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Auto Provision Manual

Contents

Auto Provision Manual	
1.1 Summary	2
2.1 Obtain the server address	
2.1.1 Pushed by PnP servers	
2.1.2 Detect DHCP custom option	3
2.1.3 Detect DHCP Option 66.	
2.1.4 Detect DHCP Option 43.	
2.1.5 Detect the phone flash.	
2.2 Download configuration files	5
2.3 Resolve and apply the configurations	6
2.4 Do other updates	
2.4.1 Upload ringtone	8
2.4.2 Update LCD language	8
2.4.3 Upload local contacts	8
2.4.4 Update firmware	
2.4.5 Upload LCD logo	9
Appendix A	11
Description of configuration parameters in CFG file	11



1.1 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:

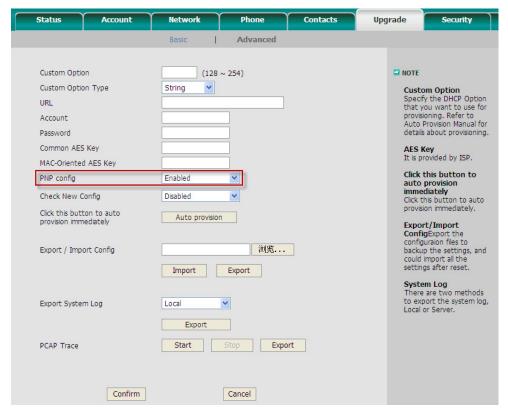
- 1. Obtain a server address in which store the configuration files.
- 2. Download the configuration files from the configured server.
- 3. Resolve and apply the configurations written in the configuration file.
- 4. Do other updates, for example the firmware updating.

2.1 Obtain the server address

When the phone boots up, it will go by the following process to try to obtain the server address: PnP server \rightarrow DHCP custom option \rightarrow DHCP option 66 \rightarrow DHCP option 43 \rightarrow Phone Flash

The following are the details of each process:

2.1.1 Pushed by PnP servers



Note: Plug 'n Play (PnP) provides a proprietary method to enable "Auto Provisioning". If **PnP config** is Enabled, the phone will send SIP SUBSCRIBE messages to a multicast address when it boots up. Any SIP server understanding that message will reply with a SIP NOTIFY message containing the Auto

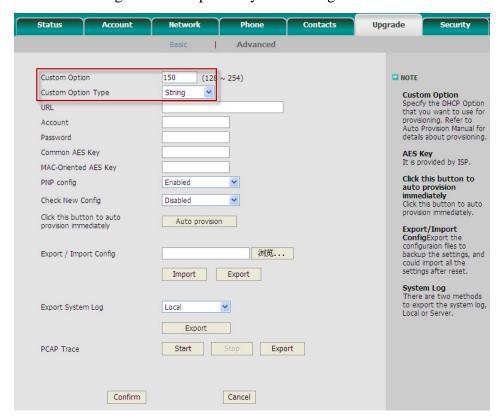




Provisioning Server URL where the phones can request their configuration. Modern SIP PBXs/Proxies can provide the PnP configuration data. Please refer to the manual of your PBX/Proxy. This kind of auto provision is mainly used under some possible circumstance like your phones have no default provisioning server set and are not able to detect DHCP options (when the they use static IP address). Pay attention to the point that **PnP config** has the highest priority in obtaining the provisioning server address and if it fails to get any information from PnP servers, it won't go to other processes. In V50 firmware or higher, it will go to the other processes.

2.1.2 Detect DHCP custom option.

It must be configured on the phone by web management:



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, it will go to detect DHCP Option 66.

2.1.3 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.

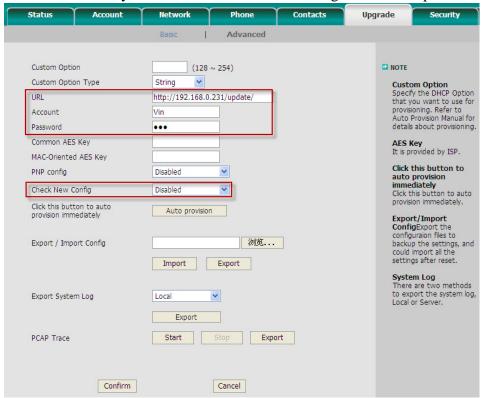
2.1.4 Detect DHCP Option 43.

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.



2.1.5 Detect the phone flash.

The value is what you can read from the web management of the phone:

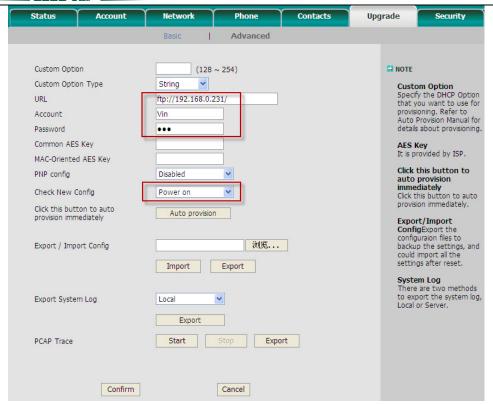


Note: This process depends on the setting of **Check New Config** and if it is set to be **Disabled**, the phone won't detect the FLASH. The supported protocols of a **URL** are: HTTP/HTTPS/FTP/TFTP. **Account** and **Password** will be used to access to the URL if required. FTP server always has this requirement. For example, the following settings will make the phone access to FTP server 192.168.0.231, using account Vin and Passwords 123 (on the web it is hid by 3 points), when the phone powers on. If the phone fails to get any information from phone flash, the current round of obtaining server address will stop here.

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2.2 Download configuration files

There are 2 configuration files both of which are CFG formatted that the phone will try to download from the server during provisioning. We call them Common CFG file and MAC-Oriented CFG file. The Common CFG file will be effectual for all the phones of the right model. However, a MAC-Oriented CFG file will only be effectual for the 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 the specific phone. The names of the Common CFG file for each model are:

T28: y000000000000.cfg
T26: y000000000005.cfg
T22: y00000000007.cfg
T20: y0000000000008.cfg
T12: y0000000000008.cfg
T18: y0000000000009.cfg

There are 11 zeros between the letter y and the last number. Except 0 for T28 which is special, the last number for other models is decided by the hardware version of the relevant model, for it is the first number of the hardware version of the model. For instance, for a T22 whose MAC address is 001565113af8, the 2 configuration files for it will be: y0000000000005.cfg and 001565113af8.cfg.

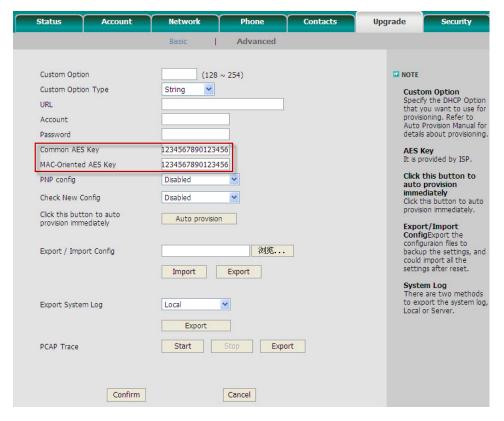
To have this name division on configuration files will help when doing same auto provision to mass phones. For example, assumed that you have 1000 pieces of T28 and you want to update firmware for all phones, you just need to prepare only one y000000000000.cfg which defines the firmware update request, then put it onto the provisioning server.

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.



2.3 Resolve and apply the configurations

If the downloaded configuration files have been AES encrypted, 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: $0 \sim 9$, $A \sim Z$, $a \sim z$ and the following special characters: #\$ % * + , - . : = ? @ [] ^ _ { } ~



In a CFG file, there are texts defining configurations. Here's a brief description to the texts. Take the AES_KEY section in the following picture for example.

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```
v000000000000.cfa
  1
 2 [ autop mode ]
 3 path = /config/Setting/autop.cfg
 4 mode =
 5  schedule min =
 6 schedule time =
 7 schedule time end =
 8 schedule dayofweek =
10 [ PNP ]
11 path = /config/Setting/autop.cfg
12 \text{ Pnp} = 0
13
14 [ cutom option ]
15 path = /config/Setting/autop.cfg
16 cutom option code0 =
17 cutom option type0 = 1
19 [ autoprovision ]
20 path = /config/Setting/autop.cfg
21 server address =
22 user =
23 password =
24
25 [ AES KEY ]
25 path = /config/Setting/autop.cfg
27 \text{ aes key } 16 =
   aes key 16 mac =
```

The following texts are system-defined that cannot be changed manually; otherwise it will cause a failure to auto provision:

- 1. The section header [AES KEY]
- 2. The directory of the section path = /config/Setting/autop.cfg
- 3. The parameters aes_key_16 and aes_key_16_mac

You can only specify a valid value after the equal sign "=". This is a section for specifying the AES keys. So you can make it like follow to specify 1234567890123456 for both **Common AES Key** and

MAC-Oriented AES Key:

```
[ AES_KEY ]
path = /config/Setting/autop.cfg
aes_key_16 = 1234567890123456
aes_key_16_mac = 1234567890123456
```

The lines start with # are instructions, they don't make any sense to the configuration, just for easy understanding when read by certain person. For the detailed instruction of the parameters written in the CFG files, please refer to the **Appendix A**.

Note: If the phone finds that the downloaded CFG files are completely the same as it is applied the very last time, the auto provision will stop here. The phone knows it by comparing the MD5 value of the downloaded CFG files and the latest applied CFG files.

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2.4 Do other updates

It depends on the texts written in the CFG files to decide whether to make other updates. There are mainly the following other updates:

2.4.1 Upload ringtone

[ringtone]

path = /tmp/download.cfg

server_address =

The server_address must link to a .wav file. The wav file should not be larger than 100kB.

For example: ftp://Vin:123@192.168.0.231/Ring20.wav

2.4.2 Update LCD language

The section defining request for language update in the CFG files:

[Lang]

path = /tmp/download.cfg

server address =

The server address must be like *serverAddress/lang-*.txt*. For example:

http://192.168.0.231/provision/lang-German.txt

And note that it does not enable you to add new languages. It just enables you to modify the existent languages. Please refer to another manual for details on this point - **How to modify the language by auto provision**

2.4.3 Upload local contacts

The section defining request for contact update in the CFG files:

[ContactList]

path = /tmp/download.cfg

server_address =

An example of server_address: http://192.168.0.132:9/provision/contactData1.xml

Note that the name has to be contactData1.xml.

The format of the XML file is different from the file which you use in "remote phone book". It's the same as



the "Local phone book". You can export an existed local phone book to see what the format is exactly.

2.4.4 Update firmware

The section defining request for firmware update in the CFG files: [firmware] path = /tmp/download.cfg server_type = server_ip = server_port = login_name = login_pswd = http_url = firmware name = An example: [firmware] *path* = /tmp/download.cfg *server_type* = *ftp* $server_ip = 192.168.0.231$ $server_port = 21$ login_name = Vin $login_pswd = 123$

The above section will make the phone access to ftp server 192.168.0.231, using port 21, user name "Vin" and password "123" to download the 0.0.0.143.rom. And if the $server_type = http$, it will go to http://192.168.0.231/T28/to download the <math>0.0.0.143.rom and then update.

2.4.5 Upload LCD logo

The section defining request for uploading LCD logo in the CFG files:

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http_url = http://192.168.0.231/T28/

 $firmware_name = 0.0.0.143.rom$





[Logo]
path = /tmp/download.cfg
server_address = http://192.168.0.231/T28/logo.dob
[Features]
path = /config/Features/Phone.cfg
LCD_Logo = 2

The above section will make the phone access to the HTTP server to get the dob file and after provision, the new logo will be used.

Note that the logo should be of DOB format and within the size limit:

T28: not larger than 236 * 82

T26/T22/T12: not larger than 132*64

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Fax: +86-592-5702455



Appendix A

1. Description of configuration parameters in CFG file

Section Header and Path	Parameters	Permitted Values	Descriptions
	mode	0,1,4,5,6,7	It defines the value of Check New Config. 0:Disabled 1:Power on 4:Repeatedly 5:Weekly 6:Power on + Repeatedly 7:Power on + Weekly The default is 0.
	schedule_min	1 to 43200	It is available when mode is 4 or 6.It stands for the interval time (by minutes) of checking new config.
[autop_mode] path = /config/Setting/autop.cfg	schedule_dayofweek	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
	schedule_time schedule_time_end	Time as 19:45 Time as 19:45	It is available when mode is 5 or 7.It means the phone will check new config at a time between schedule_time and schedule_time_end on a specified day every week.
[PNP] path = /config/Setting/autop.cfg	Pnp	0 or 1	It defines the value of PNP config. 0 stands for Disabled. 1 stands for Enabled. The default is 0.
	cutom_option_code0	Integer from 129 to 254	It defines the Custom Option . The default is blank.
[cutom_option] path = /config/Setting/autop.cfg	cutom_option_type0	0 or 1	It defines the Custom Option Type 0 stands for IP Address. 1 stands for String. The default is 1.

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[AES_KEY] path = /config/Setting/autop.cfg	aes_key_16 aes_key_16_mac	16-byte String 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: #\$%*+,:=?@[]^_{}~ It defines the MAC-Oriented AES Key which is used for decrypting the MAC-OrientedCFG file. The valid
	server_address	HTTP/HTTPS /FTP/TFTP Address	characters are the same as aes_key_16. It defines the URL which is supposed to be the auto provisioning server.
[autoprovision] path = /config/Setting/autop.cfg	user	String	It defines the Account which may be used when the access to the URL requires authentication.
	password	String	It defines the Password which may be used when access to the URL requires authentication.
	Enable	0 or 1	It defines the Line Active value of account1. 0 stands for off 1 stands for on The default is 0.
	Label	String	It defines the Label of account1. The default is blank.
	DisplayName	String	It defines the Display Name of account1. The default is blank.
	AuthName	String	It defines the Register Name of account1. The default is blank.
	UserName	String	It defines the User Name of account1. The default is blank.
[account] path = /config/voip/sipAccount0.cfg	password	String	It defines the Password of registration for account1. The default is blank.
	SIPServerHost	Domain name or IP Address	It defines the SIP Server of account1. The default is blank.
	SIPServerPort	Integer	It defines the Port of the SIP Server of account1. The default is 5060.
	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.
	OutboundHost	Domain name or IP Address	It defines the Outbound Proxy Server of account1.



		The default is blank.		
		It defines the Port of the Outbound Proxy		
OutboundPort	Integer	Server of account1.		
0 0000 00000000000000000000000000000000		The default is 5060.		
		It defines the value of Transport of		
		account1.		
		0 stands for UDP.		
Transport	0,1 or 2	1 stands for TCP.		
		2 stands for TLS.		
		The default is 0.		
		It defines the Backup Outbound Proxy		
BakOutboundHost	Domain name	Server of account1.		
	or IP Address	The default is blank.		
		It defines the Port of Backup Outbound		
BakOutboundPort	Integer	Proxy Server of account1.		
		The default is 5060.		
		It defines the value of Proxy Require of		
proxy-require	String	account1.		
1 1		The default is blank.		
		It defines the value of Anonymous Call of		
		account1.		
AnonymousCall	0 or 1	0 stands for Disabled.		
•		1 stands for Enabled.		
		The default is 0.		
		It defines the value of Anonymous Call		
		Rejection of account1.		
RejectAnonymousCall	0 or 1	0 stands for Disabled.		
		1 stands for Enabled.		
		The default is 0.		
		It defines the value of Login Expire of		
Expire	Integer	account1.		
		The default is 3600.		
		It defines the value of Local SIP Port of		
SIPListenPort	Integer	account1.		
		The default is 5060.		
		It defines the value of 100 reliable		
		retransmission of account1.		
Enable 100Rel	0 or 1	0 stands for Disabled.		
		1 stands for Enabled.		
		The default is 0.		
		It defines the value of Enable Precondition		
		of account1.		
precondition	0 or 1	0 stands for Disabled.		
		1 stands for Enabled.		
		The default is 0.		



		It defines the value of Subscribe Register of
		account1.
SubsribeRegister	0 or 1	0 stands for Disabled.
		1 stands for Enabled.
		The default is 0.
		It defines the value of Subscribe for MWI
		of account1.
SubsribeMWI	0 or 1	0 stands for Disabled.
		1 stands for Enabled.
		The default is 0.
		It defines the value of Caller ID Header of
		account1.
CIDSource	0 or 1	0 stands for FROM.
		1 stands for PAI.
		The default is 0.
		It defines the value of Use Session Timer of
		account1.
EnableSessionTimer	0 or 1	0 stands for Disabled.
		1 stands for Enabled.
		The default is 0.
	_	It defines the value of Session Timer of
SessionExpires	Integer from 1	account1.
_	to 999	The default is blank.
		It defines the value of Refresher of
		account1.
SessionRefresher	0 or 1	0 stands for Uac.
		1 stands for Uas.
		The default is 0.
		It defines the value of Use user=phone of
		It defines the value of Use user=phone of account1.
EnableUserEqualPhone	0 or 1	
EnableUserEqualPhone	0 or 1	account1.
EnableUserEqualPhone	0 or 1	account1. 0 stands for Disabled.
EnableUserEqualPhone	0 or 1	account1. 0 stands for Disabled. 1 stands for Enabled.
EnableUserEqualPhone	0 or 1	account1. 0 stands for Disabled. 1 stands for Enabled. The default is 0.
EnableUserEqualPhone srtp_encryption	0 or 1 0 or 1	account1. 0 stands for Disabled. 1 stands for Enabled. The default is 0. It defines the value of Voice Encryption
		account1. 0 stands for Disabled. 1 stands for Enabled. The default is 0. It defines the value of Voice Encryption (SRTP) of account1.
		account1. 0 stands for Disabled. 1 stands for Enabled. The default is 0. It defines the value of Voice Encryption (SRTP) of account1. 0 stands for off.
		account1. 0 stands for Disabled. 1 stands for Enabled. The default is 0. It defines the value of Voice Encryption (SRTP) of account1. 0 stands for off. 1 stands for on.
		account1. 0 stands for Disabled. 1 stands for Enabled. The default is 0. It defines the value of Voice Encryption (SRTP) of account1. 0 stands for off. 1 stands for on. The default is 0.
srtp_encryption		account1. 0 stands for Disabled. 1 stands for Enabled. The default is 0. It defines the value of Voice Encryption (SRTP) of account1. 0 stands for off. 1 stands for on. The default is 0. It defines the value of ptime of account1.
	0 or 1	account1. 0 stands for Disabled. 1 stands for Enabled. The default is 0. It defines the value of Voice Encryption (SRTP) of account1. 0 stands for off. 1 stands for on. The default is 0. It defines the value of ptime of account1. 0 stands for Disabled.
srtp_encryption	0 or 1 0,10,20,30,40,	account1. 0 stands for Disabled. 1 stands for Enabled. The default is 0. It defines the value of Voice Encryption (SRTP) of account1. 0 stands for off. 1 stands for on. The default is 0. It defines the value of ptime of account1. 0 stands for Disabled. 10 stands for 10ms.
srtp_encryption	0 or 1 0,10,20,30,40,	account1. 0 stands for Disabled. 1 stands for Enabled. The default is 0. It defines the value of Voice Encryption (SRTP) of account1. 0 stands for off. 1 stands for on. The default is 0. It defines the value of ptime of account1. 0 stands for Disabled. 10 stands for 10ms. 20 stands for 20ms.



		WWW.YEALINK.CO
		account1.
		0 stands for Disabled.
		1 stands for Enabled.
		The default is 0.
		It defines the value of Dialog-Info Call
		Pickup of account1.
dialoginfo_callpickup	0 or 1	0 stands for Disabled.
		1 stands for Enabled.
		The default is 0.
		It defines the value of Auto Answer of
		account1.
AutoAnswer	0 or 1	0 stands for Disabled.
		1 stands for Enabled.
		The default is 0.
		It defines the value of Missed call log of
		account1.
MissedCallLog	0 or 1	0 stands for Disabled.
-		1 stands for Enabled.
		The default is 1.
		It defines the On Code of Anonymous Call
AnonymousCall_OnCod	string	of account1.
e	Sums	The default is blank.
		It defines the Off Code of Anonymous Call
AnonymousCall_OffCo	string	of account1.
de	Sumg	The default is blank.
		It defines the On Code of Anonymous Call
AnonymousReject_OnC	string	Rejection of account1.
ode	Sumg	The default is blank.
		It defines the Off Code of Anonymous Call
AnonymousReject_OffC	string	Rejection of account1.
ode	sumg	The default is blank.
		It defines the value of BLA Number of
BLANumber	ctrino	account1.
DLANumber	string	The default is blank
BLASubscribePeriod	Integer from	It defines the value of BLA Subscription
BLASUBSCRIBEPeriod	60 to 7200	Period of account1.
		The default is 300.
a	Integer from 0	It defines the value of MWI Subscription
SubscribeMWIExpire	to 84600	Period of accont1.
		The default is 3600.
		It defines the value of Caller ID Header of
		account1.
CIDSource	0 or 1	0 stands for FROM.
		1 stands for PAI.
		The default is 0.



Easy VolP			WWW.YEALINK.COW
	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.
	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.
	RegFailRetryInterval	Integer from 0 to 1800	It defines the value of SIP Registration Retry Timer of accont1. The default is 30.
[account] path = /config/voip/sipAccount1.cfg		s and they share so n. For example, the woip/sipAccount0.	cfg.While for
	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. The default is 1.
[DTMF] path = /config/voip/sipAccount0.cfg	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.
	DTMFPayload	Integer from 96 to 255	It defines the value of DTMF Payload of account1. The default is 101.
[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] path = /config/voip/sipAccount0.cfg	STUNServer	Domain name or IP Address	It defines the value of STUN Server of account1. The default is blank.
	STUNPort	Integer	It defines the Port of STUN Server of account1. The default is 3478.



Easy VoiP			WWW.TEALINK.COM
			It defines the value of UDP Keep-alive
			Message of account1.
	EnableUDPUpdate	0 or 1	0 stands for Disabled.
			1 stands for Enabled.
			The default is 1.
			It defines the value of UDP Keep-alive
	UDPUpdateTime	Integer	Interval of account1.
			The default is 30(seconds).
			It defines the value of Rport of account1.
	rport	0 or 1	0 stands for Disabled.
	- Port		1 stands for Enabled.
			The default is 0.
			It defines the value of SIP Session Timer T1
	default_t1	Float	of account1.
			The default is 0.5.
[ADVANCED]			It defines the value of SIP Session Timer T2
path = /config/voip/sipAccount0.cfg	default_t2	Float	of account1.
paul = /comig/voip/sip/tecounto.erg			The default is 4.
			It defines the value of SIP Session Timer T4
	default_t4	Float	of account1.
			The default is 5.
		common,	It defines the default Ring tone that should
[DineTone]		Ring1.wav,	be played while there is an incoming call to
[RingTone]	RingType	Ring2.wav	this account.
path = /config/voip/sipAccount0.cfg			common stands for use common ring type.
		Ring8.wav	The default is common
			It defines the value of Subscribe Period of
	SubscribePeriod	Integer	account1.
[blf]			The default is 1800(seconds).
path = /config/voip/sipAccount0.cfg			It defines the value of BLFList URI of
	BLFList_URI	String	account1.
			The default is blank.
			It defines the activity of a specific codec.
	enable	0 or 1	0 means to disable the codec.
			1 means to enable the codec.
		One of the	
		£-11	
		following:	
		PCMU	
[audio0]			
[audio0] path = /config/voip/sipAccount0.cfg		PCMU	
	PayloadType	PCMU PCMA	It stands for a specific Codec type.
	PayloadType	PCMU PCMA G723_53	It stands for a specific Codec type.
	PayloadType	PCMU PCMA G723_53 G723_63	It stands for a specific Codec type.
	PayloadType	PCMU PCMA G723_53 G723_63 G729	It stands for a specific Codec type.



			ı	
		G726-32 G726-40		
		Integer from 0	It stands for th	ne priority of a specific enabled
	priority	to 10	codec.	te priority of a specific chaosed
	rtpmap	Integer	It defines the	payload of the codec.
[audio1]	The parameters and the Peri	mitted values are t	he same as[aud	lio0]. For each account there
path = /config/voip/sipAccount0.cfg	are totally 10 usable codecs	and each one has	a section in con	afiguration files and so there are
[audio2]	sections from [audio0] to [audio10] for eac	h account. (audi	io 6 is just a reserved section)
path = /config/voip/sipAccount0.cfg	They have default values as	They have default values as below. If you want to change one of them, please note that there		
[audio3]	should be no same parameter	er values for the sa	ame account:	
path = /config/voip/sipAccount0.cfg	[audio0]	[audio4]		[audio8]
[audio4]	enable = 1	enable = 1		enable = 0
path = /config/voip/sipAccount0.cfg	PayloadType = PCMU	PayloadType	= G729	PayloadType = G726-24
[audio5]	priority = 1	priority = 3		priority = 0
path = /config/voip/sipAccount0.cfg	rtpmap = 0	rtpmap = 18		rtpmap = 102
[audio7]	[audio1]	[audio5]		[audio9]
path = /config/voip/sipAccount0.cfg	enable = 1	enable = 1		enable = 0
[audio8]	PayloadType = PCMA	PayloadType	= G722	PayloadType = G726-32
path = /config/voip/sipAccount0.cfg	priority = 2	priority = 4		priority = 0
[audio9]	rtpmap = 8	rtpmap = 9		rtpmap = 2
path = /config/voip/sipAccount0.cfg	[audio2]	[audio6]		[audio10]
	enable = 0	enable = 0		enable = 0
	PayloadType = G723_53	PayloadType	= iLBC	PayloadType = G726-40
	priority = 0	priority = 0		priority = 0
[audio10]	rtpmap = 4	rtpmap = 102	2	rtpmap = 104
path = /config/voip/sipAccount0.cfg	[audio3]	[audio7]		
paul = /config/voip/sipAccounto.cig	enable = 0	enable = 0		
	PayloadType = G723_63	PayloadType	= G726-16	
	priority = 0	priority = 0		
	rtpmap = 4	rtpmap = 112		
			It defines the	type of Internet Port (WAN).
			0 stands for D	HCP.
	WANType	0,1 or 2	1 stands for P	PPoE.
			2 stands for St	tatic IP Address.
			The default is	0.
			It defines the	IP Address when using static
[WAN]	WANStaticIP	IP Address	WAN settings	
path = /config/Network/Network.cfg			The default is	blank.
		Network	It defines the Subnet Mask when using	
	WANSubnetMask	Mask	static WAN se	ettings.
		1114014	The default is	blank.
			It defines the	Default Gateway when using
	WANDefaultGateway	IP Address	static WAN se	ettings.
			The default is	blank.
[DNS]	PrimaryDNS	IP Address	It defines the	Primary DNS when using



path = /config/Network/Network.cfg			static WAN settings.
patii = /comig/Network/Network.cig			The default is blank.
			It defines the Secondary DNS when using
	SecondaryDNS	IP Address	static WAN settings.
	SecondaryDNS	IF Address	The default is blank.
	DDD EV		It defines the User name when using PPPoE
	PPPoEUser	string	WAN settings.
[PPPoE]			The default is blank.
path = /config/Network/Network.cfg			It defines the Password when using PPPoE
	PPPoEPWD	string	WAN settings.
			The default is blank.
			It defines the type of PC Port (LAN).
	LANTYPE	0 or 1	0 stands for Rooter .
		0 01 1	1 stands for Bridge .
			The default is 1.
			It defines the IP Address when the LAN is
	RouterIP	IP Address	set as Rooter.
			The default is 10.0.0.1
		N. I	It defines the Subnet Mask when the LAN
[LAN]	LANSubnetMask	Network	is set as Rooter.
path = /config/Network/Network.cfg		Mask	The default is 255.255.255.0.
			It means whether to enable DHCP server
			when the LAN is set as Rooter.
	EnableDHCP	0 or 1	0 stands for Disabled.
			1 stands for Enabled.
			The default is 1.
	DHCPStartIP	IP Address	It defines the IP Address range the DHCP
			rooter will allocate.
	DHCPEndIP	IP Address	The default is from 10.0.0.10 to 10.0.0.100.
			It defines the VLAN Active option of LAN
			Port.
	ISVLAN	0 or 1	0 stands for Disabled.
	,		1 stands for Enabled.
			The default is 0.
		Integer from 0	It defines the VID of LAN Port.
	VID	to 4094	The default is 0.
[VLAN]		25 1077	It defines the VLAN USRPRIORITY of
path = /config/Network/Network.cfg	USRPRIORITY	Integer from 0 to 7	LAN Port.
paul – /comig/network/network.crg	COM MOMIT		The default is 0.
			It defines the VLAN Active option of PC
			Port.
	PC_PORT_VLAN_ENA	0.5-1	
	BLE	0 or 1	0 stands for Disabled.
			1 stands for Enabled.
	D 0 - 2		The default is 0.
	PC_PORT_VID	Integer from 0	It defines the VID of PC Port.



PC_PORT_PRIORITY Integer from 0 10 defines the VLAN USRPRIORITY of PC Port. The default is 0. It defines the value of Voice QoS. It defines the value of Voice QoS. It defines the value of Voice QoS. The default is 40 It defines the value of SIP QoS. The default is 40 It defines the value of SIP QoS. The default is 40 It defines the walue of SIP QoS. The default is 40 It defines the MaxRTPPort of Local RTP Port. The default is 11800. It defines the MaxRTPPort of Local RTP Port. The default is 11800. It defines the MinRTPPort of Local RTP Port. The default is 11780. It defines the server where the syslog is supposed to be exported onto. It defines the server where the syslog is supposed to be exported onto. It defines whether to enable or disable Telnet to the phone. Or 1 Ostands for Disabled. I stands for Enabled. The default is 0. It defines whether to enable or disable the 802.1X [cature Ostands for Disabled. I stands for Enabled. The default is 0. It defines the server where the syslog is supposed to be exported onto. It defines whether to enable or disable the 802.1X [cature Ostands for Disabled. I stands for Enabled. I stands for Enabled. The default is 0. It defines the password for the identity The default is 0. It defines the password for the identity The default is 0. It defines the password for the identity The default is blank. It defines the password for the identity The default is blank. It defines the password for the identity The default is 0. It defines the password for the identity The default is 0. It defines the password for the identity The default is 0. It defines the password for the identity The default is 0. It defines the password for the identity The default is 0. It defines the password for the identity The default is 0. It defines the password for the identity The default is 0. It defines the password for the identity The default is 0. It defines the password	Eass VuiP		to 1001	The default is 0
PC_PORT_PRIORITY			to 4094	The default is 0.
PC_PORT_PRIORITY 10 7 The default is 0 PRTPTOS Integer from 0 to 63 The default is 40 RTPTOS Integer from 0 to 63 The default is 40 RTPTOS Integer from 0 to 63 The default is 40 RTPTOS Integer from 0 to 63 The default is 40 RTPTOS Integer from 0 to 653 The default is 40 RTPTORT Integer from 0 to 65535 The default is 40 RTPTORT Integer from 0 to 65535 The default is 40 RTPTORT Integer from 0 to 65535 The default is 40 RTPTORT Integer from 0 to 65535 The default is 11800. RTPTORT Integer from 0 to 65535 The default is 11800. RTPTORT Integer from 0 to 65535 The default is 11800. RTPTORT Integer from 0 to 65535 The default is 11780. R			Integer from 0	It defines the VLAN USRPRIORITY of PC
RIPTOS Integer from 0 Integer from		PC_PORT_PRIORITY		Port.
RTPTOS 10 63 The default is 40			10 7	The default is 0.
SIGNALTOS Integer from 0 to 63 The default is 40		DEDEC G	Integer from 0	It defines the value of Voice QoS .
RTPPORT Integer from 0 to 65535 The default is 40	[QOS]	RIPTOS	to 63	The default is 40
RTPPORT Integer from 0 to 65535 Inte	path = /config/Network/Network.cfg		Integer from 0	It defines the value of SIP QoS .
RTPPORT path = /config/Network/Network.cfg		SIGNALTOS		
RTPPORT path = /config/Network/Network.efg				
RTPPORT path = /config/Network/Network.cfg MinRTPPort Integer from 0 to 65535 Integer		MayPTPPort	Integer from 0	
Path = /config/Network/Network.cfg MinRTPPort Integer from 0 to 65535 It defines the MinRTPPort of Local RTP Port. The default is 11780.	[DTDDODT]	WIAXKITTOIT	to 65535	
[SYSLOG] path = /config/Network/Network.cfg SyslogdIP It defines the server where the syslog is supposed to be exported onto. It defines whether to enable or disable Telnet to the phone. It defines whether to enable or disable Telnet to the phone. Ostands for Disabled. It and for Enabled. The default is 0. It defines whether to enable or disable the 802.1X feature Mode Oor 1 Ostands for Disabled. It defines whether to enable or disable the 802.1X feature Ostands for Disabled. It at defines the identity one of the default is 0. It defines the identity one of the default is 0. It defines the identity one of the identity one of the default is 0. It defines the identity one of the ide				
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SyslogdIP PAddress It defines the server where the syslog is supposed to be exported onto.		MinRTPPort	to 65535	
Telnet path = /config/Network/Network.cfg telnet_enable to the phone. 0 stands for Disabled. 1 stands for Enabled. The default is 0. It defines whether to enable or disable the 802.1X feature 0 stands for Disabled. 1 stands for Enabled. The default is 0. It defines whether to enable or disable the 802.1X feature 0 stands for Disabled. 1 stands for Enabled. The default is 0. The default is 0. It defines the identity The default is blank. It defines the password for the identity The default is blank. It defines whether to enable or disable the VPN The default is blank. It defines the password for the identity The default is blank. It defines the password for Disabled. 1 stands for Disabled. 1 stands for Enabled. The default is 0. It defines the speed of WAN Port. 0 stands for auto negotiate 1 stands for full duplex, 10Mbps 1 stands for full duplex,				The default is 11780.
path = /config/Network/Network.cfg telnet _ path = /config/Network/Network.cfg telnet_enable telnet_enable	[SYSLOG]	SysloadIP	IP Address	It defines the server where the syslog is
[telnet] path = /config/Network/Network.cfg telnet_enable 0 or 1 0 stands for Disabled.	path = /config/Network/Network.cfg	Systoguii	II Address	supposed to be exported onto.
telnet path = /config/Network/Network.cfg telnet_enable 0 or 1 0 stands for Disabled. 1 stands for Enabled. The default is 0. It defines whether to enable or disable the 802.1X feature 0 or 1 1 stands for Disabled. 1 stands for Disabled. 1 stands for Disabled. 1 stands for Enabled. The default is 0. It defines the identity The default is blank. It defines the password for the identity The default is blank. It defines whether to enable or disable the vPN feature 0 or 1 0 stands for Disabled. 1 stands for Enabled. The default is blank. It defines whether to enable or disable the vPN feature 0 stands for Disabled. 1 stands for Enabled. The default is 0. It defines the speed of WAN Port. 0 stands for auto negotiate 1 stands for auto negotiate 1 stands for full duplex, 10Mbps				It defines whether to enable or disable Telnet
path = /config/Network/Network.cfg Mode				to the phone.
path = /config/Network/Network.cfg		telnet_enable	0 or 1	0 stands for Disabled.
Mode	path = /config/Network/Network.cfg			1 stands for Enabled.
Mode				
[802.1X] path = /config/Network/Network.cfg Identity MD5Passwd String It defines the identity The default is blank. MD5Passwd String It defines the password for the identity The default is blank. It defines the password for the identity The default is blank. It defines whether to enable or disable the VPN feature VPN feature VPN feature O or 1 0 stands for Disabled. 1 stands for Enabled. The default is 0. It defines whether to enable or disable the VPN feature VPN feature 1 stands for Enabled. The default is 0. It defines the speed of WAN Port. O stands for auto negotiate 1 stands for full duplex, 10Mbps				
[802.1X] path = /config/Network/Network.cfg Identity String String It defines the identity The default is blank. MD5Passwd String It defines the password for the identity The default is blank. It defines whether to enable or disable the VPN feature VPN feature O or 1 O stands for Disabled. It defines the password for the identity The default is blank. It defines whether to enable or disable the VPN feature O stands for Disabled. I stands for Enabled. The default is 0. It defines the speed of WAN Port. O stands for auto negotiate I stands for full duplex, 10Mbps				
[802.1X] path = /config/Network/Network.cfg Identity String It defines the identity The default is blank. MD5Passwd String It defines the password for the identity The default is blank. It defines the password for the identity The default is blank. It defines whether to enable or disable the VPN feature VPN feature 0 stands for Disabled. 1 stands for Enabled. The default is 0. It defines the speed of WAN Port. 0 stands for auto negotiate 1 stands for full duplex, 10Mbps		M. J.	0 1	
The default is 0.		Wiode	0 or 1	
Identity String It defines the identity The default is blank.	[802.1X]			
Identity String It defines the identity The default is blank.	path = /config/Network/Network.cfg			
The default is blank. MD5Passwd String It defines the password for the identity The default is blank. The default is blank. The default is blank. It defines whether to enable or disable the VPN feature 0 stands for Disabled. 1 stands for Enabled. The default is 0. It defines the speed of WAN Port. 0 stands for auto negotiate 1 stands for full duplex, 10Mbps 1		Identity	String	It defines the identity
MD5Passwd String The default is blank.			22228	The default is blank.
The default is blank. It defines whether to enable or disable the VPN feature O or 1 O or 1 O stands for Disabled. 1 stands for Enabled. The default is 0. It defines the speed of WAN Port. O stands for auto negotiate 1 stands for full duplex, 10Mbps		MD5Daggwd	Stains	It defines the password for the identity
[VPN] path = /config/Network/Network.cfg EnableVPN O or 1 O stands for Disabled. 1 stands for Enabled. The default is 0. It defines the speed of WAN Port. 0 stands for auto negotiate 1 stands for full duplex, 10Mbps		WIDSFasswu	String	The default is blank.
[VPN] path = /config/Network/Network.cfg EnableVPN 0 or 1 0 stands for Disabled. 1 stands for Enabled. The default is 0. It defines the speed of WAN Port. 0 stands for auto negotiate 1 stands for full duplex, 10Mbps				It defines whether to enable or disable the
path = /config/Network/Network.cfg EnableVPN 0 or 1 0 stands for Disabled. 1 stands for Enabled. The default is 0. It defines the speed of WAN Port. 0 stands for auto negotiate 1 stands for full duplex, 10Mbps				VPN feature
1 stands for Enabled. The default is 0. It defines the speed of WAN Port. 0 stands for auto negotiate 1 stands for full duplex, 10Mbps		EnableVPN	0 or 1	0 stands for Disabled.
The default is 0. It defines the speed of WAN Port. 0 stands for auto negotiate 1 stands for full duplex, 10Mbps	path = /config/Network/Network.cfg			1 stands for Enabled.
It defines the speed of WAN Port. 0 stands for auto negotiate 1 stands for full duplex, 10Mbps				
0 stands for auto negotiate 1 stands for full duplex, 10Mbps				
Integer from 0 1 stands for full duplex, 10Mbps				
Integer from 0				
1 M/A N Port Link 1 2 stands for full dupley 100 Mags		33/A 3/D 47 * *	Integer from 0	
to 4		WANPortLink	to 4	2 stands for full duplex, 100Mbps
[Ethernet] 3 stands for half duplex, 10Mbps				
path = /config/Network/Network.cfg 4 stands for half duplex, 100Mbps	path = /config/Network/Network.cfg			
The default is 0.				The default is 0.
Integer from 0 It defines the speed of PC Port.				It defines the speed of PC Port.
PCPortLink 0 stands for auto negotiate			Integer from D	
to 4 1 stands for full duplex, 10Mbps		PCPortLink	Integer from 0	0 stands for auto negotiate



Easy VoiP	I	Г	WWW.TEAETWK.COW
			2 stands for full duplex, 100Mbps
			3 stands for half duplex, 10Mbps
			4 stands for half duplex, 100Mbps
			The default is 0.
			It defines the Language used on the
			Webpage.
	WebLanguage	Language	The default is "English". The other
		Name	Languages are: Turkish, Czech, Russian,
[Lang]			Chinese_S depending on the firmware
path = /config/Setting/Setting.cfg			support.
F			It defines the Language used on the LCD.
		Language	The default is "English". The other
	ActiveWebLanguage	Name	Languages are: Turkish, Czech, Russian,
		- 1111111	Chinese_S depending on the firmware
			support.
		Time Zone	It defines the Time Zone you expect to use
	TimeZone	from -11 to	on the phone.
		+12	The default is +8.
		All the	
	TimeZoneName	available	It defines the Time Zone Name of the
		Time Zone	corresponding Time Zone.
		Name in the	The default is China(Beijing).
		phone.	
	TimeServer1	Domain name	It defines the Primary NTP Server .
	Timeser ver	or IP Address	The default is cn.pool.ntp.org.
	TimeServer2	Domain name	It defines the Secondary NTP Server .
	Timeser ver2	or IP Address	The default is cn.pool.ntp.org.
			It defines the Update Interval when using
	Interval	Integer	NTP Server.
[Time]			The default is 1000(seconds).
path = /config/Setting/Setting.cfg			It defines the activity of Daylight Saving
			Time.
	SummerTime	0, 1 or 2	0 stands for Disabled.
	Summer Time		1 stands for Enabled.
			2 stands for Automatic.
			2 stands for Automatic. The default is 2.
			The default is 2.
	DSTTimeType	0 or 1	The default is 2. It defines the Fixed Type of Daylight Saving
	DSTTimeType	0 or 1	The default is 2. It defines the Fixed Type of Daylight Saving Time.
	DSTTimeType	0 or 1	The default is 2. It defines the Fixed Type of Daylight Saving Time. 0 stands for By Date.
	DSTTimeType	0 or 1	The default is 2. It defines the Fixed Type of Daylight Saving Time. 0 stands for By Date. 1 stands for By Week.
			The default is 2. It defines the Fixed Type of Daylight Saving Time. 0 stands for By Date. 1 stands for By Week. The default is blank.
	DSTTimeType StartTime	0 or 1 SPECIAL	The default is 2. It defines the Fixed Type of Daylight Saving Time. 0 stands for By Date. 1 stands for By Week. The default is blank. It defines the StartTime of Daylight Saving



	1	1	
			which means Month/Day/Hour.
			If the Fixed Type for Daylight Saving time
			is By Week , its value rule is Start Month/ Start
			Day of Week/ Start Day of Week Last in Month/
			Start Hour of Day. For a value of 1/4/2/5 in this
			case, it means the start time is at 5 o'clock on
			Tuesday of the 4 th week in January.
			The default is blank.
			It defines the EndTime of Daylight Saving
	EndTime	SPECIAL	Time.
			Its rule is similar to StartTime.
			The default is blank.
	OffSetTime	Integer from	It defines the Offset of Daylight Saving Time.
	OHSCITATE .	-300 to 300	The default is blank.
			It defines the value of Time Format .
	TimeFormat	0 or 1	0 stands for 12 Hour format.
	Zimoz Viliut	0 01 1	1 stands for 24 Hour format.
			The default is 0.
			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.
		Integer from 0	2009-10-20.
	DateFormat	to 6	3 stands for DD/MM/YYYY. eg. 20/10/2009.
		10 0	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.
	InterDigitTime	Integer	It defines the Inter Digit Time .
	InterDigit Hill	integer	The default is 4(seconds).
	FlashHookTimer	Integer from 0	It defines the Flash Hook Time .
	r iashiituuk i iiiici	to 800	The default is 1(ms)
			It defines the type of Keyboard Lock .
			0 stands for Disabled.
[PhoneSetting]			1 stands for Menu Key.
path = /config/Setting/Setting.cfg	Lock	0,1,2 or 3	2 stands for Function Key.
	LOCK		2 . 1
			3 stands for All Keys.
			4 stands for Lock&Answer.
			4 stands for Lock&Answer.
	Ringtype	Ring name	4 stands for Lock&Answer. The default is 0.



		It defines the LCD Contrast . The parameter	
	Integer from 1	depends on model types. Eg. SIP-T20P	
Contrast	to 10	doesn't support it.	
		The default is 6.	
		It defines the Backlight Brightness . The	
D 17.14	1.2	parameter depends on model types.SIP-T20	
BackLight	1,2 or 3	doesn't support it.	
		The default is 2.	
		It defines the Backlight Time . The	
Dool-link4Time	15,30,60 or	parameter depends on model types.SIP-T20	
BacklightTime	120	doesn't support it.	
		The default is 30.	
		It defines the Product Name which you can	
		see via LCD interface.	
ProductName	String	The default value for Yealink models are	
		SIP-T28, SIP-T26, SIP-T22, SIP-T20	
		respectively.	
	Internation O	It defines the ring volume.	
RingVol	Integer from 0	0 is the minimum value meaning silence.	
	to 15	15 is the maximum value.	
Harate a Cal Val	Integer from 0	It defines the receiving volume of Speaker.	
HandFreeSpkVol	to 15	The default is 8.	
HandFreeMicVol	Integer from 0	It defines the sending volume of Speaker.	
Tranur recivité voi	to 15	The default is 8.	
HandSetSpkVol	Integer from 0	It defines the receiving volume of Handset.	
Tranusetspk vor	to 15	The default is 8.	
HandSetMicVol	Integer from 0	It defines the sending volume of Handset.	
Tranuscuviic voi	to 15	The default is 8.	
HeadSetSpkVol	Integer from 0	It defines the receiving volume of Headset.	
Treat/Set/Spk voi	to 15	The default is 8.	
HeadSetMicVol	Integer from 0	It defines the sending volume of Headset.	
Treatment voi	to 15	The default is 8.	
		It defines the default Ring tone that has been	
RingForTranFailed	Ring name	used while Transfer failed, for	
		example,Ring1.wav,Ring2.wav and alike.	
		It defines whether to enable the logon wizard	
		while power on	
LogonWizard	0 or 1	0 stands for Disabled.	
		1 stands for Enabled.	
		The default is 0.	
		It defines whether to auto dial out feature in	
		Pre-Dial interface	
PreDialAutoDial	0 or 1	0 stands for Disabled.	
		1 stands for Enabled.	
		The default is 0.	



Easy VoiP		1	
	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.
[SignalToneVol]	Handset	Integer from 0 to 15	It defines the volume of dial tone on Handset. The default is 8.
path = /config/Setting/Setting.cfg	Headset	Integer from 0 to 15	It defines the volume of dial tone on headset. The default is 8.
	Handfree	Integer from 0 to 15	It defines the volume of dial tone on Speaker. The default is 8.
	Text	String	It defines the first Internal Ringer Text .
[AlertInfo0]			The default is blank. It defines the ringer for the first Internal
path = /config/Setting/Setting.cfg	Ringer	Integer	Ringer Text. The ringer is defined by its order number.
[AlertInfo1] path = /config/Setting/Setting.cfg [AlertInfo2] path = /config/Setting/Setting.cfg [AlertInfo3] path = /config/Setting/Setting.cfg [AlertInfo4] path = /config/Setting/Setting.cfg [AlertInfo5] path = /config/Setting/Setting.cfg	They have same path and parameters as [AlertInfo0] and share the same Permitted Value and default values.		tInfo0] and share the same Permitted Values
[AlertInfo6] path = /config/Setting/Setting.cfg [AlertInfo7] path = /config/Setting/Setting.cfg [AlertInfo8] path = /config/Setting/Setting.cfg [AlertInfo9] path = /config/Setting/Setting.cfg			
[AlertInfo6] path = /config/Setting/Setting.cfg [AlertInfo7] path = /config/Setting/Setting.cfg [AlertInfo8] path = /config/Setting/Setting.cfg [AlertInfo9] path = /config/Setting/Setting.cfg [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.
[AlertInfo6] path = /config/Setting/Setting.cfg [AlertInfo7] path = /config/Setting/Setting.cfg [AlertInfo8] path = /config/Setting/Setting.cfg [AlertInfo9] path = /config/Setting/Setting.cfg	Enable	0 or 1 Phone number	enabled. 0 stands for Disabled. 1 stands for Enabled.



Easy VolP		1	
			Forward.
			The default is blank.
			It defines the Off Code for Always
	Off_Code	String	Forward.
			The default is blank.
			It defines whether the Busy Forward is
			enabled.
	Enable	0 or 1	0 stands for Disabled.
			1 stands for Enabled.
			The default is 0.
[BusyFWD]			It defines the Target number that the phone
path = /config/Features/Forward.cfg	Target	Phone number	will Busy Forward to.
			The default is blank.
	0.01	g. :	It defines the On Code for Busy Forward .
	On_Code	String	The default is blank.
			It defines the Off Code for Busy Forward .
	Off_Code	String	The default is blank.
			It defines whether the No Answer Forward
			is enabled.
	Enable	0 or 1	0 stands for Disabled.
		0 or 1 0 stands for Disabled. 1 stands for Enabled.	
	Target	Phone number	
	Turget		stands for Disabled.
[TimeoutFWD]			
path = /config/Features/Forward.cfg	On_Code	String	Forward.
	On_Code	Sumg	The default is blank.
	066 0 1	g. ·	It defines the Off Code for No Answer
	Off_Code	String	Forward.
			The default is blank.
			It defines the time after which the call will be
	Timeout	Integer	forwarded when using No Answer Forward .
			The default is 10(seconds).
			It defines the activity of Call Waiting .
	Call_Waiting	0 or 1	0 stands for Disabled.
			1 stands for Enabled.
			The default is 1.
[Features]			It defines the activity of Call Waiting Tone .
path = /config/Features/Phone.cfg	Call_WaitingTone	0 or 1	0 stands for Disabled.
pati – /comig/i catures/i none.cig	Can_watenigione	0 01 1	1 stands for Enabled.
			The default is 1.
			It defines the activity of CallCompletion .
	CallCompletion	0 or 1	0 stands for Disabled.
			1 stands for Enabled.



		The default is 0.		
Hotlinenumber	Phone number	It defines the Hotline Number .		
		The default is blank.		
		It defines BusyToneDelay , the Delay of		
BusyToneDelay	0,3 or 5	Busy Tone which is played when the other		
Busy Tone Delay	0,5 01 5	party hangs up.		
		The default is 0(seconds).		
		It defines the value of Use Logo , meaning		
		whether to enable Logo on LCD.		
		It only affects T12/T22/T26.		
LCD_Logo	0,1or 2	0 stands for Disabled.		
		1 stands for Enabled.		
		2 stands for Custom logo.		
		The default is 0.		
		It defines the value of Return code when		
		DND.		
DND C 1	404, 480 or	404 means 404 (Not Found)		
DND_Code	486	480 means 480 (Temporarily not available)		
		486 means 486 (Busy here)		
		The default is 480.		
		It defines the value of Return code when		
		refuse.		
Defense Code	404, 480 or	404 means 404 (Not Found)		
Refuse_Code	486	480 means 480 (Temporarily not available)		
		486 means 486 (Busy here)		
		The default is 486.		
DVD O C I	G. :	It defines DND On Code.		
DND_On_Code	String	The default is blank.		
DND Off Code	State -	It defines DND Off Code .		
DND_Off_Code	String	The default is blank.		
		It defines whether to enable dialing tone.		
ButtonSoundOn	0 1	0 stands for Disabled.		
DuttonSoundOn	0 or 1	1 stands for Enabled.		
		The default is 1.		
		It defines whether to allow an intercom call.		
A Harritana ann	0 1	0 stands for Disabled.		
AllowIntercom	0 or 1	1 stands for Enabled.		
		The default is 1.		
		It defines whether to mute the intercom call.		
T-4	0 1	0 stands for No.		
IntercomMute	0 or 1	1 stands for Yes.		
		The default is 1.		
		It defines whether to play the intercom		
IntercomTone	0 or 1	warning tone.		
		0 stands for No.		
		1		



Easy VoiP			VV VV . Y EALTIVE.COM
			1 stands for YES.
			The default is 1.
			It defines whether to enable intercom barge.
	IntercomBarge	0 or 1	0 stands for Disabled.
			1 stands for Enabled.
			The default is 1.
	Hotlinedelay	Integer from 0	It defines the hotline delay time.
	Hotimedelay	to 180	The default is 4.
			It defines whether to enable OnHook to
[Trong]			complete an attend transfer.
[Trans]	IsOnHookTrans	0 or 1	0 stands for Disabled.
path = /config/Features/Phone.cfg			1 stands for Enabled.
			The default is 1.
			It defines whether to enable/disable Auto
			redial.
	EnableRedial	0 or 1	0 stands for Disabled.
			1 stands for Enabled.
[AutoRedial]			The default is 0.
path = /config/Features/Phone.cfg		Integer from 1	It defines the value of Auto redial interval .
	RedialInterval	to 300	The default is 10 (seconds).
	D 11 1771	Integer from 1	It defines the value of Auto redial times .
	RedialTimes	to 300	The default is 10.
			It defines the Key As Send .
. D. 10 13		0,1 or 2	0 stands for Disabled.
[PoundSend]	Enable		1 stands for # key.
path = /config/Features/Phone.cfg			2 stands for * key.
			The default is 1.
		Phone	It defines the Emergency numbers separated
[Emergency]		numbers	by commas. For example, it can be specified
path = /config/Features/Phone.cfg	Num	separated by	as:911,999,110,120
		Integer from 0 to 180 ans 0 or 1 Integer from 1 to 300 Integer from 1 to 300 O,1 or 2 Phone numbers	The default is blank.
			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).
[memory1]		Integer from 0	Normally,0 stands for Auto,1 stands for
	Line	to max line	Line1 and so on.
path = /config/vpPhone/vpPhone.ini		number	However, it's a little different when
padi – reoling, vpi none, vpi none, iii			configured as bla or blf in which case 0
			stands for Line1, 1 stands for Line2 and so
			on.
			The default is 0.
			Seen from the web, it reflects the value under
	Value	It depends	
			Extension title.



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			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.
	PickupValue	string	It is used only for BLF. It defines the pickup
	1 ickup value	string	number that your server allocates.
			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
	DKtype	Integer	14:Intercom 15:Line(for line key only)
			16:BLF 17:URL
			18:Group Listening 19:Public Hold
			20:Private Hold 21:Shared Line
			22:XML PhoneBook 23:Group Pickup
			24: Paging 25:Record
			35:URLRecord 27:XMLbrowser
			34:Hot Desking
			The default is 0.
[memory2]			
path = /config/vpPhone/vpPhone.ini			
[memory3]			
path = /config/vpPhone/vpPhone.ini			
[memory4]			
path = /config/vpPhone/vpPhone.ini			
[memory5]			
path = /config/vpPhone/vpPhone.ini			
[memory6]	From [memory1] to [mer	mory2] are used	for 10 DSS Keys on the phone T28/T26. For a
path = /config/vpPhone/vpPhone.ini	phone having no DSS keys	like T20/T22, it	's no use configuring the parameters.
[memory7]			
path = /config/vpPhone/vpPhone.ini			
[memory8]			
path = /config/vpPhone/vpPhone.ini			
[memory9]			
path = /config/vpPhone/vpPhone.ini			
[memory10]			
path = /config/vpPhone/vpPhone.ini			
[memory11]	From [memory11] to [me	mory16] are us	ed for Line keys. The available sections depend
path = /config/vpPhone/vpPhone.ini	on the numbers of Line key	s. For T20 whic	h have only 2 line keys, only the first 2 sections
[memory12]	are available. For T22/T26		
·	I		



Easy VoiP			
path = /config/vpPhone/vpPhone.ini	In addition, the settings for a Line key is not completely the same as a DSS key. For example, a line key cannot be configured as blf.		
[memory13]			
path = /config/vpPhone/vpPhone.ini			
[memory14]			
path = /config/vpPhone/vpPhone.ini			
[memory15]			
path = /config/vpPhone/vpPhone.ini			
[memory16]			
path = /config/vpPhone/vpPhone.ini			
			It defines the activity status of VAD .
	VAD	0 or 1	0 stands for Disabled.
	VAD	0 01 1	1 stands for Enabled.
			The default is 0
			It defines the activity status of CNG .
	CNC	0 1	0 stands for Disabled.
	CNG	0 or 1	1 stands for Enabled.
			The default is 1.
[Profile]			It defines the activity status of Echo
path = /config/vpm.cfg			canceller.
	ЕСНО	0 or 1	0 stands for Disabled.
			1 stands for Enabled.
			The default is 1.
			It is an invisible setting which can only be
			configured via auto provision.
	SIDE_TONE	-3 or -32768	-32768 stands for Disable Side tone.
			-3 stands for Enable Side tone.
			The default is -3.
			It defines the Type of Jitter Buffer.
			0 stands for Fixed.
	Adaptive	0 or 1	1 stands for Adaptive.
			The default is 1.
[Jitter]			It defines the value of Min Delay .
path = /config/vpm.cfg	Min	Integer	The default is 0.
			It defines the value of Max Delay.
	Max	Integer	The default is 300.
			It defines the value of Normal Delay .
	Nominal	Integer	The default is 120.
			It defines Voice Mail number of account1.
	VoiceNumber0	String	The default is blank.
			It defines Voice Mail number of account2.
[Message]	VoiceNumber1	String	The default is blank.
path = /config/Features/Message.cfg			It defines Voice Mail number of account3 if
The state of the s	VoiceNumber2	String	the account exists.
	, order turning m	Sumg	The default is blank.
	VoiceNumber3	String	It defines Voice Mail number of account4 if
	voiceMulliber3	Sumg	it defines voice ivian number of account4 ff



Easy VoiP		<u></u>	
			the account exists.
			The default is blank.
	X7.1 X7 X 4	g. t	It defines Voice Mail number of account5 if
	VoiceNumber4	String	the account exists.
			The default is blank.
		a .	It defines Voice Mail number of account6 if
	VoiceNumber5	String	the account exists.
			The default is blank.
			It defines the country name that relates to its
			own tone rules.
[Country]	-		The valid values can be seen from the
path = /config/voip/tone.ini	Country	string	webpage which are like China, France and so
			on.
			It can be specified as Custom in which case
			the tone rules can be customized.
			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
	dial	string	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.
			It defines the tone of Ring Back .
	ring	string	The format is the same as dial.
			The default is blank.
			It defines the tone of Busy .
	busy	string	The format is the same as dial.
[Tone Param]			The default is blank.
path = /config/voip/tone.ini			It defines the tone of Congestion .
	congestion	string	The format is the same as dial.
			The default is blank.
			It defines the tone of Call Waiting .
	callwaiting	string	The format is the same as dial.
			The default is blank.
			It defines the tone of Dial Recall .
	dialrecall	string	The format is the same as dial.
			The default is blank.
			It defines the tone of Record .
	record	string	The format is the same as dial.
			The default is blank.
			It defines the tone of Info .
	info	string	The format is the same as dial.
			The default is blank.



			- 10 1 22	
			It defines the tone of Stutter .	
	stutter	string	The format is the same as dial.	
			The default is blank.	
			It defines the tone of Message .	
	message	string	The format is the same as dial.	
			The default is blank.	
			It defines the tone of Auto Answer .	
	autoanswer	string	The format is the same as dial.	
			The default is blank.	
			It defines whether to enable the customized	
			ringtone of Dial when in Custom mode.	
	dial	0 or 1	0 stands for Disabled.	
			1 stands for Enabled.	
			The default is 1.	
			It defines whether to enable the customized	
			ringtone of Ring Back when in Custom	
		0 1	mode.	
	ring	0 or 1	0 stands for Disabled.	
			1 stands for Enabled.	
			The default is 1.	
			It defines whether to enable the customized	
			ringtone of Busy when in Custom mode.	
	busy	0 or 1	0 stands for Disabled.	
			1 stands for Enabled.	
			The default is 1.	
			It defines whether to enable the customized	
[Default]			ringtone of Congestion when in Custom	
path = /config/voip/tone.ini			mode.	
	congestion	0 or 1	0 stands for Disabled.	
			1 stands for Enabled.	
			The default is 1.	
			It defines whether to enable the customized	
			ringtone of Call Waiting when in Custom	
			mode.	
	callwaiting	0 or 1	0 stands for Disabled.	
			1 stands for Enabled.	
			The default is 1.	
			It defines whether to enable the customized	
			ringtone of Dial Recall when in Custom	
			mode.	
	dialrecall	0 or 1	0 stands for Disabled.	
			1 stands for Enabled.	
			The default is 1.	
			It defines whether to enable the customized	
	record	0 or 1	ringtone of Record when in Custom mode.	
		<u> </u>	inigione of Record when in Custom mode.	



Easy VoiP			
			0 stands for Disabled.
			1 stands for Enabled.
			The default is 1.
			It defines whether to enable the customized
			ringtone of Info when in Custom mode.
	info	0 or 1	0 stands for Disabled.
			1 stands for Enabled.
			The default is 1.
			It defines whether to enable the customized
			ringtone of Stutter when in Custom mode.
	stutter	0 or 1	0 stands for Disabled.
			1 stands for Enabled.
			The default is 1.
			It defines whether to enable the customized
			ringtone of Message when in Custom mode.
	message	0 or 1	0 stands for Disabled.
			1 stands for Enabled.
			The default is 1.
			It defines whether to enable the customized
			ringtone of Auto Answer when in Custom
			mode.
	autoanswer	It defines whether to enable the custor ringtone of Auto Answer when in Cusmode. 0 or 1 0 stands for Disabled. 1 stands for Enabled. The default is 1.	0 stands for Disabled.
			1 stands for Enabled.
			The default is 1.
			It defines one piece of dialnow rule. The
			numeral 1 doesn't relate to the order this rule
	1	string	will appear as.
			The default is blank.
			It defines one piece of dialnow rule. The
			numeral 2 doesn't relate to the order this rule
	2	string	will appear as.
			The default is blank.
			It defines one piece of dialnow rule. The
			numeral 3 doesn't relate to the order this rule
[DialNow]	3	string	will appear as.
path = /tmp/dialnow.xml			The default is blank.
			It defines one piece of dialnow rule. The
			numeral 4 doesn't relate to the order this rule
	4	string	will appear as.
			The default is blank.
	from 1 to 20	string	
	3 2	S	It defines one piece of dialnow rule. The
			numeral 20 doesn't relate to the order this
	20	string	rule will appear as.
			The default is blank.
		<u> </u>	The default is offalik.



	Code	Integer	It defines the Code of Area Code. The default is blank.	
[AreaCode] path = /config/DialRule/areacode.cfg	minlen	Integer	It defines the Min Length of Area Code. The default is blank.	
	maxlen	Integer	It defines the Max Length of Area Code. The default is blank.	
	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			
path = /config/DialRule/BlockOut.cfg	3			
	4			
	5	They share the same Permitted Value and rules as 1.		
	6			
	7			
	8			
	9			
	10			
[RemotePhoneBook0]	URL	HTTP 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.x ml The default is blank.	
path = /config/Setting/Setting.cfg	Name	String	It defines the Phone book name of the first Remote phonebook. For more details, please refer to the instruction to Remote phonebook.	
[RemotePhoneBook1]			instruction to Remote phonebook.	
path = /config/Setting/Setting.cfg	_			
[RemotePhoneBook2]				
path = /config/Setting/Setting.cfg	They share the same parame	eters and Permitte	d Values as [RemotePhoneBook0].	
[RemotePhoneBook3]				
path = /config/Setting/Setting.cfg	-			
[RemotePhoneBook4]				
path = /config/Setting/Setting.cfg				
[AdminPassword]	password	String	It defines the new password for admin .	
path = /config/Setting/autop.cfg [UserPassword] path = /config/Setting/autop.cfg	password	String	It defines the new password for user .	



[UserName]	admin	String	It defines the name of admin.
	aumin	Jung	The default is admin
path = /config/Advanced/Advanced.cfg	user	String	It defines the name of user.
	4501	Sumg	The default is user
			It defines the WebServer Type.
			0 stands for Disabled.
[Webserver Type]	WebType	0,1,2 or 3	1 stands for HTTP & HTTPS.
path = /config/Advanced/Advanced.cfg			2 stands for HTTP Only.
			3 stands for HTTPS Only.
			The default is 1.
	WebType	0,1,2 or 3	It defines the WebServer Type.
			0 stands for Disabled.
[Webserver Type]			1 stands for HTTP & HTTPS.
path = /config/Advanced/Advanced.cfg			2 stands for HTTP Only.
			3 stands for HTTPS Only.
			The default is 1.
	ReplaceAll	0 or 1	It defines whether to need full matching the
			prefix.
			0 stands no need. For example use 123
			replace 0592, when I dial 05925702000, it
			will be replaced by 1235702000.
[ReplaceRule]			1 stands for replace all. For example use 123
path = /config/Setting/AdvSetting.cfg			replace 0592, when I dial 05925702000, it
			will not be replaced by 1235702000, only
			when I dial 0592 it will be replaced by 123
			to dial out.
			The default is 1.
	DND	0 or 1	It defines whether to have the authority to
			use DND feature.
			0 stands for yes.
[Forbidden] path = /config/Setting/AdvSetting.cfg			1 stands for no.
			The default is 0.
	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.
[FactoryConfig] path = /config/Setting/AdvSetting.cfg	CustomEnabled	0 or 1	It defines whether to enable custom factory
			setting.
			0 stands for yes.
			1 stands for no.
			The default is 0.
[programablekey1] path = /config/ vpPhone/vpPhone.ini	DKtype	0,2,5,6,7,8,9,2	It's a number reflects the key function.
		2,28,29,30,31,	0:N/A
		32,33	2:Forward
		32,33	2.1 Of Waru



Line	Eass Vuir	ı		· · · · · · · · · · · · · · · · · · ·	
Line				6:Redial 7:Call Return 8:SMS 9:Call Pickup 22:XML Phone Book	
Line				29:Directory 30:Menu 31:Switch Account 32:New SMS	
Value It depends 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.		Line	to max line	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.	
XMLPhoneBook XMLPhoneBook XML PhoneBook Name N		Value	It depends	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.	
path = /config/vpPhone/vpPhone.ini programablekey2=SoftKey2 [programablekey3] programablekey3=SoftKey3 path = /config/vpPhone/vpPhone.ini programablekey4=SoftKey4 [programablekey4] programablekey5=Up path = /config/vpPhone/vpPhone.ini programablekey6=Down [programablekey5] programablekey7=Left path = /config/vpPhone/vpPhone.ini programablekey8=Right [programablekey6] programablekey9=OK		XMLPhoneBook	XML PhoneBook	phonebook), you can configure an available	
path = /config/vpPhone/vpPhone.iniprogramablekey4=SoftKey4[programablekey4]programablekey5=Uppath = /config/vpPhone/vpPhone.iniprogramablekey6=Down[programablekey5]programablekey7=Leftpath = /config/vpPhone/vpPhone.iniprogramablekey8=Right[programablekey6]programablekey9=OK	path = /config/vpPhone/vpPhone.ini				
[programablekey4] programablekey5=Up path = /config/vpPhone/vpPhone.ini programablekey6=Down [programablekey5] programablekey7=Left path = /config/vpPhone/vpPhone.ini programablekey8=Right [programablekey6] programablekey9=OK					
path = /config/vpPhone/vpPhone.iniprogramablekey6=Down[programablekey5]programablekey7=Leftpath = /config/vpPhone/vpPhone.iniprogramablekey8=Right[programablekey6]programablekey9=OK					
[programablekey5]programablekey7=Leftpath = /config/vpPhone/vpPhone.iniprogramablekey8=Right[programablekey6]programablekey9=OK					
[programablekey6] programablekey9=OK		-			
	path = /config/vpPhone/vpPhone.ini				
path = /config/vpPhone/vpPhone.ini programablekey10=Cancel					
	path = /config/vpPhone/vpPhone.ini	programablekey10=Cancel			



[programablekey7]	programablekey11=CONF
path = /config/vpPhone/vpPhone.ini	programablekey12=HOLD
[programablekey8]	programablekey13=MUTE
path = /config/vpPhone/vpPhone.ini	programablekey14=TRAN
[programablekey9]	
path = /config/vpPhone/vpPhone.ini	
[programablekey10]	
path = /config/vpPhone/vpPhone.ini	
[programablekey11]	
path = /config/vpPhone/vpPhone.ini	
[programablekey12]	
path = /config/vpPhone/vpPhone.ini	
[programablekey13]	
path = /config/vpPhone/vpPhone.ini	
[programablekey14]	
path = /config/vpPhone/vpPhone.ini	

Note: in V50 firmware or higher, you are able to use **%NULL%** to delete a value. For example:

[AdminPassword]

path = /config/Setting/autop.cfg

password = %NULL%

It will configure the password of Admin user as NULL.

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