Version	Applicable firmware	Applicable model	Edit	Date	Remark
V1.0	3x.0.0.xx	T32/T38	Pedro/Cathy	2011-05-09	
V1.1	3x.0.0.xx	3x.0.0.xx	Pedro	2011-05-18	
V1.2	3x.0.0.xx	3x.0.0.xx	Pedro	2011-05-29	

# Auto Provision Manual
(For T32/T38)

Content

1. Summary

The presented document will show you how auto provision works and how to make auto provision work.

The process of a successful auto provision is:

1.1 Obtain a server address in which store the configuration files.
1.2 Download the configuration files from the configured server.
1.3 Resolve and apply the configurations written in the configuration file.
1.4 Do other updates, for example the firmware updating.

The Configuration webpage for Auto-Provision is as below:
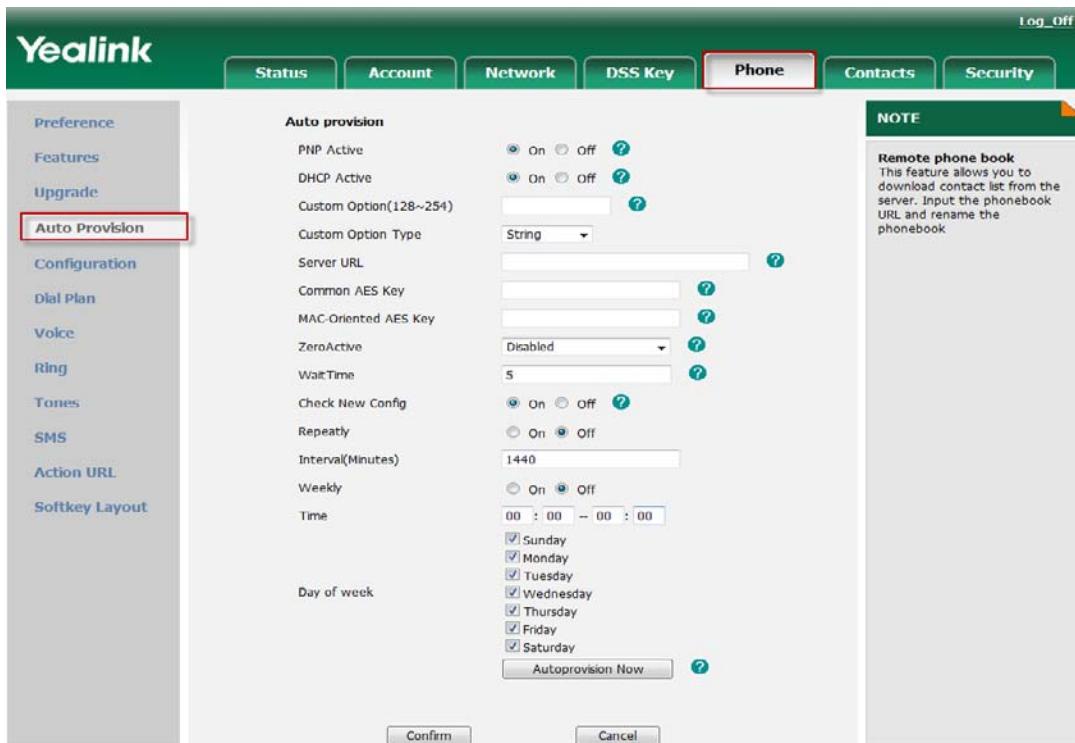
1.1 Obtain the server address

When the phone boots up, it will go by the following process to try to obtain the server address:

Zero SP Touch➔ PnP server ➔ DHCP custom option ➔ DHCP option 66 ➔ DHCP option 43 ➔ Phone Flash

The following are the details of each process:

1.1.1 Pushed by Zero-Sp-Touch

Zero-Sp-Touch is a function which can help users to configure Auto Provision and network parameters quickly. By default the value will be Disabled, so that if you want to use Zero-Sp-Touch function, you must enable it as below:
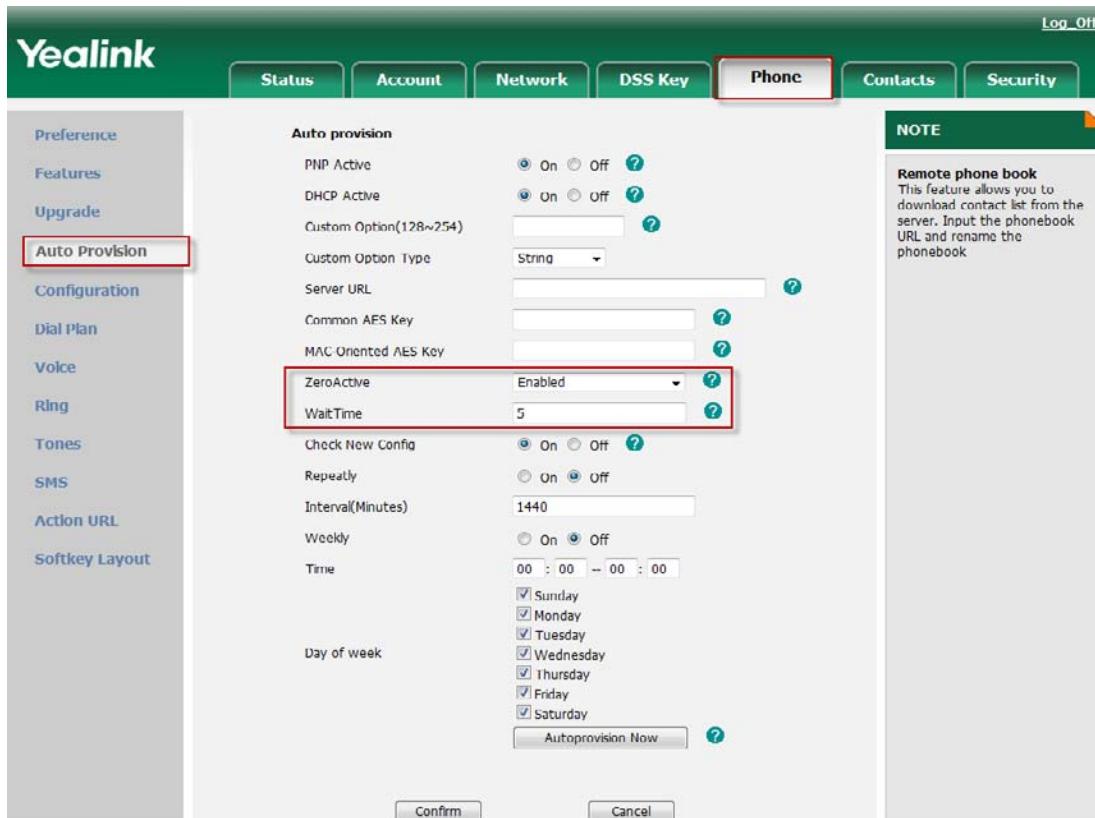
By default the Wait Time would be 5 seconds. After this function is enabled, there will be a Config Guide popping out on LCD during booting up process. User can press OK key within Wait Time to make Auto Provision configuration.

1.1.2 Pushed by PnP servers

If you want to use PnP server for Auto-Provision, you must pre-install a PnP server and make sure the Value of PNP Active on is "On" as below:
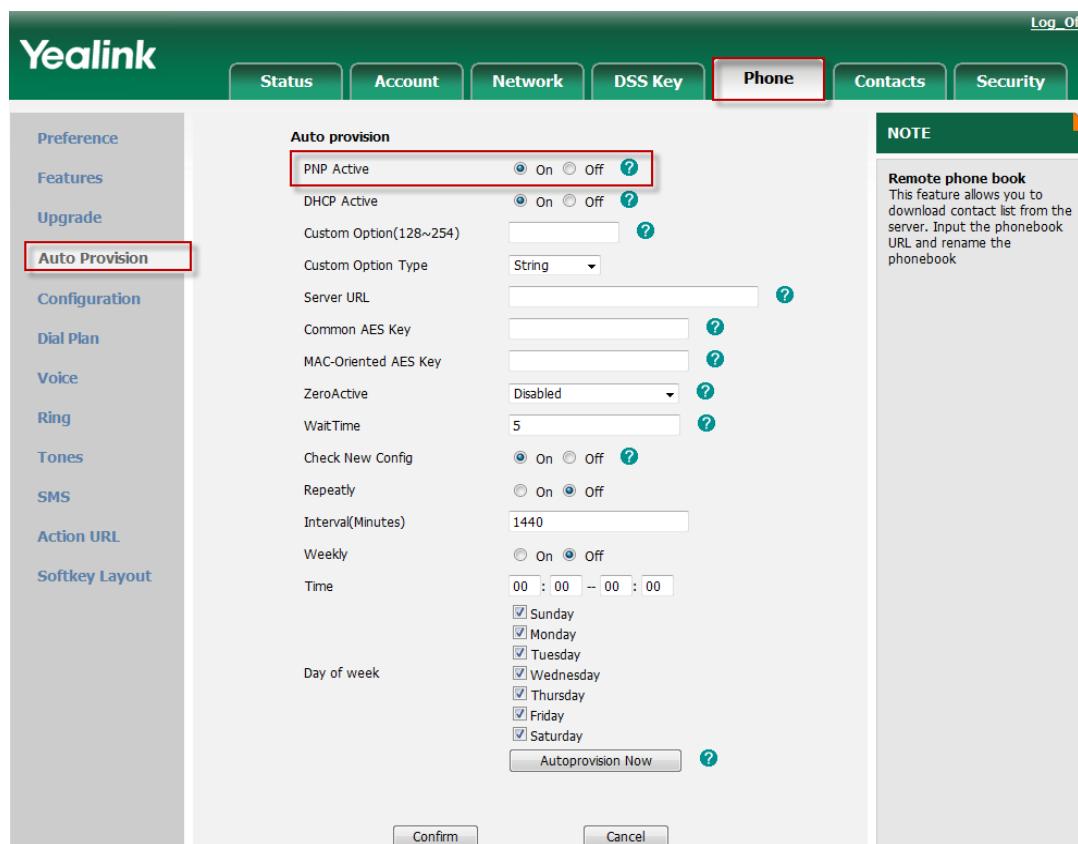
Note： Plug ‚n Play (PnP) provides a proprietary method to enable "Auto Provisioning". By default the value will be Enabled. When **PnP config** is Enabled, the phone will send SIP SUBSCRIBE messages to a multicast address. Any SIP server understanding that message may reply with a SIP NOTIFY message containing the Auto Provisioning Server URL where the phones can request their configuration. Modern SIP PBXs/Proxies can provide the PnP configuration data. Please refer to the manual of your PBX/Proxy. This kind of auto provision is mainly used under some possible circumstance like your phones have no default provisioning server set and are not able to detect DHCP options (when the they use static IP address).

1.1.3 Detect DHCP custom option.

It must be configured on the phone by web management as below:

Note: A valid **Custom Option** is from 128 to 254. The **Custom Option Type** must be in accordance with the one defined in the DHCP server. If the phone fails to get any information from custom option (eg."Custom option" is left blank), it will go to detect DHCP Option 66.

Note.

If DHCP Active is "off" as below, T3X color phone will not go to detect any DHCP Option during boots up.

1.1.4 Detect DHCP Option 66.

Yealink phones will check this option by default. If the phone fails to get any information from DHCP Option 66, it will go to detect DHCP Option 43.

1.1.5 Detect DHCP Option 43.

Yealink phones will check this option by default. If the phone fails to get any information from DHCP Option 43 and **Check New Config** is not Disabled, it will go to detect the phone flash.

1.1.6 Detect the phone flash.

The value of Server URL can be read from phone web management as below:
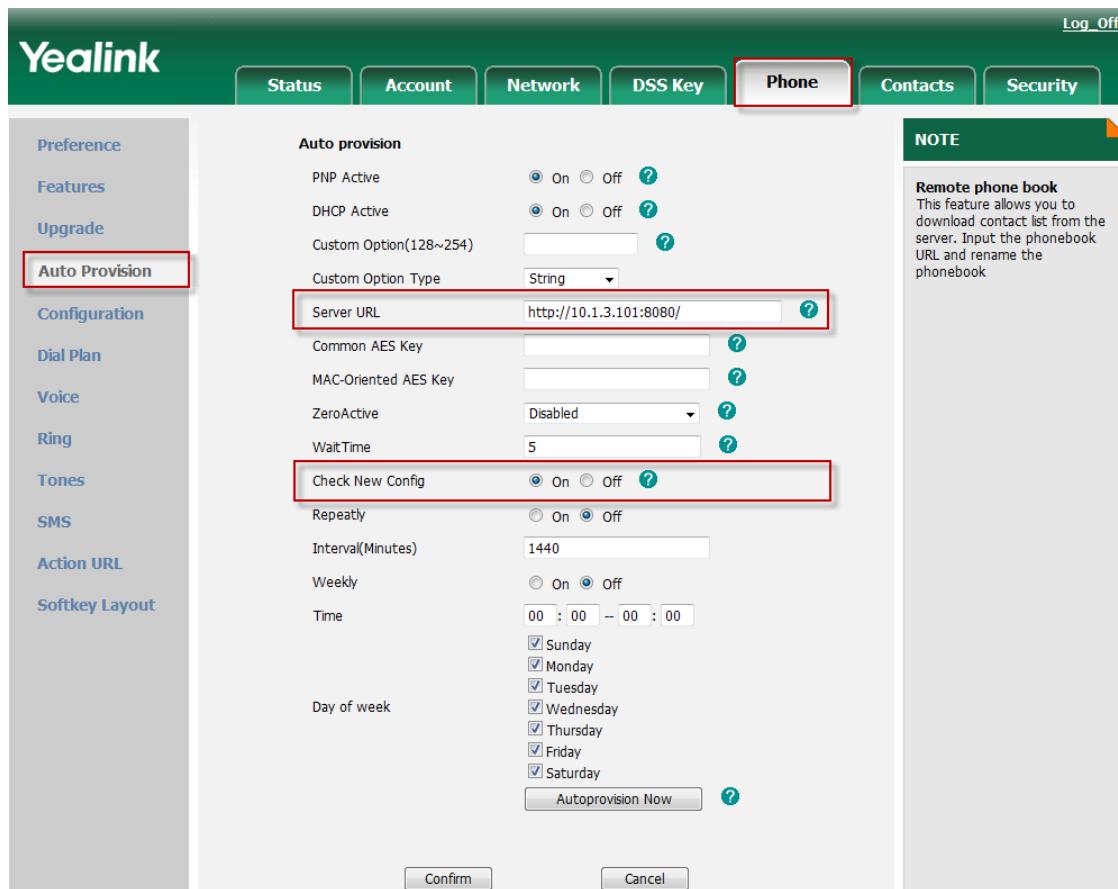
Note: This process depends on the setting of **Check New Config** and if it is set to be **Disabled**, the phone won't detect the FLASH. The supported protocols of a **URL** are: HTTP/HTTPS/FTP/TFTP. For some Servers, it will ask for an Authentication before login. For example FTP server always has this requirement. If you want to get access to ftp server 10.1.0.27 where user name is **yealink** and password **123**, and the configuration file is placed under "autop" directory, you should fill in

ftp://yealink:123@10.1.0.27:7/autop in the field. If the phone fails to get any information from phone flash, the current round of obtaining server address will stop here.

1.2 Download configuration files

There are 2 kinds of configuration files, both of them are CFG formatted file which the phone will try to download from the server. We call them Common CFG file and MAC-oriented CFG file respectively. The Common CFG file can be effectual for all the phones of the same right model. However, a MAC-oriented CFG file can only be effectual for one specific phone which can be told by its MAC address. A common CFG file has a fixed name for each model while a MAC-oriented CFG file is named after a MAC address of a specific phone. The names of the Common CFG file for each model are:

    T32: y000000000032.cfg

    T38: y000000000038.cfg

There are 10 zeros between the letter y and the last non-zero number. For instance, for a T38 which MAC address is 0015651f816b, the 2 configuration files for it will be: y000000000038.cfg and 0015651f816b.cfg. Having this name division on configuration files will help when doing same auto provision to mass phones. For example, assumed that you have 1000 pieces of T38 and you want to update firmware for all phones, you just need to prepare only one y000000000038.cfg in which defines the firmware update request, then put it onto the provisioning server.

If there are both Common CFG file and MAC-oriented CFG file placed on the server, the phone will go and get Common CFG first and then MAC-oriented CFG. If there are same items with different values in these two files, the phone will use the value in MAC-oriented CFG file.

Eg. If the time zone is set as +3 in Common CFG file, and +5 in MAC-oriented CFG file, after Auto-Provision, the time zone on the phone will be +5.

Note:

In case that the phone is on a live call, it will keep on asking for the CFG files with an interval of 30 seconds for up to 2 hours.

1.3 Resolve and apply the configurations

If the CFG configuration files are not encrypted, the phone will resolve and apply the configuration easily.

If the downloaded configuration files have been AES encrypted by the encryption tool, the AES Keys will be needed. The **Common AES Key** is for decrypting the Common CFG file. The **MAC-Oriented AES Key** is for decrypting the MAC-Oriented CFG file. The keys must be 16 bytes and the supported characters are: 0 ~ 9, A ~ Z, a ~ z and the following special characters: # $ % * + , - . : = ? @ [ ] ^ _ { } ~.
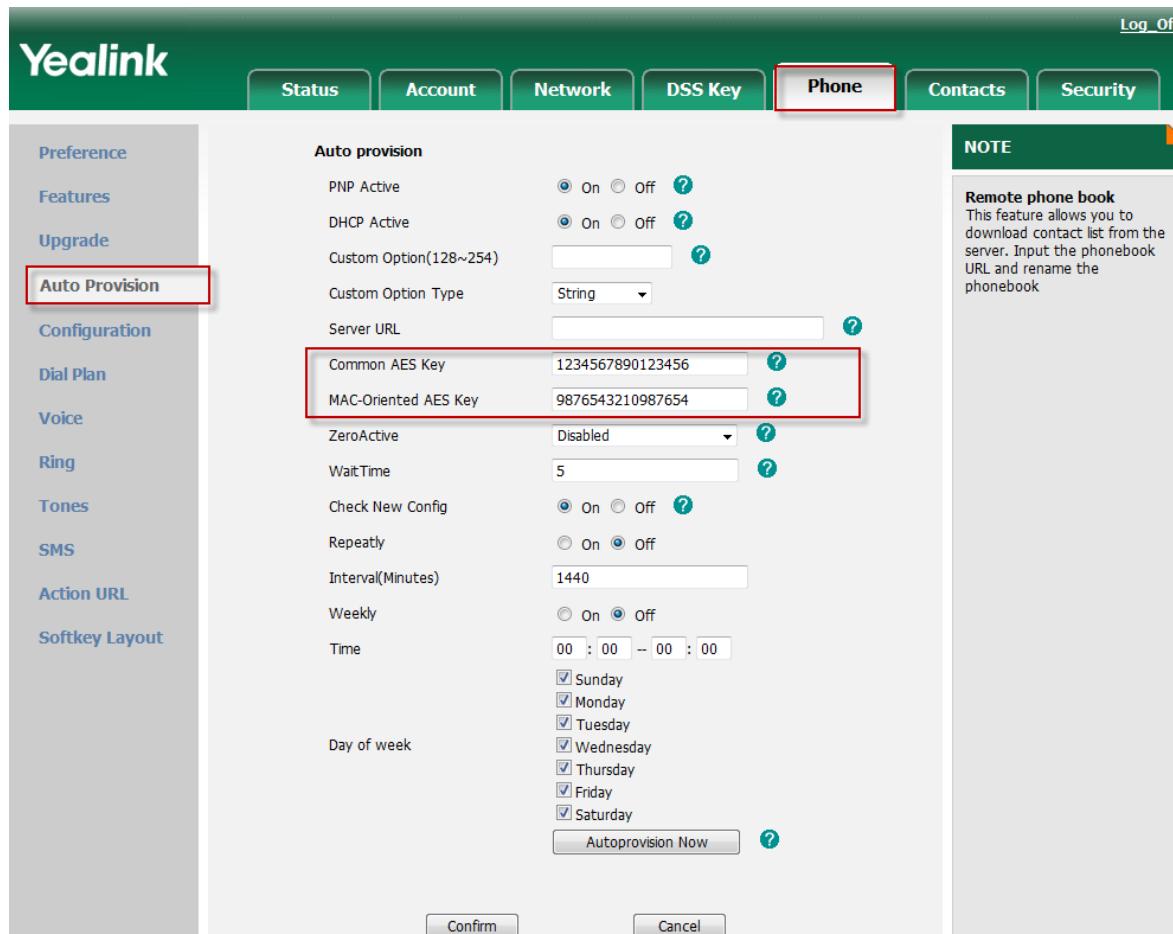
Note: You can download the encryption tool in the following link address:

http://www.yealink.com/fae/AES Encryption Tool.rar

2. Update Mode:

Power On, Repeatly, Weekly, AutoProvision Now and multi-mode mix.

Note: If you were in talking status, the phone will do the auto provision after you finish talking.

2.1 Power On

Power On means to check new configuration when the phone power on. It will be Enabled if set item "Check New Config" to be "on", by default "Check New Config" will be "On", as Below:
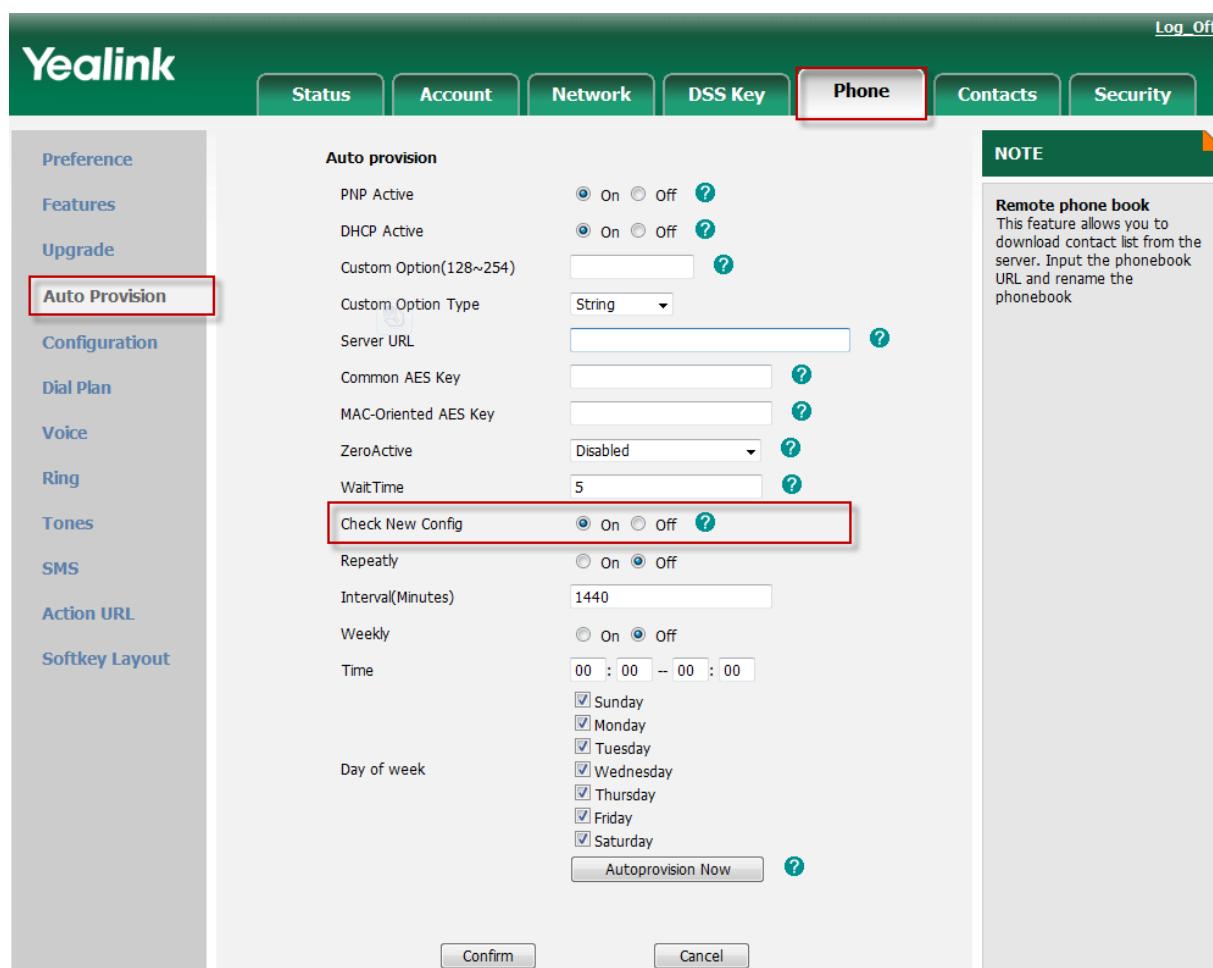
2.2 Repeatly

Repeatly means to check the new configuration on the server at a regular interval.

By default Repeatly mode will be "off", and default time will be 1440 minutes.
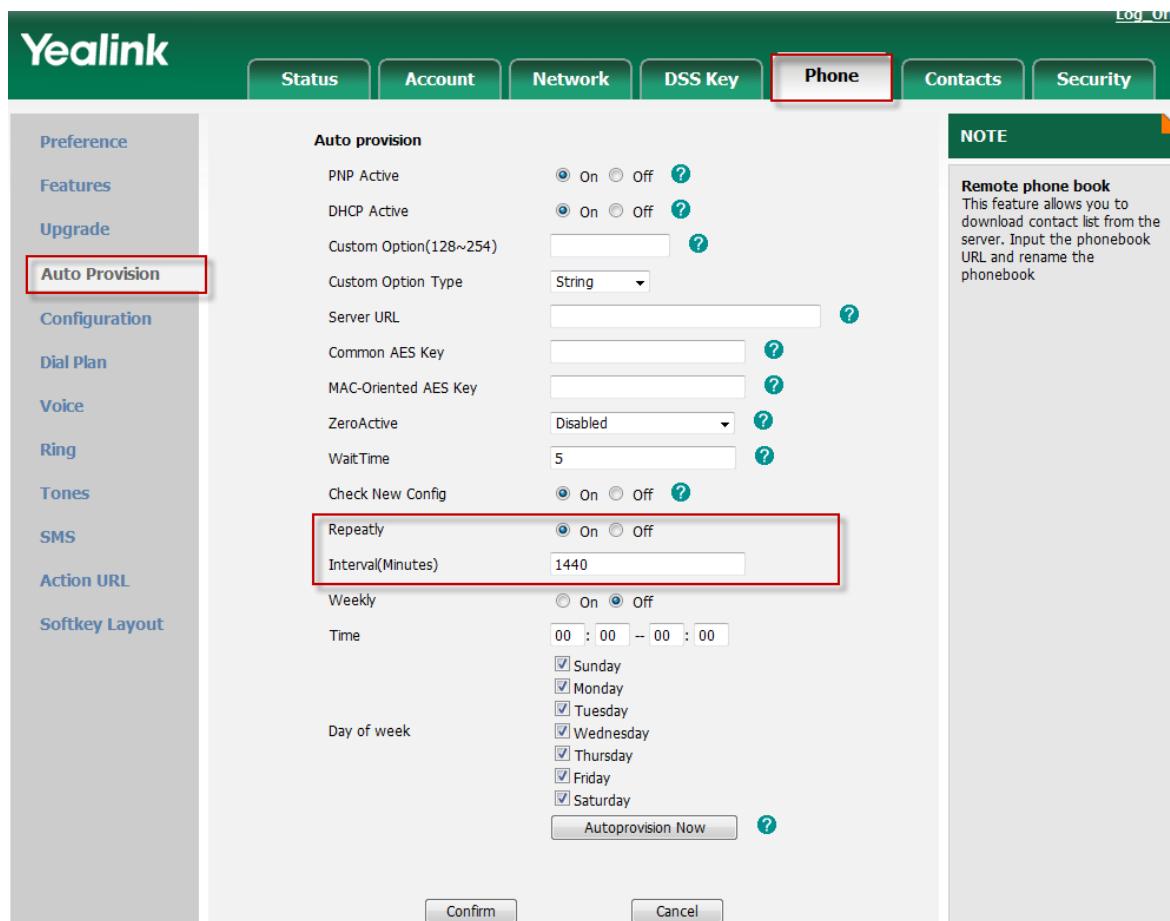
2.3 Weekly

Users can set what time of day and which day of week to check new configuration and do auto provision.
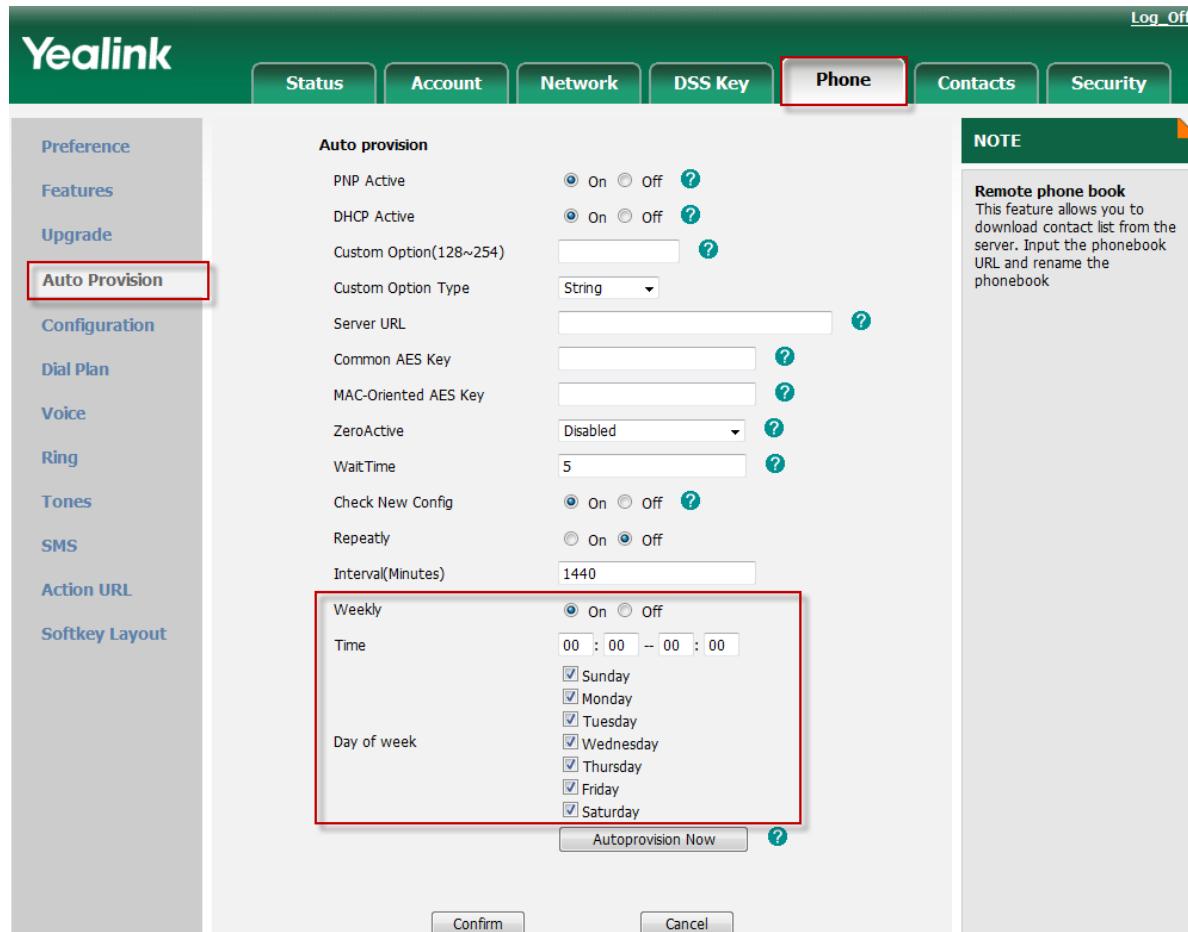
2.4 AutoProvision Now

AutoProvision Now means to check new configuration according to the "Server URL" immediately after pressing "Autoprovision Now".
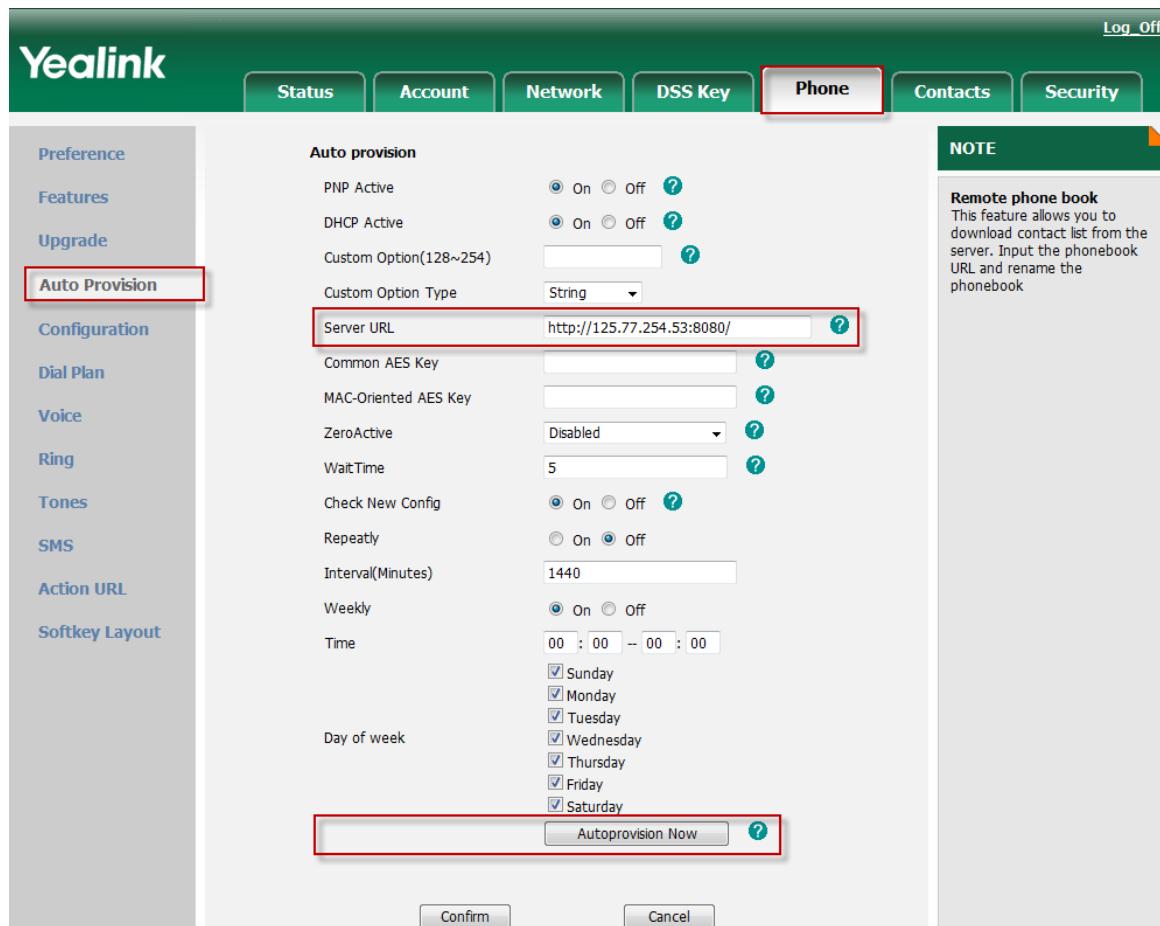
2.5 Multi-mode Mix

Users can also set more than one single mode for the auto provision. For example, if you select both "Check New Config" and "Repeatly" to be on, the phone will go and check the configuration file when power on and also repeatly.

3. Examples and statement in CFG file

3.1 Cfg flag section

Cfg section is used to update configurations in system.ini, user.ini and sipAccount.cfg files.

Eg. Update configuration of account 1

[cfg:/phone/config/voip/sipAccount0.cfg,account=1;reboot=1]

   account.Enable = 1

   account.Label = 333223

   account.DisplayName = 32323223

   account.UserName = 3233223

   account.AuthName = 3233223

   account.password = 3233223

   account.SIPServerHost = 192.168.1.10

   account.SIPServerPort = 5060

   account.SIPListenPort = 5060

   account.Expire = 3600

   account.UseOutboundProxy = 0

   account.OutboundHost =

   account.OutboundPort = 5060

   account.EnableSTUN = 0

   audio0.enable = 1

   audio0.PayloadType = PCMU

   audio0.priority = 1

   audio0.rtpmap = 0

   Note:

   1）"[cfg:/phone/config/voip/sipAccount0.cfg,account=1;reboot=1]": section header.

"cfg": It is used to identify the configuration type. Cfg section is used for configurations update in

system.ini, user.ini and sipAccount.cfg files.

2） "/phone/config/voip/sipAccount0.cfg": It indicates the path of configuration file.

3） "/phone/config/voip/sipAccount0.cfg": It indicates the path of configuration file.

"account=x": This parameter only works for the account update. If the value of "**x**" is equal to the value of sipAccount**x**.cfg, the account will take effect immediately even without reboot. If the value of "**x**" is unequal to the value of sipAccount**x**.cfg, it will not take effect without reboot.

Eg. If you set as [cfg:/phone/config/voip/sipAccount0.cfg,account=1;reboot=0],it will only take effect when you reboot the phone.

4） If you set as [cfg:/phone/config/voip/sipAccount0.cfg,account=0;reboot=0], it will take effect immediately after auto-provision.

5） "reboot=x": additional parameter, it should be at the last of the section. When reboot=0, the phone won't reboot after update, if reboot=1, the phone will reboot after update.

6） "account.Enable = 1": Set account 1 to be Enable.

7） "account. Label = 333223": Set the label value of corresponding account, if left blank, the value will be null. Add ";;" before the item if you don't want to configure this item.

8） Items start with account will take effect only after reboot.

3.2 Rom flag section

Rom section is used for firmware upgrade. The format is as below:

[rom:Firmware]

url = http://10.1.3.33:9/T3X/x.x.x.x.rom

Note:

1) "[rom:Firmware]": A flag to indicate for firmware update.

2) "url = http://10.1.3.33:9/T3X/x.x.x.x.rom": Specify the path of the firmware.

3) The phone will reboot automatically when doing the firmware upgrade.

3.3 Psw flag section

It is used for update users" password. The format is as below:

[psw:phone/config/.htpasswd]

admin=admin

var=var

user=user

Note:

1) "[psw:phone/config/.htpasswd]": Section header.

2) "phone/config/.htpasswd": Path of the file which you want to update

3) "admin=xxx": Set value for admin.

4) The changing password auto provision will take effect without reboot.

4. Appendix A

4.1 Description of configuration parameters in CFG file

Section Header and Path	Parameters	Permitted Values	Descriptions
[cfg:/phone/config/voip/sipAccount0.cfg,account=1;reboot=0] Note: 1.SIP IP Phone support 3 or 6 accounts, for each account, there are completely same parameters and they share same permitted values and default values. The difference is just on the path. The path for account1 is: [cfg:/phone/config/voip/sipAccount0.cfg,account=1;reboot=0] The path for account2 is: [cfg:/phone/config/voip/sipAccount1.cfg,account=1;reboot=0] The path for account3 is: [cfg:/phone/config/voip/sipAccount2.cfg,account=1;reboot=0] 2."reboot=0" means phone won"t reboot after update	account.**Enable**	0 or 1	It defines the **Line Active** value of account1. 0 stands for off 1 stands for on The default is 0.
	account.**Label**	String	It defines the **Label** of account1. The default is blank.
	account.**DisplayName**	String	It defines the **Display Name** of account1. The default is blank.
	account.**AuthName**	String	It defines the **Register Name** of account1. The default is blank.
	account.**UserName**	String	It defines the **User Name** of account1. The default is blank.
	account.**password**	String	It defines the **Password** of registration for account1. The default is blank.
	account.**SIPServerHost**	Domain name or IP Address	It defines the **SIP Server** of account1. The default is blank.
	account.**SIPServerPort**	Integer	It defines the **Port** of the SIP Server of account1. The default is 5060.
	account.**UseOutboundProxy**	0 or 1	It defines the value of **Enable Outbound Proxy Server** of account1. 0 stands for Disabled. 1 stands for Enabled.

			The default is 0.
	account.**OutboundHost**	Domain name or IP Address	It defines the **Outbound Proxy Server** of account1. The default is blank.
	account.**OutboundPort**	Integer	It defines the **Port** of the Outbound Proxy Server of account1. The default is 5060.
	account.**Transport**	0,1 or 2	It defines the value of **Transport** of account1. 0 stands for UDP. 1 stands for TCP. 2 stands for TLS. The default is 0.
[cfg:/phone/config/voip/sipAccount0.cfg,account=1;reboot=0]	account.**BakOutboundHost**	Domain name or IP Address	It defines the **Backup Outbound Proxy Server** of account1. The default is blank.
	account.**BakOutboundPort**	Integer	It defines the **Port** of Backup Outbound Proxy Server of account1. The default is 5060.
	account.**proxy-require**	String	It defines the value of **Proxy Require** of account1. The default is blank.
	account.**AnonymousCall**	0 or 1	It defines the value of **Anonymous Call** of account1. 0 stands for Disabled. 1 stands for Enabled. The default is 0.
	account.**AnonymousCall_OnCode**	string	It defines the **On Code** of **Anonymous Call** of account1.

		The default is blank.
account.**AnonymousCall_OffCode**	string	It defines the **Off Code** of **Anonymous Call** of account1. The default is blank.
account.**RejectAnonymousCall**	0 or 1	It defines the value of **Anonymous Call Rejection** of account1. 0 stands for Disabled. 1 stands for Enabled. The default is 0.
account.**AnonymousReject_OnCode**	string	It defines the **On Code** of **Anonymous Call Rejection** of account1. The default is blank.
account.**AnonymousReject_OffCode**	string	It defines the **Off Code** of **Anonymous Call Rejection** of account1. The default is blank.
account.**Expire**	Integer	It defines the value of **Login Expire** of account1. The default is 3600.
account.**SIPListenPort**	Integer	It defines the value of **Local SIP Por**t of account1. The default is 5060.
account.**Enable 100Rel**	0 or 1	It defines the value of **100 reliable retransmission** of account1. 0 stands for Disabled. 1 stands for Enabled. The default is 0.
account.**precondition**	0 or 1	It defines the value of **Enable Precondition** of account1. 0 stands for Disabled.

			1 stands for Enabled. The default is 0.
[cfg:/phone/config/voip/sipAccount0.cfg,account=1;reboot=0]	account.**SubsribeRegister**	0 or 1	It defines the value of **Subscribe Register** of account1. 0 stands for Disabled. 1 stands for Enabled. The default is 0.
	account.**SubsribeMWI**	0 or 1	It defines the value of **Subscribe for MWI** of account1. 0 stands for Disabled. 1 stands for Enabled. The default is 0.
	account.**CIDSource**	0 or 1	It defines the value of **Caller ID Header** of account1. 0 stands for FROM. 1 stands for PAI. The default is 0.
	account.**EnableSessionTimer**	0 or 1	It defines the value of **Use Session Timer** of account1. 0 stands for Disabled. 1 stands for Enabled. The default is 0.
	account.**SessionExpires**	Integer from 1 to 999	It defines the value of **Session Timer** of account1. The default is blank.
	account.**SessionRefresher**	0 or 1	It defines the value of **Refresher** of account1. 0 stands for Uac. 1 stands for Uas. The default is 0.

	account.**EnableUserEqual Phone**	0 or 1	It defines the value of **Use user=phone** of account1. 0 stands for Disabled. 1 stands for Enabled. The default is 0.
	account.**srtp_encryption**	0 or 1	It defines the value of **Voice Encryption (SRTP)** of account1. 0 stands for off. 1 stands for on. The default is 0.
	account.**ptime**	0,10,20,30,40, 50 or 60	It defines the value of **ptime** of account1. 0 stands for Disabled. 10 stands for 10ms. 20 stands for 20ms. And alike. The default is 20.
[cfg:/phone/config/voip/sipAccount0.cfg,account=1;reboot=0]	account.**ShareLine**	0 or 1	It defines the value of **Shared Line** of account1. 0 stands for Disabled. 1 stands for Enabled. The default is 0.
	account.**dialoginfo_callpickup**	0 or 1	It defines the value of **Dialog-Info Call Pickup** of account1. 0 stands for Disabled. 1 stands for Enabled. The default is 0.
	account.**AutoAnswer**	0 or 1	It defines the value of **Auto Answer** of account1. 0 stands for Disabled.

		1 stands for Enabled. The default is 0.
account.**MissedCallLog**	0 or 1	It defines the value of **Missed call log** of account1. 0 stands for Disabled. 1 stands for Enabled. The default is 1.
account.**BLANumber**	string	It defines the value of **BLA Number** of account1. The default is blank
account.**BLASubscribePeriod**	Integer from 60 to 7200	It defines the value of **BLA Subscription Period** of account1. The default is 300.
account.**SubscribeMWIExpire**	Integer from 0 to 84600	It defines the value of **MWI Subscription Period** of accont1. The default is 3600.
account.**CIDSource**	0 or 1	It defines the value of Caller ID Header of account1. 0 stands for FROM. 1 stands for PAI. The default is 0.
account.**RegisterMAC**	0 or 1	It defines the value of **SIP Send MAC** of account1. 0 stands for Disabled. 1 stands for Enabled. The default is 1.
account.**RegisterLine**	0 or 1	It defines the value of **SIP Send Line** of account1. 0 stands for Disabled.

			1 stands for Enabled. The default is 1.
[cfg:/phone/config/voip/sipAccount0.cfg,account=1;reboot=0]	account.**RegFailRetryInterval**	Integer from 0 to 1800	It defines the value of **SIP Registration Retry Timer** of accont1. The default is 30.
	account.**EnableSignalEncode**	0 or 1	Signal Encode selection 0 stands for Disabled. 1 stands for RC4 The default is 1.
	account.**SignalEncodeKey**	string	Value of Signal Encode Key The default is blank
	account.**conf-type**	0 or 2	It defines whether to enable the Broadsoft network conference feature. 0 stands for Local. 2 stands for Broadsoft Network conference The default is 0.
	account.**conf-uri**	String	It defines Broadsoft Network conference URI. The value can only be Conference@ as.iop1.broadworks.net
	account.**BlfListCode**	String	It defines the value of BlfListCode The default is blank.
	account.**SubscribeACDExpire**	Integer	It defines the time of ACD Subscription Period of account1. Scope:120~3600 The default is 3600(seconds).
	account.**IdleScreenEnable**	0 or 1	It defines whether to enable XML IdleScreen for account1 or not 0 stands for Disabled

		2 stands for Enabled
account.**IdleScreenURL**	URL	It defines the value of XMLIdleScreenURL It should be absolute path like below: **http://10.2.9.5:9/IdleScreen.xml**
account.**XMLDownFinish**	0 or 1	It define the download process for XML IdleScreen 0 stands for download unfinished 1 stands for download finished Only this value set to 0,the phone will go to download XML IdleScreen, otherwise the phone will not download XML IdleScreen The default is 0
Parameters start with DTMF will take effect after reboot.		
DTMF.**DTMFInbandTransfer**	0,1 or 2	It defines the value of **DTMF Type** of account1. 0 stands for INBAND. 1 stands for RFC2833. 2 stands for SIP INFO. 3 stands for AUTO+SIP INFO The default is 1.
DTMF.**InfoType**	0,1,2 or 3	It defines the value of **How to INFO DTMF** of account1. 0 stands for Disabled. 1 stands for DTMF-Relay. 2 stands for DTMF. 3 stands for Telephone-Event. The default is Disabled.
DTMF.**DTMFPayload**	Integer from 96 to 255	It defines the value of **DTMF Payload** of account1.

			The default is 101.
	Parameters start with NAT will take effect after reboot.		
	NAT.NATTraversal	0 or 1	It defines the value of **NAT Traversal** of account1. 0 stands for Disabled. 1 stands for STUN. The default is 0.
	NAT.**STUNServer**	Domain name or IP Address	It defines the value of **STUN Server** of account1. The default is blank.
	NAT.**STUNPort**	Integer	It defines the **Port** of STUN Server of account1. The default is 3478.
	NAT.**EnableUDPUpdate**	0 or 1	It defines the value of **UDP Keep-alive Message** of account1. 0 stands for Disabled. 1 stands for Enabled. The default is 1.
	NAT.**UDPUpdateTime**	Integer	It defines the value of **UDP Keep-alive Interval** of account1. The default is 30(seconds).
[cfg:/phone/config/voip/sipAccount0.cfg,account=1;reboot=0]	NAT.**rport**	0 or 1	It defines the value of **Rport** of account1. 0 stands for Disabled. 1 stands for Enabled. The default is 0.
	Parameters start with ADVANCED will take effect after reboot.		
	ADVANCED.**default_t1**	Float	It defines the value of **SIP Session Timer T1** of account1. The default is 0.5.

	ADVANCED.**default_t2**	Float	It defines the value of **SIP Session Timer T2** of account1. The default is 4.
	ADVANCED.**default_t4**	Float	It defines the value of **SIP Session Timer T4** of account1. The default is 5.
Parameters start with RingTone will take effect after reboot.			
	RingTone.**RingType**	common, Ring1.wav, Ring2.wav …… Ring8.wav	It defines the default Ring tone that should be played while there is an incoming call to this account. common stands for use common ring type. The default is common
Parameters start with blf will take effect after reboot.			
	blf.**SubscribePeriod**	Integer	It defines the value of **Subscribe Period** of account1. The default is 1800(seconds).
	blf.**BLFList_URI**	String	It defines the value of **BLFList URI** of account1. The default is blank.
Parameters start with audioX will take effect after reboot.			
	audio0.**enable**	0 or 1	It defines the activity of a specific codec. 0 means to disable the codec. 1 means to enable the codec.
	audio0.**PayloadType**	One of the following: PCMU PCMA G723_53 G723_63	It stands for a specific Codec type.

		G729	
		G722	
		G726-16	
		G726-24	
		G726-32	
		G726-40	
	audio0.**priority**	Integer from 0 to 10	It stands for the priority of a specific enabled codec.
	audio0.**rtpmap**	Integer	It defines the payload of the codec.
[cfg:/phone/config/voip/sipAccount0.cfg,account=1;reboot=0]	The parameters and the Permitted values are the same as[audio0]. For each account there are totally 10 usable codecs and each one has a section in configuration files and so there are sections from [audio0] to [audio10] for each account. (audio 6 is just a reserved section) They have default values as below. If you want to change one of them, please note that there should be no same parameter values for the same account:		

audio0.enable = 1	audio6.enable = 0
audio0.PayloadType = PCMU	audio6.priority = 0
audio0.priority = 1	audio6.rtpmap = 102
audio0.rtpmap = 0	
	audio7.enable = 0
audio1.enable = 1	audio7.PayloadType = G726-16
audio1.PayloadType = PCMA	audio7.priority = 0
audio1.priority = 2	audio7.rtpmap = 112
audio1.rtpmap = 8	
	audio8.enable = 0
audio2.enable = 0	audio8.PayloadType = G726-24
audio2.PayloadType = G723_53	audio8.priority = 0
audio2.priority = 4	audio8.rtpmap = 102
audio2.rtpmap = 4	
	audio9.enable = 0

audio3.enable = 0 audio3.PayloadType = G723_63 audio3.priority = 0 audio3.rtpmap = 4 audio4.enable = 1 audio4.PayloadType = G729 audio4.priority = 3 audio4.rtpmap = 18 audio5.enable = 1 audio5.PayloadType = G722 audio5.priority = 4 audio5.rtpmap = 9	audio9.PayloadType = G726-32 audio9.priority = 0 audio9.rtpmap = 2 audio10.enable = 0 audio10.PayloadType = G726-40 audio10.priority = 0 audio10.rtpmap = 104	

	Parameters start with Network will take effect after reboot.	

[cfg:/phone/config/system.ini,reboot=1]	Network.**eWANType**	0,1 or 2	It defines the type of **Internet Port (WAN).** 0 stands for DHCP. 1 stands for PPPoE. 2 stands for Static IP Address. The default is 0.
	Network.**strWANIP**	IP Address	It defines the **IP Address** when using static WAN settings. The default is blank.
	Network.**strWANMask**	Network Mask	It defines the **Subnet Mask** when using static WAN settings. The default is blank.
	Network.**strWanGateway**	IP Address	It defines the **Default Gateway** when using

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VoIPon www.voipon.co.uk sales@voipon.co.uk Tel: +44 (0)1245 808195 Fax: +44 (0)1245 808299

		static WAN settings. The default is blank.
Network.**strWanPrimary DNS**	IP Address	It defines the **Primary DNS** when using static WAN settings. The default is blank.
Network.**strWanSeconda ryDNS**	IP Address	It defines the **Secondary DNS** when using static WAN settings. The default is blank.
Network.**strPPPoEUser**	string	It defines the **User** name when using PPPoE WAN settings. The default is blank.
Network.**strPPPoEPin**	string	It defines the **Password** when using PPPoE WAN settings. The default is blank.
Parameters start with AutoProvision will take effect after reboot.		
AutoProvision.**bEnable PowerOn**	0 or 1	It defines the value of Check New Config. 0 stands for Disabled. 1 stands for Enabled. The default is 0.
AutoProvision.**bEnable Weekly**	0 or 1	It defines the value of **Weekly.** 0 stands for Disabled. 1 stands for Enabled. The default is 0.
AutoProvision.**strWeekl yMask**	0,1,2,3,4,5,6 or a combination of these numbers	It is available when mode is 5 or 7.It defines the day of week when there''s a need to check new config. If it is set to be 0123456, it means every day. 0:Sunday 1:Monday

		2:Tuesday
		3:Wednesday
		4:Thursday
		5:Friday
		6:Saturday
AutoProvision.**strWeekl yBeginTime**	Time as 19:45	It is available when mode is 5 or 7.It means the phone will check new config at a time
AutoProvision.**strWeekl yEndTime**	Time as 19:45	between schedule_time and schedule_time_end on a specified day every week.
AutoProvision.**bEnable Repeat**	0 or 1	It defines the value of **Repeatly.** 0 stands for Disabled. 1 stands for Enabled. The default is 0.
AutoProvision.**nRepeat Minutes**	1 to 43200	It is available when mode is 4 or 6.It stands for the interval time (by minutes) of checking new config.
AutoProvision.**bEnable PNP**	0 or 1	It defines the value of **PNP.** 0 stands for Disabled. 1 stands for Enabled. The default is 1.
AutoProvision.**bEnable DHCPOption**	0 or 1	It defines the value of **DHCP Active.** 0 stands for Disabled. 1 stands for Enabled. The default is 1.
AutoProvision.**listUserO ptions**	Integer from 128 to 254	It defines the **Custom Option**. The default is blank.
AutoProvision.**strServer URL**	HTTP/HTTPS /FTP/TFTP	It defines the **URL** which is supposed to be the auto provisioning server.

		Address	
AutoProvision.**strKeyAES16**	16-byte String		It defines the **Common AES Key** which is used for decrypting the common CFG file. Besides 0 ~ 9, A ~ Z, a ~ z, the valid characters include the following special ones: #$%*+,-.:=?@[]^_{}~
AutoProvision.**strKeyAES16MAC**	16-byte string		It defines the MAC-Oriented AES Key which is used for decrypting the MAC-OrientedCFG file. The valid characters are the same as **aes_key_16.**
Parameters start with Network will take effect after reboot.			
Network.**bBridgeMode**	0 or 1		It defines the type of **PC Port (LAN)**. 0 stands for **Rooter**. 1 stands for **Bridge**. The default is 1.
Network.**strLanIP**	IP Address		It defines the **IP Address** when the LAN is set as Rooter. The default is 10.0.0.1
Network.**strLanMask**	Network Mask		It defines the **Subnet Mask** when the LAN is set as Rooter. The default is 255.255.255.0.
Network.**bLanDHCPServer**	0 or 1		It means whether to enable **DHCP** server when the LAN is set as Rooter. 0 stands for Disabled. 1 stands for Enabled. The default is 1.
Network.**strDHCPClientBegin**	IP Address		It defines the IP Address range the DHCP rooter will allocate.
Network.**strDHCPClient**	IP Address		The default is from 10.0.0.10 to 10.0.0.100.

	End		
	Parameters start with VLAN will take effect after reboot.		
	LLDP.**EnableLLDP**	0 or 1	It define whether to enable LLDP or not 0 stands for Disabled 1 stands for Enabled The default is 0
	LLDP.**PacketInterval**	integer	It define value of LLDP packet interval time Scope:1~3600 The default is 120(s)
	VLAN.ISVLAN	0 or 1	It defines the VLAN **Active** option of **WAN Port**. 0 stands for Disabled. 1 stands for Enabled. The default is 0.
	VLAN.VID	Integer from 0 to 4094	It defines the **VID** of **WAN Port**. The default is 0.
	VLAN.**USRPRIORITY**	Integer from 0 to 7	It defines the VLAN **USRPRIORITY** of **WAN Port**. The default is 0.
	VLAN.**PC_PORT_VLAN _ENABLE = 1**	0 or 1	It defines the VLAN **Active** option of **PC Port**. 0 stands for Disabled. 1 stands for Enabled. The default is 0.
	VLAN.**PC_PORT_VID**	Integer from 0 to 4094	It defines the **VID** of **PC Port**. The default is 0.
	VLAN.**PC_PORT_PRIO**	Integer from 0	It defines the VLAN **USRPRIORITY** of **PC**

	RITY	to 7	**Port**. The default is 0.
	telnet.**telnet_enable**	0,1	It defines whether to enable or disable Telnet to the phone. 0 stands for Disabled. 1 stands for Enabled. The default is 0.
	Parameters start with QoS will take effect after reboot.		
[cfg:/phone/config/system.ini,reboot=1]	QoS.**RTPTOS**	Integer from 0 to 63	It defines the value of **Voice QoS**. The default is 40
	QoS.**SIGNALTOS**	Integer from 0 to 63	It defines the value of **SIP QoS.** The default is 40
	Parameters start with RTPPORT will take effect after reboot.		
	RTPPORT.**MaxRTPPort**	Integer from 0 to 65535	It defines the **MaxRTPPort** of **Local RTP Port.** The default is 11800.
	RTPPORT.**MinRTPPort**	Integer from 0 to 65535	It defines the **MinRTPPort** of **Local RTP Port.** The default is 11780.
	Parameters start with SYSLOG will take effect after reboot.		
	SYSLOG.**SyslogdIP**	IP Address	It defines the server where the syslog is supposed to be exported onto.
	Parameters start with 802.X will take effect after reboot.		
	802.1X.**Mode**	0 or 1	It defines whether to enable or disable the 802.1X feature 0 stands for Disabled. 1 stands for Enabled. The default is 0.
	802.1X.**Identity**	String	It defines the identity

			The default is blank.
	802.1X.**MD5Passwd**	String	It defines the password for the identity
			The default is blank.

Parameters start with VPN will take effect after reboot.

	VPN.**EnableVPN**	0 or 1	It defines whether to enable or disable the VPN feature 0 stands for Disabled. 1 stands for Enabled. The default is 0.

Parameters start with LocalTime will take effect without a reboot.

	LocalTime.**TimeZone**	Time Zone from -11 to +12	It defines the **Time Zone** you expect to use on the phone. The default is +8.
	LocalTime.**TimeServer1**	Domain name or IP Address	It defines the **Primary NTP Server**. The default is cn.pool.ntp.org.
[cfg:/phone/config/system.ini,reboot=1]	LocalTime.**TimeServer2**	Domain name or IP Address	It defines the **Secondary NTP Server**. The default is cn.pool.ntp.org.
	LocalTime.**Interval**	Integer	It defines the **Update Interval** when using NTP Server. The default is 1000(seconds).

Parameters start with Manual will take effect after reboot.

	Manual.**Year**	Integer	Manual setting time: year
	Manual.**Month**	Integer	Manual setting time: Month
	Manual.**Day**	Integer	Manual setting time: day
	Manual.**Hour**	Integer	Manual setting time: hour
	Manual.**Minute**	Integer	Manual setting time: minute
	Manual.**Second**	Integer	Manual setting time: second

Parameters start with LocalTime will take effect without a reboot.

	LocalTime.**OffSetTime**	Integer from	It defines the Offset of Daylight Saving Time.

		-300 to 300	The default is blank.
	LocalTime.**TimeFormat**	0 or 1	It defines the value of **Time Format**. 0 stands for 12 Hour format. 1 stands for 24 Hour format. The default is 0.
	LocalTime.**DateFormat**	Integer from 0 to 6	It defines the value of **Date Format**. 0 stands for WWW MMM DD. eg. Tues Oct 20. 1 stands for DD-MMM-YY. eg. 20-Oct-09. 2 stands for YYYY-MM-DD. eg. 2009-10-20. 3 stands for DD/MM/YYYY. eg. 20/10/2009. 4 stands for MM/DD/YY. eg. 10/20/09. 5 stands for DD MMM YYYY. eg. 20 Oct 2009. 6 stands for WWW DD MMM. eg. Tues 20 Oct. The default is 0.
	Parameters start with Profile will take effect without a reboot.		
	Profile.**VAD**	0 or 1	It defines the activity status of **VAD**. 0 stands for Disabled. 1 stands for Enabled. The default is 0
	Profile.**CNG**	0 or 1	It defines the activity status of **CNG**. 0 stands for Disabled. 1 stands for Enabled. The default is 1.
[cfg:/phone/config/system.ini,reboot=1]	Profile.**ECHO**	0 or 1	It defines the activity status of **Echo canceller**.

			0 stands for Disabled. 1 stands for Enabled. The default is 1.
	Profile.**SIDE_TONE**	-3 or -32768	It is an invisible setting which can only be configured via auto provision. -32768 stands for Disable Side tone. -3 stands for Enable Side tone. The default is -3.
Parameters start with Jitter will take effect after reboot.			
	Jitter.**Adaptive**	0 or 1	It defines the Type of Jitter Buffer. 0 stands for Fixed. 1 stands for Adaptive. The default is 1.
	Jitter.**Min**	Integer	It defines the value of **Min Delay**. The default is 0.
	Jitter.**Max**	Integer	It defines the value of **Max Delay**. The default is 300.
	Jitter.**Nominal**	Integer	It defines the value of **Normal Delay**. The default is 120.
Parameters start with Lang will take effect after reboot.			
[cfg:/phone/config/user.ini,reboot= 1]	Lang.**ActiveWebLanguage**	Language Name	It defines the **Language** used on the LCD. The default is "English". The other Languages are: Chinese_S/Chinese_T/French/German/Polish /Turkish/Portuguese/Spanish/Italian/French/D eutsch
	Lang.**WEBLanguage**	Language Name	It defines the **Language** used on the WEBpage. The default is "English". The other

			Languages are: Chinese_S/Turkish/Portuguese/Spanish/Italian/French/Deutsch
	Parameters start with PhoneSetting will take effect without a reboot.		
PhoneSetting.**InterDigit Time**	Integer		It defines the **Inter Digit Time**. The default is 4(seconds).
PhoneSetting.**Lock**	0,1,2 or 3		It defines the type of **Keyboard Lock**. 0 stands for Disabled. 1 stands for Menu Key. 2 stands for Function Key. 3 stands for All Keys. 4 stands for Lock&Answer. The default is 0.
Features.**BroadsoftFeatureKeySync**	0 or 1		It defines whether to enable Broadsoft DND&FWD synchronization or not 0 stands for Disabled 1 stands for Enalbed The default is 0
Features.**SaveCallHistory**	0 or 1		It defines whether to save Callhistory or not 0 stands for Disabled 1 stands for Enabled The default is 0
Features.**SaveCallHistory**	0 or 1		It defines whether to display Save Call History option on web interface. 0 stands for Disabled. 1 stands for Enabled. The default is 1.
ACD.**AutoAvailable**	0 or 1		It defines whether to enable ERGOCOM

			ACD Auto Available function or not 0 stands for Disable. 1 stands for Enable. The default is 0.
	ACD.**AutoAvailableTimer**	Integer	It defines the interval time for ERGOCOM **ACD** account automatically enabled. Scope:0~120 The default is 60(seconds).
	ACD.**Broadsoft**	0 or 1	It defines whether to enable **Broadsoft ACD** synchronization. 0 stands for Disable. 1 stands for Enable. The default is 0.
	WatchDog.**Time**	integer	It define the value for time WatchDog Scope: 0~15 The default is 10(s)
	PhoneSetting.**Ringtype**	Ring name	It defines the default Ring tone that has been built in the phone flash, for example,Ring1.wav,Ring2.wav and alike.
[cfg:/phone/config/user.ini,reboot= 1]	PhoneSetting.**BackLight**	integer	It defines the Backlight Brightness. The parameter depends on model types. Scope:1~10 The default is 6.
	PhoneSetting.**BacklightT ime**	1,60,120,300, 600,1800	It defines the Backlight Time 1 stands for Always on 60 stands for 60s 120 stands for 120s 300 stands for 300s 600 stands for 600s

			1800 stands for 1800s
			The default value is 60(seconds)
	PhoneSetting.**UnusedBackLight**	Integer	It defines the Unused backlight brightness. Scope:1~10 The default is 1
	PhoneSetting.**ScreensaverTime**	1，60，120，300，600，1800	It define for Screen saverTime 1 stands for Always on 60 stands for 60s 120 stands for 120s 300 stands for 300s 600 stands for 600s 1800 stands for 1800s The default is 60
	Screensavertime will take effect after reboot.		
	PhoneSetting.**BackGrounds**	String	It define the BackGround image The BackGround image should be less than5M bytes and less than 5M pixels If you want to set a picture as system default the format should be Resource: PictureName.png Eg. PhoneSetting.BackGrounds = Resource:pictures (04).png If you want to set a picture as user-define backgrounds picture,the format should be config: PictureName.png Eg. PhoneSetting.BackGrounds = Config:pictures (04).png
	PhoneSetting.**Theme**	0,1,2,3	It defines color of theme

		0 stands for Theme1
		1 stands for Theme2
		2 stands for Theme3
		3 stands for Theme4
		The default is Theme1
PhoneSetting.**IsDefineKey**	0 or 1	It define whether to allowed User-define of sofekey or not 0 stands for not allowed 1 stands for Allowed The default is 0
Zero.**WaitTime**	Integer	It define value of WaitTime for Zero-SP-touch function. The default is 0
Zero.**ForbidZero**	0 or 1	It define whether to enable Zero-SP-Touch function or not 0 stands for Disabled 1 stands for Enabled The default is 1
PhoneSetting.**SBarHandleRGB**	Xxx,xxx,xxx	It define the color of scroll bar RGB format color value The default is 120,120,120
PhoneSetting.**ProductName**	String	It defines the **Product Name** which you can see via LCD interface. The default value for Yealink models are SIP-T38P、SIP-T32P respectively.
Parameters start with PhoneVolume will take effect after reboot.		
PhoneVolume.**RingVol**	Integer from 0 to 15	It defines the ring volume. 0 is the minimum value meaning silence.

			15 is the maximum value.
	PhoneVolume.**HandFreeSpkVol**	Integer from 0 to 15	It defines the receiving volume of Speaker. The default is 8.
	PhoneVolume.**HandFreeMicVol**	Integer from 0 to 15	It defines the sending volume of Speaker. The default is 8.
	PhoneVolume.**HandSetSpkVol**	Integer from 0 to 15	It defines the receiving volume of Handset. The default is 8.
	PhoneVolume.**HandSetMicVol**	Integer from 0 to 15	It defines the sending volume of Handset. The default is 8.
	PhoneVolume.**HeadSetSpkVol**	Integer from 0 to 15	It defines the receiving volume of Headset. The default is 8.
	PhoneVolume.**HeadSetMicVol**	Integer from 0 to 15	It defines the sending volume of Headset. The default is 8.
	PhoneSetting.**RingForTranFailed**	Ring name	It defines the default Ring tone that has been used while Transfer failed, for example,Ring1.wav,Ring2.wav and alike.
[cfg:/phone/config/user.ini,reboot= 1]	PhoneSetting.**PreDialAutoDial**	0 or 1	It defines whether to auto dial out feature in Pre-Dial interface 0 stands for Disabled. 1 stands for Enabled. The default is 0.
	PhoneSetting.**IsDeal180**	0 or 1	It defines whether to deal with 180 messages after the 183 message. 0 stands for No. 1 stands for Yes. The default is 0.
	Parameters start with SignalToneVol will take effect after reboot.		
	SignalToneVol.**Handset**	Integer from 0 to 15	It defines the volume of dial tone on Handset. The default is 8.

SignalToneVol.**Headset**	Integer from 0 to 15	It defines the volume of dial tone on headset. The default is 8.
SignalToneVol.**Handfre e**	Integer from 0 to 15	It defines the volume of dial tone on Speaker. The default is 8.

Parameters start with AlertInfoX will take effect after reboot.

AlertInfo0.**Text**	String	It defines the first **Internal Ringer Text**. The default is blank.
AlertInfo0.**Ringer**	Integer	It defines the ringer for the first Internal Ringer Text. The ringer is defined by its order number. The default is 1.

They have same path and parameters as [AlertInfo0] and share the same Permitted Values and default values.

AlertInfo0.**Text** AlertInfo0.**Ringer**	AlertInfo5.**Text** AlertInfo5. **Ringer**
AlertInfo1.**Text** AlertInfo1. **Ringer**	AlertInfo6.**Text** AlertInfo6. **Ringer**
AlertInfo2.**Text** AlertInfo2. **Ringer**	AlertInfo7.**Text** AlertInfo7. **Ringer**
AlertInfo3.**Text** AlertInfo3. **Ringer**	AlertInfo8.**Text** AlertInfo8. **Ringer**
AlertInfo4.**Text** AlertInfo4. **Ringer**	AlertInfo9.**Text** AlertInfo9. **Ringer**

Parameters start with AlwaysFWD will take effect after without a

			reboot.
	AlwaysFWD.**Enable**	0 or 1	It defines whether the **Always Forward** is enabled. 0 stands for Disabled. 1 stands for Enabled. The default is 0.
[cfg:/phone/config/user.ini,reboot= 0]	AlwaysFWD.**Target**	Phone number	It defines the **Target** number that the phone will **Always Forward to**. The default is blank.
	AlwaysFWD.**On_Code**	String	It defines the **On Code** for **Always Forward**. The default is blank.
	AlwaysFWD.**Off_Code**	String	It defines the **Off Code** for **Always Forward**. The default is blank.
	Parameters start with BusyFWD will take effect without a reboot.		
	BusyFWD.**Enable**	0 or 1	It defines whether the **Busy Forward** is enabled. 0 stands for Disabled. 1 stands for Enabled. The default is 0.
	BusyFWD.**Target**	Phone number	It defines the **Target** number that the phone will **Busy Forward to**. The default is blank.
	BusyFWD.**On_Code**	String	It defines the **On Code** for **Busy Forward**. The default is blank.
	BusyFWD.**Off_Code**	String	It defines the **Off Code** for **Busy Forward**. The default is blank.
	Parameters start with TimeoutFWD will take effect without a reboot.		
	TimeoutFWD.**Enable**	0 or 1	It defines whether the **No Answer Forward**

			is enabled. 0 stands for Disabled. 1 stands for Enabled. The default is 0.
	TimeoutFWD.**Target**	Phone number	It defines the **Target** number that the phone will **No Answer Forward to**. The default is blank.
	TimeoutFWD.**On_Code**	String	It defines the **On Code** for **No Answer Forward**. The default is blank.
	TimeoutFWD.**Off_Code**	String	It defines the **Off Code** for **No Answer Forward**. The default is blank.
	TimeoutFWD.**Timeout**	Integer	It defines the time after which the call will be forwarded when using **No Answer Forward**. The default is 10(seconds).
	Parameters start with Features will take effect without a reboot.		
	Features.**Call_Waiting**	0 or 1	It defines the activity of **Call Waiting**. 0 stands for Disabled. 1 stands for Enabled. The default is 1.
[bin:/phone/config/UserLang/lang +English.txt]	url	URL	It defines the URL which point to the target language file that you want to update to. Eg. If you want to update English via auto-provision you can set URL as below: url = http://10.1.3.101:8080/lang+English.txt Please contact to Yealink FAE team for newest language files for available languages.

[cfg:/phone/config/Contacts/LDAP.cfg]	**NameFilter**	Standard LDAP filters e.g. (&(sn=%)(telephoneNumber=*))	It defines the search criteria for name look ups. The format of the search filter is compliant to the standard String representations of LDAP search filters (RFC 2254). The name prefix for search entered by the user is represented by the "%" symbol in the filter. The default is blank.
	NumberFilter	Standard LDAP filters e.g. (|(telephoneNumber=%)(Mobile=%)(ipPhone=%))	It defines the search criteria for number look ups. The format of the search filter is compliant to the standard String representations of LDAP search filters (RFC 2254). The number prefix for search entered by the user is represented by the "%" symbol in the filter. The default is blank.
	host	Domain name or IP Address	This setting refers to the DNS name or IP address of the LDAP server. The default is 0.0.0.0
	port	Integer	It defines the LDAP server port. The default is 389
	base	String	It defines the LDAP search base (the distinguished name of the search base object) which corresponds to the location in the directory from which the LDAP search is requested to begin. The search base narrows the search scope and decreases directory lookup time. If you have multiple organizational units in your directory (for

			example, OU=Sales in O=COMPANY and OU=Development in O=COMPANY), but the "OU=Sales" organization never uses AOL AIM, you can restrict the lookup to the OU=Development subtree only by entering providing the following search base: OU=Development, O=COMPANY. Other examples see below. The default is blank.
	user	String	It defines the bind "Username" for LDAP servers. Most LDAP servers allow anonymous binds in which case the setting can be left blank. However if the LDAP server does not allow anonymous binds, you will need to provide the Username and Password allowed to query the LDAP server. The default is blank.
	pswd	String	It defines the bind "Password" for LDAP servers. Yealink phones use "simple" authentication scheme for bind requests. This setting can be left blank in case the server allows anonymous binds. Otherwise you will need to provide the Password along with the Username in order to access the LDAP server. The default is blank.
	MaxHits	Integer from 1 to 32000	If defines the maximum number of search results to be returned by the LDAP server. If Max.hits is 0 or blank the LDAP server will

		47	return all search results. Please note that a very large value of the "Max. Hits" will slow down the LDAP lookup, therefore the setting should be configured according to the available bandwidth. The default is blank.
	NameAttr	Space separated name attributes	If defines the "name" attributes of each record which are to be returned in the LDAP search results. This setting compresses the search results, as the server only returns the attributes which are requested by the Yealink phone. The setting allows the user to configure multiple space separated name attributes. Please consult your system administrator regarding which name attributes are to be configured. The default is blank.
	NumbAttr	space separated number attributes	It defines the "number" attributes of each record which are to be returned in the LDAP search results by the LDAP server. This setting compresses the search results, as the server only returns the attributes which are requested. The user can configure multiple space separated number attributes by using this setting. Please consult your system administrator regarding which number attributes are to be configured. The default is blank.
	DisplayName	%cn %sn	This setting is for showing the entry

		information on the screen. The default is blank.
version	version 3/version 2	It defines the protocol version for the phone when send the bind request to the server. Please make sure your LDAP server support version 3/2 bind request. The default is version 3.
SearchDelay	Integer from 0 to 2000	This setting is for configuring the delay display time after search. The default is 0
CallInLookup	0 or 1	This setting can be used to enable calling line identification using LDAP. When the setting is turned "Enable", the phone performs an LDAP number search for the incoming number and displays the name of the calling party accordingly. 0 stands for Disabled. 1 stands for Enabled. The default is 1.
LDAPSort	0 or 1	This setting is for sorting the search results, if make this option "Enabled", it will arrange in the first alphabetical of the name order if return the name display; if only has the number return, it will list in numerical order. 0 stands for Disabled. 1 stands for Enabled. The default is 1.
DialLookup	0 or 1	This setting can be used to enable call out line identification using LDAP. When the setting

			is turned "Enabled", the phone performs an LDAP number search for PreDial or Dial status.0 stands for Disabled. 1 stands for Enabled. The default is 1.
[cfg:/phone/config/Contacts/Broad Soft.cfg]	BroadSoft.**BWCallLogan dDir**	0 or 1	It define whether to enable configuring showing Broadsoft CallLog and Directory or not. 0 stands for Disabled configuration 1 stands for Enabled configuration The default is 1
	BroadSoft.**BeHaveCallLog**	0 or 1	It define whether to save CallLog or not Only when **BroadSoft.BWCallLogandDir=1,** this option will take effect. 0 stands for Disabled 1 stands for Enabled The default is 1
	BroadSoft.**BeHaveBWDir**	0 or 1	It defines whether to enable Broasoft phonebook. It corresponds to Broadsoft Active option in WebUI. Only when **BroadSoft.BWCallLogandDir=1**, this option will take effect. 0 stands for Disabled 1 stands for Enabled The default is 1
	DisplayName	String	It defines the D**isplay Name** of the first

		Broadsoft phonebook The default is blank.
Server	String	It defines the **Server** of the first Broadsoft phonebook. The default is blank.
Port	Integer	It defines the **Port** of the first Broadsoft phonebook. The default is blank.
UserName	String	It defines the **User Name** of the first Broadsoft phonebook. The default is blank..
PassWord	String	It defines the **Password** of the first Broadsoft phonebook. The default is blank.
It support 6 Boradsoft Phone (0~5). For each group, there are completely same parameters and they share same permitted values and default values. The difference is just on the path. For example, the path of Account1 is [Account0].While for Account2 is [Account1],and other sections alike.		
DisplayName	String	It defines the **Display Name** of the first Broadsoft Call Log. The default is blank.
Server	String	It defines the **Server** of the first Broadsoft Call Log. The default is blank.
Port	Integer	It defines the **Port** of the first Broadsoft Call Log. The default is blank.
UserName	String	It defines the **User Name** of the first

			Broadsoft Call Log. The default is blank.
	PassWord	String	It defines the **Password** of the first Broadsoft Call Log. The default is blank.
	It support 3 Broadsodt Call Log (0~2). For each Call Log, there are completely same parameters and they share same permitted values and default values. The difference is just on the path. For example, the path of Account1 is [CallLog0]. While for Account2 is [CallLot1], and other sections alike.		
[cfg:/phone/config/user.ini,reboot=0]	Features.**Call_WaitingTone**	0 or 1	It defines the activity of **Call Waiting Tone**. 0 stands for Disabled. 1 stands for Enabled. The default is 1.
	Features.**CallCompletion**	0 or 1	It defines the activity of **CallCompletion**. 0 stands for Disabled. 1 stands for Enabled. The default is 0.
	Features.**Hotlinenumber**	Phone number	It defines the **Hotline Number**. The default is blank.
	Features.**BusyToneDelay**	0,3 or 5	It defines **BusyToneDelay**, the Delay of Busy Tone which is played when the other party hangs up. The default is 0(seconds).
	Features.**DND_Code**	404, 480 or 486	It defines the value of **Return code when DND**. 404 means 404 (Not Found) 480 means 480 (Temporarily not available) 486 means 486 (Busy here)

			The default is 480.
	Features.**Refuse_Code**	404, 480 or 486	It defines the value of **Return code when refuse**. 404 means 404 (Not Found) 480 means 480 (Temporarily not available) 486 means 486 (Busy here) The default is 486.
	Features.**DND_On_Code**	String	It defines **DND On Code**. The default is blank.
	Features.**DND_Off_Code**	String	It defines **DND Off Code**. The default is blank.
	Features.**ButtonSoundOn**	0 or 1	It defines whether to enable dialing tone. 0 stands for Disabled. 1 stands for Enabled. The default is 1.
	Features.**AllowIntercom**	0 or 1	It defines whether to allow an intercom call. 0 stands for Disabled. 1 stands for Enabled. The default is 1.
	Features.**IntercomMute**	0 or 1	It defines whether to mute the intercom call. 0 stands for No. 1 stands for Yes. The default is 1.
[cfg:/phone/config/user.ini,reboot= 0]	Features.**IntercomTone**	0 or 1	It defines whether to play the intercom warning tone. 0 stands for No. 1 stands for YES. The default is 1.
	Features.**IntercomBarge**	0 or 1	It defines whether to enable intercom barge.

		0 stands for Disabled. 1 stands for Enabled. The default is 1.
Features.**Hotlinedelay**	Integer from 0 to 180	It defines the hotline delay time. The default is 4.
Parameters start with Trans will take effect after reboot.		
Trans.**IsOnHookTrans**	0 or 1	It defines whether to enable OnHook to complete an attend transfer. 0 stands for Disabled. 1 stands for Enabled. The default is 1.
Parameters start with AutoRedial will take effect without a reboot.		
AutoRedial.**EnableRedial**	0 or 1	It defines whether to enable/disable **Auto redial**. 0 stands for Disabled. 1 stands for Enabled. The default is 0.
AutoRedial.**RedialInterval**	Integer from 1 to 300	It defines the value of **Auto redial interval**. The default is 10 (seconds).
AutoRedial.**RedialTimes**	Integer from 1 to 300	It defines the value of **Auto redial times**. The default is 10.
Parameters start with PoundSend will take effect after reboot.		
PoundSend.**Enable**	0,1 or 2	It defines the **Key As Send**. 0 stands for Disabled. 1 stands for # key. 2 stands for * key. The default is 1.
Parameters start with Emergency will take effect without a reboot.		
Emergency.**Num**	Phone	It defines the **Emergency** numbers separated

	numbers separated by commas	by commas. For example, it can be specified as:911,999,110,120 The default is blank.
Parameters start with Message will take effect after reboot.		
Message.**VoiceNumber0**	String	It defines **Voice Mail** number of account1. The default is blank.
Message.**VoiceNumber1**	String	It defines **Voice Mail** number of account2. The default is blank.
Message.**VoiceNumber2**	String	It defines **Voice Mail** number of account3 if the account exists. The default is blank.
Advanced.**var_enabled**	0 or 1	It define whether to enable 3-Level Permissions 0 stands for Disabled 1 stands for Enabled The default is 0
Parameters start with vpm_tone_Country will take effect after reboot.		
vpm_tone_Country.**Country**	string	It defines the country name that relates to its own tone rules. The valid values can be seen from the webpage which are like China, France and so on. It can be specified as Custom in which case the tone rules can be customized.
	Parameters start with Tone Param will take effect after reboot.	
[cfg:/phone/config/user.ini,reboot= 0]	Tone Param.**dial**	string	It defines the tone of **Dial** which will be active when the Country is chosen to be "Custom".

			The format of the string is like 100/200/300 which means it will be a tone of 100Hz with 200ms duration, followed by a 300ms pause and then repeat. 0 stands for silence. The default is blank.
	Tone Param.**ring**	string	It defines the tone of **Ring Back**. The format is the same as dial. The default is blank.
	Tone Param.**busy**	string	It defines the tone of **Busy**. The format is the same as dial. The default is blank.
	Tone Param.**congestion**	string	It defines the tone of **Congestion**. The format is the same as dial. The default is blank.
	Tone Param.**callwaiting**	string	It defines the tone of **Call Waiting**. The format is the same as dial. The default is blank.
	Tone Param.**dialrecall**	string	It defines the tone of **Dial Recall**. The format is the same as dial. The default is blank.
	Tone Param.**record**	string	It defines the tone of **Record**. The format is the same as dial. The default is blank.
	Tone Param.**info**	string	It defines the tone of **Info**. The format is the same as dial. The default is blank.
	Tone Param.**stutter**	string	It defines the tone of **Stutter**. The format is the same as dial.

			The default is blank.
	Tone Param.**message**	string	It defines the tone of **Message**. The format is the same as dial. The default is blank.
	Tone Param.**autoanswer**	string	It defines the tone of **Auto Answer**. The format is the same as dial. The default is blank.
	Parameters start with vpm_default will take effect after reboot.		
[cfg:/phone/config/user.ini,reboot= 0]	vpm_default.**dial**	0 or 1	It defines whether to enable the customized ringtone of **Dial** when in Custom mode. 0 stands for Disabled. 1 stands for Enabled. The default is 1.
	vpm_default.**ring**	0 or 1	It defines whether to enable the customized ringtone of **Ring Back** when in Custom mode. 0 stands for Disabled. 1 stands for Enabled. The default is 1.
	vpm_default.**busy**	0 or 1	It defines whether to enable the customized ringtone of **Busy** when in Custom mode. 0 stands for Disabled. 1 stands for Enabled. The default is 1.
	vpm_default.**congestion**	0 or 1	It defines whether to enable the customized ringtone of **Congestion** when in Custom

			mode. 0 stands for Disabled. 1 stands for Enabled. The default is 1.
	vpm_default.**callwaiting**	0 or 1	It defines whether to enable the customized ringtone of **Call Waiting** when in Custom mode. 0 stands for Disabled. 1 stands for Enabled. The default is 1.
	vpm_default.**dialrecall**	0 or 1	It defines whether to enable the customized ringtone of **Dial Recall** when in Custom mode. 0 stands for Disabled. 1 stands for Enabled. The default is 1.
	vpm_default.**record**	0 or 1	It defines whether to enable the customized ringtone of **Record** when in Custom mode. 0 stands for Disabled. 1 stands for Enabled. The default is 1.
	vpm_default.**info**	0 or 1	It defines whether to enable the customized ringtone of **Info** when in Custom mode. 0 stands for Disabled. 1 stands for Enabled. The default is 1.
	vpm_default.**stutter**	0 or 1	It defines whether to enable the customized ringtone of **Stutter** when in Custom mode. 0 stands for Disabled.

			1 stands for Enabled. The default is 1.
	vpm_default.**message**	0 or 1	It defines whether to enable the customized ringtone of **Message** when in Custom mode. 0 stands for Disabled. 1 stands for Enabled. The default is 1.
	vpm_default.**autoanswer**	0 or 1	It defines whether to enable the customized ringtone of **Auto Answer** when in Custom mode. 0 stands for Disabled. 1 stands for Enabled. The default is 1.
[cfg:/phone/config/user.ini,reboot= 0]	**Parameters start with AreaCode will take effect after reboot.**		
	AreaCode.**Code**	Integer	It defines the **Code** of Area Code. The default is blank.
	AreaCode.**minlen**	Integer	It defines the **Min Length** of Area Code. The default is blank.
	AreaCode.**maxlen**	Integer	It defines the Max Length of Area Code. The default is blank.
	Parameters start with BlockOut will take effect after reboot.		
	BlockOut.**1**	Number or String	It defines a number which will be block when dial it out. Besides a specific number, it support some special characters: "." stands for an arbitrary number or string with arbitrary length. "x" stands for one arbitrary number or string. For other details, please refer to User Manual.
	BlockOut.**2**	They share the same Permitted Value and rules as **1**.	

	BlockOut.**3**	
	BlockOut.**4**	
	BlockOut.**5**	
	BlockOut.**6**	
	BlockOut.**7**	
	BlockOut.**8**	
	BlockOut.**9**	
	BlockOut.**10**	
	Parameters start with RemotePhoneBookX will take effect after reboot.	
	RemotePhoneBook0.**URL**	It defines the **Phone book url** which must be a url linking to an XML-format phonebook like http://192.168.0.231/Vin/phonebook1.xml The default is blank.
	RemotePhoneBook0.**Name**	It defines the **Phone book name** of the first Remote phonebook. For more details, please refer to the instruction to Remote phonebook.
[cfg:/phone/config/user.ini,reboot= 0]	They share the same parameters and Permitted Values as [RemotePhoneBook0].	

RemotePhoneBook0.**URL**	RemotePhoneBook3.**URL**
RemotePhoneBook0.**Name**	RemotePhoneBook3.**Name**
RemotePhoneBook1.**URL**	RemotePhoneBook4.**URL**
RemotePhoneBook1.**Name**	RemotePhoneBook4.**Name**
RemotePhoneBook2.**URL**	
RemotePhoneBook2.**Name**	

Parameters start with Webserver Type will take effect after reboot.

Webserver Type.**WebType**	0,1,2 or 3	It defines the WebServer Type. 0 stands for Disabled. 1 stands for HTTP & HTTPS. 2 stands for HTTP Only. 3 stands for HTTPS Only. The default is 1.

Parameters start with Port will take effect after reboot.

Port.**http_port**	Integer	Http port for web access, Default is 80
Port.**https_port**	Integer	Https port for web access, Default is 443

Parameters start with ReplaceRule will take effect without a reboot.

ReplaceRule.**ReplaceAll**	0 or 1	It defines whether to replace all in replace rule 0 stands for replace part 1 stands for replace all The default is 1.

Parameters start with Forbidden will take effect without a reboot.

Forbidden.**DND**	0 or 1	It defines whether to have the authority to use DND feature. 0 stands for yes. 1 stands for no. The default is 0.
Forbidden.**FWD**	0 or 1	It defines whether to have the authority to use Forward feature. 0 stands for yes. 1 stands for no. The default is 0.

	Parameters start with FactoryConfig will take effect after reboot.		
	FactoryConfig.**CustomEnabled**	0 or 1	It defines whether to enable custom factory setting. 0 stands for yes. 1 stands for no. The default is 0.
	Parameters start with memoryX will take effect after reboot.		
[cfg:/phone/config/vpPhone/vpPhone.ini]	memory1.**type**	blf or bla	It is used when configuring a DSS Key as **BLF** or **Shared Line**. blf stands for BLF. bla stands for Shared Line. The default is blank.
	memory1.**Line**	Integer from 0 to max line number	Seen from the web, it reflects the value under Line title. It defines the Line you are going to use for a specific function (if the function needs to specify a line). Normally,0 stands for Auto,1 stands for Line1 and so on. However, it"s a little different when configured as bla or blf in which case 0 stands for Line1, 1 stands for Line2 and so on. The default is 0.
[bin:/phone/config/vpPhone/Dialing.xml] The Function is only available when user-define softkey is Enabled	URL	HTTP /FTP/TFTP Address	It define sofekey layout for Dialing interface Eg. url = http://10.1.0.145:9/update/Dialing

i.e. PhoneSetting.IsDefineKey=1			.xml
[bin:/phone/config/vpPhone/CallFailed.xml] The Function is only available when user-define softkey is Enabled i.e. PhoneSetting.IsDefineKey=1	URL	HTTP /FTP/TFTP Address	It define sofekey layout for CallFailed interface Eg. url = http://10.1.0.145:9/update/CallFailed.xml
[bin:/phone/congfig/vpPhone/CallIn.xml] The Function is only available when user-define softkey is Enabled i.e. PhoneSetting.IsDefineKey=1	URL	HTTP /FTP/TFTP Address	It define sofekey layout for CallIn interface Eg. url = http://10.1.0.145:9/update/CallIn.xml
[bin:/phone/config/vpPhone/Connecting.xml] The Function is only available when user-define softkey is Enabled i.e. PhoneSetting.IsDefineKey=1	URL	HTTP /FTP/TFTP Address	It define sofekey layout for Connecting interface Eg. url = http://10.1.0.145:9/update/Connecting.xml
[bin:/phone/config/vpPhone/RingBack.xml] The Function is only available when user-define softkey is Enabled i.e. PhoneSetting.IsDefineKey=1	URL	HTTP /FTP/TFTP Address	It define sofekey layout for RingBack interface Eg. url = http://10.1.0.145:9/update/RingBack.xml
[bin:/phone/config/vpPhone/Talking.xml] The Function is only available when user-define softkey is Enabled i.e. PhoneSetting.IsDefineKey=1	URL	HTTP /FTP/TFTP Address	It define sofekey layout for Talking interface Eg. url = http://10.1.0.145:9/update/Talking.xml
[cfg:/phone/config/vpPhone/vpPhone.ini]	memory1.**Value**	It depends	Seen from the web, it reflects the value under **Extension** title. Normally, the value is an

			extension number while in some cases it''s not. For example, when you configure a key as URL, the value must be a url string. The default is blank.
	memory1.**PickupValue**	string	It is used only for BLF. It defines the pickup number that your server allocates.
	memory1.**DKtype**	Integer	. It''s a number reflects the key function. 0:N/A 1:Conference 2:Forward 3:Transfer 4:Hold 5:DND 6:Redial 7:Call Return 8:SMS 9:Call Pickup 10:Call Park 11:DTMF 12:Voicemail 13:SpeedDial 14:Intercom 15:Line 16:BLF 17:URL 18:Group Listening 19:Public Hold 20:Private Hold 21:Shared Line 22:XML Group 23:Group Pickup 24: Paging 25:Record 35:URLRecord 27:XMLbrowser 37:Switch

			38:LDAP 39:BLF List 40:Prefix 41: Zero-Sp-Touch 42:ACD 45:Local Group 46:Broadsoft Group The default is 0.
[cfg:/phone/config/vpPhone/vpPhone.ini]	They share the same parameters and Permitted Values as [memory1]. memory1.Line memory1.Type memory1.**Value** memory1.**PickupValue** memory1.**Dktype** memory2.Line memory2.Type memory2.**Value** memory2.**PickupValue** memory2.**Dktype** memory3.Line memory3.Type memory3.**Value** memory3.**PickupValue** memory3.**Dktype** Memory4.Line Memory4.Type Memory4.**Value** Memory4.**PickupValue** Memory4.**Dktype** Memory5.Line Memory5.Type Memory5.**Value** Memory5.**PickupValue** Memory5.**Dktype** Memory5.Line Memory5.Type Memory5.**Value** Memory5.**PickupValue** Memory5.**Dktype**		
[rom:Firmware] **The phone will reboot automatically.**	URL	HTTP /FTP/TFTP Address	It defines the **URL** which is supposed to be the auto provisioning server. Eg.URL=http://10.1.0.145:9/update/38.0.0.40 .rom

[bin:/phone/config/ContactData.xml, reboot=0] **This parameter will take effect after reboot.**	URL	HTTP /FTP/TFTP Address	It defines the **URL** which is supposed to be the auto provisioning server. Eg:url=http://10.1.0.145:9/ContactData.xml
[bin:/phone/config/AutoDST.xml, reboot=0] **This parameter will take effect after reboot.**	URL	HTTP /FTP/TFTP Address	It defines the **URL** which is supposed to be the auto provisioning server. Eg:url=http://10.1.0.145:9/ AutoDST.xml
[bin:/phone/config/DialPlan.xml,reboot=0] **This parameter will take effect after reboot.**	URL	HTTP /FTP/TFTP Address	It defines the **URL** which is supposed to be the auto provisioning server. Eg:url=http://10.1.0.145:9/ DialPlan.xml
[bin:/phone/userdata/ringtone/b012.wav] **This parameter will take effect after reboot.**	URL	HTTP /FTP/TFTP Address	It defines the **URL** which is supposed to be the auto provisioning server. url=http://10.1.0.145:9/update/b012.wav
[bin:/phone/userdata/ScreenSaver/IMG_3156.png]	URL	HTTP /FTP/TFTP Address	It define PNG format image for ScreenSaver The ScreenSaver image should be smaller than5M bytes and 5M pixels Eg.url = http://10.1.0.145:9/update/IMG_3156.png
[bin:/phone/userdata/ScreenSaver/IMG_3157.jpg]	URL	HTTP /FTP/TFTP Address	It define JPG format image for ScreenSaver The ScreenSaver image should be smaller than5M bytes and 5M pixels Eg.url = http://10.1.0.145:9/update/IMG_3157.jpg
[bin:/phone/userdata/ScreenSaver/IMG_3158.bmp]	URL	HTTP /FTP/TFTP Address	It define BMP format image for ScreenSaver The ScreenSaver image should be smaller than 5M bytes and 5M pixels

			Eg.url = http://10.1.0.145:9/update/IMG_3158.bmp
ScreenSaver and BackGround image both can support JPG,BMP,PNG. and The images should be smaller than5M bytes and 5M pixels			
[bin:/phone/userdata/BackGround/ IMG_3156.png]	URL	HTTP /FTP/TFTP Address	It define PNG format image for BackGround The BackGround image should be smaller than 5M bytes and 5M pixels Eg.url = http://10.1.0.145:9/update/IMG_3156.png
[bin:/phone/userdata/BackGround/ IMG_3157.jpg]	URL	HTTP /FTP/TFTP Address	It define PNG format image for BackGround The BackGround image should be smaller than5M bytes and 5M pixels Eg.url = http://10.1.0.145:9/update/IMG_3157.jpg
[bin:/phone/userdata/BackGround/ IMG_3158.bmp]	URL	HTTP /FTP/TFTP Address	It define BMP format image for BackGround The BackGround image should be smaller than5M bytes and 5M pixels Eg.url = http://10.1.0.145:9/update/IMG_3158.bmp
Please be noted that every contact picture should be smaller than 2M bytes. You can contact to your Local distribute for details how to create Contact.tar, ContactData.xml.			
[bin:/phone/config/Pics/Contact.tar]	URL	HTTP /FTP/TFTP Address	It can upload contacts with pictures using tar format files. Eg.url = tftp://10.2.9.3/Contact.tar
[bin:/phone/config/ContactData.x ml]	URL	HTTP /FTP/TFTP Address	It can upload contacts without pictures using xml format Eg. url = http://10.1.0.145:9/update/ContactData.xml
[bin:/phone/config/DialNow.xml,r	URL	HTTP	It defines the **URL** which is supposed to be

eboot=0] **This parameter will take effect** **after reboot.**		/FTP/TFTP Address	the auto provisioning server. Eg:url=http://10.1.0.145:9/DialNow.xml
[cfg:/phone/config/user.ini,reboot= 0]	UserName.**admin**	String	It define a new Admin user"s name
	UserName.**var**	String	It define a new Var user"s name
	UserName.**user**	String	It define a new User user"s name

For Color phone, the original user name will still exist after you modify the user name, because for color phone it will create a new user name instead of replacing the original user name, so that you can still logon Color phone using original users name.

For example, if you use sentence below to modify user name:

    [cfg:/phone/config/user.ini,reboot=0]

UserName.admin = admin1

UserName.var = var1

UserName.user = user1

You have to create a new password for the corresponding user. as below:

[psw:/phone/config/.htpasswd]

user1 = user   it define the password for the "user1" user;

admin1 = admin   it define the password for the "admin1" user;

var1 = var   it define the password for the "var1" user;

You can also delete the original user if needed as below:

-admin =

-user =

-var =

[psw:phone/config/.htpasswd] **These parameters will take effect** **without a reboot.**	admin	string	Admin password for web access
	var	string	Var password for web access
	user	string	User password for web access
	-admin = used to delete ADMIN user -user = used to delete User user -var = used to delete Var user		

[cfg:/phone/config/vpPhone/vpPhone.ini]	programablekey1.**DKtype**	Integer	It's a number reflects the key function. 0:N/A 1:Conference 2:Forward 3:Transfer 4:Hold 5:DND 6:Redial 7:Call Return 8:SMS 9:Call Pickup 10:Call Park 11:DTMF 12:Voicemail 13:SpeedDial 14:Intercom 15:Line 16:BLF 17:URL 18:Group Listening 19:Public Hold 20:Private Hold 21:Shared Line 22:XML Group 23:Group Pickup 24: Paging 25:Record 35:URLRecord 27:XMLbrowser 37:Switch 38:LDAP 39:BLF List 40:Prefix 41: Zero-Sp-Touch 42:ACD 45:Local Group 46:Broadsoft Group The default is 0.
	programablekey1.**Line**	Integer from 0 to max line number	Seen from the web, it reflects the value under **Line** title. It defines the **Line** you are going to use for a specific function (if the function needs to specify a line). Normally,0 stands for Auto,1 stands for

			Line1 and so on. However, it"s a little different when configured as bla or blf in which case 0 stands for Line1, 1 stands for Line2 and so on. The default is 0.
programablekey1.**Value**		It depends	Seen from the web, it reflects the value under **Extension** title. Normally, the value is an extension number while in some cases it"s not. For example, when you configure a key as URL, the value must be a url string. The default is blank.
programablekey1.**XML PhoneBook**		The available XML PhoneBook name	If the value of DKtype is 22(XML phonebook), you can configure an available XMLPhoneBook name for this parameter.

They share the same parameters and Permitted Values as [programablekey1].

programablekey1 corresponds to SoftKey 1 **programablekey1.**DKtype = 30 **programablekey1.**Line = 0 **programablekey1.**Value = **programablekey1.**XMLPhoneBook = programablekey2 corresponds to SoftKey 2 programablekey2.DKtype = 5 programablekey2.Line = 0	programablekey9 corresponds to OK Programablekey9.DKtype = 29 Programablekey9.Line = 0 Programablekey9.Value = Programablekey9.XMLPhoneBook = programablekey10 corresponds to Cancel Programablekey10.DKtype = 29 Programablekey10.Line = 0 Programablekey10.Value = Programablekey10.XMLPhoneBook =

	programablekey2.Value =	
	programablekey2.XMLPhoneBook =	programablekey11 corresponds to CONF
		Programablekey11.DKtype = 29
	programablekey3 corresponds to SoftKey 3	Programablekey11.Line = 0
	programablekey3.DKtype = 14	Programablekey11.Value =
	programablekey3.Line = 0	Programablekey11.XMLPhoneBook =
	programablekey3.Value =	programablekey12 corresponds to HOLD
	programablekey3.XMLPhoneBook =	Programablekey12.DKtype = 29
		Programablekey12.Line = 0
	programablekey4 corresponds to SoftKey 4	Programablekey12.Value =
	programablekey4.DKtype = 29	Programablekey12.XMLPhoneBook =
	programablekey4.Line = 0	programablekey13 corresponds to MUTE
	programablekey4.Value =	Programablekey13.DKtype = 29
	programablekey4.XMLPhoneBook =	Programablekey13.Line = 0
		Programablekey13.Value =
	programablekey5 corresponds to Up navigation key	Programablekey13.XMLPhoneBook =
	programablekey5.DKtype = 38	programablekey14 corresponds to TRAN
	programablekey5.Line = 0	Programablekey14.DKtype = 29
	programablekey5.Value =	Programablekey14.Line = 0
	programablekey5.XMLPhoneBook =	Programablekey14.Value =
		Programablekey14.XMLPhoneBook =
	programablekey6 corresponds to Down navigation key	Programablekey15 corresponds to History
	programablekey6.DKtype = 39	Programablekey15.DKtype = 29
	programablekey6.Line = 0	Programablekey15.Line = 0
	programablekey6.Value =	Programablekey15.Value =

	programablekey6.XMLPhoneBook = programablekey7 corresponds to Left navigation key programablekey7.DKtype = 28 programablekey7.Line = 0 programablekey7.Value = programablekey7.XMLPhoneBook = programablekey8 corresponds to Right navigation key programablekey8.DKtype = 29 programablekey8.Line = 0 programablekey8.Value = programablekey8.XMLPhoneBook =	Programablekey15.XMLPhoneBook =	
[cfg:/phone/config/vpPhone/Ext38 _00000000000001.cfg] Here Ext38_0000000000000**X**.cfg, **X** stands for **X**th Expansion module. Eg. For Ext38_00000000000001.cfg, 1 stands for first Expansion module. Here Key**X**, **X** stands for (**X+1**)th DSSKey on the corresponding Expansion module. Eg.Key0 stands for first DSSKey on the corresponding Expansion module. While Key1 stands for second DSSKey on the corresponding Expansion module.	Key0.**DKtype**	Integer	It define DKtype Expansion module Key It‟s a number reflects the key function. 0:N/A 1:Conference 2:Forward 3:Transfer 4:Hold 5:DND 6:Redial 7:Call Return 8:SMS 9:Call Pickup 10:Call Park 11:DTMF 12:Voicemail 13:SpeedDial

And so on			14:Intercom 15:Line
			16:BLF 17:URL
			18:Group Listening
			19:Public Hold
			20:Private Hold
			21:Shared Line
			22:XML Group
			23:Group Pickup
			24: Paging 25:Record
			35:URLRecord
			27:XMLbrowser
			37:Switch
			38:LDAP 39:BLF List
			40:Prefix
			41: Zero-Sp-Touch
			42:ACD 45:Local Group
			46:Broadsoft Group
			The default is 0.
	Key0.**Line**	Integer	It define Line value for Expansion Module Key 0 stands for auto 1 stands for line1 2 stands for line2 And so on The default is 0
	Key0.**Value**	Integer	It define Key Value for Expansion Module Key
	Key0.**type**	Integer	It define Key for Expansion Module Key

| | Key0.**PickupValue** | Integer | It define Pickup value for Expansion Module Key |
| | Key0.**Label** | String | It define Key Label for Expansion Module Key |

Note: If you want to clear the value of the item, just leave it to be blank.

For example:

 [psw:phone/config/.htpasswd]

 admin=

It will configure the password of Admin as NULL.