

MV-370 / MV-372

VoIP GSM Gateway

User Manual



MV-370



MV-372

PORTech Communications Inc.

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1. Introduction

MV-370/MV-372 is a 1/2 channels VoIP GSM Gateway for call termination (VoIP to GSM) and origination (GSM to VoIP). It is SIP based and compatible with Asterisk. It can enable to make 1/2 calls simultaneously from IP phones to GSM networks and GSM network to IP phone.

2. Function description

2.1 VoIP(SIP) 、GSM(MV-370/MV-372) conversion.

2.2 50 sets of LAN->MOBILE routes setting , 50 sets of MOBILE->LAN routes setting.

2.3 Voice response for setting and status (dial in from mobile).

2.4 Series connections to save bills.

2.5 Standard SIP(RFC2543,RFC3261) protocol ,
Communicates with other gateway or PC.

3. Parts list

Please check the parts for any missing parts. If do, please contact our agents :

3.1 「MV-370/MV-372」 main body

3.2 Power adaptor AC-DC (110V AC – 12V DC) or (220V AC – 12V DC)

3.3 Network cable

3.4 Antenna

3.5 User Manual



(3.1) MV-370



(3.1) MV-372



(2)

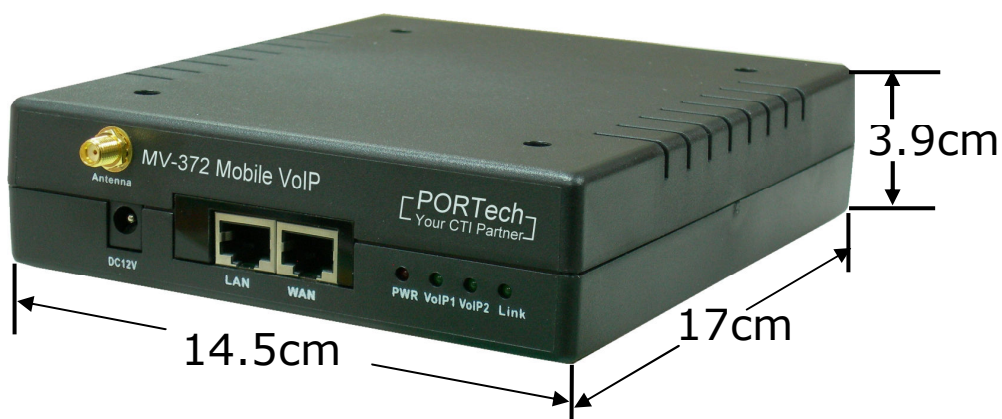


(3)

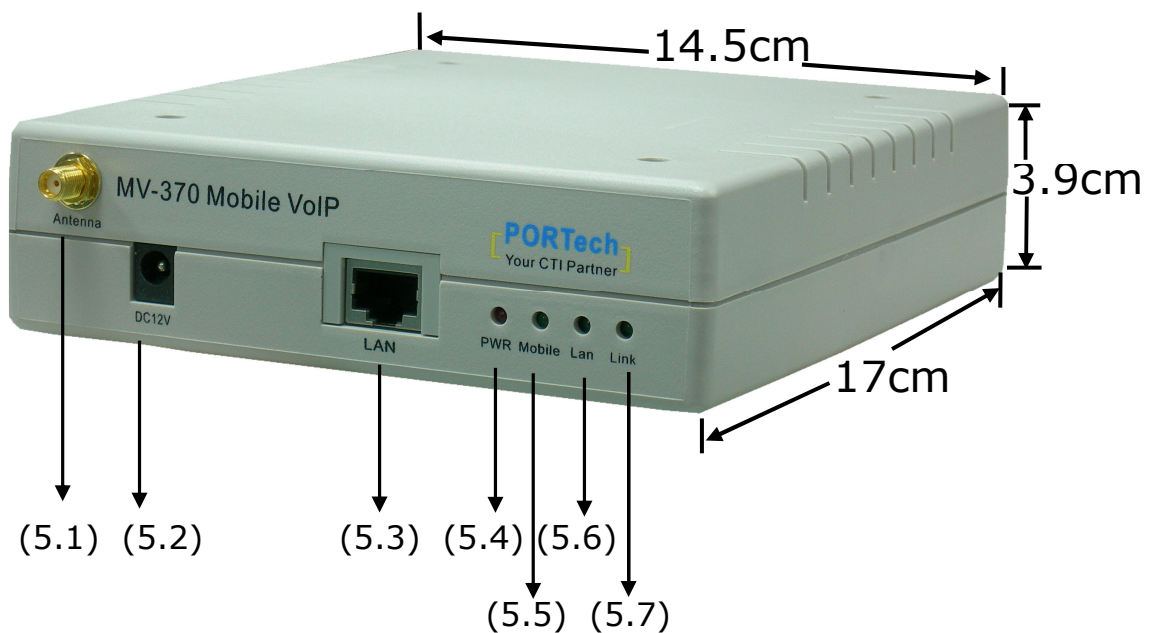


(4)

4. Dimension: 14.5cm x 17cm x 3.9cm



5. MV-370 Panel description



5.1 Antenna : Antenna connector.

5.2 DC 12V : Power socket.

5.3 LAN: Standard RJ-45 socket, connecting to Hub circuit.

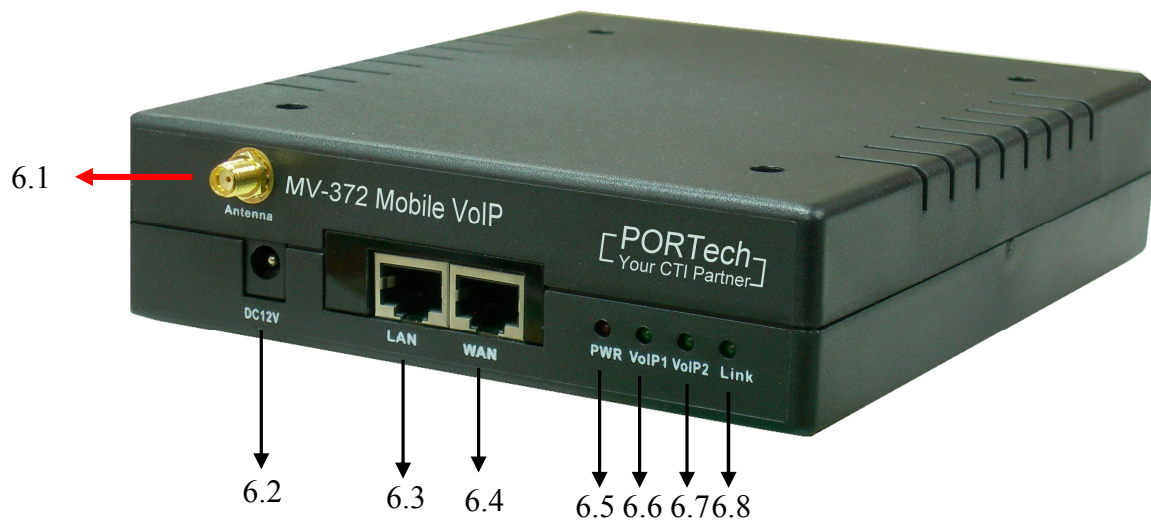
5.4 PWR: Power indicator light, red light. Light is on when system's power supply is normal.

5.5 MOBILE: GSM indicator light, green light. Light flashes when GSM status is normal; light turns on constantly when GSM is called.

5.6 LAN: LAN indicator light, green light. Light flashes when Lan is called; light turns off when GSM answered.

5.7 LINK: Link indicator light, green light. Light is on when network is connected correctly.

6. MV-372 Panel description



6.1 Antenna : Antenna connector.

6.2 DC 12V : Power input.

6.3 LAN : LAN port. It also can be DHCP Server.

6.4 WAN: RJ-45 internet connector , standard RJ-45 socket , connect to HUB.

6.5 PWR (Power LED) : Light up when power is normal.

6.6 VoIP1 : an indicator light of VoIP1

6.7 VoIP2 : an indicator light of VoIP2

6.8 LINK Indicator : Light up when network is connected.

7. CABLING

7.1 Connect the internet cable from HUB to the 'WAN' connector of the MV-372.

*If you need to stack up more MV-372, you can stack up as follows.

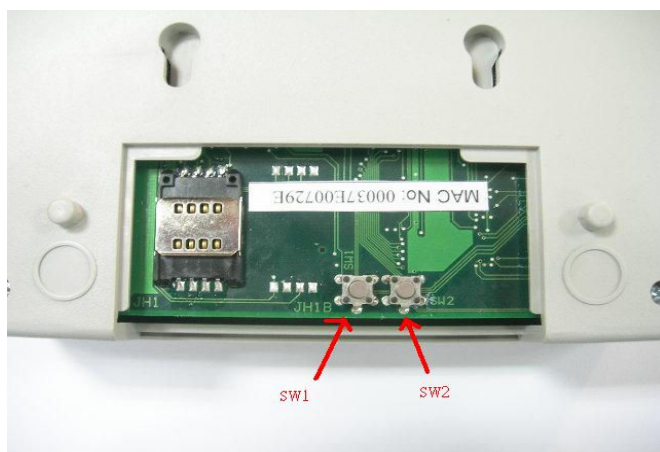


7.2 Connect the antenna and put it in proper position to get the best signal reception.

7.3 Insert the SIM card from back of the main body. (Take the slide off first).

7.4 MV-370/MV-372 support manual switch IP MODE to DHCP and manual restore to original firmware for update failure.

There are SW1 and SW2 button shows as follow diagram:



7.4.1 SW1 function: Restore the factory default IP 192.168.0.100

STEP: Please press the SW1 in 7~8 seconds till the Mobile and LAN led flash blink.

7.4.2 SW2 function: Switch MV-37X IP to DHCP MODE

STEP: Please press the SW2 about 7~8 seconds till the Mobile and LAN led flash blink.

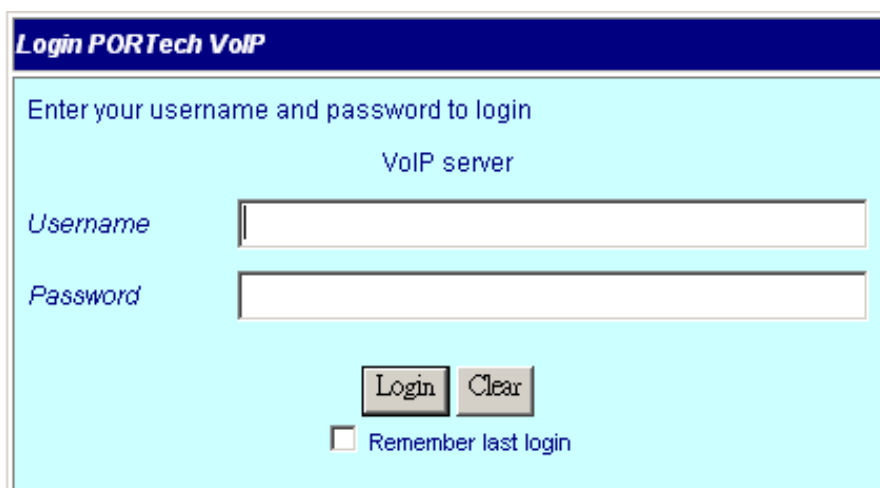
7.4.3 SW1 + SW2 function: Manual restore and restart MV to original firmware for update failure.

STEP: Please remove the MV power cable, and press the SW1 and SW2 at meantime. Then plug in the power DC 12V and don't let go in 4~5 seconds. When Mobile and LAN led flash blink, you can reboot the device and login to 192.168.0.100 for firmware update procedure.

7.5 Connect the power adaptor. The 'POWER' LED should be light up.

8. Web Page Setting

When the IP setting is done, the operator may setup all the rest parameters via web page. Browse the IP address from Internet Explorer (e.g. <http://192.168.0.100>). The following page shows up :



Login PORTech VoIP

Enter your username and password to login

VoIP server

Username

Password

☐ Remember last login

Enter the username and password for authentication. (default username=voip, password=1234). The page follows when the username and password are correct.

9. System Information.

9.1 When you login the web page, you can see the demo system current system information like firmware version, company... etc in this page.

9.2 Also you can see the function lists in the left side. You can use mouse to click the function you want to set up.

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Mobile VoIP2 v10.115

Model Type:	MV-372
Module Description:	GSM:850/900/1800/1900MHz (SIM3x0)
Firmware Version:	Tue Oct 19 10:13:19 2010.
Codec Version:	Thu Jul 29 11:15:45 2010.
Contact Address:	150, Shiang-Shung N.Road., Taichung, Taiwan, R.O.C.
Tel:	886-4-23058000
Fax:	886-4-23022596
E-Mail:	sales@portech.com.tw
Web Site:	http://www.portech.com.tw

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10. Route

Important:

The route table -50 sets can share by two channels

The setting, please refer 11.2 Mobile setting

ex: Mobile 1 use the route table for item 0-24,

Mobile 2 use the route table for item 25-49

10.1 Mobile TO LAN Settings

The operator may assign 50 sets of routing rule to transfer the call incoming from MOBILE to LAN.

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Route

Mobile To Lan Settings

Mobile To Lan Speed Dial

Lan To Mobile Settings

Mobile

Network

SIP Settings

NAT Transform

Update

System Authority

Save Change

Reboot

Mobile To LAN Table

Page: 1

Item	CID	URL	Select
0	*	*	<input type="checkbox"/>
1			<input type="checkbox"/>
2			<input type="checkbox"/>
3			<input type="checkbox"/>
4			<input type="checkbox"/>
5			<input type="checkbox"/>
6			<input type="checkbox"/>
7			<input type="checkbox"/>
8			<input type="checkbox"/>
9			<input type="checkbox"/>

Delete Selected

Delete All

reset

Add New

Position: (0~49)

CID: Ex:0911111111, 0911*, *

URL: Ex:192.168.0.1, *:2St

Add

reset

The MV-370/MV-372 will transfer to the URL according to the caller ID of the Mobile.

*CID :

- (1) may enter the whole number, e.g. 0911111111
- (2) only part of the number (prefix) e.g. 0911* means any number starting with 0911 will be accepted

(3) * means all numbers can be accepted

(4) N means the calls without the CID

Please note the priority of the rules. The item which has more digits will have higher priority. If the digits are the same, then former one gets the higher priority.

*URL : The IP address to transfer this call

(1) may enter the whole IP address, e.g. 192.168.0.101 or proxy extension or phone number.

(2) If this field is blank or simply 'N', it means refuse to transfer.

(3) If an '*' entered, it means 2-stages-dialing. The call will be answered and prompt dial tone again to receive the IP address/sip extension or **any phone number** as the destination. The caller may enter the IP such as 192*168*0*101#.

*If the device have register proxy server/Asterisk ,you can enter any destination phone number. Please note the proxy server/Asterisk need to set the route of destination phone number.

Example:

(1) Mobile to Lan: 0932*,0911123456

MV-370/MV-372 have register proxy server/Asterisk

The proxy server/Asterisk have the route "09"

When the caller's prefix number is 0932,MV-370/MV-372 will connect 0911123456 automatically

(2) Mobile to Lan: *,*

Any caller call the MV-370/MV-372's sim,MV-370/MV-372 will prompt dial tone.

Caller can enter IP or sip extension or phone number.

*sip extension or phone number both need to register SIP Proxy Server or Asterisk.

*Phone number, SIP Proxy Server or Asterisk need to set the route of this phone number.

10.2 Call Back Service (50 sets)

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Route

Mobile To Lan Settings

Mobile To Lan Speed Dial

Lan To Mobile Settings

Mobile

Network

SIP Settings

NAT Transform

Update

System Authority

Save Change

Reboot

Mobile To LAN Table

Page: 1

Item	CID	URL	Select
0	0933579613	#	<input type="checkbox"/>
1	+886933579613	#	<input type="checkbox"/>
2			<input type="checkbox"/>
3			<input type="checkbox"/>
4			<input type="checkbox"/>
5			<input type="checkbox"/>
6			<input type="checkbox"/>
7			<input type="checkbox"/>
8			<input type="checkbox"/>
9			<input type="checkbox"/>

Delete Selected Delete All reset

Add New

Position: (0~49)

CID: Ex:0911111111, 0911*, *

URL: Ex:192.168.0.1, *.2St

Add reset

You can set call back service as the following steps


- (1) CID : set the phone number here (up to 50 sets)
- (2) URL: # (# is the command of call back)

Application:

- a.Call MV-370/ MV-372
- b.MV-370/ MV-372 will detect the phone number is in call back list or not
- c.If yes, MV-370/ MV-372 will reject the call, and call it back
- d.You will receive the call from MV-370/ MV-372, and prompt a dial tone

10.3 Mobile to LAN Speed Dial Settings

When you set Mobile to LAN Speed Dial Settings and Mobile to LAN at the same time, MV-370/MV-372 will give priority to Mobile to LAN Speed Dial Settings.



Route

Mobile To Lan Settings

Mobile To Lan Speed Dial

Lan To Mobile Settings

Mobile

Network

SIP Settings

NAT Transform

Update

System Authority

Save Change

Reboot

Mobile To LAN Speed Dial

Item	Name	URL	Select
0	Test	192.168.0.107	<input type="checkbox"/>
1			<input type="checkbox"/>
2			<input type="checkbox"/>
3			<input type="checkbox"/>
4			<input type="checkbox"/>
5			<input type="checkbox"/>
6			<input type="checkbox"/>
7			<input type="checkbox"/>
8			<input type="checkbox"/>
9			<input type="checkbox"/>

Delete Selected

Delete All

Reset

*The call will be answered and prompt dial tone again. When the caller may enter the “Num”, system will connect the “URL” as destination.

E.g Num: 0 Name: test URL:192.168.0.107

When the caller hear dial tone and enter 0, system will connect 192.168.0.107

10.4 LAN to Mobile Settings

The operator may assign 50 sets of routing rule to transfer the call incoming from LAN to MOBILE.

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LAN To Mobile Table

Page: 1

Item	URL	Call Num	Select
0	*	#	<input type="checkbox"/>
1			<input type="checkbox"/>
2			<input type="checkbox"/>
3			<input type="checkbox"/>
4			<input type="checkbox"/>
5			<input type="checkbox"/>
6			<input type="checkbox"/>
7			<input type="checkbox"/>
8			<input type="checkbox"/>
9			<input type="checkbox"/>

Delete Selected Delete All Reset

Add New

Position:	<input type="text"/>	(0~49)
URL:	<input type="text"/>	Ex: 192.168.0.1, 192.168.0.*
Call Num:	<input type="text"/>	1. e.g. 0911111111 (may enter the whole number) 2. *: 2-stage dialing 3. #: one-stage dialing 4. #d?a?: for example #d123a456 destination number is 123111111 new destination number is 456111111

Add Reset

The MV-370/MV-372 will transfer to the mobile number according to the incoming URL

*URL : The IP address of the incoming call.

may enter the whole IP address, e.g. 192.168.0.101 or proxy server's extension. If a simple '*' is entered, means no restriction for the incoming IP address.

*Call Num :

-
1. May enter the whole number, e.g. 0911111111
 2. A simple "*" means 2-stages-dialing. The call will be answered and prompt dial tone again to receive the called number as the destination, e.g. 0911111111 or 0911111111#
 3. # for one-stage dialing
 4. # ['d'n']['a'ppp] for one-stage-dialing
[...] is option
'd'n means to delete the beginning n codes,
'a'ppp means to add 'ppp' in front.
For example #d123a456 means one-stage dialing,
delete the first 123 from your destination number,
then add 456 in front as the new destination number.

Example:

Lan to Mobile: *, #

- (1)MV-370/MV-372 and Lan Phone both need to register proxy server or Asterisk.
- (2)Proxy server/asterisk set the route that the prefix of destination number
- (3)When you dial any destination phone number from lan phone,MV-370/MV-372 will connect this call auto.

Example of Application:

When you call the ch.1 MV-370/MV-372 GSM number, it will provide dial tone and you enter a destination number.

Then ch.2 MV-370/MV-372 will dial this number and connect.

ch.1 MV-370/MV-372: mobile to lan set route table *,*

ch.2 MV-370/MV-372:lan to mobile set route table *,#

Additionally, two channels MV-370/MV-372 both need to register proxy server or Asterisk.And proxy server/asterisk set the route that the prefix of destination number dial out from ch.2 MV-370/MV-372.

*The channel 2 MV-370/MV-372's IP: the first IP :5062(e.g. http://192.168.0.100:5062)

11. Mobile

11.1 Mobile Status

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Mobile Status

2010-10-27 10:00

Mobile 1

Operator:	
SIM Card ID:	
Signal Quality:	
Registration State:	
GSM S/N:	
Motion State:	Mobile: OFF
Incoming URL:	
Incoming Name:	
Outgoing IP:	
Incoming Mob:	
Outgoing Mob:	

- (1)Network Registration : The SIM card of telecom carrier is been registered
- (2)SIM Card ID : SIM card ID.
- (3)Signal Quality : Signal quality. (4)GSM S/N : IMEI Number
- (5)Motion State: The status of SIM card
- (6)Incoming IP : The IP address of the last incoming call from LAN.
- (7)Incoming IP Name: proxy server name
- (8)Outgoing IP : The IP address of the last outgoing call to LAN.
- (9)Incoming Mob : The caller ID of the last incoming call from MOBILE.
- (10)Outgoing Mob: The called number of the last outgoing call to MOBILE.

11.2 Mobile Setting

Mobile Setting

(1)	VoIP Tx Gain:	9	(0~12)	VoIP Rx Gain:	11	(0~15) (2)
(3)	LAN Dialtone Vol:	9	(0~12)			

Mobile 1 ☐ ON ☒ OFF

(4)	Routing Range	0	~	49	(0~49)	
(5)	CODEC Tx Gain:	6	(0~7)	CODEC Rx Gain:	6	(0~7) (6)
(7)	SIP From:	Tel/User (Standard) ▼		Answer delay	0	(0~15) (8)
(9)	CLID Presentation	<input type="radio"/> OFF <input checked="" type="radio"/> ON		Restart dial fails	1	(0~15) (10)
(11)	Mobile PIN Code:	On <input type="checkbox"/>	Code: <input style="width: 50px;" type="text"/>	Confirmed: <input style="width: 50px;" type="text"/>		
(12)	Dial Prefix	<input style="width: 50px;" type="text"/>		LAN Answer Mode	Answered ▼ (13)	
(14)	Init AT Cmd	<input style="width: 100%;" type="text"/>				
(15)	Band Type:	Default ▼				

Mobile 2 ☐ ON ☒ OFF

(16)	Routing Range	0	~	49	(0~49)
------	---------------	---	---	----	--------

Route

Mobile

Status

Settings

Fwd Settings

SMS Agent

SIM Setting

Operator Setting

Network

SIP Settings

STUN Setting

Update

System Authority

Save Change

Reboot

Route

Mobile

Status

Settings

Fwd Settings

SMS Agent

SIM Setting

Operator Setting

Network

SIP Settings

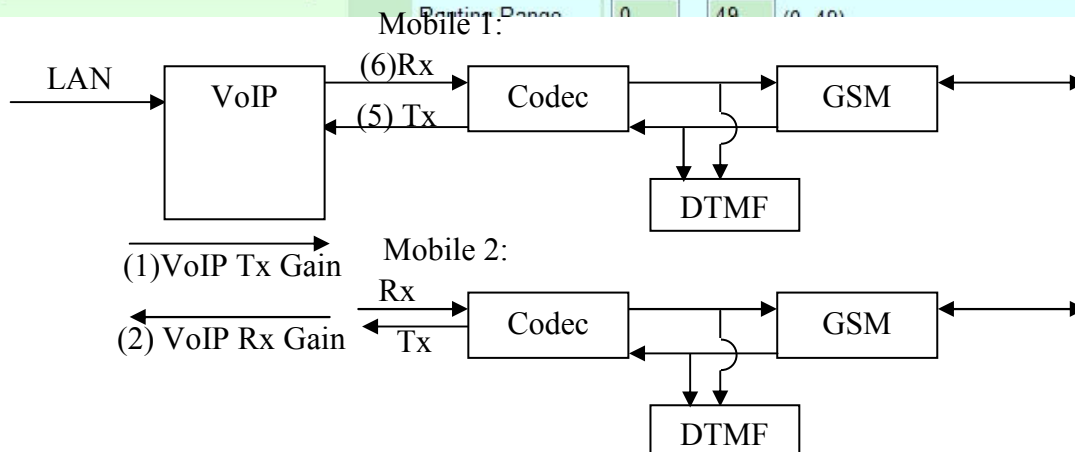
STUN Setting

Update

System Authority

Save Change

Reboot



(1) VoIP Tx Gain: To adjust the volume of LAN side.

(2) VoIP Rx Gain: To adjust the volume of Mobile side.

(3) LAN Dial tone Gain: DTMF Receiver is not good, you can adjust gain down.

(4) Routing Range: The route table -50 sets can share by two channels
ex: Mobile 1 use the route table for item 0-24,
Mobile 2 use the route table for item 25-49

(5) CODEC Tx Gain: as above

(6) CODEC Rx Gain: as above

(7) SIP From: Caller ID transfer

- Tel/User (Standard): If you need to register to Asterisk and proxy server, please choose this option. And how to transfer the caller ID to LAN, please refer 21. How to setup Asterisk to receive Caller ID from MV-370/MV-372 (page 42)

MV-370/MV-372 will send the message as follows in the Packet.

From: "caller number" <sip:3001@192.168.0.228>;tag=51088abb

- User/User (Standard): If you need to register to Asterisk and proxy server, please choose this option.

MV-370/MV-372 will send the message as follows in the Packet.

From: " 3001" <sip:3001@192.168.0.228>;tag=51088abb

- Tel/Tel :

MV-370/MV-372 will send the message as follows in the Packet.

From: "caller number" <sip: caller number @192.168.0.228>;tag=6ac93f7c

※ Please note: If you choose this option, please don't register to Asterisk and proxy server. Please only fill **proxy server IP** and choose **Active: on** (else field empty) in sip setting/service domain

- User/Tel

MV-370/MV-372 will send the message as follows in the Packet.

From: "Username" <sip: caller number @192.168.0.228>;tag=7f130947

✂ If you choose this option, please don't register to Asterisk and proxy server. Please only fill and choose (else field empty) in sip setting/service domain

(8)Answer Delay: Delay for incoming call when the ring.

(9)Presentation CLIR: If you need to block the Caller Id for call termination, please choose Suppression

(10) Restart Dial Fail: In this feature, user can initialize and register the module while GSM module dials fail in couple times. When GSM module is dysfunctional, it can avoid the device shut down in advance.

(11)Mobile PIN Code: If you need to unlock pin code via MV-370/MV-372, you can click "On" and enter pin code.

(12) Dial Prefix: The prefix number of outgoing calls. When Lan to Mobile, MV-370/MV-372 will automatically add the "Dial prefix" for outgoing mobile.

(13)LAN Answer Mode:

*Answered: when mobile answer, and then connect the call

*Alerted: when the mobile is ringing back tone, then connect the call

*Income: when Lan dial out, then connect soon

(14) Init AT Cmd: User can fill the AT Command for GSM module

(15) Band Type: You can manual setting according to your GSM Frequency of carrier.

(16) ON/Off: If you use this channel, please click on. Otherwise, please click off.

11.3 Mobile / Forward Setting:

When the first route are busying, SIP can transfer phone call to another free route. When the device are busying, the phone call can be transfer to another device (external equipments).

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Route

Mobile

Status

Settings

Fwd Settings

SMS Agent

Network

SIP Settings

NAT Transform

Update

System Authority

Save Change

Reboot

Forward Setting

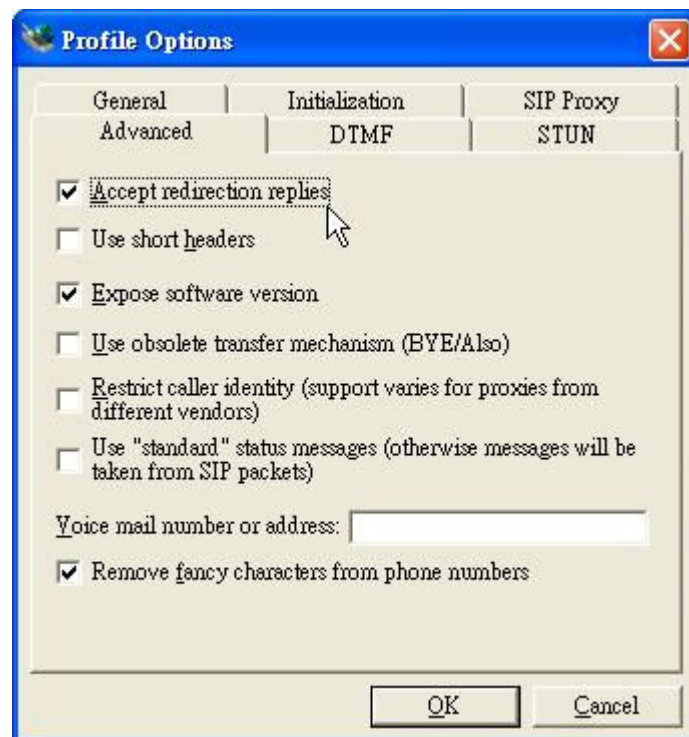
☐ Forward Enable

	Name	URL:Port
Fwd to Mobile1:		192.168.0.100:5060
Fwd to Mobile2:		192.168.0.100:5062
Fwd to External:		

submit

cancel

- * "Forward Enable" is not motivate on Default value.
So please, mark "Forward Enable" this blank to motivate this function.
Take SJ Phone for example: Profiles -> Edit -> Advanced -> Accept redirection replies (Turn on the "Forward Enable", therefore the SJ Phone can designate a port which are free to use.)



	Name	URL:Port
Fwd to Mobile1:		192.168.0.100:5060
Fwd to Mobile2:		192.168.0.100:5062
Fwd to External:		

The Explanation of Picture:

Fwd to Mobile1:192.168.0.100 : 5060, it means when 5062 Port are busying, SJ Phone can transfer the call to 5060 Port (192.168.0.100).

Fwd to Mobile2:192.168.0.100 : 5062, it means when 5060 Port are busying, SJ Phone can transfer the call to 5062 Port (192.168.0.100).

- If both 5060 port and 5062 port are busying at same time, you can set up "Fwd to External", then you can transfer the phone call to another designate device.

11.4 Mobile / SMS Agent:

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SMS Agent

Read received SMS

Port	Status	Bank
Mobile 1	Not Ready !!!	Rx List
Mobile 2	Not Ready !!!	Rx List

SMS Sender

Encode:

Via: Mobile ☒ 1 ☐ 2

Dest Num:

Message:

Maximum Number of ASC7 chars for

You have **160** ASC7 chars remaining for your description..

2 mode:
ASC7(ASCII 7 bit)
UCS2(Unicode 16)

[Send Now](#)

- (1) Rx List: Read received SMS
- (2) Dest Num: the Receiver's phone number
- (3) Message: Please fill the messages that want to send to receiver.

When you click Rx List, you can view all received SMS as follows.

SMS Rx List

Read	Status	RemotelD	Date,Time
1	REC READ	886936114545	08/01/01,19:34:22
2	REC READ	886935386862	08/03/12,16:25:27

Click the serial no,you can view message as follows.

SMS Reader

Index	RemoteID	Date,Time
2	886935386862	08/03/12, 16:25:27

MV Serial can send SMS and receive SMS

Back

Delete

11.5 Send Bulk of SMS via Microsoft Excel

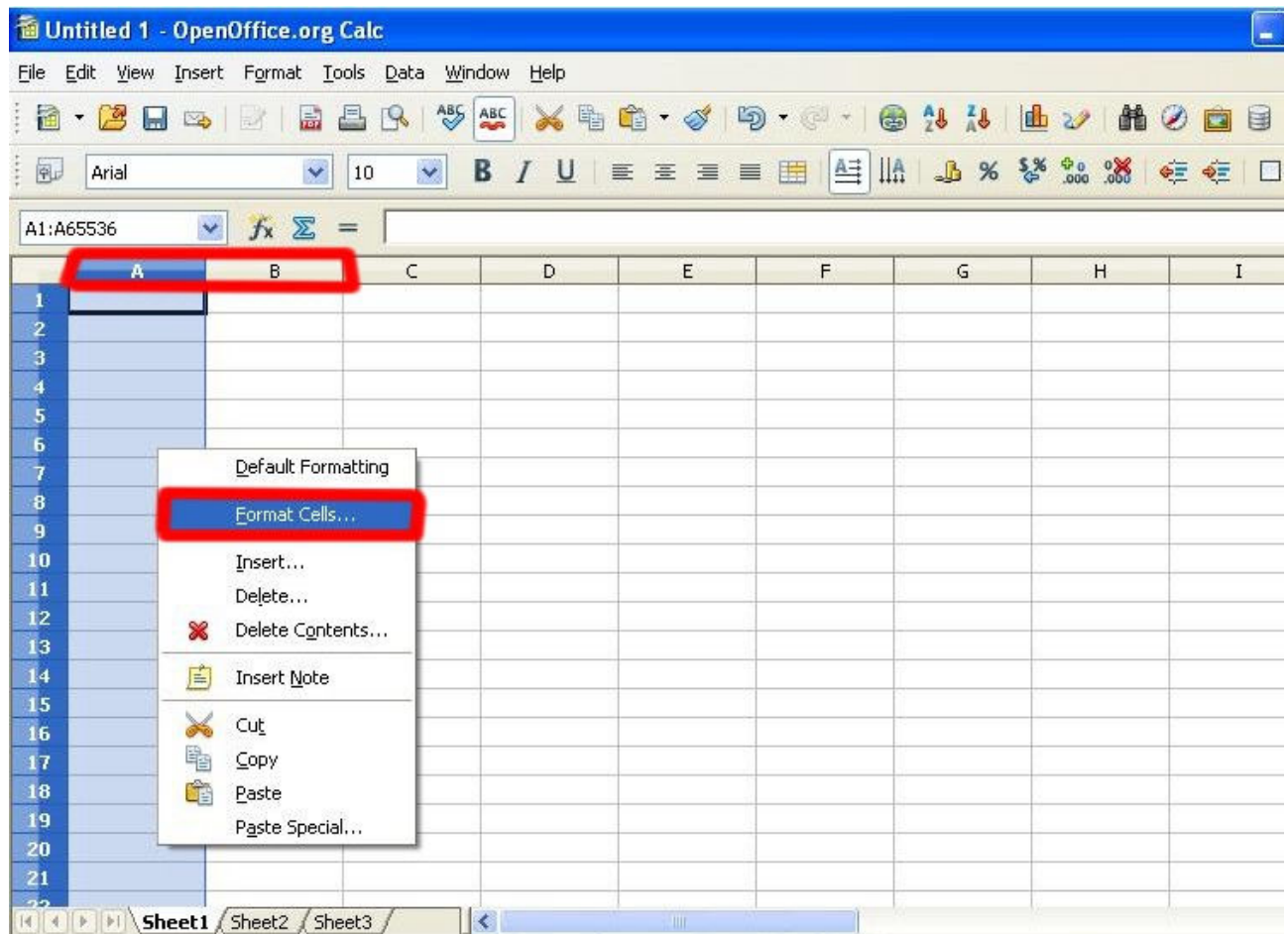
First of all, please open a new Excel file.

Step 1 Format Cells

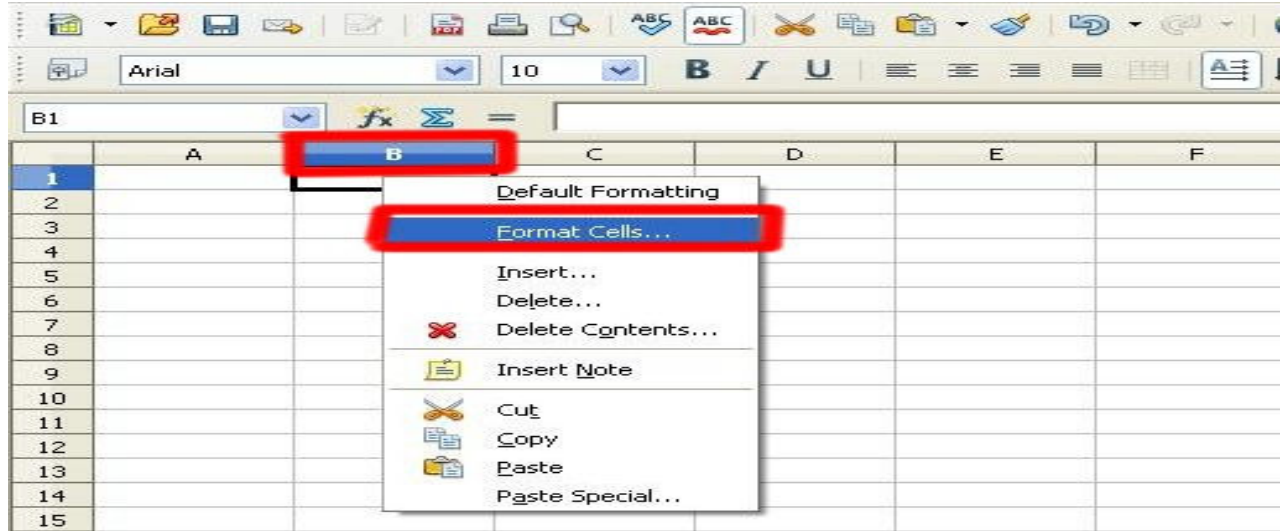
Here, we need you to format cells to “Text” first.

Please click mouse right key, and choose “Format Cells”

BLANK A

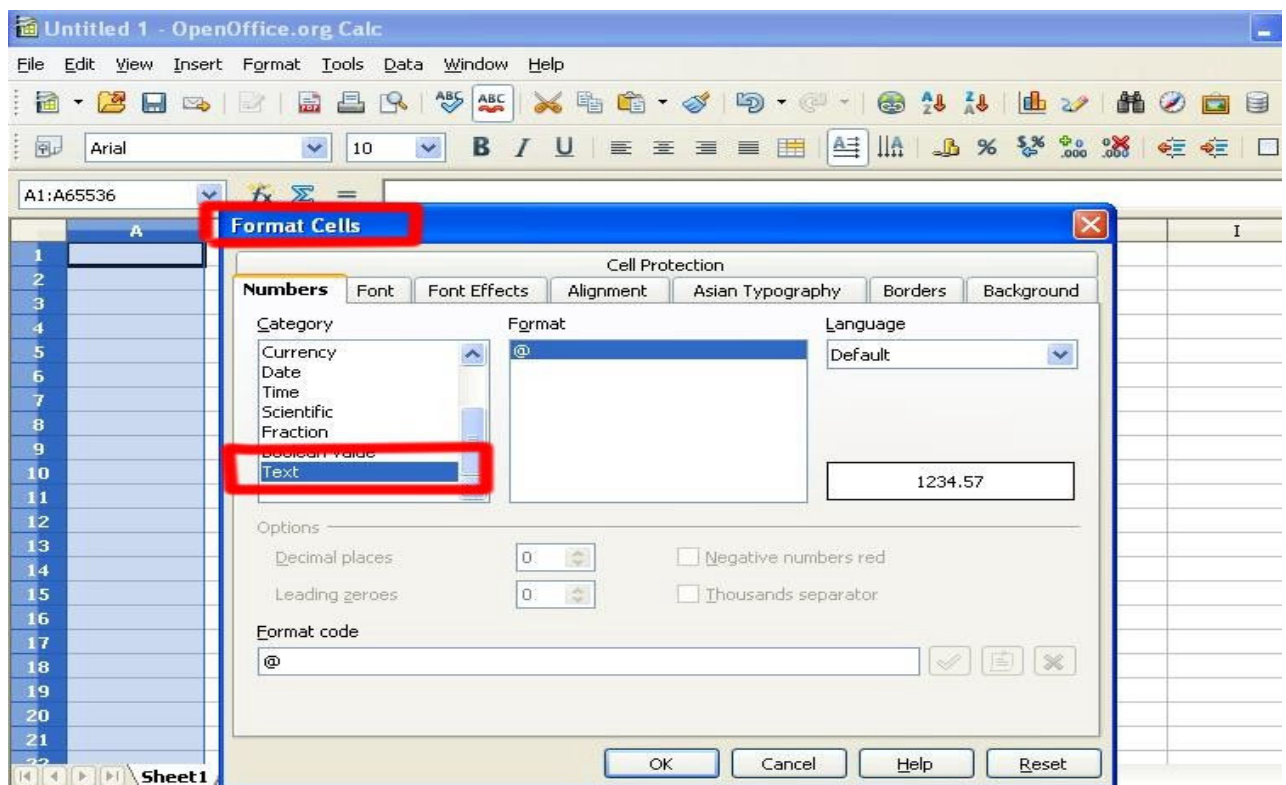


BLANK B



Step 2

In the Format Cells, please select “Text”

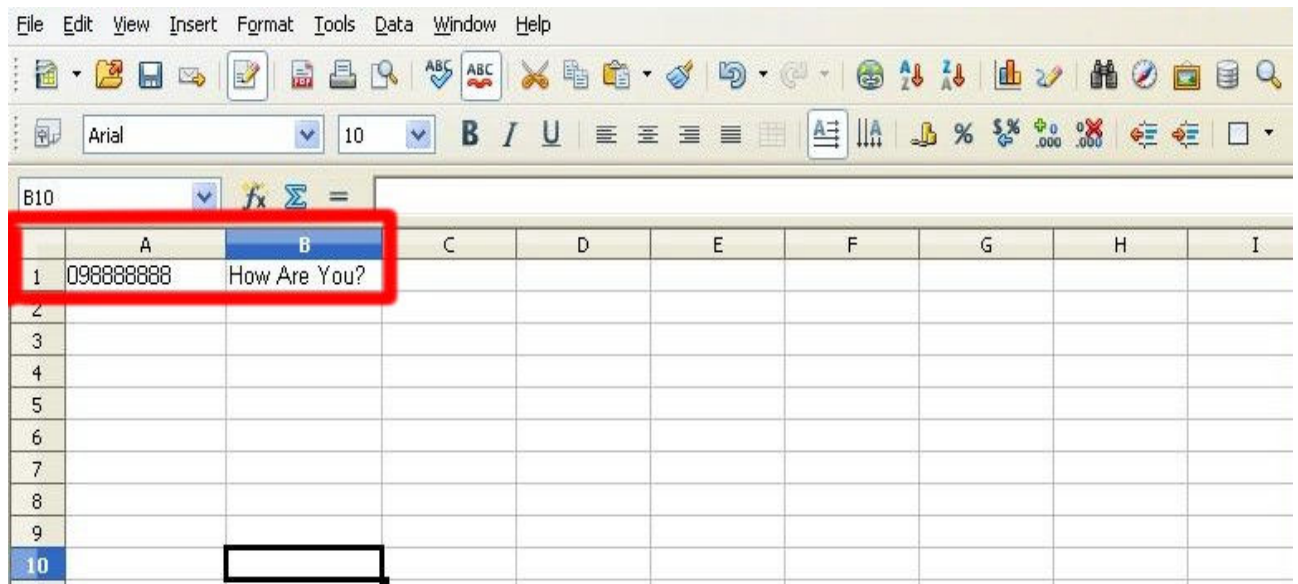


- Please do this action for BLANK A and B both.

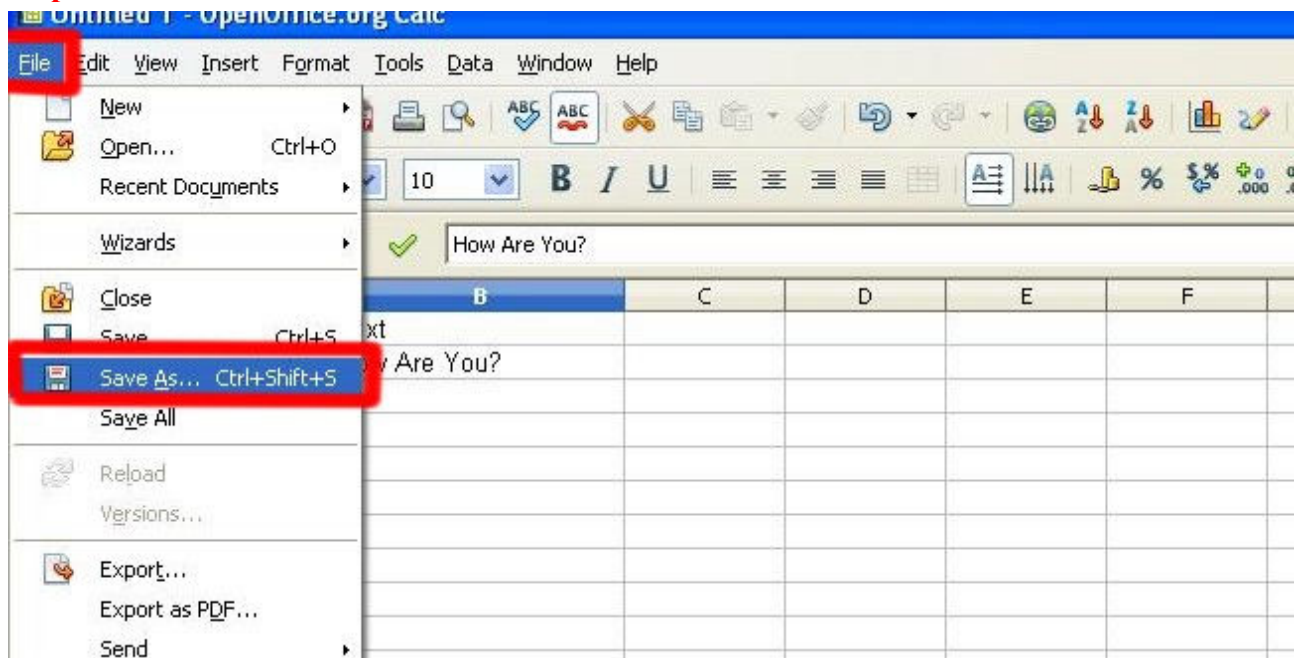
Step 3

BLANK A: is for you to key “phone numbers”

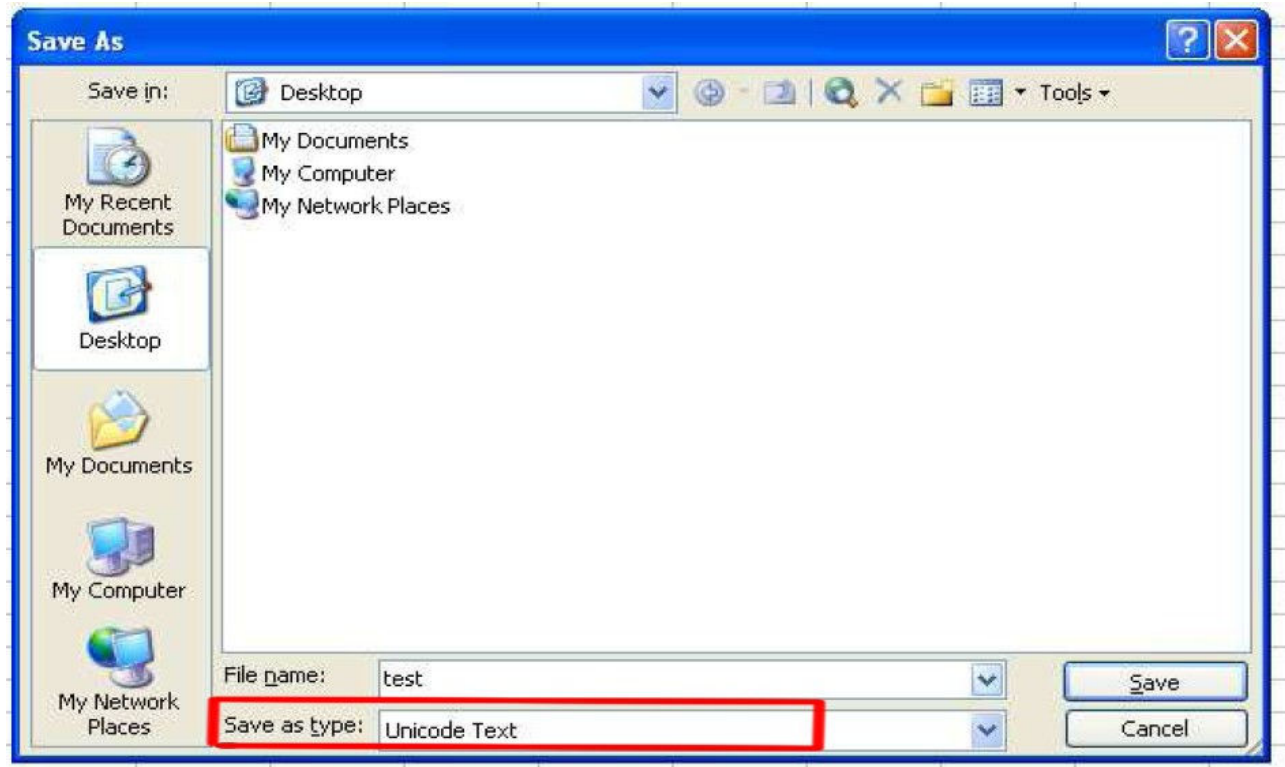
BLANK B: is for you to key “text”



Step 4 Save the file

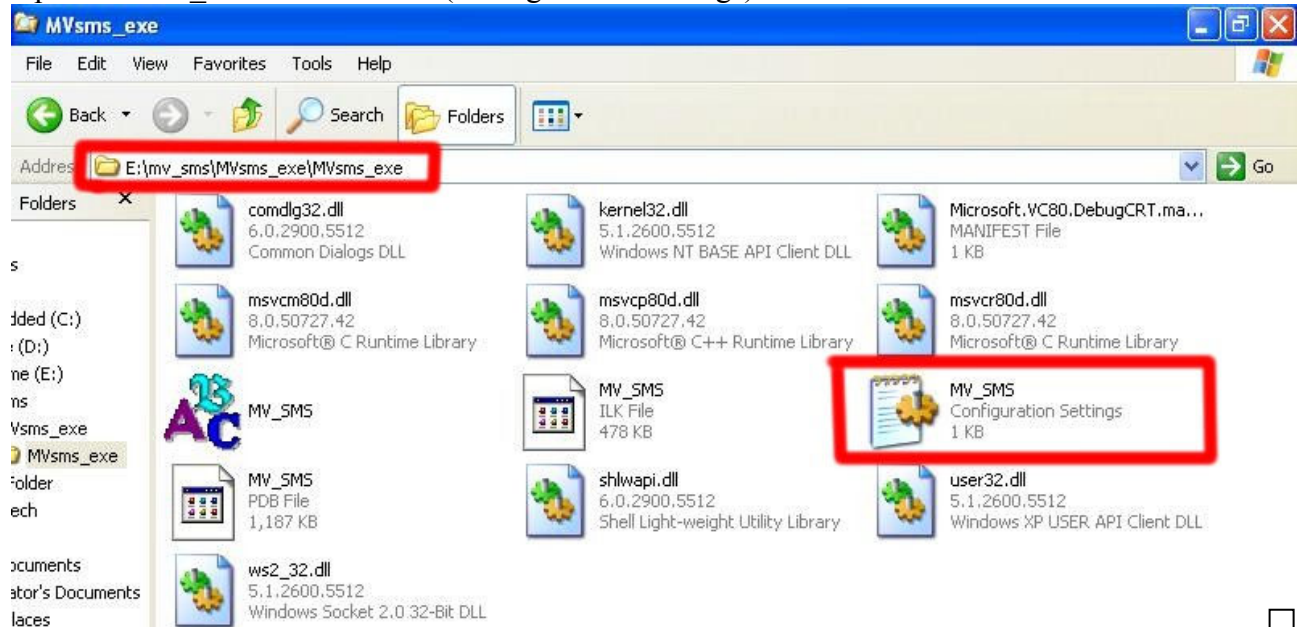


Save the type as “**Unicode Text**”



Step 5

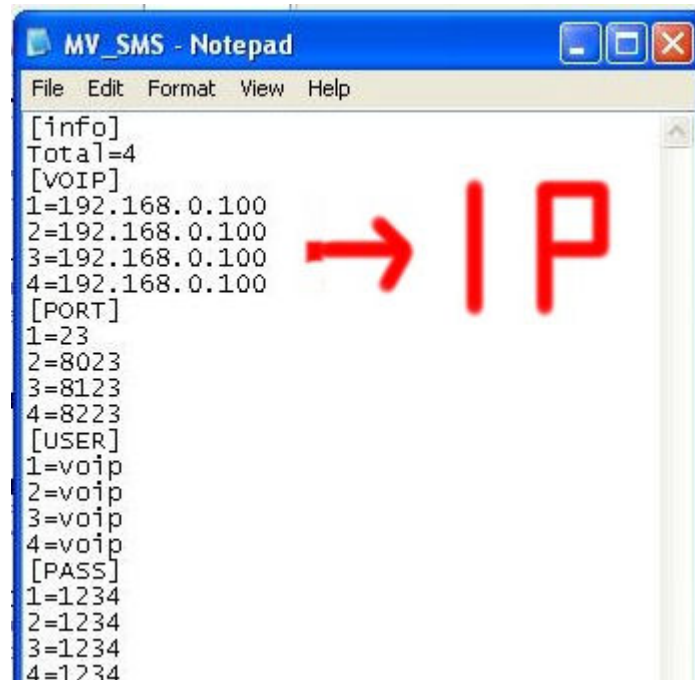
Open MVsms_exe -> MV-SMS (Configuration Settings)



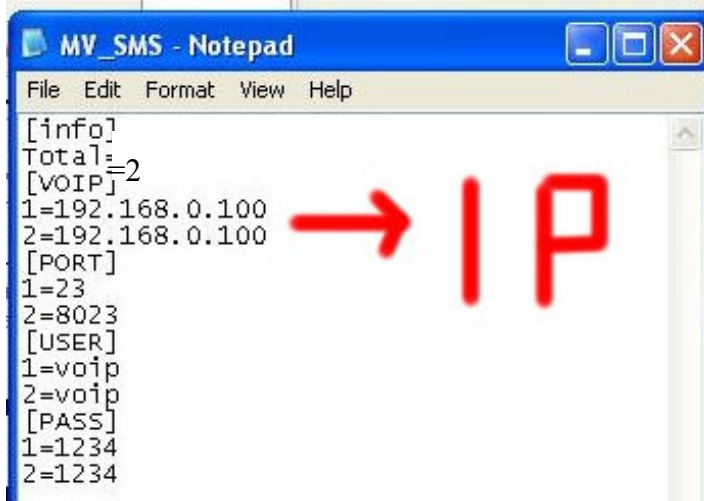
Step 6

Please do the configuration as following:

MV-378

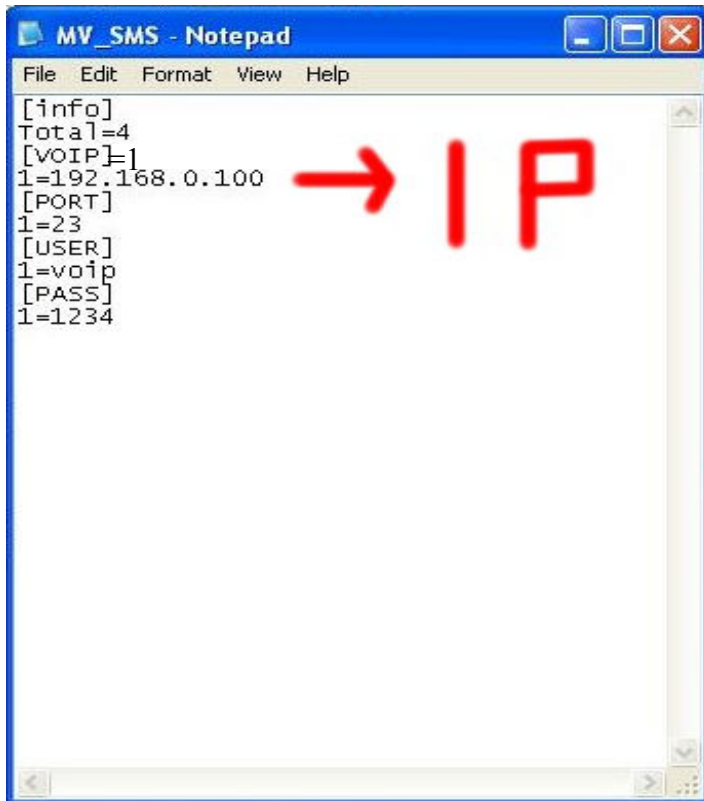


MV-374



```
[info]
Total=2
[VOIP]
1=192.168.0.100
2=192.168.0.100
[PORT]
1=23
2=8023
[USER]
1=voip
2=voip
[PASS]
1=1234
2=1234
```

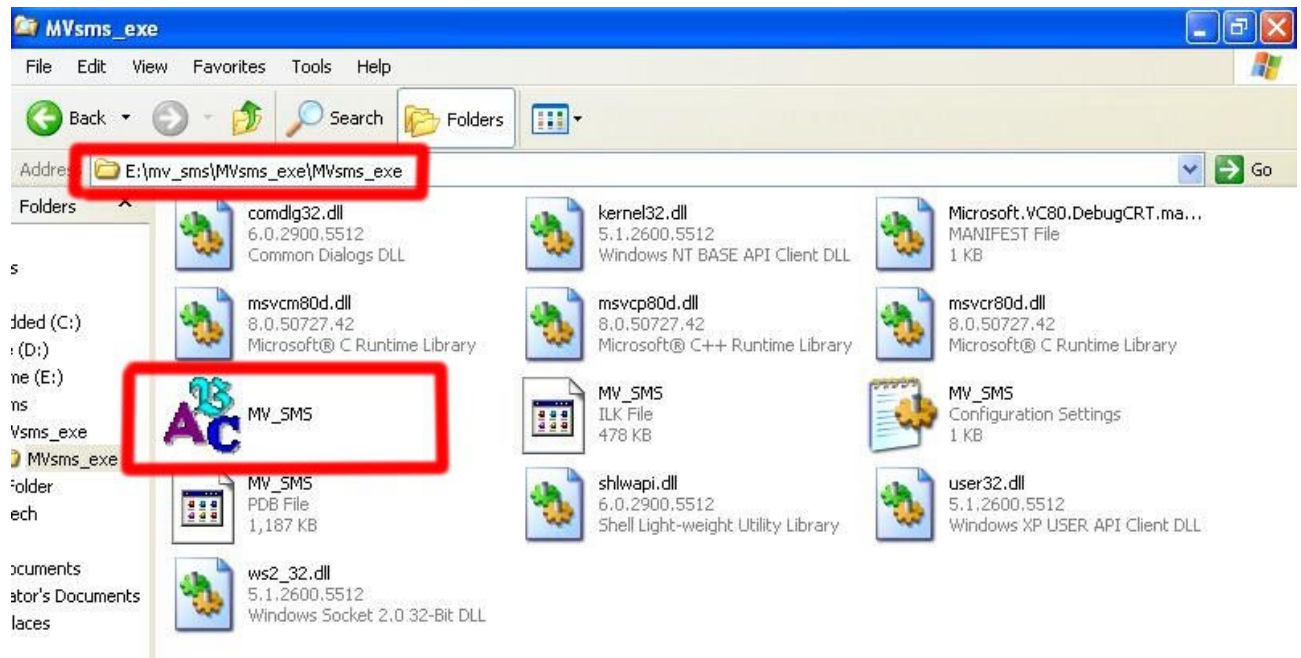
MV-372 & MV-370



```
[info]
Total=4
[VOIP]=1
1=192.168.0.100
[PORT]
1=23
[USER]
1=voip
[PASS]
1=1234
```

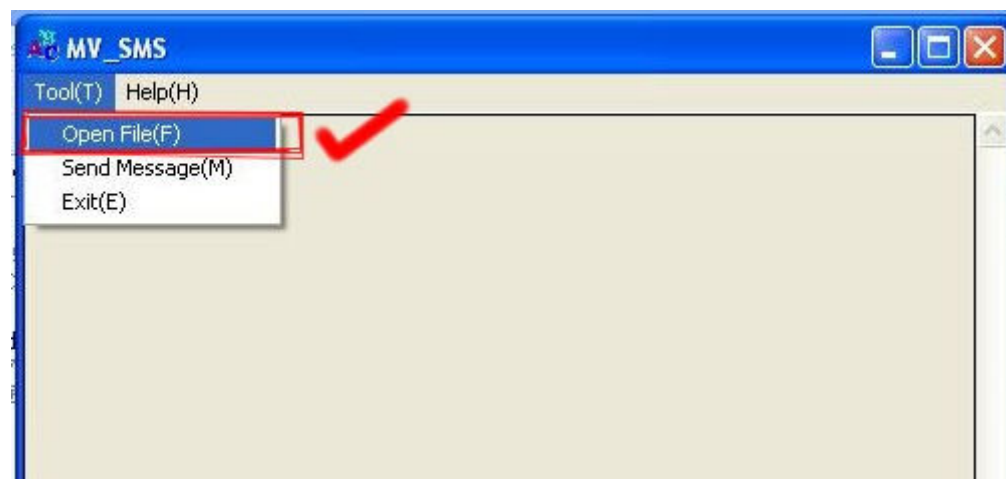
Step 7

Run MV-SMS program

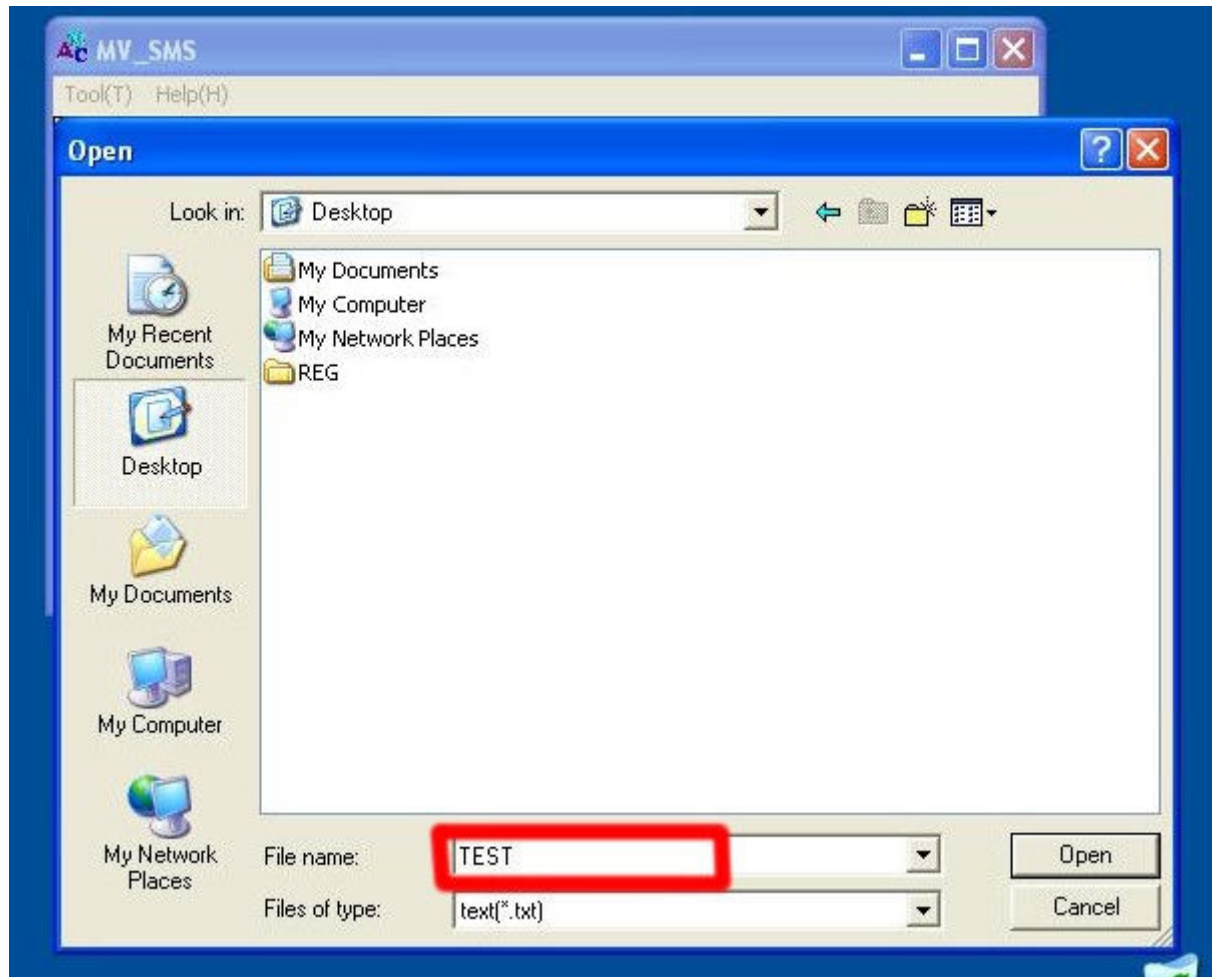


Step 8

1. Open File

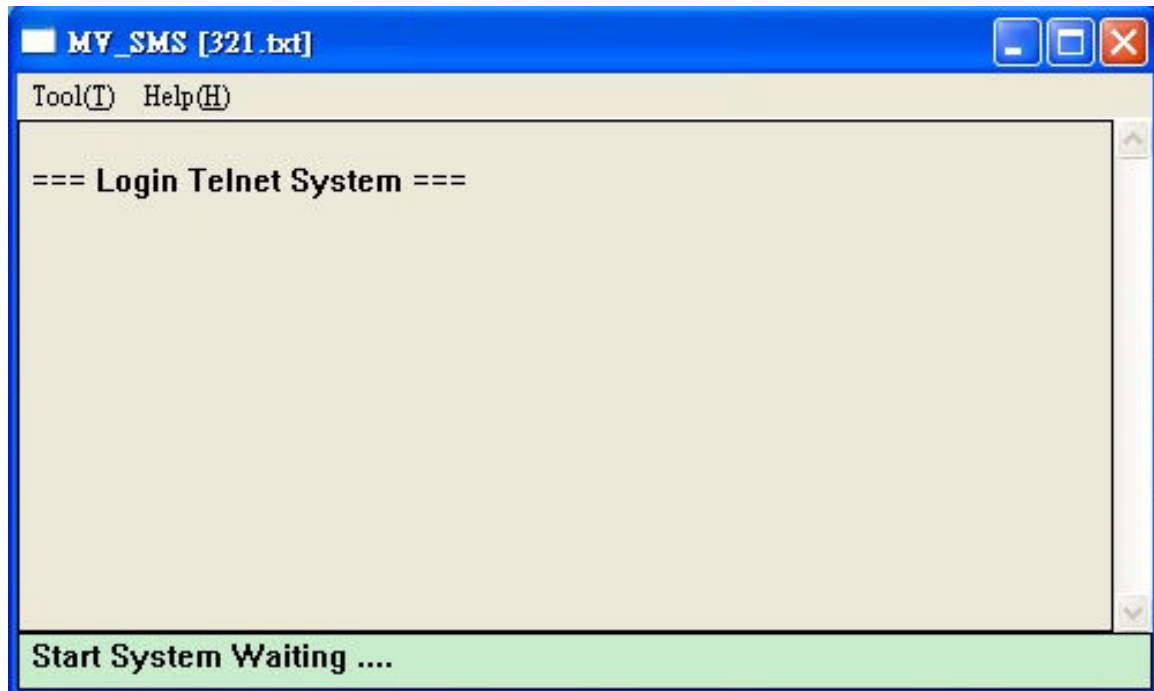


2. Open the “Excel file” that you just saved



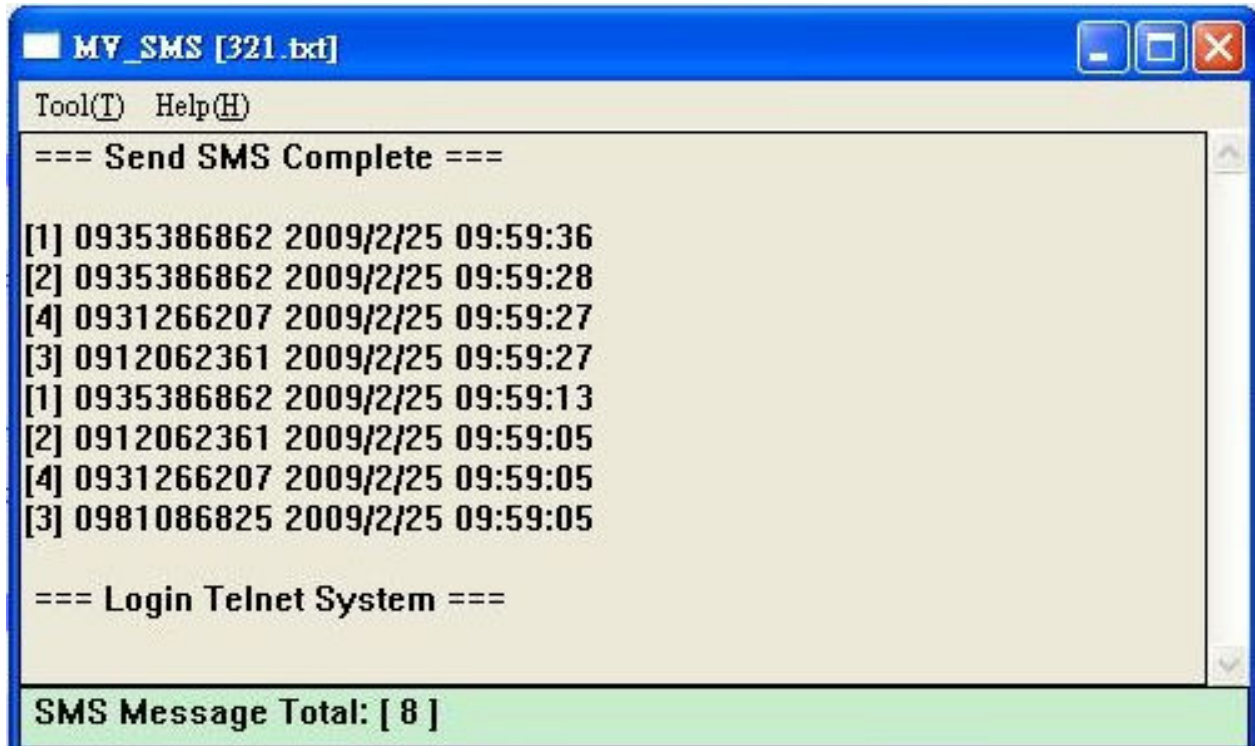
Step 9

Sending



Step 10

Send SMS Complete



11.6 use AT Command via Telnet or your program

Allows your program or Telnet Send/receive SMS with AT Command
Port: 23

```
username: voip  
password: ****  
user level = 1.
```

Please enter account
and password

```
command: logout, module, module1, module2.  
>module1  
getting module 1 ...  
got!! press 'ctrl-x' to release module 1.
```

Choose module

```
0  
ate1  
0  
at+cmgf=1  
0
```

Enter "ate1", then you can see
your at command below

```
at+cmgs="0911123456"  
>  
test  
>  
+CMGS: 30  
0
```

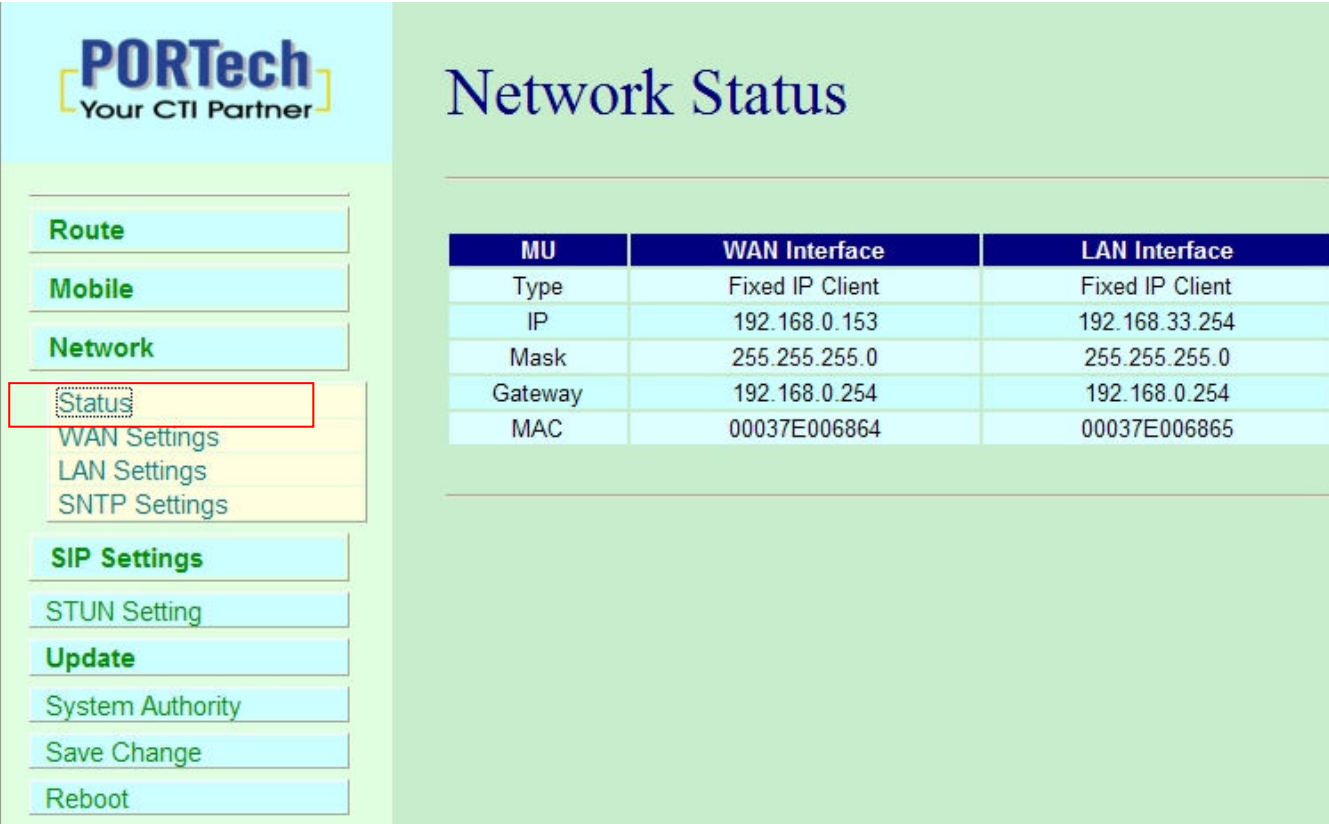
Enter at+cmgs="phone number"

Enter short message and ctrl+Z

12. Network

In Network you can check the Network status, configure the WLAN Settings, LAN Setting and SNTP settings.

12.1 Network Status: You can check the current Network setting in this page.



PORTech
Your CTI Partner

Network Status

MU	WAN Interface	LAN Interface
Type	Fixed IP Client	Fixed IP Client
IP	192.168.0.153	192.168.33.254
Mask	255.255.255.0	255.255.255.0
Gateway	192.168.0.254	192.168.0.254
MAC	00037E006864	00037E006865

12.2 WAN Settings

PORTech
Your CTI Partner

Route

Mobile

Network

Status

WAN Settings

LAN Settings

SNTP Settings

SIP Settings

NAT Transform

Update

System Authority

Save Change

Reboot

WAN Settings

You could configure the WAN settings in this page.

Network Mode: ☐ Bridge ☒ NAT

WAN Setting	
IP Type	<input checked="" type="radio"/> Fixed IP <input type="radio"/> DHCP Client <input type="radio"/> PPPoE
IP	<input type="text" value="192.168.0.122"/>
Mask	<input type="text" value="255.255.255.0"/>
Gateway	<input type="text" value="192.168.0.254"/>
DNS Server1	<input type="text" value="168.95.192.1"/>
DNS Server2	<input type="text" value="168.95.1.1"/>
MAC	<input type="text" value="00037e009999"/>

PPPoE Setting	
User Name	<input type="text"/>
Password	<input type="password"/>

- (1) The TCP/IP Configuration item is to setup the WAN port's network environment. You may refer to your current network environment to configure the system properly.
- (2) The PPPoE Configuration item is to setup the PPPoE Username and Password. If you have the PPPoE account from your Service Provider, please input the Username and the Password correctly.
- (3) The Bridge Item is to setup the system Bridge mode Enable/Disable. If you set the Bridge On, then the two Fast Ethernet ports will be transparent.
- (4) When you finished the setting, please click the Submit button.

12.3 LAN Settings

PORTech
Your CTI Partner

Route

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Status

WAN Settings

LAN Settings

SNTP Settings

SIP Settings

NAT Transform

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System Authority

Save Change

Reboot

LAN Settings

LAN Setting	
IP:	192.168.0.102
Mask:	255.255.255.0
MAC:	00037e008888

DHCP Server	
DHCP Server:	<input type="radio"/> On <input checked="" type="radio"/> Off
Start IP:	150
End IP:	200
Lease Time:	1 : 0 (dd:hh)

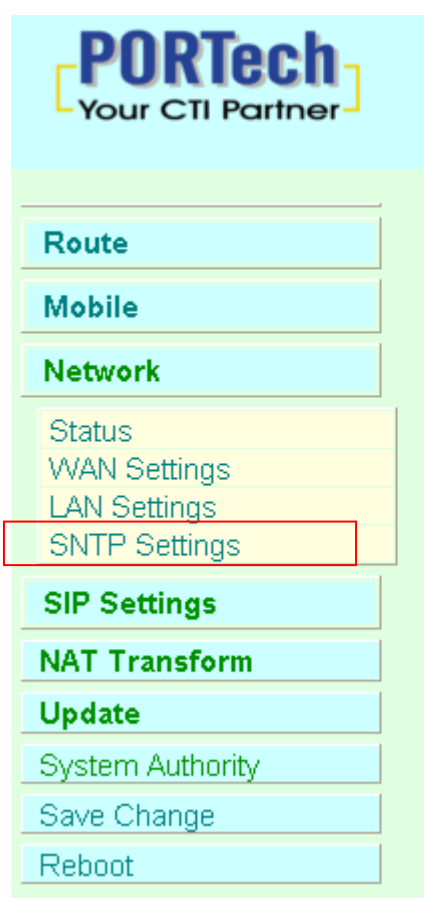
Submit

Reset

- (1) The TCP/IP Configuration item is to setup the WAN port's network environment. You may refer to your current network environment to configure the system properly.
- (2)DHCP Server: You may refer to your current network environment to configure the system properly

12.4 SNTP Settings:

SNTP Setting function: you can setup the primary and second SNTP Server IP Address, to get the date/time information. Also you can base on your location to set the Time Zone, and how long need to synchronize again. When you finished the setting, please click the Submit button.



SNTP Settings

You could set the SNTP servers in this page.

SNTP: ☒ On ☐ Off

Primary Server:

Secondary Server:

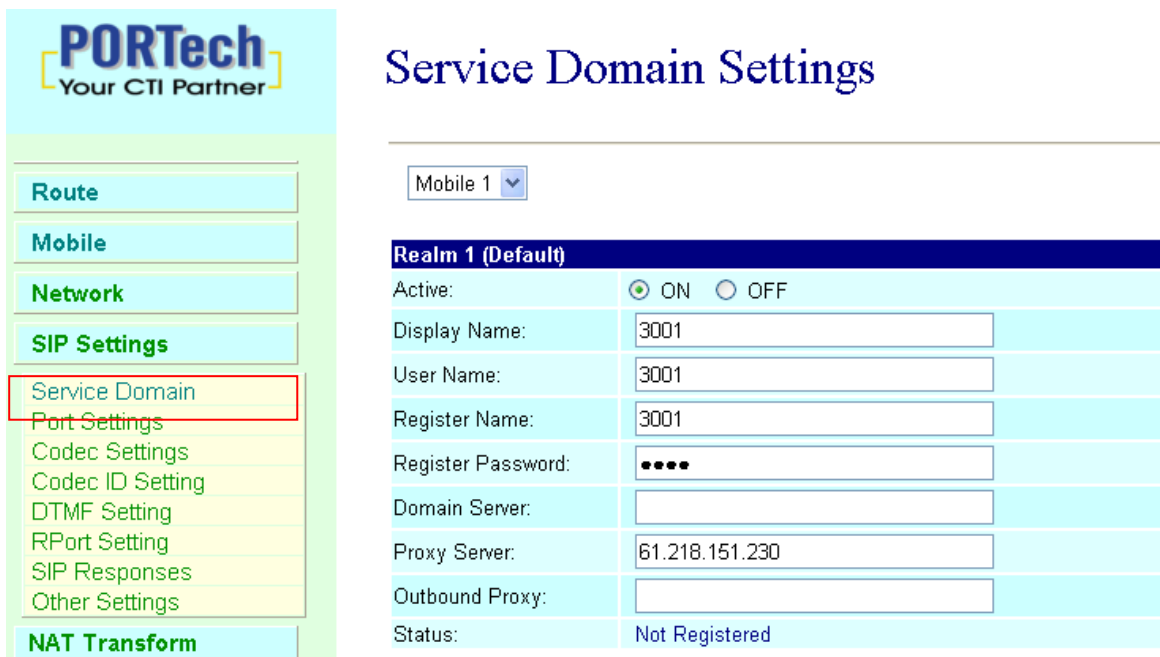
Time Zone: GMT - : (hh:mm)

Sync. Time: : : (dd:hh:mm)

13. SIP Setting

In SIP Setting you can setup the Service Domain, Port Settings, Codec Settings, RTP setting, RPort Setting and Other Settings. If the VoIP service is provided by ISP, you need to setup the related informations correctly then you can register to SIP Proxy Server correctly.

13.1 In Service Domain Function you need to input the account and the related informations in this page, please refer to your ISP Provider. You can register three SIP accounts. You can dial the VoIP phone to your friends via first enable SIP account and receive the phone from the tree SIP account.



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Your CTI Partner

Route
Mobile
Network
SIP Settings
Service Domain
Port Settings
Codec Settings
Codec ID Setting
DTMF Setting
RPort Setting
SIP Responses
Other Settings
NAT Transform

Service Domain Settings

Mobile 1 ▼

Realm 1 (Default)	
Active:	<input checked="" type="radio"/> ON <input type="radio"/> OFF
Display Name:	<input type="text" value="3001"/>
User Name:	<input type="text" value="3001"/>
Register Name:	<input type="text" value="3001"/>
Register Password:	<input type="password" value="****"/>
Domain Server:	<input type="text"/>
Proxy Server:	<input type="text" value="61.218.151.230"/>
Outbound Proxy:	<input type="text"/>
Status:	Not Registered

First you need to click Active to enable the Service Domain, then you can input the following items.

- (1) No.: choose Mobile 1 or Mobile 2
- (2) Display name: you can input the name you want to display.
- (3) User name: you need to input the User Name get from your ISP.
- (4) Register Name: you need to input the Register Name get from your ISP.

-
- (5) Register Password: you need to input the Register Password get from ISP.
 - (6) Domain Server: you need to input the Domain Server get from your ISP.
 - (7) Proxy Server: you need to input the Proxy Server get from your ISP.
 - (8) Outbound Proxy: you need to input the Outbound Proxy get from your ISP. If your ISP does not provide the information, then you can skip this item.
 - (9) You can see the Register Status in the Status item.
 - (10) When you finished the setting, please click the Submit button.
Remember to click "Save Charge"

Example:

Register VoipBuster

Realm 1 (Default)	
Active:	<input checked="" type="radio"/> On <input type="radio"/> Off
Display Name:	<input type="text" value="jenny0922"/>
User Name:	<input type="text" value="jenny0922"/> Your Voipbuster username
Register Name:	<input type="text" value="jenny0922"/>
Register Password:	<input type="password" value="****"/> Your Voipbuster password
Domain Server:	<input type="text"/>
Proxy Server:	<input type="text" value="194.221.62.207"/> Proxy Server's IP or domain name
Outbound Proxy:	<input type="text"/>
Status:	Registered

13.2 Port Setting

You can setup the SIP and RTP port number in this page. Each ISP provider will have different SIP/RTP port setting, please refer to the ISP to setup the port number correctly. When you finished the setting, please click the Submit button.

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Your CTI Partner

Route

Mobile

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SIP Settings

Service Domain

Port Settings

Codec Settings

Codec ID Setting

DTMF Setting

RPort Setting

SIP Responses

Other Settings

STUN Setting

Update

System Authority

Save Change

Reboot

Ports Setting

Port of Mobile 1

SIP Port: (1024~65533)

RTP Port: ~ (1024~65533)

Port of Mobile 2

SIP Port: (1024~65533)

RTP Port: ~ (1024~65533)

13.3 Codec Settings:

You can setup the Codec priority, RTP packet length in this page. You need to follow the ISP suggestion to setup these items. When you finished the setting, please click the Submit button.

PORTech
Your CTI Partner

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SIP Settings

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Port Settings

Codec Settings

Codec ID Setting

DTMF Setting

RPort Setting

SIP Responses

Other Settings

NAT Transform

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System Authority

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Codec Settings

Codec Priority	
Codec Priority 1:	G.711 u-law ▾
Codec Priority 2:	G.711 a-law ▾
Codec Priority 3:	G.723 ▾
Codec Priority 4:	G.729 ▾
Codec Priority 5:	G.726 - 16 ▾
Codec Priority 6:	G.726 - 24 ▾
Codec Priority 7:	G.726 - 32 ▾
Codec Priority 8:	G.726 - 40 ▾


RTP Packet Length	
G.711 & G.729:	20 ms ▾
G.723:	30 ms ▾

G.723 5.3K	
G.723 5.3K:	<input type="radio"/> On <input checked="" type="radio"/> Off

Voice VAD	
Voice VAD:	<input type="radio"/> On <input checked="" type="radio"/> Off

13.4 Codec ID Setting

You can setup the Codec ID in this page.



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Port Settings

Codec Settings

Codec ID Setting

DTMF Setting

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Codec ID Setting

You could set the value of Codec ID in this page.

Codec Type	ID	Default Value
G726-16 ID:	<input type="text" value="23"/> (95~255)	<input checked="" type="checkbox"/> 23
G726-24 ID:	<input type="text" value="22"/> (95~255)	<input checked="" type="checkbox"/> 22
G726-32 ID:	<input type="text" value="2"/> (95~255)	<input checked="" type="checkbox"/> 2
G726-40 ID:	<input type="text" value="21"/> (95~255)	<input checked="" type="checkbox"/> 21
RFC 2833 ID:	<input type="text" value="101"/> (95~255)	<input checked="" type="checkbox"/> 101

13.5 DTMF Setting

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Your CTI Partner

DTMF Setting

DTMF Transfer Mobile to LAN

Format: ☒ 2833 ☐ Inband ☐ SIP Info

Mobile DTMF Detection

Duration: (0 ~ 999, -1: unlimit, unit: 1s) .

Debounce: (40 ~ 500, default: 80 , unit: 10ms).

Route

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SIP Settings

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Codec Settings

Codec ID Setting

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1. Format:
 - a. 2833: Default RFC2833, the type of DTMF Data Transfer Format
 - b. Inband: The Type of Inband DMTF Data Transfer Format
 - c. SIP Info: The Type of SIP-Info DMTF Data Transfer Format;
2. Duration: Default is -1. It's the duration for MV-374/MV-378 to detect sender's DTMF. If the parameter is 0, MV-374/MV-378 won't detect sender's DTMF. Parameter is 0~999 seconds. After that duration, MV-374/MV-378 won't detect DTMF.
3. Debounce: Default is 80ms. User can adjust for own. If DTMF is adding more digits, please increase parameter over 80. If DMTF is lost digit, please decrease parameter less than 80.

13.6 RPort Function:

You can setup the RPort Enable/Disable in this page. To change this setting, please follow your ISP information. When you finished the setting, please click the Submit button.



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SIP Settings

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Port Settings

Codec Settings

Codec ID Setting

DTMF Setting

RPort Setting

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Reboot

RPort Setting

RPort of Mobile 1:	<input checked="" type="radio"/> On <input type="radio"/> Off
RPort of Mobile 2:	<input checked="" type="radio"/> On <input type="radio"/> Off

13.7 SIP Responses

PORTech
Your CTI Partner

SIP Responses Setting

Route

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Network

SIP Settings

Service Domain

Port Settings

Codec Settings

Codec ID Setting

DTMF Setting

RPort Setting

SIP Responses

Other Settings

STUN Setting

Update

System Authority

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Reboot

Response on port busy.

<input checked="" type="radio"/> 486	Busy here
<input type="radio"/> 503	Service unavailable

SIP Responses

<input type="radio"/> ON <input checked="" type="radio"/> OFF	180 Ringing (Force to ON, if 183 was OFF.)
<input checked="" type="radio"/> ON <input type="radio"/> OFF	183 Session Progress

Dial Peer

<input checked="" type="radio"/> ON <input type="radio"/> OFF	<input type="text" value="192.168.0.156:5060"/> (Dial Peer for XP)
---	--

Call data to se

<input checked="" type="radio"/> Yes <input type="radio"/> No	Send Call Events to Data S
Data ID	<input type="text" value="Mv153"/>
Data Server	<input type="text" value="192.168.0.156:5020"/> (URL:Port)

Dial Peer Configuration Table corresponding IP
(please read next page)

***** If you have dial peer server, Sip
server/Asterisk set GSM route,please set Dial
Peer server's IP****

13.7.1 486(busy here), 503(Service unavailable):

When Device is busy, you can select 486 or 505 to response to SIP.

13.7.2 180 Ring on/off:

LAN TO MOBILE two stage dialing can be turn off, therefore there will be no the Ring Back Tone, all the phone call will be transferred to prompt voice directly. (For this function, 183 must be turn on)

13.7.3 183(Session Progress)

[It means "on progressing"]: When you turn 183 on, it means you can hear the prompt voice while GSM side is busy We recommend you to turn this on if you use SIP Proxy.

13.7.4 Dial Peer

LAN to mobile: Dial peer software will look for available channel to dial out. E.g When the first port is busy, MV-378 will use the second port to dial out...and so forth.

13.7.5 Call data to server

MV can provide Call Detail Record (CDR) for traffic and accounting management. User need to download external Dial Peer software on PC and can monitor traffic.

Data ID: MV will create one default Data ID

Data Server: Please fill the PC's IP, which is executed External Dial Peer Software

Edit DialPeer.ini

[Window]

Xpos=512

Ypos=252

Width=471

Height=399

[Info]

Total=16

[VoipIP]

1=192.168.0.100

2=192.168.0.100

3=192.168.0.100

4=192.168.0.100

5=192.168.0.100

6=192.168.0.100

7=192.168.0.100

8=192.168.0.100

9=192.168.0.110

10=192.168.0.110

11=192.168.0.110

12=192.168.0.110

13=192.168.0.110

14=192.168.0.110

15=192.168.0.110

16=192.168.0.110

[SipPort]

1=5060

2=5062

3=5064

4=5066

5=5068

6=5070

7=5072

8=5074

9=5060

10=5062

11=5064

12=5066

13=5068

Total ip / port

The first
MV-378

The second
MV-378

The first
MV-378

The second
MV-378

14=5070

15=5072

16=5074

[RtpPort]

1=60000

2=60002

3=60004

4=60006

5=60008

6=60010

7=60012

8=60014

9=60000

10=60002

11=60004

12=60006

13=60008

14=60010

15=60012

16=60014

[PtcPort]

1=40000

2=40000

3=40008

4=40008

5=40016

6=40016

7=40024

8=40024

9=40000

10=40000

11=40008

12=40008

13=40016

14=40016

15=40024

16=40024

The second
MV-378

The first
MV-378

The second
MV-378

The first
MV-378

The second
MV-378

Log

The screenshot shows the "Dial Peer - (Oct 29 2008, 14:54:07)" window. The "Log" tab is selected, displaying a table of events:

*	DateTime	Event
	08/10/29 15:11:08	Start SIP Server (192.168.0.3:5060)
	08/10/29 15:11:08	Start STUN server (port 3478, 3479)
	08/10/29 15:13:14	CH-11 idle
	08/10/29 15:16:02	192.168.0.191:5060 -> CH-11
	08/10/29 15:16:53	CH-11 idle
	08/10/29 17:23:45	CH-11 idle
	08/10/29 17:47:22	192.168.0.92:1398 -> CH-11
	08/10/29 17:47:51	CH-11 idle
	08/10/29 17:47:55	192.168.0.92:1398 -> CH-11
	08/10/29 17:48:17	CH-11 idle
	08/10/29 17:48:23	192.168.0.92:1398 -> CH-11
	08/10/29 17:48:45	CH-11 idle

The bottom status bar displays "08/11/04 15:06:48".

Status

Dial Peer - (Oct 29 2008, 14:54:07)


File Help

Log	Status	Set			
CH	Mv IP	port	state	remote	
1	192.168.0.100	5060	-s-	-r-	The first MV-378 doesn't register dial peer software
2	192.168.0.100	5062	-s-	-r-	
3	192.168.0.100	5064	-s-	-r-	
4	192.168.0.100	5066	-s-	-r-	
5	192.168.0.100	5068	-s-	-r-	
6	192.168.0.100	5070	-s-	-r-	
7	192.168.0.100	5072	-s-	-r-	
8	192.168.0.100	5074	-s-	-r-	
9	192.168.0.110	5060	OFF/0	-r-	The 2,3ch of Second MV-378 idle
10	192.168.0.110	5062	IDLE/0	-r-	
11	192.168.0.110	5064	IDLE/1	-r-	
12	192.168.0.110	5066	OFF/0	-r-	The 1,4-8ch of Second MV-378 turn off
13	192.168.0.110	5068	OFF/0	-r-	
14	192.168.0.110	5070	OFF/0	-r-	
15	192.168.0.110	5072	OFF/0	-r-	
16	192.168.0.110	5074	OFF/0	-r-	

08/11/04 15:07:14

13.8 Other Settings

Other Settings: you can setup the Hold by RFC and QoS in this page. To change these settings, please following your ISP information. When you finished the setting, please click the Submit button. The QoS setting is to set the voice packets' priority. If you set the value higher than 0, then the voice packets will get the higher priority to the Internet. But the QoS function still need to cooperate with the others Internet devices.


Your CTI Partner

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Codec Settings

Codec ID Setting

DTMF Setting

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Other Settings

Hold by RFC of Mobile 1 ☐ On ☒ Off

Hold by RFC of Mobile 2 ☐ On ☒ Off

Voice QoS: (0~63)

SIP QoS: (0~63)

SIP Expire Time: (60~86400 sec)

Submit

Reset

14. NAT Trans

In NAT Trans. you can setup STUN and uPnP function. These functions can help your VoIP device working properly behind NAT.

14.1 STUN Setting: you can setup the STUN Enable/Disable and STUN Server IP address in this page. This function can help your VoIP device working properly behind NAT. To change these settings please following your ISP information. When you finished the setting, please click the Submit button.



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Your CTI Partner

- Route
- Mobile
- Network
- SIP Settings
- NAT Transform
- STUN Setting**
- Update
- System Authority
- Save Change
- Reboot

STUN Setting

STUN of Mobile 1	<input type="radio"/> On <input checked="" type="radio"/> Off
STUN of Mobile 2	<input type="radio"/> On <input checked="" type="radio"/> Off

STUN Server	<input type="text" value="stun.xten.com"/>
-------------	--

STUN Port	<input type="text" value="3478"/> (1024~65535)
-----------	--

15. Update

In Update you can update the system's firmware to the new one or execute the factory reset to let the system back to default setting.

15.1 Update firmware

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Your CTI Partner

Update Firmware

Ver = v10.115 , GZ = Mv , PCB = 2N149A .

HTTP

Code Type:

File Location: 瀏覽...

Route

Mobile

Network

SIP Settings

STUN Setting

Update

New Firmware

Default Settings

System Authority

Save Change

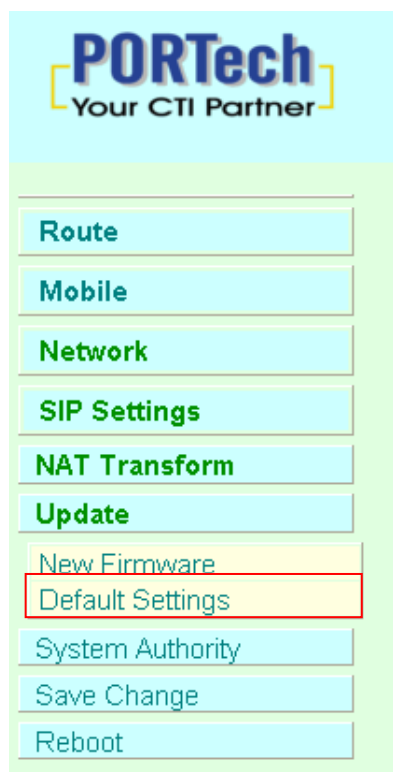
Reboot

- (1) Select the firmware code type, Risc code only.
- (3) Click the "Browse" button in the right side of the File Location or you can type the correct path and the filename in File Location blank.
- (4) Select the correct file you want to download to the system then click the Update button.
- (5) Please click update/default setting after update firmware

NOTE: Please open the webpage from Internet Explorer, not compatible with FF or Google Chrome

15.2 Restore Default Settings

In this page: Update/ Default Settings, you could restore the factory default settings to the system. **All setting will restore default setting.**
IP will retain original IP as usual not default IP.



Restore Default Settings

You could click the restore button to restore the factory settings.

Restore default settings:

16. System Auth.

In System Authority you can change your login name and password.



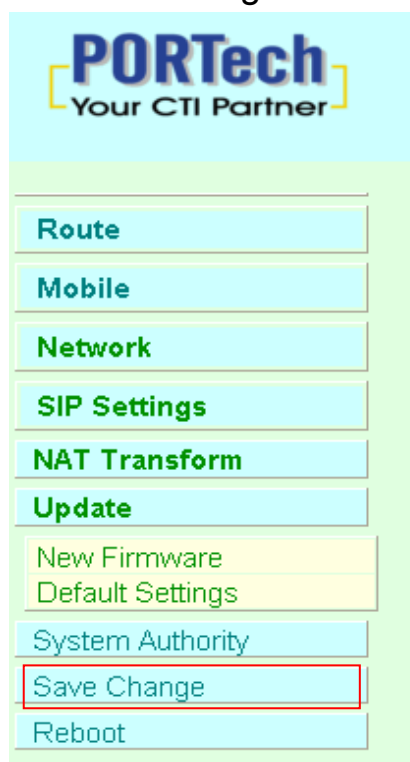
System Authority

You could change the login username/password in this page.

New username:	<input type="text"/>
New password:	<input type="password"/>
Confirmed password:	<input type="password"/>
<input type="button" value="Submit"/> <input type="button" value="Reset"/>	

17. Save Change

In Save Change you can save the changes you have done. If you want to use new setting in the VoIP system, you have to click the Save button. After you click the Save button, the system will automatically restart and the new setting will effect.



Save Changes

You have to save changes to effect them.

Save Changes:

18. Reboot

Reboot function you can restart the system. If you want to restart the system, you can just click the Reboot button, then the system will automatically.



Reboot System

You could press the reboot button to restart the system.

Reboot system:

19. IP Setting

The operator can setup or query the network parameters by dialing in the mobile number which it SIM card has been put in the main body. The status or result is response by voice. In the first 20 seconds after power-on, the VoIP GSM Gateway enters the IP setting mode. The operator may dial in the mobile number during this period to set or query the network parameters.

Item	IVR Action	IVR Menu Choice	Notes
1	Reboot	#195#	After you hear "Option Successful," hang-up. Unit will reboot automatically.
2	Factory Reset	#198#	All setting (include IP) both restore to default setting. WARNING: ALL User-Changeable" NONDEFAULT SETTINGS WILL BE LOST! This will include network and service provider data.
3	Check IP Address	#120#	IVR will announce the current IP address , Default : 192.168.0.100
4	Check IP Type	#121#	IVR will announce if DHCP in enabled or disabled. default : OFF
5	Check Network Mask	#123#	IVR will announce the current network mask.Default : 255.255.255.0
6	Check Gateway IP Address	#124#	IVR will announce the current gateway IP address, Default : 192.168.0.254

7	Check Primary DNS Server	#125#	IVR will announce the current setting in the Primary DNS field. Default : 192.168.0.1
8	Check Firmware Version	#128#	IVR will announce the version of the firmware running
9	Set as DHCP client	#111#	The system will change to DHCP Client type
10	Set Static IP Address	#112xxx*xxx*xxx*xxx#	DHCP will be disabled and system will change to the Static IP type. Enter IP address using numbers on the telephone key pad. Use the * (star) key when entering a decimal point.
11	Set Network Mask	#113xxx*xxx*xxx*xxx#	Must set Static IP first. Enter value using numbers on the telephone key pad. Use the * (star) key when entering a decimal point.
12	Set Gateway IP Address	#114xxx*xxx*xxx*xxx#	Must set Static IP first. Enter IP address using numbers on the telephone key pad. Use the * (star) key when entering a decimal point.
13	Set Primary DNS Server	#115xxx*xxx*xxx*xxx#	Must set Static IP first. Enter IP address using numbers on the telephone key pad. Use the * (star) key when entering a decimal point.

20. Specification

20.1 Protocols

SIP (RFC2543,RFC3261)

20.2 TCP/IP

IP/TCP/UDP/RTP/RTCP/

CMP/ARP/RARP/SNTP

DHCP/DNS Client

IEEE802.1P/Q

ToS/DiffServ

NAT Traversal

STUN

uPnP

IP Assignment

Static IP

DHCP

PPPoE

20.3 Codec

G.711 u-Law

G.711 a-Law

G.723.1 (5.3k)

G.723.1 (6.3k)

G.729A

G.729A/B

20.4 Voice Quality

VAD

CNG

AEC, LEC

Packet loss

20.5 GSM (MV-370/MV-372)

Quad Band:900/1800/1900/850MHZ

3G/UMTS: for all world and Japan (SoftBank Mobile,Docomo)

3G:EDGE/GPRS 850, 900, 1800, 1900 MHz / HSDPA/UMTS 850, 1900, 2100 MHz

CDMA 2000(800MHZ/1900MHZ)

****Please note****

Most CDMA operators don't offer Polarity reversing . So VoIP to Mobile, MV-370 will connect soon. CDMA operators will start billing soon. It doesn't wait mobile side answer.

CDMA Version doesn't support SMS Feature and 180/183 unavailable

21. Simple Steps

Step 1. Change the Network setting as you need (Network/network setting)

Step 2. Register SIP proxy Server or Asterisk or VoipBuster as you need
(sip setting/service domain)

Step 3. Set Mobile setting –adjust your gain as you need

Step 4. Set Route (**request**)

mobile to LAN:	
(1)	* , * --->it is two stage dialing. when mobile call in,MV-370/MV-372 will provide dial tone and you can enter ip or asterisk extension or phone number. * If you want to enter phone number,please note your asterisk need to have route of destination number.
(2)	* , specific extension or IP or phone number when mobile call in,MV-370/MV-372 will connect with this specific extension or IP or phone number auto * If you want to set specific phone number,please note your asterisk need to have route of destination number.
LAN to Mobile:	
(1)	* , * --->it is two stage dialing. when LAN phone call in,MV-370/MV-372 will provide dial tone and you can enter mobile number.
(2)	* , specific mobile number when LAN phone call in,MV-370/MV-372 will connect with the specific mobile number auto.
(3)	* ,#--->It is 1 stage dialing When LAN phone and MV-370/MV-372 both register Asterisk, you can dial any destination number from LAN phone directly. * Please note:Asterisk need to set route of destination number that dial out from MV-370/MV-372

* All changes both need to click "save and change"

22. Appendix: Setup MV-370/MV-372 with Asterisk

MV-370/372 Settings

PORTech
Your CTI Partner

Route

Mobile

Status

Settings

Fwd Settings

SMS Agent

Network

SIP Settings

STUN Setting

Update

System Authority

Save Change

Reboot

Mobile Setting

Mobile 1, 2

VoIP Tx Gain:	9 (0~12)	VoIP Rx Gain:	11 (0~15)
LAN Dialtone Vol:	9 (0~12)		
Mobile 1 <input checked="" type="radio"/> ON <input type="radio"/> OFF			
Routing Range	0 to 49 (0~49)		
CODEC Tx Gain:	6 (0~7)	CODEC Rx Gain:	6 (0~7)
SIP From:	Tel/Tel (Not Reg)	Answer Delay	0 (0~15)
CLID Presentation	<input type="radio"/> Suppression <input checked="" type="radio"/> Invocation		
Mobile PIN Code:	On <input type="checkbox"/> Code:	Confirmed:	
LAN Answer Mode	<input checked="" type="radio"/> Answered <input type="radio"/> Alerted <input type="radio"/> Income		

Asterisk want to transfer CLID, please choose Tel/Tel (Not Reg)

Mobile Voip

Route

Mobile

Network

SIP Settings

Service Domain

Port Settings

Codec Settings

Codec ID Setting

DTMF Setting

RPort Setting

SIP Responses

Other Settings

STUN Setting

Service Domain Settings

Mobile 1

Realm 1 (Default)

Active: ☒ ON ☐ OFF

Display Name:

User Name:

Register Name:

Register Password:

Domain Server: 192.168.0.192:5060

Proxy Server: 192.168.0.192:5060

Outbound Proxy:

Status: Not Registered

Can register Asterisk or not

PORTech
Your CTI Partner

Route

Mobile To Lan Settings
Mobile To Lan Speed Dial
Lan To Mobile Settings
Dial Peer Status

Mobile

Network

SIP Settings

STUN Setting

Update

System Authority
Save Change
Reboot

Mobile To LAN Table

Mobile 1, 2 ▼

Page: 1 ▼

Set your Asterisk IP, extension or *

Item	CID	URL	Select
0	*	192.168.0.192	<input type="checkbox"/>
1			<input type="checkbox"/>
2			<input type="checkbox"/>
3			<input type="checkbox"/>
4			<input type="checkbox"/>
5			<input type="checkbox"/>
6			<input type="checkbox"/>
7			<input type="checkbox"/>
8			<input type="checkbox"/>
9			<input type="checkbox"/>

PORTech
Your CTI Partner

Route

Mobile To Lan Settings
Mobile To Lan Speed Dial
Lan To Mobile Settings
Dial Peer Status

Mobile

Network

SIP Settings

STUN Setting

Update

System Authority
Save Change
Reboot

LAN To Mobile Table

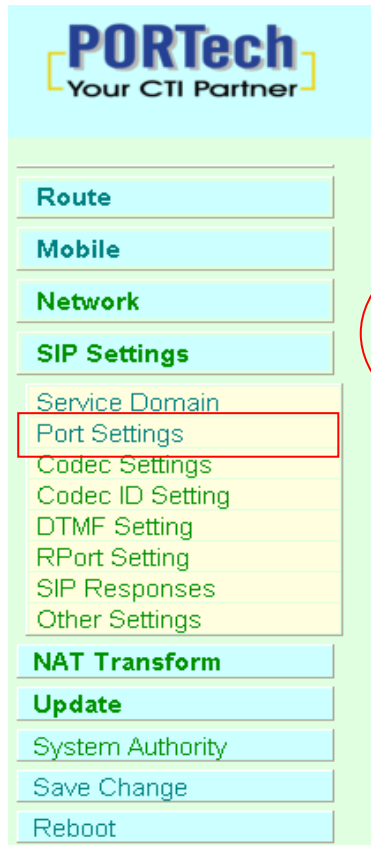
Mobile 1, 2 ▼

Page: 1 ▼

As Asterisk GSM
Route

Item	URL	Call Num	Select
0	*	#	<input type="checkbox"/>
1			<input type="checkbox"/>
2			<input type="checkbox"/>
3			<input type="checkbox"/>
4			<input type="checkbox"/>
5			<input type="checkbox"/>
6			<input type="checkbox"/>
7			<input type="checkbox"/>
8			<input type="checkbox"/>
9			<input type="checkbox"/>

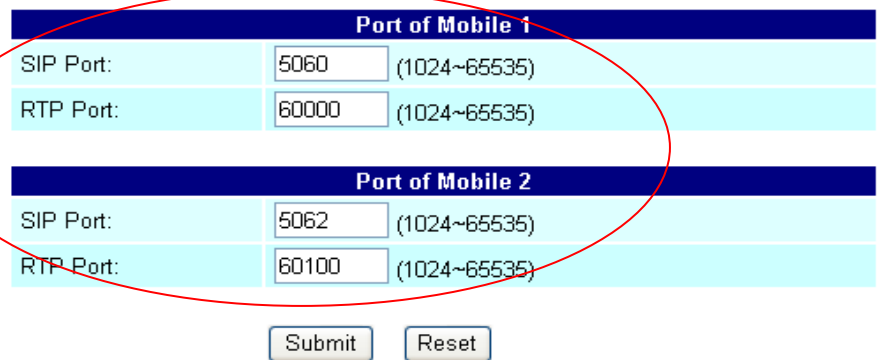
Port Settings:



PORTech
Your CTI Partner

- Route
- Mobile
- Network
- SIP Settings**
 - Service Domain
 - Port Settings**
 - Codec Settings
 - Codec ID Setting
 - DTMF Setting
 - RPort Setting
 - SIP Responses
 - Other Settings
- NAT Transform
- Update
- System Authority
- Save Change
- Reboot

Ports Setting



Port of Mobile 1		
SIP Port:	<input type="text" value="5060"/>	(1024~65535)
RTP Port:	<input type="text" value="60000"/>	(1024~65535)

Port of Mobile 2		
SIP Port:	<input type="text" value="5062"/>	(1024~65535)
RTP Port:	<input type="text" value="60100"/>	(1024~65535)

Mobile1 > Sip port: 5060

Mobile2 > Sip port: 5062 → Important!!!

Don't forget to Save changes and then reboot

Asterisk / Trixbox setting

Add SIP Trunk:

MV-372 must create 2 trunk.

First trunk: MV-372 ip:5060

Second Trunk: MV-372 ip:5062

Edit SIP Trunk

[Delete Trunk SIM1](#)

[In use by 1 route](#)

General Settings

[Outbound Caller ID:](#)

[Never Override CallerID:](#) ☐

[Maximum channels:](#)

Outgoing Dial Rules

[Dial Rules:](#)

Clean & Remove duplicates

[Dial rules wizards:](#)

[Outbound Dial Prefix:](#)

Type your mobile number

The image shows a configuration window titled "Outgoing Settings". It contains two main sections: "Trunk Name:" and "PEER Details:". The "Trunk Name:" field contains the text "SIM1" and is circled in red. A callout bubble points to this field with the text "Type a trunk name". The "PEER Details:" section contains a text area with the following text: "host=192.168.0.111", "port=5060", and "type=peer". This text area is enclosed in a red rectangular box. A callout bubble points to this box with the text "Type MV-37X's ip and port" and "The channel 2 is 5062 port" (where "5062" is in red). The window has a vertical scrollbar on the right side.

Outgoing Settings

Trunk Name:

PEER Details:

```
host=192.168.0.111
port=5060
type=peer
```

Type a trunk name

Type MV-37X's ip and port
The channel 2 is 5062 port

Set GSM Route that dial out via MV-37X

After change , please press “**Sumbit changes**” and “**apply configuration changes**”

freePBX 2.2.0rc3 on 192.168.0.192 | Setup | Tools | Reports | Panel | Recordings | freePBX

Language: English Setup

Apply Configuration Changes

Edit Route

Delete Route SIM1

Route Name: SIM1

Route Password:

Emergency Dialing: ☐

Intra Company Route: ☐

Dial Patterns

09XXXXXXXX

Clean & Remove duplicates

Insert:

Trunk Sequence

0 SIP/SIM1

Submit Changes

The prefix of route : 09XXXXXXXXX

Choose SIP Trunk

Frequency: Quad Band:900/1800/1900/850MHZ

GSM Module use Simcom sim340

Compliant to GSM phase 2/2+

-Class 4 (2W@850/900 MHz)

-Class 1 (1W@1800/1900 MHz)

15.21

Federal Communications Commission (FCC) Statement

You are cautioned that changes or modifications not expressly approved by the part responsible for compliance could void the user's authority to operate the equipment.

15.105(b)

Federal Communications Commission (FCC) Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Operation is subject to the following two conditions:

- 1) this device may not cause interference and
- 2) this device must accept any interference, including interference that may cause undesired operation of the device.

FCC RF Radiation Exposure Statement:

1. This Transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.
2. This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 centimeters between the radiator and your body.