.talk_and_dial_power_led_enable

For more information, refer to the *Yealink Auto Provisioning User Guide.*

b) Advice:

In the new auto provisioning template, different models of configuration items are unified and easier to use. For the version of V72 or upper version, we suggest using the new template. If users still use the old configuration items for auto-provision or upgrading, the configuration can still take effect, and the individual differences will not affect the main experience.

c) Risk of downgrading:

We do not recommend users to downgrade. There will be risk when users downgrading the version from the factory version to the other.

d) The related changes to the configuration items on the web UI:

The configuration item of "Close Power Light" was removed under the path of Feature->General Information. And a new submenu of "Power On Light" was added as follow:
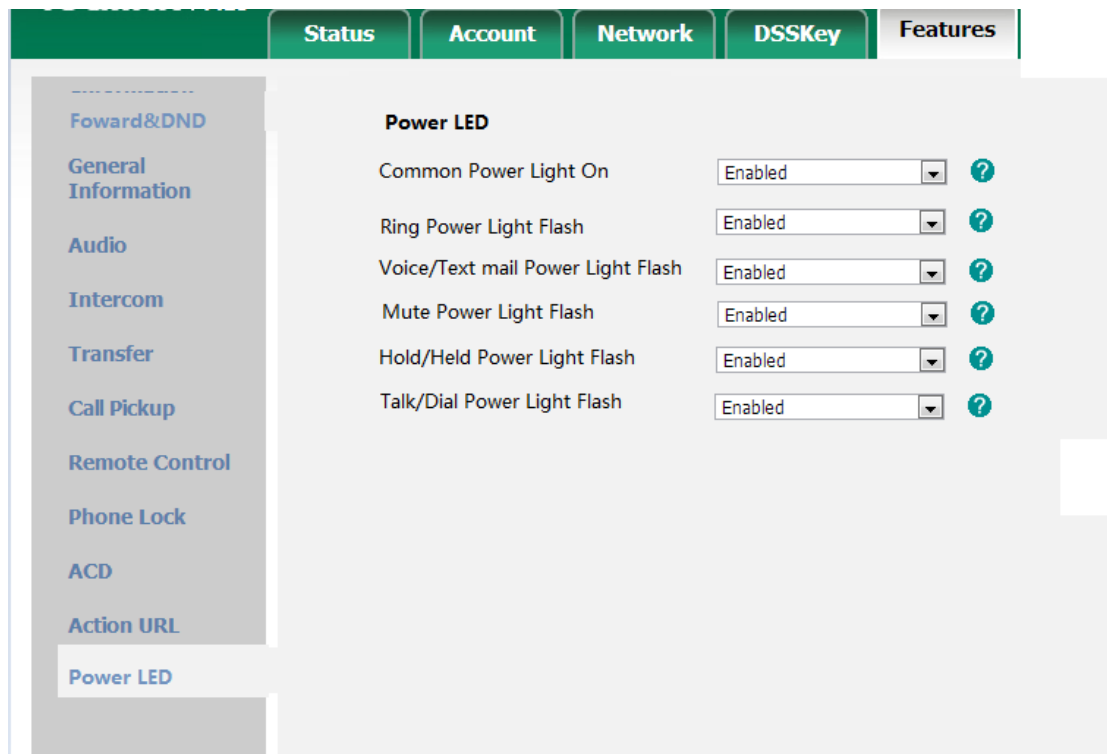
3.   Unified the flashing mode of backlight status on the LCD screen

Description: In the new version, the backlight status on the LCD screen was unified among all phone models, it was optimized as follows:

3.1 The "Backlight Time" configuration path of each phone model was unified as follows: (via the phone user interface)

1)   T22/T26/T28/T41/T42: *Settings->Basic Settings->3.Display->1.Backlight*

2)   T46: *Basic-> Display->1.Backlight*

3.2 The optional "Backlight Time" value of each phone model was unified as follows:

1)   Always on、Always off、15、30、60、120、300、600、1800 (T4 series without Always off option).

3.3 The backlight time units was unified into seconds

Note: The T4 series unit in the old version is minutes, T2 series is seconds.

3.4 Determined what type can be configured backlight Active Level, and unified the name of backlight time and actuating range among all models.

1)   The Backlight Active Level can be configured in the T26/T28/T46.

2)   It is only for T26 to present the configuration items when it is connected with EXP39.

3)   Unified the name of backlight brightness to "Backlight Active Level", the display name on the T26 and T28 is "Active Level" for they doesn't display completely.

3.5 The "Backlight Active Level" configuration path of each phone model was unified as follows: (via the phone user interface)

1)   T26/T28: *Settings->Basic Settings->3.Display->1. Backlight*

2)   T46: *Basic-> Display->1. Backlight*

3.6 Unified the name of backlight darker on the web UI and phone user interface:

1) Unified the name of "Backlight Idle Intensity" to "Backlight Inactive Level"

2) The path to configure the Backlight Inactive Level was unified as follows:

Basic-> Display->1. Backlight

3.7 The "Contrast" configuration path of each phone model was unified as follows: (via the phone user interface)

1)   T26、T28: *Settings->Basic Settings->3.Display->2. Contrast*

2)   T46、T48: *Basic-> Display->2. Contrast*

3)   The T26 will present the contrast items to configure the EXP39 when it was connected with EXP39.

4.   Unified the configuration of syslog.

Description: Unified the syslog configuration items as follows:

syslog.mode =

syslog.server =

5. Unified the configuration of the DSS Key type.

Description: Unified the auto provisioning parameters of the DSS Key type as follows:
XML Group used as xml_phonebook="";

History used as history_type="";

BLF、Meet-Me Conference、Intercom used as pickup_value=""

6. Unified the configuration of the LDAP.

Description: The switch of LDAP Enable/Disable was added to the all pone types.

7. Unified the configuration item name of Anonymous Call.

Description: Send Anonymous changes to Local anonymous;

Anonymous Code changes to Send Anonymous Code.

8. Unified the configuration path of the OpenVPN.

Description: Unified the configuration path of the OpenVPN, and the all phone types are available with .tar file.

9. Unified the type of translation files during auto provisioning.

Description: The translation file format was unified as .txt during auto provisioning.

10. Optimized the priority of voice mail and power light.

Description: In the new version of V72, the power light will flash when the IP phone receive a voice mail, no matter the configuration of "Common Power Light On" was enable or not.

With the old configuration "Close power light" enabling, the power light would flash when the phone receive a voice mail; and when the configuration "Close power light" was disabled the power light would be on all the time.

11. Unified the auto provisioning files (Common.cfg/MAC.cfg) among all types of Yealink SIP phone.

Description: In the new version, the same feature configuration items were unified among all phone types. For the individual not unified configuration items, the new configuration files would have corresponding annotations, for more information, please refer to the *Yealink_SIP_Phones_Auto_Provisioning_Guide.*

Notes:

1) **The unity and modification of the auto provisioning template(include Common.cfg/MAC.cfg):**

MAC.cfg:

Old parameters	New parameters	Action	Description

account.1.bw_acd_reason_code.1 =		removed	
account.1.bw_acd_reason_code.2 =		removed	
account.1.dns_query_timeout=		removed	
account.1.failback_mode =		removed	
account.1.failback_timeout =		removed	
account.1.retry_counts =		removed	
account.1.sip_server_host =	account.X.sip_server.Y.address =	changed	It configures the IP address or domain name of SIP server Y for account X. Example: account.1.sip_server.1.address = 10.2.1.128 The default value is blank.
account.1.sip_server_port =	account.X.sip_server.Y.port =	changed	It configures the port of SIP server Y for account X. The default value is 5060.
	local_time.manual_ntp_srv_prior =	added	It enables or disables the phone to use manually configured NTP server preferentially.
	account.X.alert_info_url_enable =	added	It enables or disables the distinctive ring tones by the Alert-Info SIP header for account X. 0-Disabled 1-Enabled The default value is 0.
	account.x.send_anonymous_code =	added	It configures the phone to send anonymous on/off code to activate/deactivate the server-side anonymous call feature for account X. 0-Off Code

| | | | 1-On Code |
| | | | The default value is 0. |

Common.cfg:

Old parameters	New parameters	Action	Description
bw.directory_enable = 1	bw.enable = 1	Changed; moved to MAC.cfg	It enables or disables BroadSoft features for IP phones. 0-Disabled 1-Enabled The default value is 0. It takes effect after a reboot.
acd.bw =		Removed	
bw.calllog_and_dir =		Removed	
bw_phonebook.server_search_enable =		Removed	
directory.incoming_call_match_enable =		Removed	
features.action_uri_reboot_now =		Removed	
features.auto_release_bla_line =		Removed	
features.dsskey_blind_tran =		Removed	
features.hold_trans_delay =		Removed	
features.ldap.input_type =		Removed	
	phone_setting.mute_power_led_flash_enable=	Added	It enables or disables the power indicator LED to flash when a call is mute.
	phone_setting.hold_and_held_power_led_flash_enable =	Added	It enables or disables the power indicator LED to flash when a call is placed on hold or is held.
ldap.dial_lookup =		removed	

local_time.date_fo rmat =		Moved to MAC.cfg	It configures the date format.
local_time.dhcp_ti me =		Moved to MAC.cfg	It enables or disables the phone to update time with the offset time obtained from the DHCP server. It is only available to offset from GMT 0. 0-Disabled 1-Enabled The default value is 0.
local_time.dst_tim e_type =		Moved to MAC.cfg	It configures the way DST works when DST feature is enabled. 0-DST By Date 1-DST By Week The default value is 0.
local_time.end_tim e =		Moved to MAC.cfg	It configures the end time of the DST.
local_time.interval =		Moved to MAC.cfg	It configures the update interval (in seconds) when using the NTP server. The default value is 1000.
local_time.manual _time_enable =		Moved to MAC.cfg	It configures the phone to obtain time from NTP server or manual settings. 0-Manual 1-NTP The default value is 1.
local_time.ntp_ser ver1 =		Moved to MAC.cfg	It configures the IP address or domain name of the NTP server 1. The default value is cn.pool.ntp.org.
local_time.ntp_ser ver2 =		Moved to MAC.cfg	It configures the IP address or domain name of the NTP server 2. The default value is cn.pool.ntp.org.

local_time.offset_time =		Moved to MAC.cfg	It configures the offset time (in minutes). The default value is blank.
local_time.start_time =		Moved to MAC.cfg	It configures the start time of the DST.
local_time.summer_time =		Moved to MAC.cfg	It enables or disables daylight saving time (DST) feature. 0-Disabled 1-Enabled 2-Automatic The default value is 2.
local_time.time_format =		Moved to MAC.cfg	It configures the time format. 0-12 Hour 1-24 Hour The default value is 1.
features.config_dsskey_length = (only applicable to SIP-T46G IP phones)		Moved to MAC.cfg	It enables or disables extended length of the label displayed on the idle LCD screen for the line key. 0-Disabled 1-Enabled The default value is 0.
bw_phonebook.call_log_enable = 1 (not applicable to SIP-T20P IP phones)		Moved to MAC.cfg	It enables or disables BroadSoft call log feature. 0-Disabled 1-Enabled The default value is 0.
network.snmp.enable =		Removed	
network.snmp.port =		Removed	
network.snmp.trust_ip =		Removed	
phone_setting.active_backlight_level =		Changed as Backlight Active Level in	It configures the level of the active backlight intensity. For SIP-T28P IP phones and the connected EXP39: The default value is 2. For SIP-T46G IP phones and

		the web UI	the connected EXP40: The default value is 8.
phone_setting.blf_list_enable =		Removed	
phone_setting.inactive_backlight_level =		Changed as Backlight Inactive Level in the web UI	It configures the phone to go out or reduce intensity of the backlight on the LCD screen after a period of inactivity. 0-Off 1-Low The default value is 1.
phone_setting.sms_popup_enable =		Removed	
voice.call_preview_mode=		Removed	
voice.tone.record=		Removed	
features.hoteling.enable =		Removed	
action_url.call_interrupt =		Removed	
action_url.setup_autop_finish		Removed	
auto_provision.schedule.dayofweek =	auto_provision.weekly.dayofweek =	Changed	It configures the days of the week for the phone to check new configuration weekly.
auto_provision.schedule.periodic_minute =	auto_provision.repeat.minutes =	Changed	It configures the interval (in minutes) for the phone to check new configuration repeatedly. The default value is 1440.
auto_provision.schedule.time_from =	auto_provision.weekly.begin_time =	Changed	It configures the begin time of the day for the phone to check new configuration weekly. The default value is 00:00.
auto_provision.schedule.time_to =	auto_provision.weekly.end_time =	Changed	It configures the end time of the day for the phone to check new configuration

			weekly. The default value is 00:00.
	voice.group_spk _vol =	Added	It configures the receiving volume of the group listening mode. The default value is 8.
	sip.notify_reboo t_enable =	Added	It configures the phone behavior when receiving a SIP NOTIFY message which contains the header "Event: check-sync".
	sip.send_respon se_by_request =	Added	It configures from where the phone retrieves the destination address for response. The phone will then send all SIP response messages to the destination address.
	phone_setting.l cd_logo.mode =	Added	It configures the logo mode of the LCD screen (except for SIP-T20P IP phones).
	lcd_logo.delete =	Added	It deletes all custom logo files. The valid value is: http://localhost/all The default value is blank.
	lcd_logo.url =	Added	It configures the access URL of logo file. The default value is blank.
	features.dnd.en able =	Added	It enables or disables DND feature. 0-Disabled 1-Enabled The default value is 0.
	auto_provision. aes_key_in_file =	Added	It enables or disables the phone to decrypt configuration files using the encrypted AES keys.

	features.call_nu m_filter =	Added	It configures the characters the phone filters when dialing.
	ldap.enable =	Added	It enables or disables LDAP feature.
	network.ipv6_st atic_dns_enable =	Added	It enables or disables the phone to use manually configured static IPv6 DNS when Internet (WAN) port type for IPv6 is configured as DHCP.
	network.pc_por t.enable =	Added	It enables or disables the PC port. 0-Disabled 1-Auto Negotiation The default value is 1. It takes effect after a reboot.
	network.vlan.pc _port_mode =	Added	It configures the way the phone processes packets sent from the PC port when VLAN is enabled on the PC port.
	features.blueto oth_enable =	Added	It enables or disables Bluetooth feature. 0-Disabled 1-Enabled The default value is 0.
features.blf_pickup _only_send_code=		Removed	
features.blf_and_ callpark_idle_led _enable =		Removed	
phone_setting.bac klight_time =		Changed	It configures the backlight time (in seconds).

2) The differences of each type are shown in the following table:

Features	Description	Parameters in V72	T2 series	T19 D	T41 T42	T46

				T21 D		
PPPoE	It configures the user name for PPPoE connection. The default value is blank. It takes effect after a reboot.	network.pppoe.user =	Y	Y	NA	Y
	It configures the password for PPPoE	network.pppoe.password =	Y	Y	NA	Y
PC port	It configures the PC (LAN) port type. 0-Router 1-Bridge The default value is 1. It takes effect after a reboot.	network.bridge_mode =	Y	NA	NA	NA
PC port	It configures the IP address of the PC (LAN) port when the PC (LAN) port is configured as Router.	network.pc_port.ip =	Y	NA	NA	NA
		network.pc_port.mask =	Y	NA	NA	NA
		network.dhcp.start_ip =	Y	NA	NA	NA
		network.dhcp.end_ip =	Y	NA	NA	NA
Network_ Advanced	It enables or disables the phone to act as a DHCP server when the PC (LAN) port is configured as Router. 0-Disabled 1-Enabled The default value is 1. It takes effect after a reboot.	network.pc_port.dhcp_server =	Y	NA	NA	NA

	It configures the way the phone processes packets sent from the PC port when VLAN is enabled on the PC port.	network.vlan.pc_port_mode =	NA	NA	Y	Y
VPN	It enables or disables OpenVPN feature.	network.vpn_enable =	Y	Y(T19 except)	Y	Y
		openvpn.url =	Y	Y(T19 except)	Y	Y
TR069	It enables or disables TR069 feature.	managementserver.enable =	Y	Y	NA	Y
		managementserver.username =	Y	Y	NA	Y
		managementserver.password =	Y	Y	NA	Y
		managementserver.url =	Y	Y	NA	Y
		managementserver.connection_request_username =	Y	Y	NA	Y
		managementserver.connection_request_password =	Y	Y	NA	Y
		managementserver.periodic_inform_enable =	Y	Y	NA	Y
		managementserver.periodic_inform_interval =	Y	Y	NA	Y
Volume	It configures the	voice.handfree_send =	Y	NA	NA	NA

	sending volume of speaker.	voice.handset_send =	Y	NA	NA	NA
		voice.headset_send =	Y	NA	NA	NA
Transfer	It enables or disables the phone to enter Transfer to menu during multiple calls when pressing the transfer soft key or TRAN key.	transfer.multi_call_trans_enable =	Y(T20 except)	Y	NA	NA
Remote Phonebook (X:1-5)	It configures the access URL of the remote phone book.	remote_phonebook.data.X.url =	Y(T20 except)	Y	Y	Y
		remote_phonebook.data.X.name =	Y(T20 except)	Y	Y	Y
		remote_phonebook.display_name =	Y(T20 except)	Y	NA	Y
Features_RP	It enables or disables the phone to perform a remote phone book search when receiving an incoming call.	features.remote_phonebook.enable=	Y(T20 except)	Y	Y	Y
	It configures the interval (in seconds) for the phone to update the data of the remote phone book from the remote phone book server.	features.remote_phonebook.flash_time =	Y(T20 except)	Y	Y	Y
LDAP	It configures the LDAP feature.	ldap.enable =	Y(T20 except)	Y((T19 except)	Y	Y
		ldap.name_filter =	Y(T20 except)	Y(T19	Y	Y

				Y(T19 except)		
		ldap.number_filter =	Y(T20 except)	Y(T19 except)	Y	Y
		ldap.host =	Y(T20 except)	Y(T19 except)	Y	Y
		ldap.port =	Y(T20 except)	Y(T19 except)	Y	Y
		ldap.base =	Y(T20 except)	Y(T19 except)	Y	Y
		ldap.user =	Y(T20 except)	Y(T19 except)	Y	Y
		ldap.password =	Y(T20 except)	Y(T19 except)	Y	Y
		ldap.max_hits =	Y(T20 except)	Y(T19 except)	Y	Y
		ldap.name_attr =	Y(T20 except)	Y(T19 except)	Y	Y
		ldap.numb_attr =	Y(T20 except)	Y(T19 except)	Y	Y
		ldap.display_name =	Y(T20 except)	Y(T19 except)	Y	Y
		ldap.version =	Y(T20 except)	Y(T19	Y	Y

	Description	Parameter				
				exce pt)		
		ldap.call_in_lookup =	Y(T20 except)	Y(T19 except)	Y	Y
		ldap.ldap_sort =	Y(T20 except)	Y(T19 except)	Y	Y
Features Bluetooth	It enables or disables Bluetooth feature. 0-Disabled 1-Enabled The default value is 0.	features.bluetooth_enable =	NA	NA	NA	Y
Features	It configures the call forward mode. 0-Phone 1-Custom The default value is 0.	features.fwd_mode =	Y	Y(T19 except)	Y	Y
	It configures the DND mode. 0-Phone 1-Custom The default value is 0.	features.dnd_mode =	Y	Y(T19 except)	Y	Y
	It enables or disables the phone to display the DTMF digits for a short period before displaying as asterisks when the parameter "features.dtmf.hide" is set to 1 (Enabled). 0-Disabled	features.dtmf.hide_delay =	Y(T20 except)	Y	Y	Y

	1-Enabled The default value is 0.					
	It enables or disables dual headset feature. 0-Disabled 1-Enabled The default value is 0.	features.headset_training =	Y	NA	Y	Y
	It enables or disables the phone to display page icons on LCD screen and flash page switch key LED to indicate different states of line keys. 0-Disabled 1-Enabled The default value is 0.	phone_setting.page_tip =	NA	NA	Y	Y
Power Led Setting	It configures the level of the active backlight intensity. For SIP-T28P IP phones and the connected EXP39: The default value is 2. For SIP-T46G IP phones and the connected EXP40: The default value is 8.	phone_setting.active_backlight_level =	Y(Only supported for T28)	NA	NA	Y
	It configures the phone to go out or reduce intensity of the backlight on the LCD screen	phone_setting.inactive_backlight_level =	NA	NA	NA	Y

	after a period of inactivity. 0-Off 1-Low The default value is 1.					
	It configures the backlight time (in seconds).	phone_setting.backlight_time =	Y(T20 except)	NA	Y	Y
	It configures the contrast of the LCD screen.	phone_setting.contrast =	Y(Only supported for T28/T26)	Y	NA	Y
Phone Setting Display	It configures the wallpaper displayed on the phone.	phone_setting.backgrounds =	NA	NA	NA	Y
	It configures the access URL of the custom wallpaper image. The default value is blank.	wallpaper_upload.url =	NA	NA	NA	Y
LOGO	It configures the logo mode of the LCD screen (except for SIP-T20P IP phones).	phone_setting.lcd_logo.mode =	Y	Y	Y	NA
	It configures a text logo.	phone_setting.lcd_logo.text =	Y(Only supported for T20)	NA	NA	NA
	It configures the access URL of logo file.	lcd_logo.url =	Y(T20 except)	Y	Y	NA
	It deletes all custom logo files.	lcd_logo.delete =	Y(T20 except)	Y	Y	NA

Phone Setting_BLF	It configures the order of BLF list keys assigned automatically.	phone_setting.blf_list_sequence_type =	Y(T20、T22 except)	NA	NA	Y
Key Lock	It configures the phone lock	phone_setting.phone_lock_enable =	NA	NA	Y	Y
		phone_setting.phone_lock.lock_key_type =	NA	NA	Y	Y
		phone_setting.lock =	Y	Y	NA	NA
Multicast	It configures the codec of multicast paging. Codecs G726-16, G726-24 and G726-40 are not applicable to SIP-T21P IP phones. The default value is G722.	multicast.codec =	Y	Y(T19 except)	Y	Y
Super Search	It enables or disables recent call in dialing feature. If it is enabled, you can see the placed calls list when the phone is in the pre-dialing screen. 0-Disabled 1-Enabled The default value is 0.	super_search.recent_call =	Y(T20 except)	Y	Y	Y
	It configures the access URL of the custom search source list in dialing file. The default value is blank.	super_search.url =	Y(T20 except)	Y	Y	Y

momeryX	It configures the Momery key (X ranges from 1 to 10) (only applicable to SIP-T26P and SIP-T28P IP phones)	memorykey.X.line =	Y(T20/T22 except)	NA	NA	NA
		memorykey.X.value =	Y(T20/T22 except)	NA	NA	NA
		memorykey.X.pickup_value =	Y(T20/T22 except)	NA	NA	NA
		memorykey.X.type =	Y(T20/T22 except)	NA	NA	NA
		memorykey.X.xml_phonebook =	Y(T20/T22 except)	NA	NA	NA
Programable Key (X:1-4)	It configures the desired local group/XML group/network group for the programmable key.	programablekey.X.xml_phonebook =	Y(T20 except)	Y	Y	Y
		programablekey.X.history_type =	Y(T20 except)	Y	Y	Y
		programablekey.X.label =	Y(T20 except)	Y	Y	Y
Expansion Key	It configures the expansion module key feature.	expansion_module.X.key.Y.type =	Y(T20/T22 except)	NA	NA	Y
		expansion_module.X.key.Y.line =	Y(T20/T22 except)	NA	NA	Y
		expansion_module.X.key.Y.value =	Y(T20/T22 except)	NA	NA	Y
		expansion_module.X.key.Y.pickup_value =	Y(T20/T22 except)	NA	NA	Y
		expansion_module.X.key.Y.label =	Y(T20/T22 except)	NA	NA	Y
		expansion_module.X.key.Y.xml_phonebook =	Y(T20/T22 except)	NA	NA	Y

Contact	It configures the access URL of the TAR file compressed from custom contact file and avatar TAR file.	local_contact. data_photo_ta r.url =	NA	NA	NA	Y
Contact	It configures the access URL of the custom directory list file. The default value is blank.	directory_setti ng.url =	Y(T20 except)	Y	Y	Y
Custom Softkey	It configures the soft keys layout	phone_setting. custom_softke y_enable =	Y(T20 except)	Y	Y	Y
		custom_softke y_call_failed.u rl =	Y(T20 except)	Y	Y	Y
		custom_softke y_call_in.url =	Y(T20 except)	Y	Y	Y
		custom_softke y_connecting. url =	Y(T20 except)	Y	Y	Y
		custom_softke y_dialing.url =	Y(T20 except)	Y	Y	Y
		custom_softke y_ring_back.ur l =	Y(T20 except)	Y	Y	Y
		custom_softke y_talking.url =	Y(T20 except)	Y	Y	Y
BLF List	It configures the BLF List URI to monitor a list of users for account X. The default value is blank.	account.X.blf.b lf_list_uri =	Y	Y(T19 except)	Y	Y
	It configures the feature access code for directed call pickup (default: *97) for account X.	account.X.blf_l ist_code =	Y	Y(T19 except)	Y	Y

				Y(T19 except)		
	The default value is blank.					
	It configures the feature access code for directed call pickup with barge-in (default: *33) for account X.	account.X.blf_list_barge_in_code =	Y	Y(T19 except)	Y	Y
alert_info	It enables or disables the phone to download the picture information for account X when receiving an incoming call or during a call.	account.X.picture_info_enable =	NA	NA	NA	Y
Account DND	It configures the DNS for account X	account.X.dnd.enable =	Y	Y(T19 except)	Y	Y
		account.X.dnd.on_code =	Y	Y(T19 except)	Y	Y
		account.X.dnd.off_code =	Y	Y(T19 except)	Y	Y
Account Forward	It conficures the forward for account X	account.X.always_fwd.enable =	Y	Y(T19 except)	Y	Y
		account.X.always_fwd.target =	Y	Y(T19 except)	Y	Y
		account.X.always_fwd.off_code =	Y	Y(T19 except)	Y	Y
		account.X.always_fwd.on_code =	Y	Y(T19	Y	Y

				Y(T19 except)		
		account.X.busy_fwd.enable =	Y	Y(T19 except)	Y	Y
		account.X.busy_fwd.target =	Y	Y(T19 except)	Y	Y
		account.X.busy_fwd.off_code =	Y	Y(T19 except)	Y	Y
		account.X.busy_fwd.on_code =	Y	Y(T19 except)	Y	Y
		account.X.timeout_fwd.enable =	Y	Y(T19 except)	Y	Y
		account.X.timeout_fwd.target =	Y	Y(T19 except)	Y	Y
		account.X.timeout_fwd.timeout =	Y	Y(T19 except)	Y	Y
		account.X.timeout_fwd.off_code =	Y	Y(T19 except)	Y	Y
		account.X.timeout_fwd.on_code = (x:1-6)	Y	Y(T19 except)	Y	Y
Broadsoft_Pickup	It configures the Broadsoft_Pickup feature	features.pickup.group_pickup_enable =	Y(T20 except)	Y	Y	Y
		features.pickup.direct_pickup_enable =	Y(T20 except)	Y	Y	Y

		features.picku p.blf_visual_en able =	Y(T20 except)	Y	Y	Y
Broadsoft phoneboo k	It configures the Broadsoft phonebook	bw_phoneboo k.group_enabl e =	Y(T20 except)	Y	Y	Y
		bw_phoneboo k.personal_en able =	Y(T20 except)	Y	Y	Y
		bw_phoneboo k.group_comm on_enable =	Y(T20 except)	Y	Y	Y
		bw_phoneboo k.group_comm on_displaynam e =	Y(T20 except)	Y	Y	Y
		bw_phoneboo k.enterprise_e nable =	Y(T20 except)	Y	Y	Y
		bw_phoneboo k.enterprise_c ommon_enabl e =	Y(T20 except)	Y	Y	Y
		bw_phoneboo k.enterprise_c ommon_displa yname =	Y(T20 except)	Y	Y	Y
		bw_phoneboo k.call_log_ena ble =	Y(T20 except)	Y	Y	Y
		bw_phoneboo k.custom =	Y(T20 except)	Y	Y	Y
		bw_phoneboo k.group_displa yname =	Y(T20 except)	Y	Y	Y
		bw_phoneboo k.enterprise_di splayname =	Y(T20 except)	Y	Y	Y
		bw_phoneboo k.personal_dis playname =	Y(T20 except)	Y	Y	Y
Broadsoft _Call Park		call_park.enabl e =	Y(T20 except)	Y	Y	Y

		call_park.grou p_enable =	Y(T20 except)	Y	Y	Y
	It configures the Broadsoft_Call Park feature	call_park.park _ring =	Y(T20 except)	Y	Y	Y
		call_park.park _visual_notify_ enable =	Y(T20 except)	Y	Y	Y
IPv6 ICMPv6	It enables or disables the phone to obtain IPv6 network settings by ICMPv6.	network.ipv6_i cmp_v6.enabl e =	NA	NA	NA	Y

3) The differences of Codec are shown in the following table:

Codec					
Audio	T2X	T19P T21P	T41P T42G	T46G	
audio7	G726-16	G726-32	G726-16	G726-16	
audio8	G726-24	NA	G726-24	G726-24	
audio9	G726-32	NA	G726-32	G726-32	
audio10	G726-40	NA	G726-40	G726-40	
audio11	NA	NA	GSM	GSM	

1. Optimized the XML template.

Description: In the new version of V72, the XML template was unified and modified, and the specific changes were shown in the following table:

Features	Configuration files	Old configuration files	New configuration files	Remarks
XML Browser	TextScreen.xml		Not changed	
	TextMenu.xml		Not changed	
	Status.xml	The filename of T46:"PhoneStat us.xml"	The unified filename: "Status.xml"	Unified the filename on all phone types
	InputScreen.x ml		Not changed	
	ImageScreen.x ml		Added an explanation that pictures to support	

	ImageMenu.xml		Added an explanation that pictures to support	
	Formatted.xml	The filename of T46: "FormattedTextScreen.xml"	The unified filename: "Formatted.xml"	Unified the filename on all phone types
	Execute.xml	The filename of T46: "PhoneExecute.xml"	The unified filename: "Execute.xml"	Unified the filename on all phone types
	Directory.xml	The filename of T46: "PhoneDirectory.xml"	The unified filename: "Directory.xml"	Unified the filename on all phone types
	Config.xml	The filename of T46: "PhoneConfiguration.xml"	The unified filename: "Config.xml"	Unified the filename on all phone types
Contact	contact.xml	T2X:2 Contact Groups by default Other types:5 contact groups by default	All phone types were unified to 2 groups as bellow: All Contacts Blacklist	The contact group unification
	favorite_setting.xml	display_name="Broadsoft Directory"	display_name="Network Directories"	Unified
	super_search.xml	id_name="BroadSoft_directory_search"	id_name="Network_directory_search"	Unified
	Remote Phonebook			Optimized
Softkey Layout	CallFailed.xml			Not changed
	CallIn.xml		T2X:Deleted the parameter with:<key Type="Call Info"/>	Removed the invalid content
	Connecting.xml			Not changed
	Dialing.xml			Not changed

	RingBack.xml		Added the parameter of <Key Type="CC"/>	Added
	Talking.xml		Deleted the following parameter on the T46: <Key Type="Disp Code"/> <Key Type="Trace"/> <Key Type="Emergcy"/>	Removed the invalid content
AutoDST	AutoDST.xml			Not changed
DialPlan &DialNow	dialplan.xml	The content of T2X:<DialRule></DialRule> The content of T4X:<dialrule></dialrule>	1.Unification of filename: dialplan.xml 2.Unification of content: <DialRule> </DialRule>	Unified
	dialnow.xml	The content of T2X:<DialNow></DialNow> The content of T4X:<dialnow></dialnow>	1. Unification of filename:dialnow.xml 2.Unification of content:<DialNow></DialNow>	Unified
Action URI	http://IP/servlet?key=XXX			The three of these formats were still supported in the old version. The Action URI can now be unified as;http://IP/servlet?key=XXX
	http://IP/cgi-bin/cgiServer.exx?key=XX			
	http://IP/cgi-bin/ConfigManApp.com?key=OK			

Action URL	http://10.2.1.199/help?CallTerminatedmac=$mac&ip=$ip&model=$model&firmware=$firmware&active_url=$active_url&active_user=$active_user&active_host=$active_host&local=$local&remote=$remote&display_local=$display_local&display_remote=$display_remote&call_id=$call_id&callDirection=$callDirection&duration=$duration			
				Not changed