



Auto Provision Manual for VIP-255PTv3

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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 → DHCP custom option → DHCP option 66 → DHCP option 43 → Phone Flash

The following are the details of each process:

2.1.1 Pushed by PnP servers



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Status Account Network Phone Contacts Upgrade Security

Basic | Advanced

Custom Option(128 ~ 254) 150 ?

Custom Option Type String ?

URL http://192.168.0.231/update/ ?

Account Vin ?

Password ●●● ?

Common AES Key 1234567890123456 ?

MAC-Oriented AES Key 1234567890123456 ?

PNP Config Disabled ?

Check New Config Disabled ?

Click this button to auto provision immediately Auto provision ?

Export / Import Config Browse... ?

Import Export

Export System Log Local ?

Export

PCAP Trace Start Stop Export ?

Confirm Cancel

NOTE

Custom Option
Specify the DHCP Option that you want to use for provisioning. Refer to Auto Provision Manual for details about provisioning.

AES Key
It is provided by ISP.

Click this button to auto provision immediately
Click this button to auto provision immediately.

Export/Import Config
Export the configuration files to backup the settings, and could import all the settings after reset.

System Log
There are two methods to export the system log, Local or Server.

Note: Plug in Play (PnP) provides a proprietary method to enable "Auto Provisioning". When **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 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 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.

2.1.2 Detect DHCP custom option.

It must be configured to the phone by web management:



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URL http://192.168.0.231/update/ ?

Account Vin ?

Password ... ?

Common AES Key 1234567890123456 ?

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PNP Config Disabled ?

Check New Config Disabled ?

Click this button to auto provision immediately Auto provision ?

Export / Import Config Browse... ?

Import Export

Export System Log Local ?

Export

PCAP Trace Start Stop Export ?

Confirm Cancel

NOTE

Custom Option
Specify the DHCP Option that you want to use for provisioning. Refer to Auto Provision Manual for details about provisioning.

AES Key
It is provided by ISP.

Click this button to auto provision immediately
Click this button to auto provision immediately.

Export/Import Config
Export the configuration files to backup the settings, and could import all the settings after reset.

System Log
There are two methods to export the system log, Local or Server.

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.

Planet IP Phone 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.

Planet IP Phone 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.



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2.1.5 Detect the phone flash.

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

The screenshot shows the PLANET web management interface. At the top, there are tabs for Status, Account, Network, Phone, Contacts, Upgrade, and Security. Below these is a sub-tab bar with Basic and Advanced. The main content area is for phone configuration. A red box highlights the following fields: URL (http://192.168.0.231/update/), Account (Vin), Password (masked with three black dots), and Check New Config (Disabled). Other visible fields include Custom Option(128 ~ 254) set to 150, Custom Option Type set to String, Common AES Key and MAC-Oriented AES Key both set to 1234567890123456, PNP Config set to Disabled, and Click this button to auto provision immediately set to Auto provision. There are also buttons for Import, Export, and Export System Log. A NOTE section on the right explains the Custom Option, AES Key, and Export/Import Config options.

Custom Option(128 ~ 254)	150	?
Custom Option Type	String	?
URL	http://192.168.0.231/update/	?
Account	Vin	?
Password	...	?
Common AES Key	1234567890123456	?
MAC-Oriented AES Key	1234567890123456	?
PNP Config	Disabled	?
Check New Config	Disabled	?
Click this button to auto provision immediately	Auto provision	?
Export / Import Config	Browse..	?
Export System Log	Local	?
PCAP Trace	Start Stop Export	?

Confirm Cancel

NOTE
Custom Option
Specify the DHCP Option that you want to use for provisioning. Refer to Auto Provision Manual for details about provisioning.
AES Key
It is provided by ISP.
Click this button to auto provision immediately
Click this button to auto provision immediately.
Export/Import Config
Export the configuration files to backup the settings, and could import all the settings after reset.
System Log
There are two methods to export the system log, Local or Server.

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 black points). 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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Basic | Advanced

Custom Option(128 ~ 254) 150 ?

Custom Option Type String ?

URL http://192.168.0.231/update/ ?

Account Vin ?

Password ... ?

Common AES Key 1234567890123456 ?

MAC-Oriented AES Key 1234567890123456 ?

PNP Config Disabled ?

Check New Config Disabled ?

Click this button to auto provision immediately Auto provision ?

Export / Import Config Browse... ?

Import Export

Export System Log Local ?

Export

PCAP Trace Start Stop Export ?

Confirm Cancel

NOTE

Custom Option
Specify the DHCP Option that you want to use for provisioning. Refer to Auto Provision Manual for details about provisioning.

AES Key
It is provided by ISP.

Click this button to auto provision immediately
Click this button to auto provision immediately.

Export/Import Config
Export the configuration files to backup the settings, and could import all the settings after reset.

System Log
There are two methods to export the system log, Local or Server.

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. We call them Common CFG file and Phone-specific CFG file. The Common CFG file will be effectual for all the phones of the right model. However, a Phone-specific CFG file will only be effectual for one specific phone which can be tell by its MAC address. A common CFG file has a fixed name for each model while a Phone-specific CFG file is named after a MAC address of a specific phone. The names of the Common CFG file for each model are:

VIP-255PTv3: y0000000000008.cfg

There are 11 zeros between the letter y and the last number. The last number is decided by the hardware version of the relevant model, for it is the first number of the hardware version of



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the model. For instance, for a VIP-255PTv3 whose MAC address is 00304f113af8, the 2 configuration files for it will be: y0000000000008.cfg and 00304f113af8.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 VIP-255PTv3 and you want to update firmware for all phones, you just need to prepare only one y0000000000008.cfg in 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 specified keys will be needed. The **Common AES Key** is for decrypting the Common CFG file. The **MAC-Oriented AES Key** is for decrypting the Phone-specific CFG file. The keys must be 16 bytes and the supported characters are: 0 ~ 9, A ~ Z, a ~ z and the following special characters: # \$ % * + , - . : = ? @ [] ^ _ { } ~



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Custom Option(128 ~ 254) 150 ?

Custom Option Type String ?

URL http://192.168.0.231/update/ ?

Account Vin ?

Password ●●● ?

Common AES Key 1234567890123456 ?

MAC-Oriented AES Key 1234567890123456 ?

PNP Config Disabled ?

Check New Config Disabled ?

Click this button to auto provision immediately Auto provision ?

Export / Import Config Browse... ?

Import Export

Export System Log Local ?

Export

PCAP Trace Start Stop Export ?

Confirm Cancel

NOTE

Custom Option
Specify the DHCP Option that you want to use for provisioning. Refer to Auto Provision Manual for details about provisioning.

AES Key
It is provided by ISP.

Click this button to auto provision immediately
Click this button to auto provision immediately.

Export/Import Config
Export the configuration files to backup the settings, and could import all the settings after reset.

System Log
There are two methods to export the system log, Local or Server.

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.


```

y00000000000008.cfg
0 10 20 30 40 50 60 70 80
1
2 [ autop_mode ]
3 path = /config/Setting/autop.cfg
4 #disable:0; power on:1; repeately:4; weekly:5
5 #schedule_min is the interval of time to update, the minimum value is 1
6 #schedule_time and schedule_time_end are the time for weekly update
7 #schedule_dayofweek is the setting for weekly choosen, Sunday:0; Monday:1; Tuesday:2
8 mode =
9 schedule_min =
10 schedule_time =
11 schedule_time_end =
12 schedule_dayofweek =
13
14 [ cutom option ]
15 path = /config/Setting/autop.cfg
16 cutom_option_code0 =
17 cutom_option_type0 = 1
18
19 [ autoprovision ]
20 path = /config/Setting/autop.cfg
21 #server_address is just the URL field on the Web page.
22 server_address =
23 user =
24 password =
25
26 [ AES_KEY ]
27 path = /config/Setting/autop.cfg
28 aes_key_16 =
29 aes_key_16_mac =
30

```

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 a 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:

1. The section defining request for ringtone update in the CFG files:

```
#####  
#####
```

```
[ 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. 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-Dutch.txt>

And note that it does not enable you to add new languages. It just enables you to modify the existed languages.

3. The section defining request for contacts update in the CFG files:

```
#####  
#####
```

```
[ ContactList ]
```

```
path = /tmp/download.cfg
```



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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.

4. 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

http_url = http://192.168.0.231/VIP255PT/

firmware_name = 0.0.0.143.rom

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/VIP255PT/> to download the 0.0.0.143.rom and then update.



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Appendix A

1. Description of configuration parameters in CFG file

Section Header and Path	Parameters	Permitted Values	Descriptions
[autop_mode] path = /config/Setting/autop.cfg	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.
	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	Time as	It is available when mode is 5



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		19:45	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.
	schedule_time_end	Time as 19:45	
[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] path = /config/Setting/autop.cfg	cutom_option_code0	Integer from 129 to 254	It defines the Custom Option . No default value.
	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.
[AES_KEY] path = /config/Setting/autop.cfg	aes_key_16	16-byte String	It defines the Specified 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: # \$ % * + , - . : = ? @ [] ^ _ { } ~
	aes_key_16_mac	16-byte string	It defines the Per-phone AES Key which is used for decrypting the phone-specific CFG file. The valid characters are the same as aes_key_16 .
[autoprovision] path = /config/Setting/autop.cfg	server_address	HTTP/HTTPS/FTP/TFTP	It defines the URL which is supposed to be the auto provisioning server.



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		Address	
	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.
[account] path = /config/voip/sipAccount0.cfg	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. No default value.
	DisplayName	String	It defines the Display Name of account1. No default value.
	AuthName	String	It defines the Register Name of account1. No default value.
	UserName	String	It defines the User Name of account1. No default value.
	password	String	It defines the Password of registration for account1. No default value.
	SIPServerHost	Domain name or IP Address	It defines the SIP Server of account1. No default value.
	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. No default value.
	OutboundPort	Integer	It defines the Port of the Outbound Proxy Server of account1. The default is 5060.
	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.
	BakOutboundHost	Domain name or IP Address	It defines the Backup Outbound Proxy Server of account1. No default value.
	BakOutboundPort	Integer	It defines the Port of Backup Outbound Proxy Server of account1. The default is 5060.
	proxy-require	String	It defines the value of Proxy Require of account1. No default value.
	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.
	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.
	Expire	Integer	It defines the value of Login Expire of account1. The default is 3600.
	SIPListenPort	Integer	It defines the value of Local SIP Port of account1. The default is 5060.
	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.
	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.
	SubscribeRegister	0 or 1	It defines the value of Subscribe Register of account1. 0 stands for Disabled. 1 stands for Enabled. The default is 0.

	SubscribeMWI	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.
	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.
	EnableSession Timer	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.
	SessionExpires	Integer from 1 to 999	It defines the value of Session Timer of account1. No default value.
	SessionRefresher	0 or 1	It defines the value of Refresher of account1. 0 stands for Uac. 1 stands for Uas. The default is 0.
	EnableUserEqualPhone	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.
	srtp_encryption	0 or 1	It defines the value of Voice Encryption (SRTP) of account1.

0 stands for off.

1 stands for on.



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			The default is 0.
	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 0.
	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.
	dialoginfo_call pickup	0 or 1	It defines the value of Dialog-Info Call Pickup of account1. 0 stands for Disabled. 1 stands for Enabled.
<p>[account] path = /config/voip/sipAccount1.cfg</p> <p>For different models, there're different numbers of Account. For each Account, 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 path = /config/voip/sipAccount0.cfg. While for Account2 is path = /config/voip/sipAccount1.cfg, and other sections alike.</p>			
<p>[DTMF] path = /config/voip/sipAccount0.cfg</p>	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.
	InfoType	0,1,2 or 3	It defines the value of How to INFO DTMF of account1. 0 stands for Disabled.



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			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] path = /config/voip/sipAccount0.cfg	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.
	STUNServer	Domain name or IP Address	It defines the value of STUN Server of account1. No default value.
	STUNPort	Integer	It defines the Port of STUN Server of account1. The default is 10000.
	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.
	UDPUpdateTime	Integer	It defines the value of UDP Keep-alive Interval of account1. The default is 30(seconds).
	rport	0 or 1	It defines the value of Rport of account1. 0 stands for Disabled. 1 stands for Enabled. The default is 0.

[ADVANCED] path = /config/voip/sipAccount0.cfg	default_t1	Float	It defines the value of SIP Session Timer T1 of account1. The default is 0.5.
	default_t2	Float	It defines the value of SIP Session Timer T2 of account1. The default is 4.
	default_t4	Float	It defines the value of SIP Session Timer T4 of account1. The default is 5.
[blf] path = /config/voip/sipAccount0.cfg	SubscribePeriod	Integer	It defines the value of Subscribe Period of account1. The default is 1800(seconds).
	BLFList_URI	String	It defines the value of BLFList URI of account1. No default value.
[audio0] path = /config/voip/sipAccount0.cfg	enable	0 or 1	It defines the activity of a specific codec. 0 means to disable the codec. 1 means to enable the codec.
	PayloadType	One of the following: PCMU PCMA	It stands for a specific Codec type.

G723_53



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G723_63

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G729

G722

G726-16

		G726-24 G726-32 G726-40													
	priority	Integer from 0 to 10	It stands for the priority of a specific enabled codec.												
	rtpmap	Integer	It defines the payload of the codec.												
[audio1] path = /config/voip/sipAccount0.cfg	<p>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)</p> <p>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:</p> <table><tr><td>[audio0] enable = 1 PayloadType = PCMU priority = 1 rtpmap = 0</td><td>[audio4] enable = 1 PayloadType = G729 priority = 3 rtpmap = 18</td><td>[audio8] enable = 0 PayloadType = G726-24 priority = 0 rtpmap = 102</td></tr><tr><td>[audio1] enable = 1 PayloadType = PCMA priority = 2 rtpmap = 8</td><td>[audio5] enable = 1 PayloadType = G722 priority = 4 rtpmap = 9</td><td>[audio9] enable = 0 PayloadType = G726-32 priority = 0 rtpmap = 2</td></tr><tr><td>[audio2] enable = 0 PayloadType = G723_53 priority = 0 rtpmap = 4</td><td>[audio6] enable = 0 PayloadType = iLBC priority = 0 rtpmap = 102</td><td>[audio10] enable = 0 PayloadType = G726-40 priority = 0 rtpmap = 104</td></tr><tr><td>[audio3]</td><td>[audio7]</td><td></td></tr></table>			[audio0] enable = 1 PayloadType = PCMU priority = 1 rtpmap = 0	[audio4] enable = 1 PayloadType = G729 priority = 3 rtpmap = 18	[audio8] enable = 0 PayloadType = G726-24 priority = 0 rtpmap = 102	[audio1] enable = 1 PayloadType = PCMA priority = 2 rtpmap = 8	[audio5] enable = 1 PayloadType = G722 priority = 4 rtpmap = 9	[audio9] enable = 0 PayloadType = G726-32 priority = 0 rtpmap = 2	[audio2] enable = 0 PayloadType = G723_53 priority = 0 rtpmap = 4	[audio6] enable = 0 PayloadType = iLBC priority = 0 rtpmap = 102	[audio10] enable = 0 PayloadType = G726-40 priority = 0 rtpmap = 104	[audio3]	[audio7]	
[audio0] enable = 1 PayloadType = PCMU priority = 1 rtpmap = 0				[audio4] enable = 1 PayloadType = G729 priority = 3 rtpmap = 18	[audio8] enable = 0 PayloadType = G726-24 priority = 0 rtpmap = 102										
[audio1] enable = 1 PayloadType = PCMA priority = 2 rtpmap = 8				[audio5] enable = 1 PayloadType = G722 priority = 4 rtpmap = 9	[audio9] enable = 0 PayloadType = G726-32 priority = 0 rtpmap = 2										
[audio2] enable = 0 PayloadType = G723_53 priority = 0 rtpmap = 4				[audio6] enable = 0 PayloadType = iLBC priority = 0 rtpmap = 102	[audio10] enable = 0 PayloadType = G726-40 priority = 0 rtpmap = 104										
[audio3]				[audio7]											
[audio2] path = /config/voip/sipAccount0.cfg															
[audio3] path = /config/voip/sipAccount0.cfg															
[audio4] path = /config/voip/sipAccount0.cfg															
[audio5] path = /config/voip/sipAccount0.cfg															
[audio7] path = /config/voip/sipAccount0.cfg															
[audio8] path = /config/voip/sipAccount0.cfg															
[audio9] path = /config/voip/sipAccount0.cfg															
[audio10] path =															

/config/voip/sipAccount0.cfg	enable = 0 PayloadType = G723_63 priority = 0 rtpmap = 4	enable = 0 PayloadType = G726-16 priority = 0 rtpmap = 112	
[WAN] path = /config/Network/Network.cfg	WANType	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.
	WANStaticIP	IP Address	It defines the IP Address when using static WAN settings. No default value.
	WANSubnetMask	Network Mask	It defines the Subnet Mask when using static WAN settings. No default value.
	WANDefaultGateway	IP Address	It defines the Default Gateway when using static WAN settings. No default value.
[DNS] path = /config/Network/Network.cfg	PrimaryDNS	IP Address	It defines the Primary DNS when using static WAN settings. No default value.
	SecondaryDNS	IP Address	It defines the Secondary DNS when using static WAN settings. No default value.
[PPPoE] path = /config/Network/Network.cfg	PPPoEUser	string	It defines the User name when using PPPoE WAN settings.



			No default value.
	PPPoEPWD	string	It defines the Password when using PPPoE WAN settings. No default value.
[LAN] path = /config/Network/Network.cfg	LANTYPE	0 or 1	It defines the type of PC Port (LAN) . 0 stands for Router . 1 stands for Bridge . The default is 1.
	RouterIP	IP Address	It defines the IP Address when the LAN is set as Router. The default is 10.0.0.1
	LANSubnetMask	Network Mask	It defines the Subnet Mask when the LAN is set as Router. The default is 255.255.255.0.
	EnableDHCP	0 or 1	It means whether to enable DHCP server when the LAN is set as Router. 0 stands for Disabled. 1 stands for Enabled. The default is 1.
	DHCPStartIP	IP Address	It defines the IP Address range the DHCP router will allocate. The default is from 10.0.0.10 to 10.0.0.100.
	DHCPEndIP	IP Address	
[VLAN] path = /config/Network/Network.cfg	ISVLAN	0 or 1	It defines the VLAN Active option of LAN Port . 0 stands for Disabled. 1 stands for Enabled. The default is 0.
	VID	Integer	It defines the VID of LAN

from 0 to **Port**.



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		4094	The default is 0.
	USRPRIORITY	Integer from 0 to 7	It defines the VLAN USRPRIORITY of LAN Port . The default is 0.
	PC_PORT_VLAN_ENABLE	0 or 1	It defines the VLAN Active option of PC Port . 0 stands for Disabled. 1 stands for Enabled. The default is 0.
	PC_PORT_VID	Integer from 0 to 4094	It defines the VID of PC Port . The default is 0.
	PC_PORT_PRIORITY	Integer from 0 to 7	It defines the VLAN USRPRIORITY of PC Port . The default is 0.
[QOS] path = /config/Network/Network.cfg	RTPTOS	Integer from 0 to 63	It defines the value of Voice QoS . The default is 40
	SIGNALTOS	Integer from 0 to 63	It defines the value of SIP QoS . The default is 40
[RTPPORT] path = /config/Network/Network.cfg	MaxRTPPort	Integer from 0 to 65535	It defines the MaxRTPPort of Local RTP Port . The default is 11800.
	MinRTPPort	Integer from 0 to 65535	It defines the MinRTPPort of Local RTP Port . The default is 11780.
[SYSLOG] path = /config/Network/Network.cfg	SyslogdIP	IP Address	It defines the server where the syslog is supposed to be exported onto.
[Lang] path = /config/Setting/Setting.cfg	WebLanguage	Languag e Name	It defines the Language used on the Webpage. The default is "English". The other Languages are: Turkish,

			Czech, Russian, Chinese_S depending on the firmware support.
[Time] path = /config/Setting/Setting.cfg	TimeZone	Time Zone from -11 to +12	It defines the Time Zone you expect to use on the phone. The default is +8.
	TimeServer1	Domain name or IP Address	It defines the Primary NTP Server . The default is cn.pool.ntp.org.
	TimeServer2	Domain name or IP Address	It defines the Secondary NTP Server . The default is cn.pool.ntp.org.
	Interval	Integer	It defines the Update Interval when using NTP Server. The default is 1000(seconds).
	SummerTime	0 or 1	It defines the activity of Daylight Saving Time . 0 stands for Disabled. 1 stands for Enabled. The default is 0.
	StartTime	MM/DD/HH	It defines the StartTime of Daylight Saving Time. The default is 1/1/0
	EndTime	MM/DD/HH	It defines the EndTime of Daylight Saving Time. The default is 12/31/23
[PhoneSetting] path = /config/Setting/Setting.cfg	InterDigitTime	Integer	It defines the Inter Digit Time . The default is 4(seconds).
	FlashHookTime	Integer	It defines the Flash Hook



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	r	from 0 to 800	Time. The default is 1(ms)
	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 Talk call only. The default is 0.
	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.
	Contrast	1,2 or 3	It defines the LCD Contrast . The parameter depends on model types. The default is 2.
	BackLight	1,2 or 3	It defines the Backlight Brightness . The parameter depends on model types. The default is 2.
	BacklightTime	15,30,60 or 120	It defines the Backlight Time . The parameter depends on model types. The default is 30.
	ProductName	String	It defines the Product Name which you can see via LCD interface.
[AlertInfo0] path = /config/Setting/Setting.cfg	Text	String	It defines the first Internal Ringer Text . No default value.
	Ringer	Integer	It defines the ringer for the first Internal Ringer Text. The

			ringer is defined by its order number. The default is 1.
[AlertInfo1] path = /config/Setting/Setting.cfg	They have same path and parameters as [AlertInfo0] and share the same Permitted Values and default values.		
[AlertInfo2] path = /config/Setting/Setting.cfg			
[AlertInfo3] path = /config/Setting/Setting.cfg			
[AlertInfo4] path = /config/Setting/Setting.cfg			
[AlertInfo5] 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			
[Forward] path = /config/Features/Forward.cfg	Type	0,1,2 or 3	It defines the type of Forward .

0 stands for **Cancel**

Forward.



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			<p>1 stands for Always Forward.</p> <p>2 stands for Busy Forward.</p> <p>3 stands for No Answer Forward.</p> <p>4 stands for Busy/No Answer Forward.</p> <p>The default is 0.</p>
	AlwaysForward	Phone number	<p>It defines the number that the phone will Always Forward to.</p> <p>No default value.</p>
	BusyForward	Phone number	<p>It defines the number that the phone will Busy Forward to.</p> <p>No default value.</p>
	NoAnswerForward	Phone number	<p>It defines the number that the phone will No Answer Forward to.</p> <p>No default value.</p>
	AfterRingTimes	5, 10 or 15	<p>It defines the time after which the call will be forwarded when using No Answer Forward.</p> <p>The default is 10(seconds).</p>
	BusyNoAnswerForward	Phone number	<p>It defines the number that the phone will Busy/No Answer Forward to.</p> <p>No default value.</p>
	BusyNoAfterRingTimes	5, 10 or 15	<p>It defines the time after which the call will be forwarded when using Busy/No Answer Forward.</p> <p>The default is 10(seconds).</p>
[Features]	Call_Waiting	0 or 1	It defines the activity of Call

path = /config/Features/Phone.cfg			Waiting. 0 stands for Disabled. 1 stands for Enabled. The default is 1.
	Hotlinenumber	Phone number	It defines the Hotline Number . No default value.
	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).
[PoundSend] path = /config/Features/Phone.cfg	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.
[AutoAnswer] path = /config/Features/Phone.cfg	Enable	0 or 1	It defines the activity status of Auto Answer . 0 stands for Disabled. 1 stands for Enabled. The default is 0.
[Emergency] path = /config/Features/Phone.cfg	Num	Phone numbers separated by commas	It defines the Emergency numbers separated by commas. For example, it can be specified as: 911,999,110,120 No default value.
[memory1] path = /config/vpPhone/vpPhone.ini	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. No default value.

	Line	Integer from 0 to max line number	<p>Seen from the web, it reflects the value under Line title.</p> <p>It defines the Line you are going to use for a specific function (if the function needs to specify a line).</p> <p>Normally, 0 stands for Auto, 1 stands for Line1 and so on.</p> <p>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.</p> <p>The default is 0.</p>
	Value	It depends	<p>Seen from the web, it reflects the value under Extension title.</p> <p>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.</p> <p>No default value.</p>
	PickupValue	string	<p>It is used only for BLF. It defines the pickup number that your server allocates.</p>
	DKtype	Integer	<p>It's a number reflects the key function.</p> <p>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: Custom</p>

			12: Voicemail 13: SpeedDial 14: Intercom 15: Line(for line key only) 16: BLF 17: URL 18: Group Listening 19: Public Hold 20: Private Hold 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] path = /config/vpPhone/vpPhone.ini			
[memory7] path = /config/vpPhone/vpPhone.ini			
[memory8] path = /config/vpPhone/vpPhone.ini			
[memory9] path = /config/vpPhone/vpPhone.ini			
[memory10] path =			



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/config/vpPhone/vpPhone.ini			
[memory11] path = /config/vpPhone/vpPhone.ini	<p>From [memory11] to [memory16] are used for Line keys. The available sections depend on the numbers of Line keys. 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.</p>		
[memory12] path = /config/vpPhone/vpPhone.ini			
[memory13] path = /config/vpPhone/vpPhone.ini			
[memory14] path = /config/vpPhone/vpPhone.ini			
[memory15] path = /config/vpPhone/vpPhone.ini			
[memory16] path = /config/vpPhone/vpPhone.ini			
[Profile] path = /config/vpm.cfg	VAD	0 or 1	It defines the activity status of VAD . 0 stands for Disabled. 1 stands for Enabled. The default is 0
	CNG	0 or 1	It defines the activity status of CNG . 0 stands for Disabled. 1 stands for Enabled. The default is 1.
	ECHO	0 or 1	It defines the activity status of Echo canceller . 0 stands for Disabled. 1 stands for Enabled. The default is 1.

	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.
[Jitter] path = /config/vpm.cfg	Adaptive	0 or 1	It defines the Type of Jitter Buffer. 0 stands for Fixed. 1 stands for Adaptive. The default is 1.
	Min	Integer	It defines the value of Min Delay . The default is 0.
	Max	Integer	It defines the value of Max Delay . The default is 300.
	Nominal	Integer	It defines the value of Normal Delay . The default is 120.
[Message] path = /config/Features/Message.cfg	VoiceNumber0	String	It defines Voice Mail number of account1. No default value.
	VoiceNumber1	String	It defines Voice Mail number of account2. No default value.
	VoiceNumber2	String	It defines Voice Mail number of account3 if the account exists. No default value.
	VoiceNumber3	String	It defines Voice Mail number of account4 if the account

			exists. No default value.
	VoiceNumber4	String	It defines Voice Mail number of account5 if the account exists. No default value.
	VoiceNumber5	String	It defines Voice Mail number of account6 if the account exists. No default value.
[Country] path = /config/voip/tone.ini	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.
[Tone Param] path = /config/voip/tone.ini	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. No default value.
	ring	string	It defines the tone of Ring Back .



			No default value.
	busy	string	It defines the tone of Busy . The format is the same as dial. No default value.
	congestion	string	It defines the tone of Congestion . The format is the same as dial. No default value.
	callwaiting	string	It defines the tone of Call Waiting . The format is the same as dial. No default value.
	dialrecall	string	It defines the tone of Dial Recall . The format is the same as dial. No default value.
	record	string	It defines the tone of Record . The format is the same as dial. No default value.
	info	string	It defines the tone of Info . The format is the same as dial. No default value.
	stutter	string	It defines the tone of Stutter . The format is the same as dial. No default value.
	message	string	It defines the tone of

Message.



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			The format is the same as dial. No default value.
	autoanswer	string	It defines the tone of Auto Answer . The format is the same as dial. No default value.
[Default] path = /config/voip/tone.ini	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.
	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.
	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.
	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.

	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.
	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.
	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.
	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.
	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.
	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.
	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.
[AreaCode] path = /config/DialRule/areacode.cfg	Code	Integer	It defines the Code of Area Code. No default value.
	minlen	Integer	It defines the Min Length of Area Code. No default value.
	maxlen	Integer	It defines the Max Length of Area Code. No default value.
[BlockOut] path = /config/DialRule/BlockOut.cfg	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.

	2	They share the same Permitted Value and rules as 1.	
	3		
	4		
	5		
	6		
	7		
	8		
	9		
	10		
[RemotePhoneBook0] path = /config/Setting/Setting.cfg	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.xml NO default value.
	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] path = /config/Setting/Setting.cfg	They share the same parameters and Permitted Values as [RemotePhoneBook0].		
[RemotePhoneBook2] path = /config/Setting/Setting.cfg			
[RemotePhoneBook3] path = /config/Setting/Setting.cfg			
[RemotePhoneBook4] path = /config/Setting/Setting.cfg			

[AdminPassword] path = /config/Setting/autop.cfg	password	String	It defines the new password for admin .
[UserPassword] path = /config/Setting/autop.cfg	password	String	It defines the new password for user .
[Webserver Type] path = /config/Advanced/Advanced.cfg	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.



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