

# MV-3716 / MV-3732

## VoIP GSM Gateway

### User Manual



MV-3716



MV-3732

**PulseSupply**  
pulsesupply.com

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## **1. Introduction**

MV-3716/MV-3732 is a 16 / 32 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 16 / 32 calls simultaneously from IP phones to GSM networks and GSM network to IP phone.

## **2. Function description**

2.1 VoIP(SIP) 、GSM 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 ,  
\*It communicates with other gateway or PC.

## **3. Parts list**

3.1 「MV-3716/MV-3732」 main body

3.2 Power adaptor

Output 12V/9A, Input 100~240V Auto switching

3.3 Network cable

3.4 Antenna: MV-3716: 4 pcs / MV-3732: 8 pcs

3.5 Rack-mount accessories (compatible with 19"Rack)

3.6 User Manual



(3.1) MV-3716



(3.1) MV-3732



(3.2) Power adapter



(3.3)



(3.4)

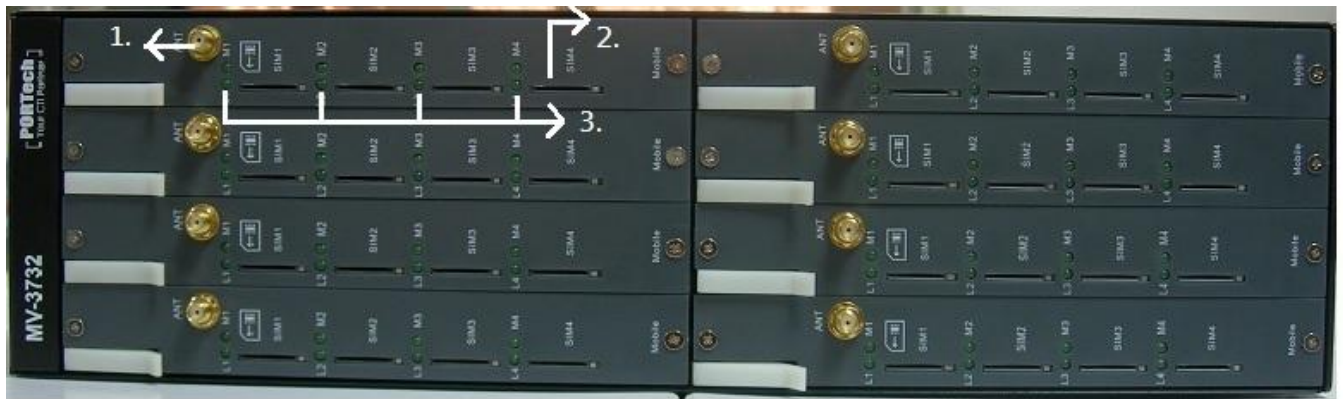


(3.5)

**4. Dimension: 37\*26\*10 cm**

---

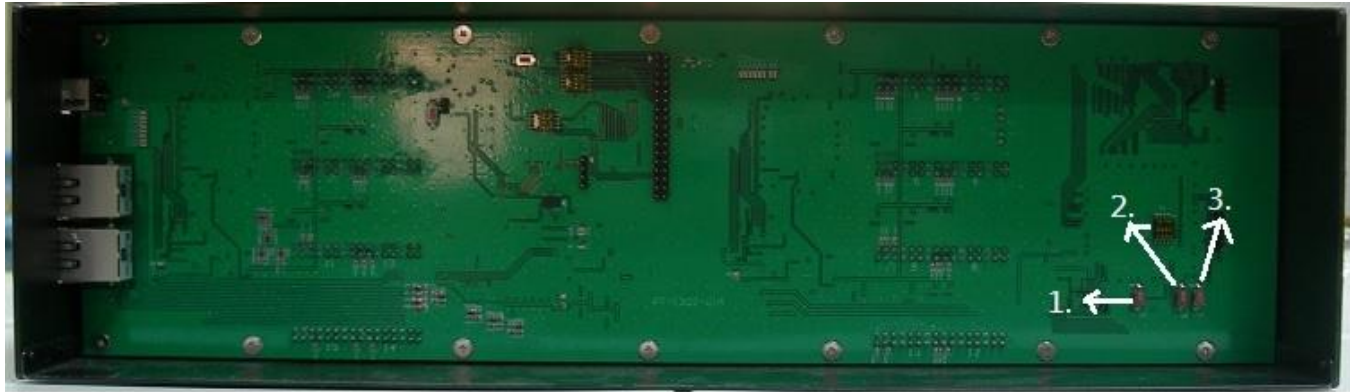
## 5. Chart of the device



- 1 Antenna : Antenna Connector
2. SIM Holder: Insert the SIM card as instruction and hear click sound (the chip side down); Press the SIM to bottom with click sound to remove the SIM card
3. PWR (Power LED) : Light up when power is normal.



1. DC 12V : Power input.
2. WAN: RJ-45 internet connector
3. LAN: For maintenance use, not for any propose



1. Dial Peer Reset Button
2. IP Reset Button:  
Press this button about 10 seconds  
IP restore back to 192.168.0.100
3. DHCP mode Button:  
Press this button about 10 seconds and switch to DHCP mode



---

## 6. 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 :



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

---

## 7. System Information

User can see the demo system current system information like firmware version, company... etc in this page.



The screenshot shows the PORTech web interface. At the top left is the logo "PORTech Your CTI Partner". Below it is a vertical menu of system information options: "Dial Peer" (highlighted in purple), "Status", "Settings", "Prefixes", "CDR", "Route", "Mobile", "Network", "SIP Settings", "STUN Setting", "Update", "System Authority", "Save Change", and "Reboot".

### MV-3732 v10.272

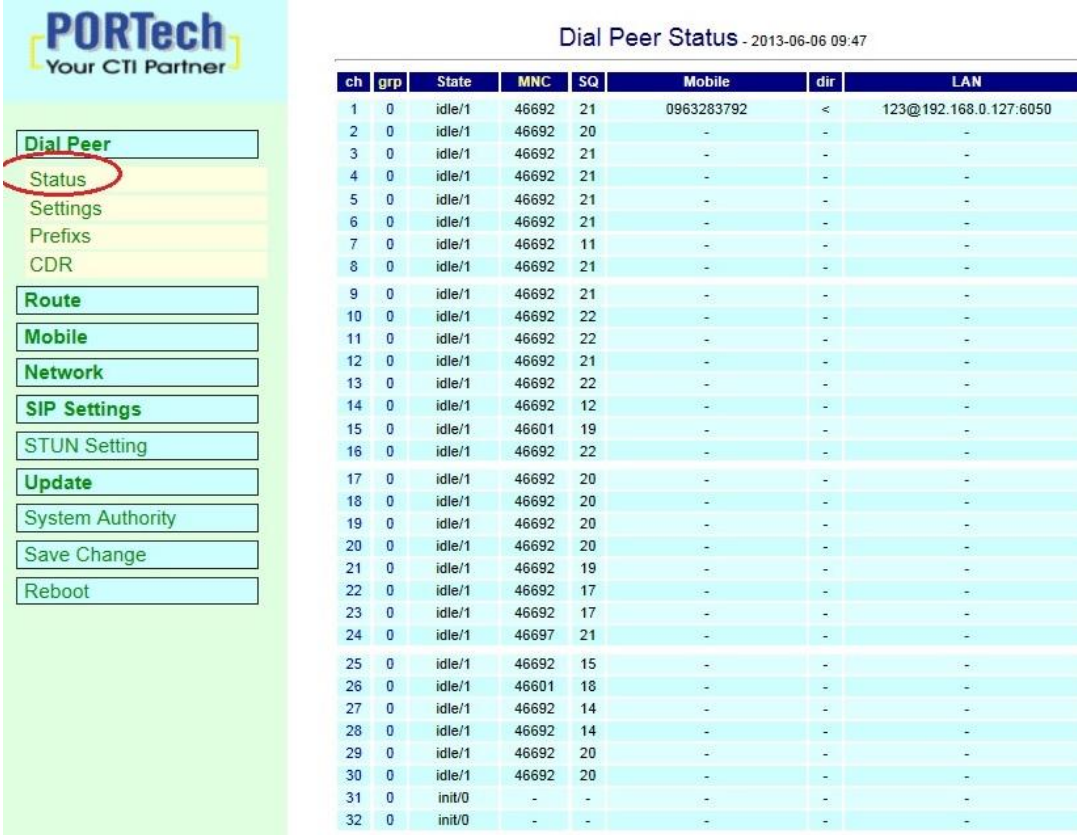
---

Module Description:	GSM:850/900/1800/1900MHz (M10)
Firmware Version:	Thu May 30 15:45:04 2013.
Codec Version:	Fri Mar 20 17:13:45 2009.
Contact Address:	150, Shiang-Shung N.Road., Taichung, Taiwan, R.O.C.
Tel:	☎ 886-4-23058000
Fax:	886-4-23022596
E-Mail:	<a href="mailto:sales@portech.com.tw">sales@portech.com.tw</a>
Web Site:	<a href="http://www.portech.com.tw">http://www.portech.com.tw</a>

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## 8. Dial Peer

### 8.1 Status



**PORTech**  
Your CTI Partner

**Dial Peer**

**Status**

Settings

Prefixes

CDR

**Route**

**Mobile**

**Network**

**SIP Settings**

STUN Setting

**Update**

System Authority

Save Change

Reboot

Dial Peer Status - 2013-06-06 09:47

ch	grp	State	MNC	SQ	Mobile	dir	LAN
1	0	idle/1	46692	21	0963283792	<	123@192.168.0.127:6050
2	0	idle/1	46692	20	-	-	-
3	0	idle/1	46692	21	-	-	-
4	0	idle/1	46692	21	-	-	-
5	0	idle/1	46692	21	-	-	-
6	0	idle/1	46692	21	-	-	-
7	0	idle/1	46692	11	-	-	-
8	0	idle/1	46692	21	-	-	-
9	0	idle/1	46692	21	-	-	-
10	0	idle/1	46692	22	-	-	-
11	0	idle/1	46692	22	-	-	-
12	0	idle/1	46692	21	-	-	-
13	0	idle/1	46692	22	-	-	-
14	0	idle/1	46692	12	-	-	-
15	0	idle/1	46601	19	-	-	-
16	0	idle/1	46692	22	-	-	-
17	0	idle/1	46692	20	-	-	-
18	0	idle/1	46692	20	-	-	-
19	0	idle/1	46692	20	-	-	-
20	0	idle/1	46692	20	-	-	-
21	0	idle/1	46692	19	-	-	-
22	0	idle/1	46692	17	-	-	-
23	0	idle/1	46692	17	-	-	-
24	0	idle/1	46697	21	-	-	-
25	0	idle/1	46692	15	-	-	-
26	0	idle/1	46601	18	-	-	-
27	0	idle/1	46692	14	-	-	-
28	0	idle/1	46692	14	-	-	-
29	0	idle/1	46692	20	-	-	-
30	0	idle/1	46692	20	-	-	-
31	0	init/0	-	-	-	-	-
32	0	init/0	-	-	-	-	-

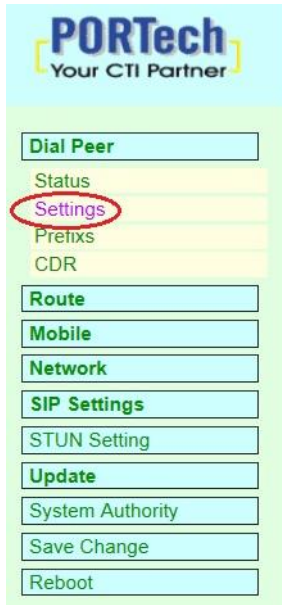
1. ch: The port of GSM channel
2. grp: the group of GSM channel
3. state:

INIT/0: GSM module is initialing  
IDLE/0: GSM module not register  
IDLE/1: GSM module registered  
M.ringback/0: Ring Back  
M.dialed/0: GSM port is dialed  
M.listen/0: GSM port is engaged

- 
4. MNC: Mobile Network Code
  5. SQ: Signal quality
  6. Mobile: The caller number of the incoming/outgoing call to Mobile
  7. dir: The Arrow shows the route to be LAN to Mobile or Mobile to LAN
    - a. < : LAN to Mobile
    - b. > : Mobile to LAN
  8. LAN: the IP address of the last incoming/outgoing call from/to LAN

---

## 8.2 Settings



### Dial Peer Setting

Transfer SIP Message	
<input checked="" type="radio"/> Yes	<input type="radio"/> No
Replace contact to Dial Peer.	

SIP Response when all busy	
<input checked="" type="radio"/> 600	Busy Everywhere (default)
<input type="radio"/> 408	Request Timeout
<input type="radio"/> 480	Temporarily unavailable
<input type="radio"/> 503	Service unavailable

Dial Peer	
Working Mode	<input type="radio"/> OFF <input checked="" type="radio"/> Internal <input type="radio"/> External
External URL	<input type="text"/> ( <a href="#">Dial Peer for XP</a> )

#### 1. Transfer SIP Message

The Replace contact to dial peer: The default is OFF, which won't send the SIP message to corresponding port through Dial Peer.

If ON, all SIP messages will send to corresponding port via Dial Peer.

#### 2. SIP Response when all busy

User can select the corresponding response while all ports are busy.

The Default is 600

600 : Busy Everywhere (default)

408 : Request Timeout

480 : Temporarily unavailable

503: Service unavailable

---

### 3. Dial Peer

#### Working Mode→

- a. OFF: To disable Dial Peer, user need to assign the port of GSM channel for the incoming calls from LAN side (E.g. Default ch1 is 5064 port; ch2 should be 5066 port and so on)
- b. Internal: to motivate Dial Peer, all incoming calls from LAN will come to dial peer port. Dial peer will route calls to idle channels(Default: 5060 port)
- c. External: All GSM Channel are controlled by external Dial peer program.

External URL → External Dial peer program's IP address and port number

**Edit DialPeer.ini (External Dial Peer)**

[Window]  
 Xpos=512  
 Ypos=252  
 Width=471  
 Height=399  
 [Info]  
 Total=16

Total ip / port

[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

The first MV-378

The second MV-378

[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

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

The second MV-378

The first MV-378

The second MV-378

[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 first MV-378

The second MV-378





### 8.3 Prefix

User can setup the prefix number in 15 groups. Dial peer will route the calls based on the prefix settings of each group

**PORTech**  
Your CTI Partner

**Dial Peer**

Status  
Settings  
**Prefixes**  
CDR

**Route**

**Mobile**

**Network**

**SIP Settings**

STUN Setting

**Update**

System Authority

Save Change

Reboot

### Prefix Settings

Group Enable:  ON  OFF

Group	Name	Prefixes
0	test	09
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		

submit reset

#### 1. Group Enable

Off: The default is off.

On: Dial peer will route the calls based on the prefix settings of each group. And Dial Peer status will show the grp information as below.

**PORTech**  
Your CTI Partner

**Dial Peer**

Status

Settings

Prefixes

CDR

**Route**

**Mobile**

**Network**

**SIP Settings**

STUN Setting

**Update**

System Authority

Save Change

Reboot

Dial Peer Status - 2013-06-06 09:38

ch	grp	State	MNC	SQ	Mobile	dir	LAN
1	0	idle/1	46692	21	0963283792	<	123@192.168.0.127:6050
2	0	idle/1	46692	20	-	-	-
3	0	idle/1	46692	21	-	-	-
4	0	idle/1	46692	21	-	-	-
5	0	idle/1	46692	21	-	-	-
6	0	idle/1	46692	21	-	-	-
7	0	idle/1	46692	12	-	-	-
8	0	idle/1	46692	21	-	-	-
9	0	idle/1	46692	21	-	-	-
10	0	idle/1	46692	22	-	-	-
11	0	idle/1	46692	22	-	-	-
12	0	idle/1	46692	21	-	-	-
13	0	idle/1	46692	23	-	-	-
14	0	idle/1	46692	12	-	-	-
15	0	idle/1	46601	18	-	-	-
16	0	idle/1	46692	22	-	-	-
17	0	idle/1	46692	19	-	-	-
18	0	idle/1	46692	20	-	-	-
19	0	idle/1	46692	20	-	-	-
20	0	idle/1	46692	20	-	-	-
21	0	idle/1	46692	19	-	-	-
22	0	idle/1	46692	20	-	-	-
23	0	idle/1	46692	19	-	-	-
24	0	idle/1	46697	21	-	-	-
25	0	idle/1	46692	15	-	-	-
26	0	idle/1	46601	18	-	-	-
27	0	idle/1	46692	17	-	-	-
28	0	idle/1	46692	14	-	-	-
29	0	idle/1	46692	20	-	-	-
30	0	idle/1	46692	20	-	-	-
31	0	init/0	-	-	-	-	-
32	0	init/0	-	-	-	-	-

Please click to select the group number of each channel

Dial Peer Status - 2013-06-06 09:57

ch	grp	State	MNC	SQ	Mobile	dir	LAN
1	0	idle/1	46692	21	0963283792	<	123@192.168.0.127:6050
2	0	idle/1	46692	20	-	-	-
3	0	idle/1	46692	22	-	-	-
4	0	idle/1	46692	21	-	-	-
5	0	idle/1	46692	21	-	-	-
6	0	idle/1	46692	21	-	-	-
7	0	idle/1	46692	12	-	-	-
8	0	idle/1	46692	21	-	-	-

---

After setting, please click submit button



- [Dial Peer](#)
- [Route](#)
- [Mobile](#)
- [Network](#)
- [SIP Settings](#)
- [STUN Setting](#)
- [Update](#)
- [System Authority](#)
- [Save Change](#)
- [Reboot](#)

### Group Select

MCH	Prefixs Group
1	0: test (09) 1: 2: 3: 4: 5: 6: 7: 8: 9: 10: 11: 12: 13: 14: 15:

**PORTech**  
Your CTI Partner

**Dial Peer**

Status

Settings

**Prefixes**

CDR

**Route**

**Mobile**

**Network**

**SIP Settings**

STUN Setting

**Update**

System Authority

Save Change

Reboot

## Prefix Settings

Group Enable:  ON  OFF

Group	Name	Prefixes
0	test	09
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		

submit reset

- 2.Group: The group number, total is 15 sets
3. Name: Fill the name of the group
- 4.Prefixes: Fill the local area number or prefix numbers of the group

After all settings are done, please click submit button.

---

## 8.4 Call Data to Server (CDR)

It 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.

**PORTech**  
Your CTI Partner

**CDR Setting**

**CDR Server**

Active  ON  OFF

Data ID

Server URI

**Dial Peer**

Status

Settings

Prefixes

**CDR**

**Route**

**Mobile**

**Network**

**SIP Settings**

STUN Setting

**Update**

System Authority

Save Change

Reboot

- 1.Data ID: MV will create one default Data ID
- 2.Server URL: Fill the IP and port of the CDR server

After the setting, please click Submit and save change button to wait for system reboot

---

## External Dial Peer

You can check CDR Statue here

Dial Peer - (Apr 19 2011, 15:55:33)

File Help

Log	Status	Set	Event								
*	id	ch	cimi	lan	dir	mobile	tStart	tAns	tEnd	state	remark
1	Mv-000000	7	466922102862561							idle	
2	Mv-000000	5	466921405104218							idle	
3	Mv-000000	4	466015800268726							idle	
4	Mv-000000	6	466015800268724							idle	
5	Mv-000000	8	466922102862549							idle	
6	Mv-000000	2	466923301930022							idle	
7	Mv-000000	3	466015400297468							idle	
8	Mv-000000	1	466922202956645	192.168.0.96	>	0980763178	2011/09/21 15:45:06		+26	idle	
9											
10											

1. ID: The MV's Data ID
2. CH: The GSM channel of MV-37X
3. Cimi: The SIM Card ID
4. LAN: Show the outgoing LAN IP or Incoming LAN IP
5. Dir: The Arrow shows the route to be LAN to Mobile or Mobile to LAN
6. Mobile: The outgoing mobile number or incoming mobile number
7. tStart: When the call started(date and time)
8. tANS: The second answering the call
9. tEND: The second ending the call(duration)  
(tANS, tEND are the exactly talking seconds)
10. State: The GSM Port Sate status

---

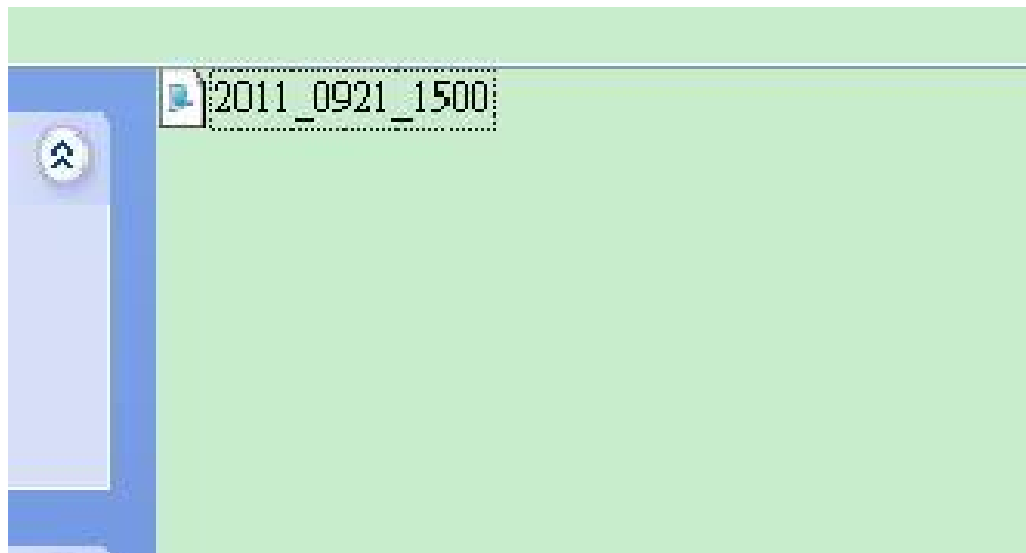
## CDR Files store at C:\Program Files\DialPeer

The CDR log is stored in this “cdr” file each hour, which includes all gsm port call details record.

If there’s no calls in this hour, it won’t create any log.



## CDR File



---

---

Example:

```
id=Mv-000000; ch=1; cimi=466922202956645; dir=L2M; iurl=192.168.0.96; omb=0980763178; tStart=4e7a0682(2011/09/21 15:45:06); tEnd=+26; state=LanEnd
```

1. Id=Mv-000000: The MV's Data ID
2. Ch=1: The 1<sup>st</sup> channel for MV ID
3. Cimi=466922202956645 : The SIM card ID for this GSM port
4. dir=L2M: The route is LAN to Mobile (If it's Mobile to LAN, that shows M2L)
5. iurl=192.168.0.96: The incoming IP
6. omb=0980763178: The outgoing number
7. tStart=4e7a0682(2011/09/21 15:45:06): The duration for the call
8. tEnd=+26: The call end on 26<sup>th</sup> second
9. state=LANEnd: The call hang up on LAN side.



---

## 9. Route

### 9.1 Mobile TO LAN Settings

User can assign the routing rule to transfer the call incoming on MOBILE to LAN



**PORTech**  
Your CTI Partner

- Dial Peer
- Route
- Mobile To Lan Settings**
- Mobile To Lan Speed Dial
- Lan To Mobile Settings
- Mobile
- Network
- SIP Settings
- STUN Setting
- Update
- System Authority
- Save Change
- Reboot

### Mobile to LAN table

\*: Click CID or URL data field to entry ...

MCH	CID	URL	SEL
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"/>
10			<input type="checkbox"/>
11			<input type="checkbox"/>
12			<input type="checkbox"/>
13			<input type="checkbox"/>
14			<input type="checkbox"/>
15			<input type="checkbox"/>
16			<input type="checkbox"/>

Please move the mouse to that red arrow spot and click  
It will show the setting bLANk. After the setting, please click Entry.

**PORTech**  
Your CTI Partner

- Dial Peer
- Route
- Mobile**
- Network
- SIP Settings
- STUN Setting
- Update
- System Authority
- Save Change
- Reboot

### Mobile to LAN table

\*: Click CID or URL data field to entry ...

MCH	CID	URL	SEL
1	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"/>
10			<input type="checkbox"/>
11			<input type="checkbox"/>
12			<input type="checkbox"/>
13			<input type="checkbox"/>
14			<input type="checkbox"/>
15			<input type="checkbox"/>
16			<input type="checkbox"/>

1. MCH: the code of mobile channel

2. CID:

(1) It 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

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.

3. URL : The IP address to transfer this call

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

(2) 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.

4. SEL: Select the one to delete

---

## 9.2 Mobile to LAN Speed Dial Settings

NOTE: It's for 2 stage dialing mode

The screenshot shows the PORTech web interface. On the left is a navigation menu with buttons for Dial Peer, Route, Mobile To Lan Settings, Mobile To Lan Speed Dial (circled in red), Lan To Mobile Settings, Mobile, Network, SIP Settings, STUN Setting, Update, System Authority, Save Change, and Reboot. The main content area is titled 'Mobile To Lan Speed Dial' and includes a dropdown menu set to 'Mobile 1, 2'. Below this is a table with columns for Item, Name, URL, and Select. The table contains one row with Item 0, Name JACK, and URL 192.168.0.156. Below the table are buttons for 'Delete Selected', 'Delete All', and 'Reset'. At the bottom is an 'Add New' section with input fields for Position (0-9), Name, and URL, along with 'Add' and 'Reset' buttons.

**PORTech**  
Your CTI Partner

**Mobile To Lan Speed Dial**

Mobile 1, 2 ▾

Item	Name	URL	Select
0	JACK	192.168.0.156	<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:  (0~9)

Name:

URL:

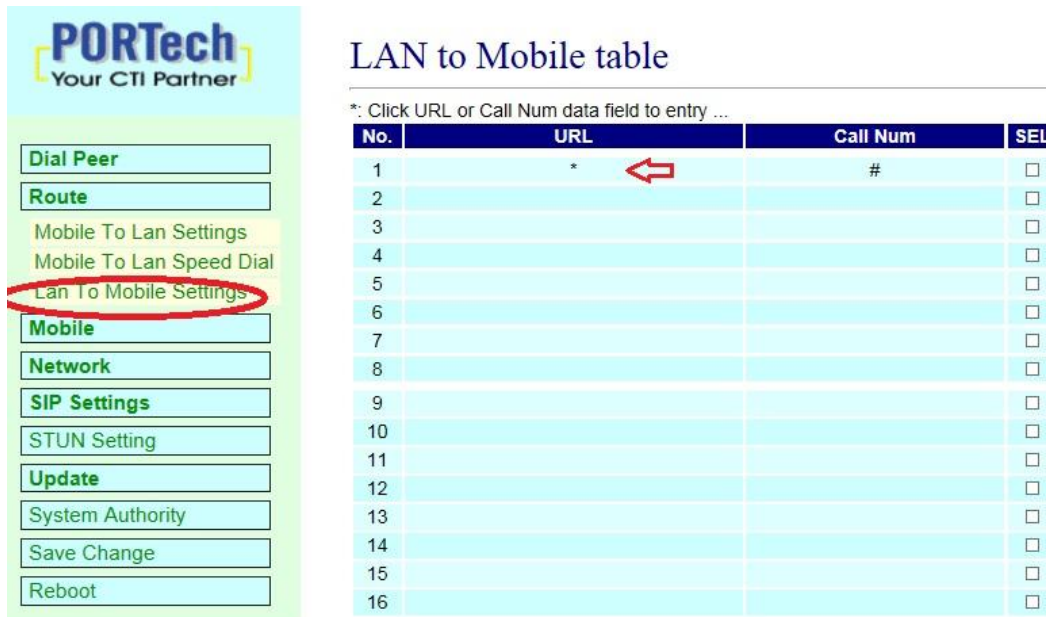
Add Reset

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. item: 0 Name: JACK URL: 192.168.0.156,  
When the caller hear dial tone and enter 0, system will connect 192.168.0.156

---

### 9.3 LAN to Mobile Settings

User can assign 24 sets of routing rule to transfer the call incoming from LAN to MOBILE. The chart setting is used for all channels.



**PORTech**  
Your CTI Partner

- Dial Peer
- Route
- Mobile To Lan Settings
- Mobile To Lan Speed Dial
- LAN To Mobile Settings**
- Mobile
- Network
- SIP Settings
- STUN Setting
- Update
- System Authority
- Save Change
- Reboot

#### LAN to Mobile table

\*: Click URL or Call Num data field to entry ...

No.	URL	Call Num	SEL
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"/>
10			<input type="checkbox"/>
11			<input type="checkbox"/>
12			<input type="checkbox"/>
13			<input type="checkbox"/>
14			<input type="checkbox"/>
15			<input type="checkbox"/>
16			<input type="checkbox"/>

Please move the mouse to that red arrow spot and click  
It will show the setting bLANK. After the setting, please click Entry.

**PORTech**  
Your CTI Partner

**Dial Peer**

**Route**

Mobile To Lan Settings  
Mobile To Lan Speed Dial  
Lan To Mobile Settings

**Mobile**

**Network**

**SIP Settings**

STUN Setting

**Update**

System Authority

Save Change

Reboot

## LAN to Mobile table

\*: Click URL or Call Num. data field to entry ...

No.	URL	Call Num	SEL
1	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"/>
10			<input type="checkbox"/>
11			<input type="checkbox"/>
12			<input type="checkbox"/>
13			<input type="checkbox"/>
14			<input type="checkbox"/>
15			<input type="checkbox"/>
16			<input type="checkbox"/>
17			<input type="checkbox"/>
18			<input type="checkbox"/>
19			<input type="checkbox"/>
20			<input type="checkbox"/>
21			<input type="checkbox"/>
22			<input type="checkbox"/>
23			<input type="checkbox"/>
24			<input type="checkbox"/>

Select ALL Delete Selected Reset

1. No. : The code number

2. URL: It's the IP address of the incoming call

It 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.

3. 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-3716/MV-3732 and LAN Phone both need to register proxy server or Asterisk.

(2)Proxy server/asterisk set the route that the prefix of destination number

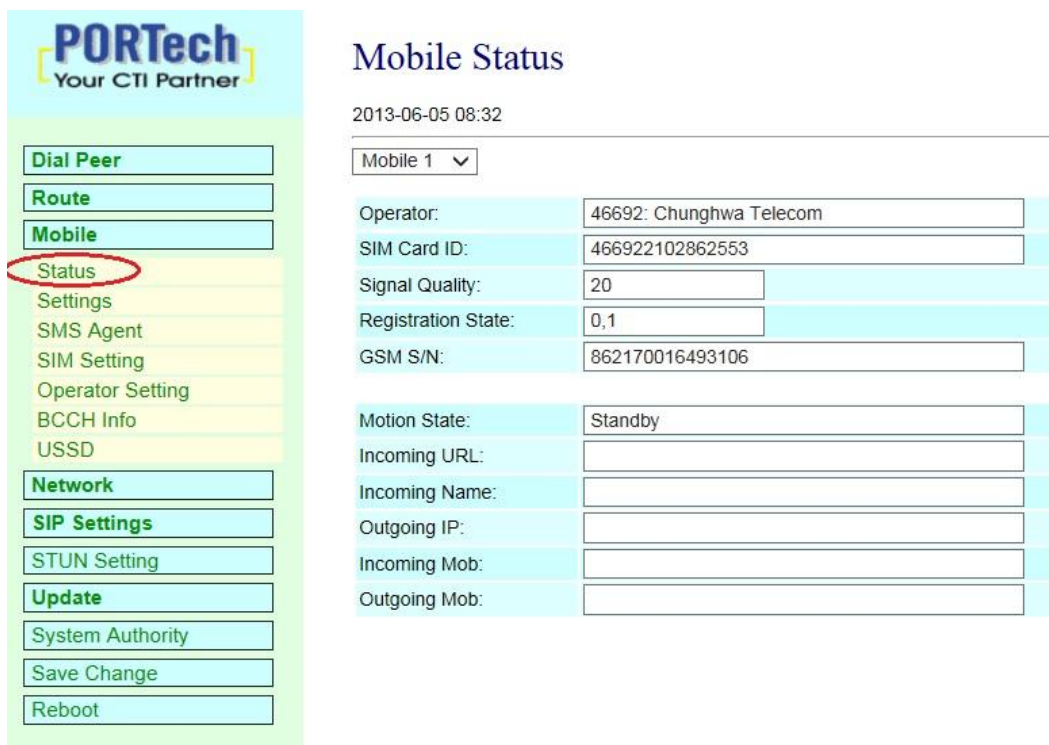
(3)When you dial any destination phone number from LAN phone, MV-3716/MV-3732 will connect this call auto.

4.SEL : Select the one to delete

---

## 10. Mobile

### 10.1 Mobile Status



**PORTech**  
Your CTI Partner

**Dial Peer**

**Route**

**Mobile**

**Status**

Settings

SMS Agent

SIM Setting

Operator Setting

BCCH Info

USSD

**Network**

**SIP Settings**

STUN Setting

**Update**

System Authority

Save Change

Reboot

### Mobile Status

2013-06-05 08:32

Mobile 1

Operator:	46692: Chunghwa Telecom
SIM Card ID:	466922102862553
Signal Quality:	20
Registration State:	0,1
GSM S/N:	862170016493106
Motion State:	Standby
Incoming URL:	
Incoming Name:	
Outgoing IP:	
Incoming Mob:	
Outgoing Mob:	

- (1) Choose Mobile 1,2,3 or 4 (MV-3732: Mobile 1,2,3,4,5,6,7,8)
- (2) Network Registration: The telecom carrier, which is the SIM card been registered.
- (3) SIM Card ID : SIM card ID. (4) Signal Quality : Signal quality.
- (5) GSM S/N: IMEI Number
- (6) Motion State: The status of SIM card
- (7) Incoming IP : The IP address of the last incoming call from LAN.
- (8) Incoming IP Name: proxy server name
- (9) Outgoing IP : The IP address of the last outgoing call to LAN.
- (10) Incoming Mob : The caller ID of the last incoming call from MOBILE.
- (11) Outgoing Mob: The called number of the outgoing call to MOBILE.



## 10.2 Mobile Setting



### Mobile Setting

Mobile 1, 2

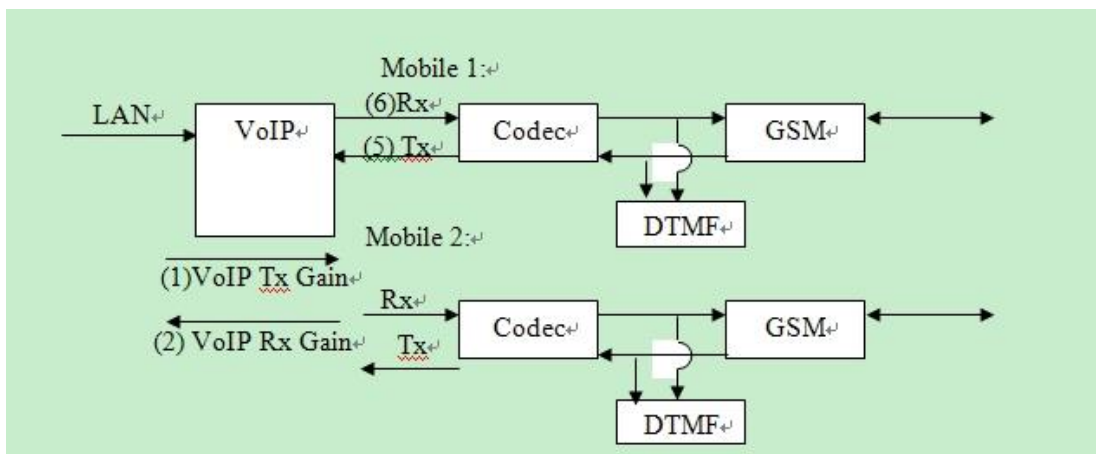
VoIP Tx Gain	<input type="text" value="9"/> (0~12)	VoIP Rx Gain	<input type="text" value="11"/> (0~15)
LAN Dialtone Vol	<input type="text" value="4"/> (0~12)		

**Mobile 1**  ON  OFF

Routing Range	<input type="text" value="0"/> ~ <input type="text" value="24"/>		
CODEC Tx Gain	<input type="text" value="6"/> (0~7)	CODEC Rx Gain	<input type="text" value="6"/> (0~7)
SIP From:	<input type="text" value="Tel/User (Standard)"/> v	Answer delay	<input type="text" value="0"/> (0~15)
Hide Caller ID	<input type="radio"/> ON <input checked="" type="radio"/> OFF	Restart dial fails	<input type="text" value="1"/> (0~15)
PIN Code	On <input type="checkbox"/> Code: <input type="text"/>	Confirm:	<input type="text"/>
Dial Prefix	<input type="text"/>	LAN Answer Mode	<input type="text" value="Answered"/> v
Init AT Cmd	<input type="text"/>		

**Mobile 2**  ON  OFF

Routing Range	<input type="text" value="25"/> ~ <input type="text" value="49"/>		
CODEC Tx Gain	<input type="text" value="6"/> (0~7)	CODEC Rx Gain	<input type="text" value="6"/> (0~7)
SIP From:	<input type="text" value="Tel/User (Standard)"/> v	Answer delay	<input type="text" value="0"/> (0~15)
Hide Caller ID	<input type="radio"/> ON <input checked="" type="radio"/> OFF	Restart dial fails	<input type="text" value="1"/> (0~15)
PIN Code	On <input type="checkbox"/> Code: <input type="text"/>	Confirm:	<input type="text"/>
Dial Prefix	<input type="text"/>	LAN Answer Mode	<input type="text" value="Answered"/> v
Init AT Cmd	<input type="text"/>		



- (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: To adjust dial tone gain down of LAN.

(4)Routing Range: The route table -50 sets can share by two channels(1,2 ch / 3,4 ch / 5,6 ch / 7,8 ch )

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-3716/MV-3732 (page 42)

MV-3716/MV-3732 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-3716/MV-3732 will send the message as follows in the Packet.

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

- Tel/Tel :

MV-3716/MV-3732 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-3716/MV-3732 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 CLID: 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-3716/MV-3732, you can click "On" and enter pin code.

(12) Dial Prefix: The prefix number of outgoing calls. When LAN to Mobile, MV-3716/MV-3732 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.

After the setting, please click Submit and save change button to wait for system reboot

You can click Submit All to copy to Mobile setting, and select Yes and save change to wait for the system reboot

Please check below:

### Mobile Setting

Mobile 1, 2 ▾

VoIP Tx Gain	<input type="text" value="9"/> (0~12)	VoIP Rx Gain	<input type="text" value="11"/> (0~15)
LAN Dialtone Vol	<input type="text" value="4"/> (0~12)		

**Mobile 1**  ON  OFF

Routing Range	<input type="text" value="0"/> ~ <input type="text" value="24"/>		
CODEC Tx Gain	<input type="text" value="6"/> (0~7)	CODEC Rx Gain	<input type="text" value="6"/> (0~7)
SIP From:	Tel/User (Standard) ▾	Answer delay	<input type="text" value="0"/> (0~15)
Hide Caller ID	<input type="radio"/> ON <input checked="" type="radio"/> OFF	Restart dial fails	<input type="text" value="1"/> (0~15)
PIN Code	On <input type="checkbox"/> Code: <input type="text"/>	Confirm:	<input type="text"/>
Dial Prefix	<input type="text"/>	LAN Answer Mode	Answered ▾
Init AT Cmd	<input type="text"/>		

**Mobile 2**  ON  OFF

Routing Range	<input type="text" value="25"/> ~ <input type="text" value="49"/>		
CODEC Tx Gain	<input type="text" value="6"/> (0~7)	CODEC Rx Gain	<input type="text" value="6"/> (0~7)
SIP From:	Tel/User (Standard) ▾	Answer delay	<input type="text" value="0"/> (0~15)
Hide Caller ID	<input type="radio"/> ON <input checked="" type="radio"/> OFF	Restart dial fails	<input type="text" value="1"/> (0~15)
PIN Code	On <input type="checkbox"/> Code: <input type="text"/>	Confirm:	<input type="text"/>
Dial Prefix	<input type="text"/>	LAN Answer Mode	Answered ▾
Init AT Cmd	<input type="text"/>		

### 10.3 Mobile / SMS Agent:

**PORTech**  
Your CTI Partner

**SMS Agent**

Mobile 1, 2

Port	Status	Bank
Mobile 1	Standby.	Rx List
Mobile 2	Standby.	Rx List

**SMS Sender**

Encode: ASC7 (ASCII 7bit)

Via: Mobile  1  2

Dest Num: [ ]

Message: [ ]

You have 160 ASC7 chars remaining for your description.

Send Now

Read received SMS

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

1. Port: The GSM Channel No.
2. Status:
  - a. Standby: The GSM Channel is ready and idle for SMS sending
  - b. Not Ready: The GSM Channel is not registered or engaged, not able to send SMS
3. Encode : ASC7(ASCII 7 bit) or UCS2(Unicode 16 bit)
4. Via : To select the GSM Channel for SMS sending
5. Dest Num: the Receiver's phone number
6. Message: Please fill the message that wants to send to receiver.



After typing the SMS, please click Send Now button

---

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

## SMS Rx List

Mobile 1 

Read	Status	Caller ID	Date, Time
	REC READ	886935386862	08/05/15,15:41:46
			

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

## SMS Reader

---

Index	RemotelD	Date, Time
1	886935386862	08/05/15, 15:41:46

MV Serial can send SMS and Receive SMS

---

## 10.4 Send Bulk of SMS via Microsoft Excel

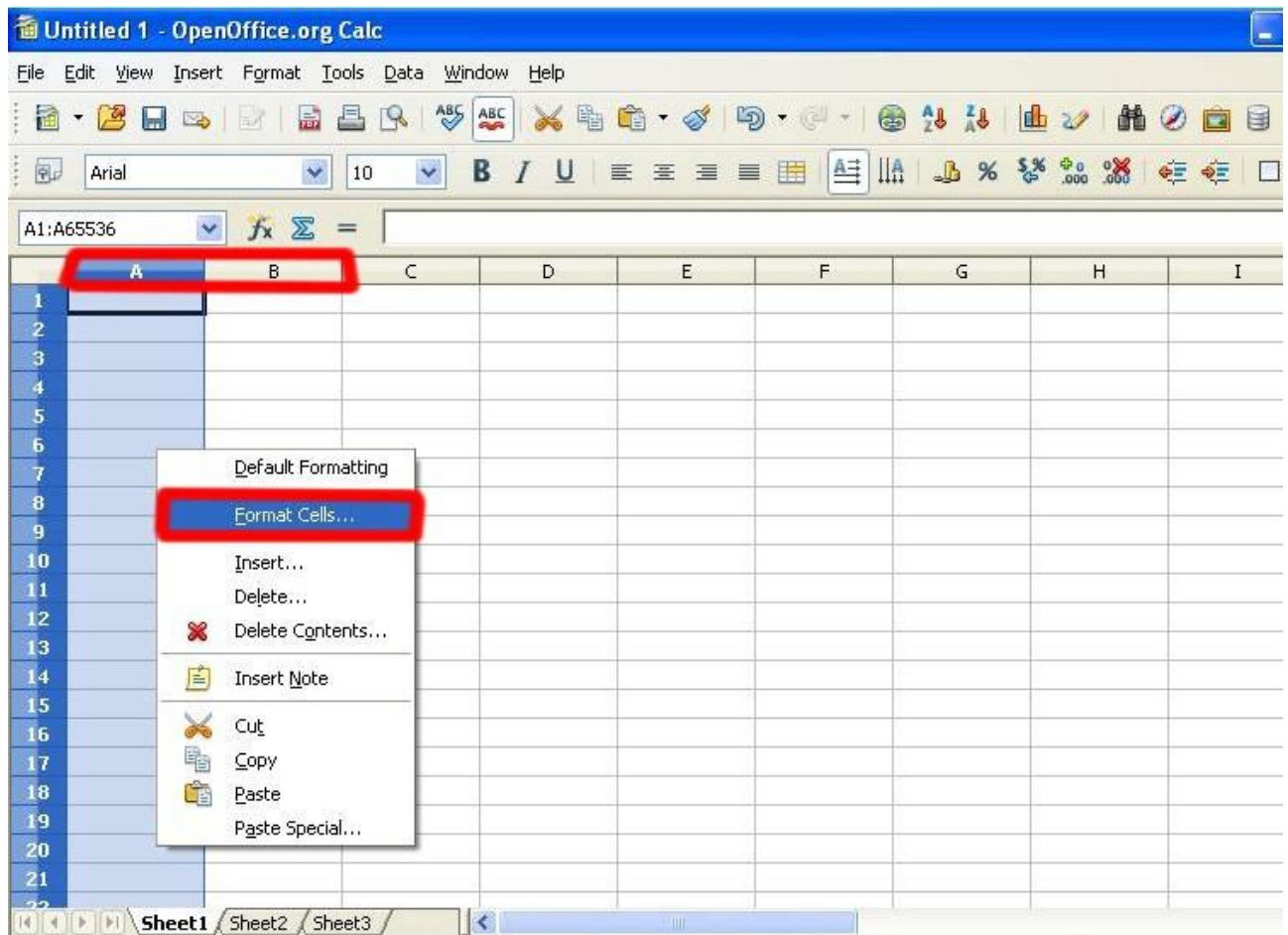
**First of all, please open a new Excel file.**

### Step 1 Format Cells

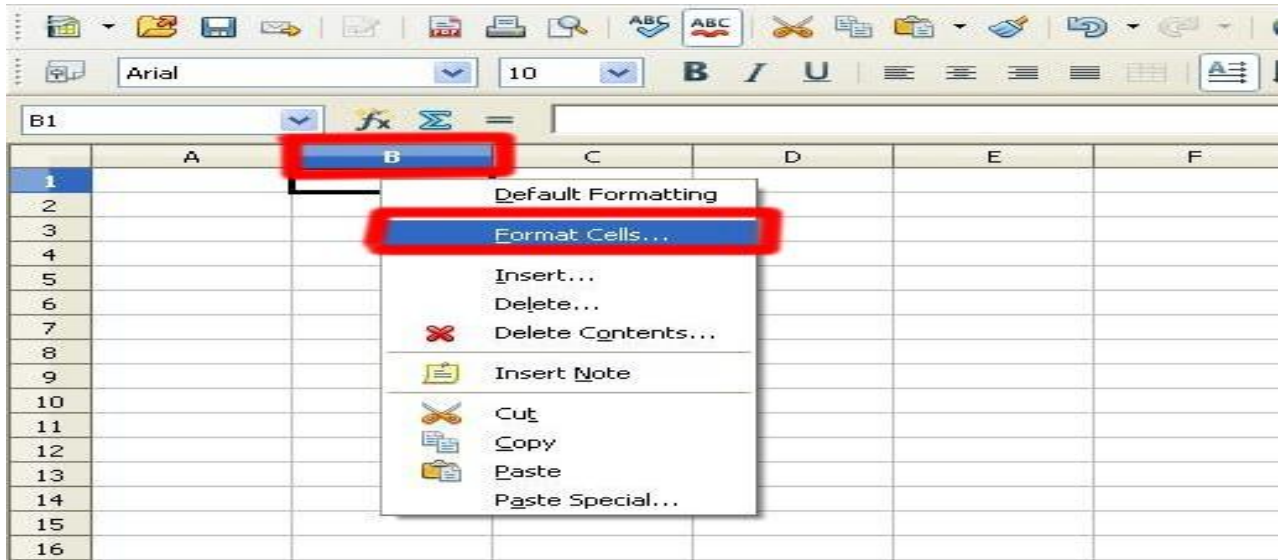
Here, we need you to format cells to "Text" first.

Please click mouse right key, and choose "Format Cells"

### BLANK A

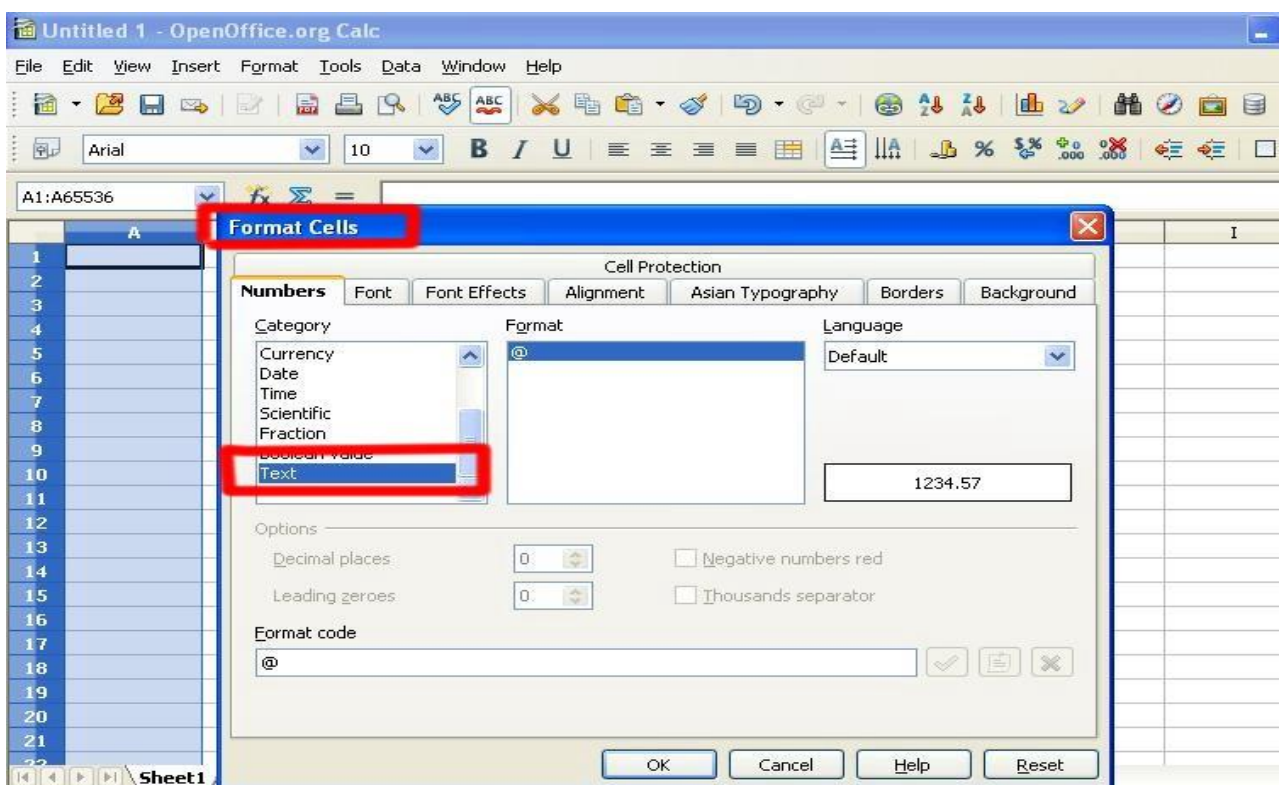


## BLANK B



### Step 2

In the Format Cells, please select “Text”



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

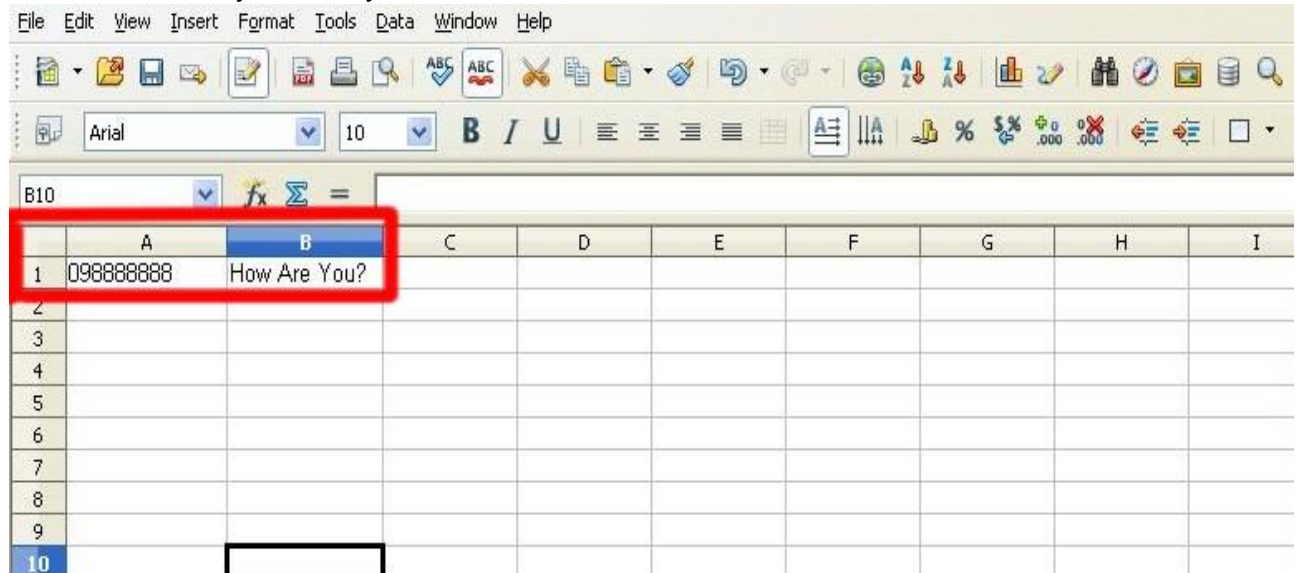


---

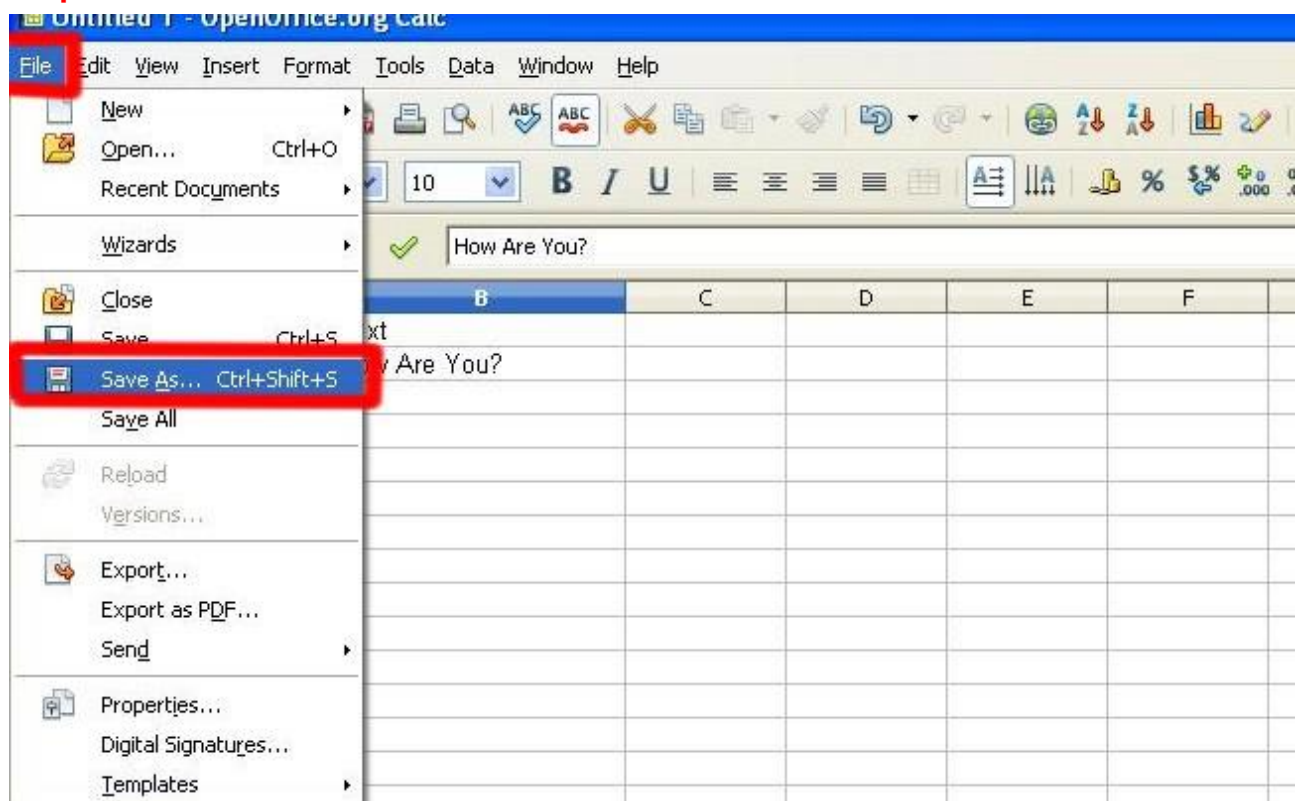
### Step 3

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

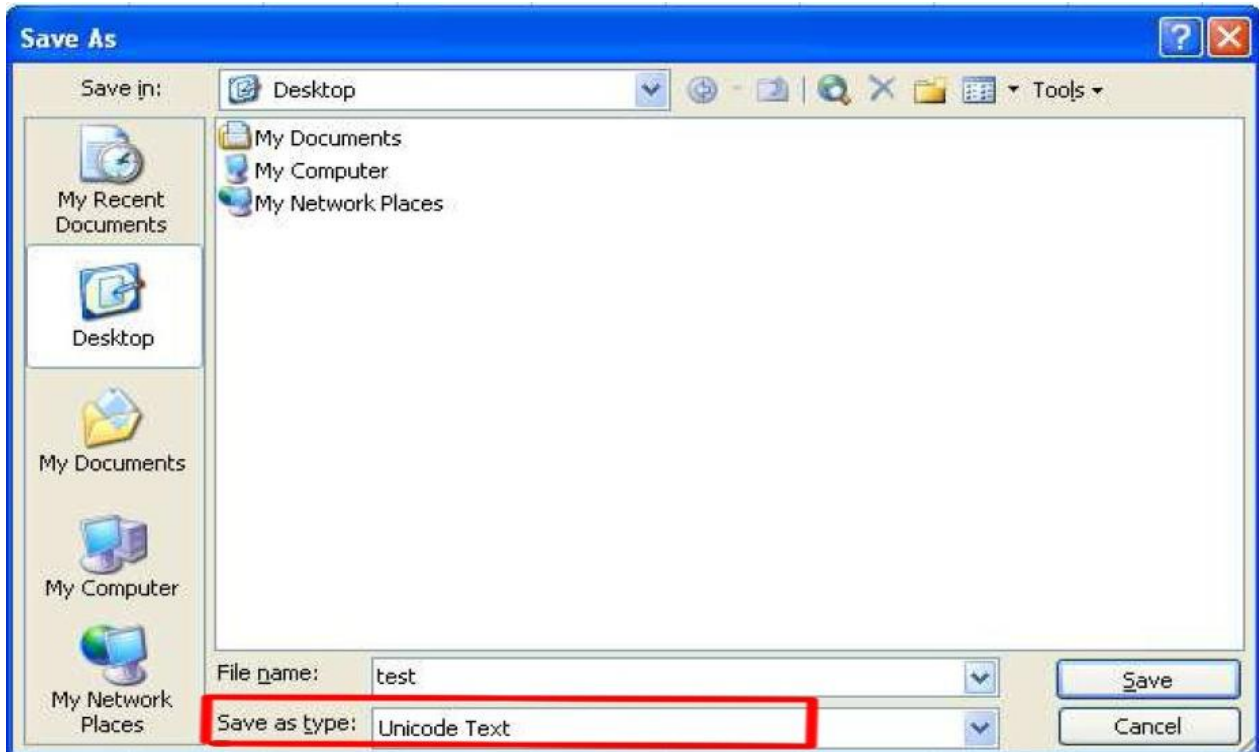
BLANK B: is for you to key “text”



### Step 4 save the file

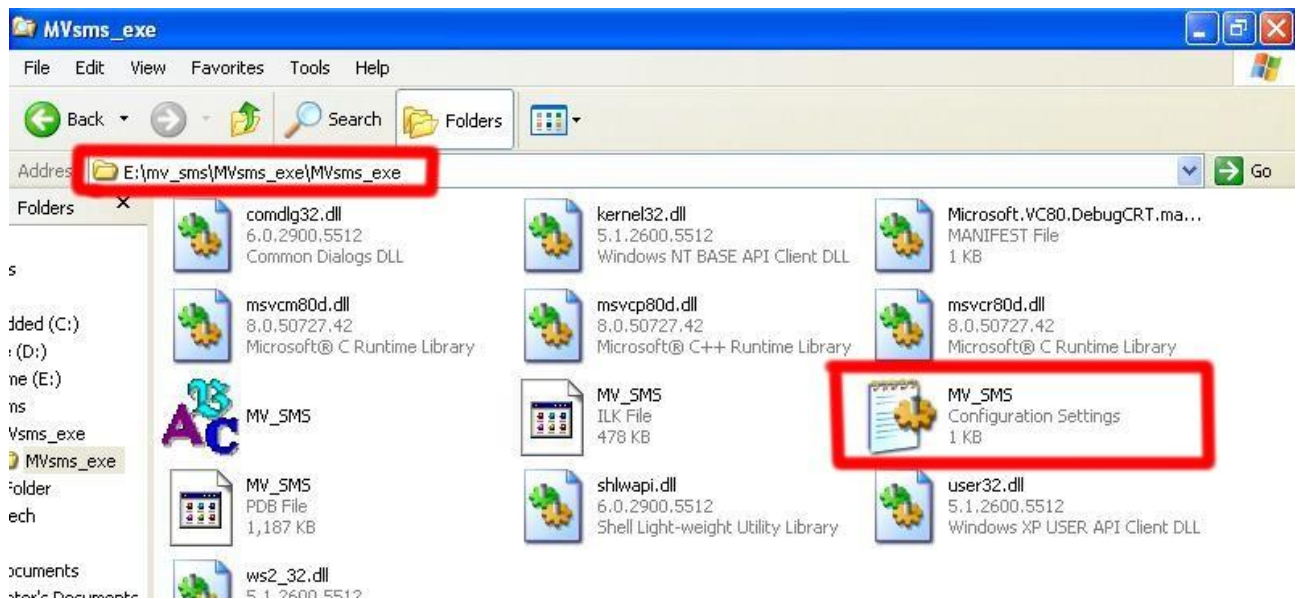


Save the type as **Unicode Text**



### Step 5

Open MVsms\_exe -> MV-SMS (Configuration Settings)





**Step 6**

Please do the configuration as following:

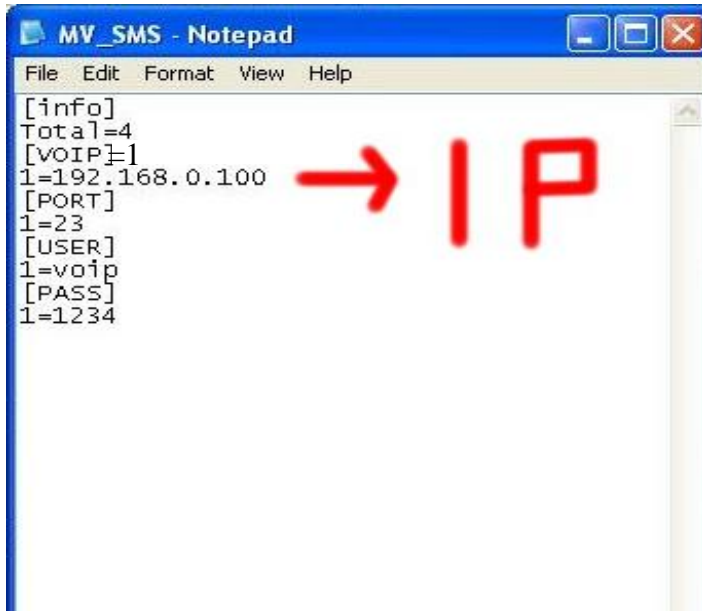
**MV-3732**

```
File Edit Format View Help
[info]
Total=4
[VOIP]
1=192.168.0.100
2=192.168.0.100
3=192.168.0.100
4=192.168.0.100
[PORT]
1=23
2=8023
3=8123
4=8223
[USER]
1=voip
2=voip
3=voip
4=voip
[PASS]
1=1234
2=1234
3=1234
4=1234
```

**MV-3716**

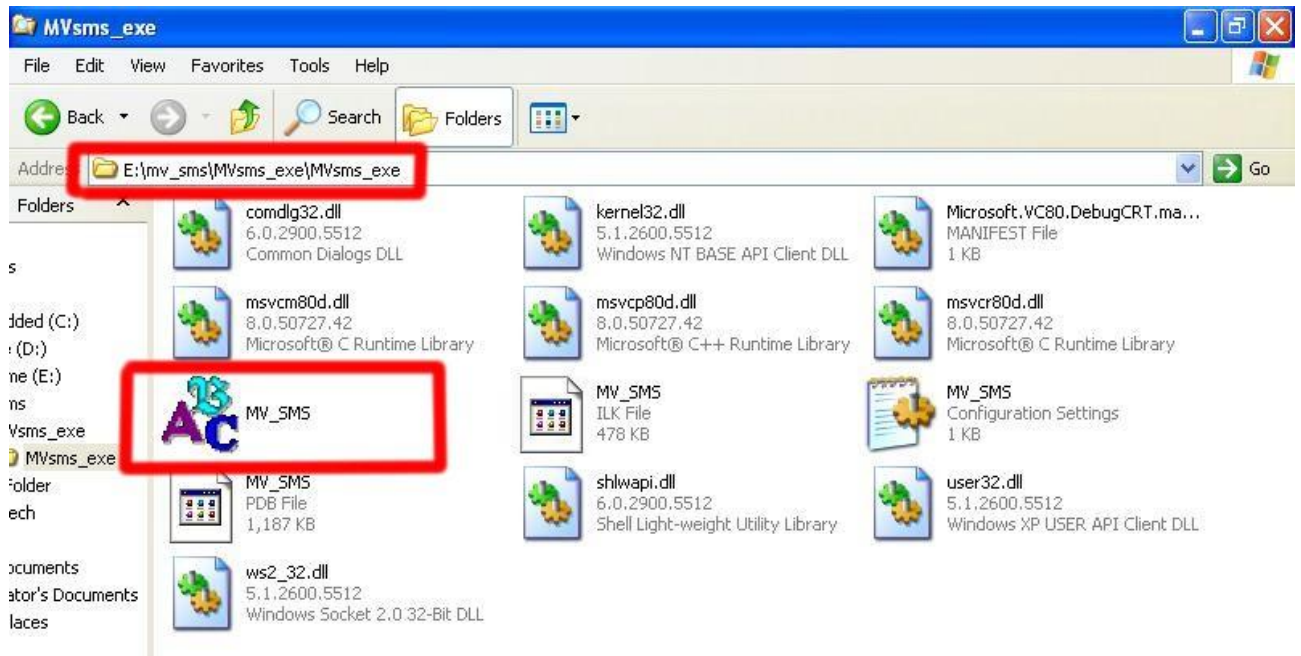
```
File Edit Format View Help
[info]
Total=2
[VOIP]
1=192.168.0.100
2=192.168.0.100
[PORT]
1=23
2=8023
[USER]
1=voip
2=voip
[PASS]
1=1234
2=1234
```

## MV-372 & MV-370



### Step 7

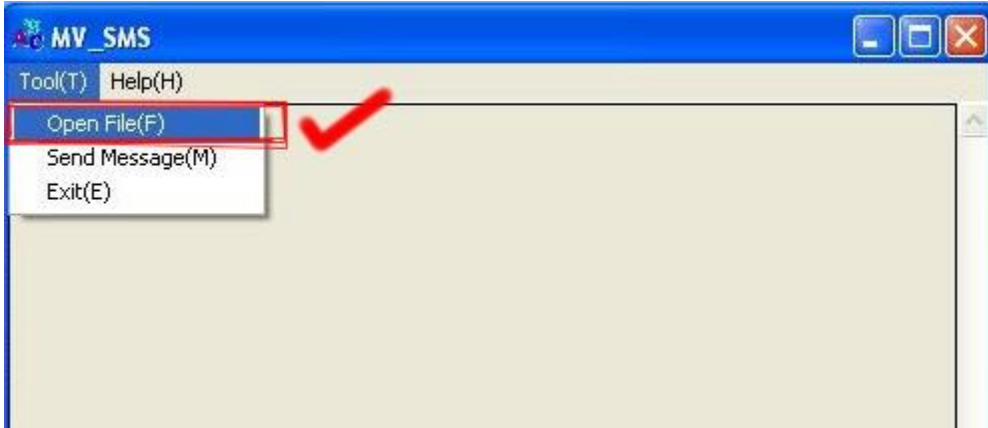
Run MV-SMS program



---

**Step 8**

1. Open File



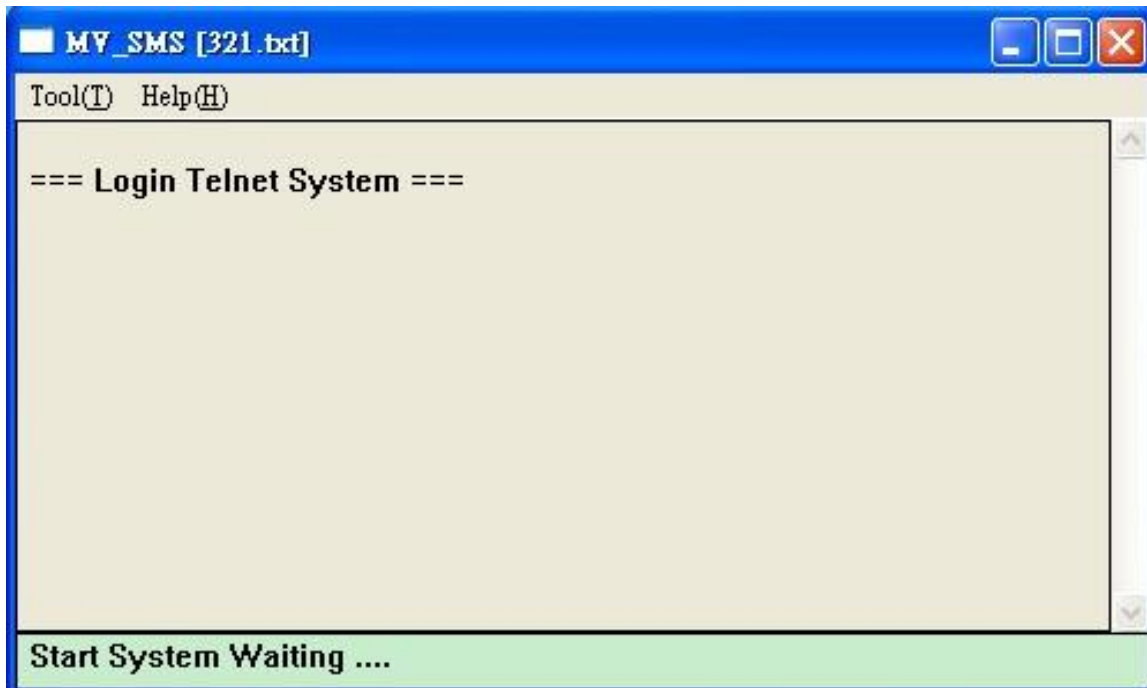
2. Open the "Excel file" that you just saved



---

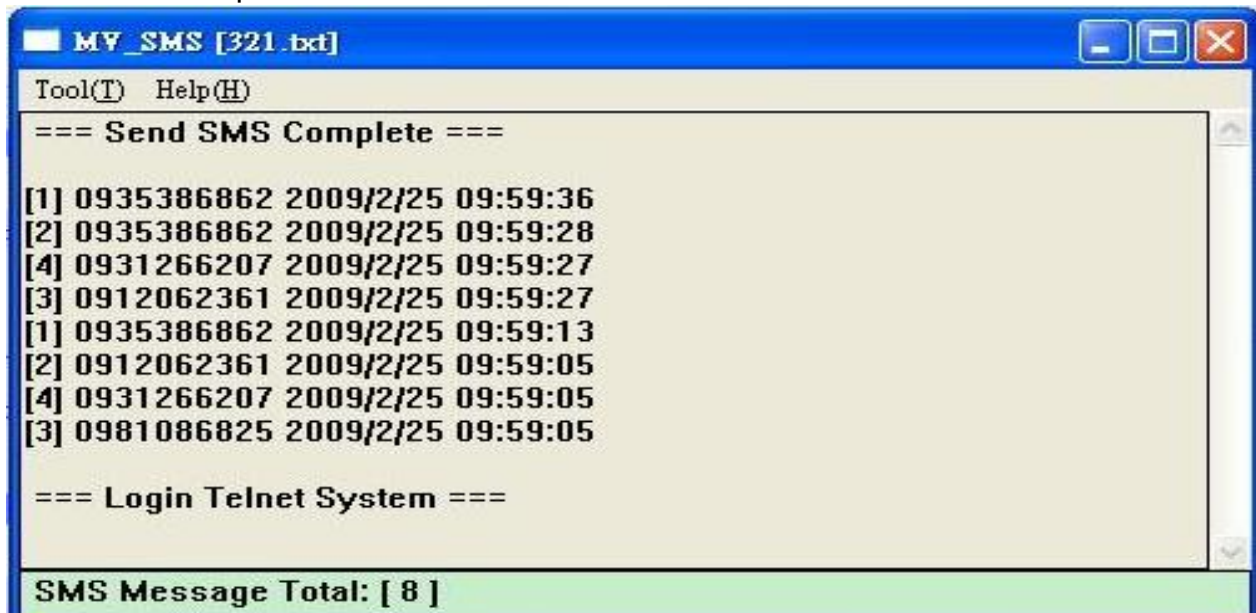
### Step 9

Sending



### Step 10

Send SMS Complete



---

## 10.5 Use AT Command via Telnet or your program

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

Telnet PORT Corresponding port as follows:  
(2 modules in one SLAVE)

SLAVE 1:1301

SLAVE 2:1302

SLAVE 3:1303

SLAVE 4:1304

SLAVE 5:1305

SLAVE 6:1306

SLAVE 7:1307

SLAVE 8:1308..... \*MV-3716

SLAVE 9:1309

SLAVE 10:1310

SLAVE 11:1311

SLAVE 12:1312

SLAVE 13:1313

SLAVE 14:1314

SLAVE 15:1315

SLAVE 16:1316..... \*MV-3732

---

```
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
```

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

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

```
0
at+cmgs="0911123456"
```

Enter at+cmgs="phone number"

```
>
```

```
test
```

Enter short message and ctrl+Z

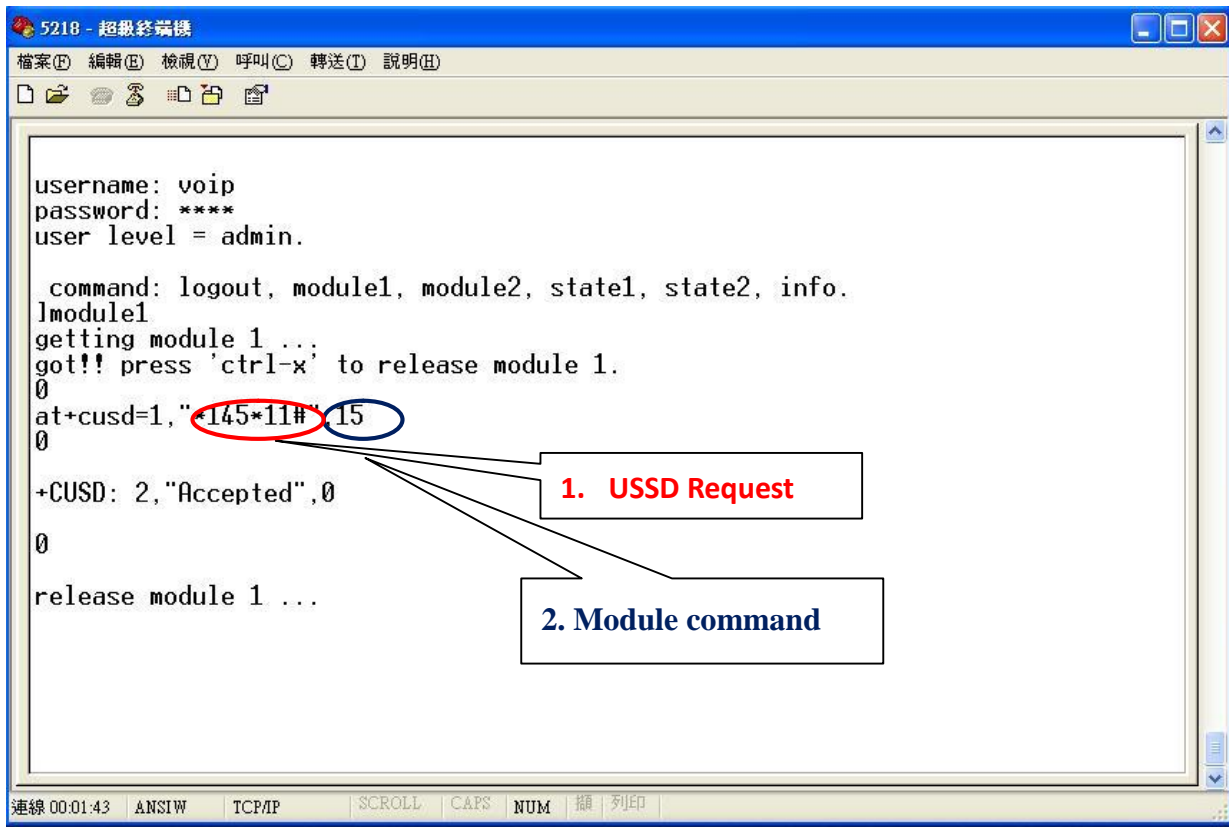
```
>
```

```
+CMGS: 30
```

```
0
```



## 10.6 USSD SIM Balance Check via Telnet



The screenshot shows a Telnet session in a terminal window titled "5218 - 超級終端機". The terminal displays the following text:

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

command: logout, module1, module2, state1, state2, info.
!module1
getting module 1 ...
got!!! press 'ctrl-x' to release module 1.
0
at+cusd=1,"*145*11#"15
0
+CUSD: 2,"Accepted",0
0
release module 1 ...
```

Annotations in the image:

- A red circle highlights the USSD code `*145*11#` in the `at+cusd=1,"*145*11#"15` line, with a callout box labeled "1. USSD Request".
- A blue circle highlights the number `15` in the same line, with a callout box labeled "2. Module command".

The terminal status bar at the bottom shows: 連線 00:01:43 ANSIW TCP/IP SCROLL CAPS NUM 翻 列印

1. USSD Request: Please enter USSD code for your operator to check Balance
  2. Module command:  
Please enter "15" for Siemens BG2W module  
Please enter "0" for Simcom module
- ✚ User can check this information on main page on **Module Description**

After sending the USSD request, MV will receive the SMS from operator  
Please check the incoming SMS on SMS Agent

**PORTech**  
Your CTI Partner

### SMS Reader

Index	RemotelID	Date, Time
2	01145009310000990016	11/08/26, 15:24:43

帳單金額NT\$1836.0  
付款期限8/28  
累計未付金額NT\$1836.0  
劃撥帳號 19037959  
帳單號碼4046247121

Back Delete

## 10.7 SIM Setting

**PORTech**  
Your CTI Partner

**Dial Peer**  
**Route**  
**Mobile**  
Status  
Settings  
SMS Agent  
**SIM Setting**  
Operator Setting  
BCCH Info  
USSD  
**Network**  
**SIP Settings**  
STUN Setting  
**Update**  
System Authority  
Save Change  
Reboot

### SIM Card Setting

Mobile 1, 2 ▾

CU ID  (0001 ~ 9999, Server mode)

#### SIM Card of Mobile 1

Mode  Local  Bank  Server  
Mobile ID:  Group:   
Card ID:   
Bank URL:   
Server URL:   
Status: 0@0.0.0.0:0

#### SIM Card of Mobile 2

Mode  Local  Bank  Server  
Mobile ID:  Group:   
Card ID:   
Bank URL:   
Server URL:   
Status: 0@0.0.0.0:0

1. CU ID: It's the ID for MV and SIM Server Transfer Protocol, within 1~9999. Each MV under same SIM Sever should setup different CU ID, and no reusing parameter. E.g. If you put "888" on 1<sup>st</sup> MV-3732 that you can't use "888" on 2<sup>nd</sup> MV-3732, and so on.
2. Mode
  - a. Local: Disable Remote SIM feature
  - b. Bank: Enable Remote SIM Bank feature, and manage SIM card on SBK-32 SIM Bank.
  - c. Server: Enable Remote SIM Server feature, and allocate SIM cards on SBK-32 SIM Bank.

---

### 3. Mobile

- a. ID: Put in 8 digits (hexadecimal, also base 16), which used for GSM Module ID identification to Remote SIM protocol. User can define the ID. IF it's Server Mode, just leave it default. If it's Bank Mode, No reusing GSM Module ID for same SIM Bank.
  - b. Group: Fill in SIM Group number for Remote GSM module. Server follow SIM Group Number to allocate SIM card to correspond GSM module
4. Card ID: Put in 8 digits (hexadecimal, also base 16), which used for SIM Card ID identification to Remote SIM protocol. User can define the ID. If it's in Server Mode, Card ID can be bLANK or default. As for Bank Mode, Card ID must be corresponding to SIM Card ID of SIM Bank.
  5. Bank URL: If it's Bank Mode, please fill SIM Bank IP and Port Number. On other hand, please leave bLANK for Server Mode.
  6. Server URL: If it's Server Mode, please fill SIM Server IP and Port Number. On other hand, please leave bLANK for Bank Mode.
  7. Status: User can check the SIM Card ID of GSM module and IP, Port Number of SIM bank.

After the setting, please click submit and save change button and wait for system reboot

---

## 10.8 Operator Setting

**PORTech**  
Your CTI Partner

**Dial Peer**

**Route**

**Mobile**

Status

Settings

SMS Agent

SIM Setting

**Operator Setting**

BCCH Info

USSD

**Network**

**SIP Settings**

STUN Setting

**Update**

System Authority

Save Change

Reboot

### Operator Setting

Mobile 1, 2 ▾

---

**Mobile 1 :**

Opreator ID  (0: resume auto)

Work Mode  Every time reset module  Manual

**Mobile 2 :**

Opreator ID  (0: resume auto)

Work Mode  Every time reset module  Manual

1. Operator ID: When GSM module is registered, user can click the List to show all available operators in that area. You will see like follows diagram.

---

---

## Operator List

Mobile 1 ▾

No	Status	Name	ID	Use
00	Current	Chunghwa Telecom (CHT)	46692	<input type="radio"/>
01	Forbidden	Far EasTone (FET)	46601	<input type="radio"/>
02	Forbidden	Pacific GSM 1800 (TCC)	46697	<input type="radio"/>
03				<input type="radio"/>
04				<input type="radio"/>
05				<input type="radio"/>
06				<input type="radio"/>
07				<input type="radio"/>

## 2. Work Mode:

### a. Every time reset module:

Fill the assigned Operator ID, then press **Submit** bottom and save change. After reboot, GSM module will research the operator ID and registered the base station.

### b. Manual:

Fill the assigned Operator ID, then press **Now** bottom. GSM module will search that Operator ID and registered after reboot.

After the setting, please click submit and save change button and wait for system reboot

## 10.9 BCCH Info

Please work with this feature when the mobile status is “Stand by/Active”. It detects the surrounding active cell, up to 7 cells and shows Cell ID, signal and best signal (RXlev). The No.0 shows the data of current registered cell. Follow by No.1 to No.6 cell is based on cell signal (best to low).

NOTE: Support Quad band-BG2W, Quad band-M10 and firmware V10.185 above only.

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**BCCH Info**

Mobile 1 ▾

select	MCC	LAC	Cell	BSIC	BCCH	RxLev
0	46692	0FAB	D3D2	14	31	-70
1	46692	0FAB	AC9D	10	30	-84
2	46692	0FAB	ACC2	11	49	-92
3	46692	0FAB	AC4E	14	28	-92
4	46692	0FAB	D3AD	14	34	-93
5	46692	0FAB	3790	8	572	-94
6	46692	0FAB	1140	10	43	-97

Refresh

	LAC	Cell ID	BCCH
<input type="checkbox"/> Preferred this Cell	0FAB	AC9D	30

Submit Reset

MCC : Mobile Country Code

LAC : Location Area Code

Cell : Cell Identifier

BSIC: Base Station Identity Code

BCCH: Broadcast Control Channel

RxLev: Received Signal level in dbm

---

## How to Configure

1. You can choose a BCCH channel by clicking on the cell. The module will automatically register in the new BCCH.

E.g. If you would like to register BCCH channel on No.4 cell, please click no4 select like below.



The screenshot shows a web interface titled "Cell Info" with a dropdown menu set to "Mobile 1". Below the menu is a table with the following columns: select, MCC, LAC, Cell, BSIC, BCCH, and RxLev. The table contains seven rows of data. The row for cell No. 4 is highlighted with a red oval, and a red arrow points to the "select" column of that row. Below the table is a "Refresh" button.

select	MCC	LAC	Cell	BSIC	BCCH	RxLev
0	46601	0871	546F	20	629	-76
1	46601	0871	0000	20	661	-78
2	46601	0871	5470	21	640	-79
3	46601	0871	0000	23	513	-84
4	46601	0853	70AD	61	626	-89
5	46601	0853	70AE	61	532	-90
6	46601	0871	5278	46	649	-92

Refresh



2. System will show the cell number information once you select on Preferred this Cell form. Please click the submit button and Save Change, and wait for system reboot

select	MCC	LAC	Cell	BSIC	BCCH	RxLev
0	46601	0871	546F	20	629	-76
1	46601	0871	0000	20	661	-78
2	46601	0871	5470	21	640	-79
3	46601	0871	0000	23	513	-84
4	46601	0853	70AD	61	626	-89
5	46601	0853	70AE	61	532	-90
6	46601	0871	5278	46	649	-92


Refresh

	LAC	Cell ID	BCCH
<input checked="" type="checkbox"/> Preferred this Cell	0853	70AD	626

Submit Reset

---

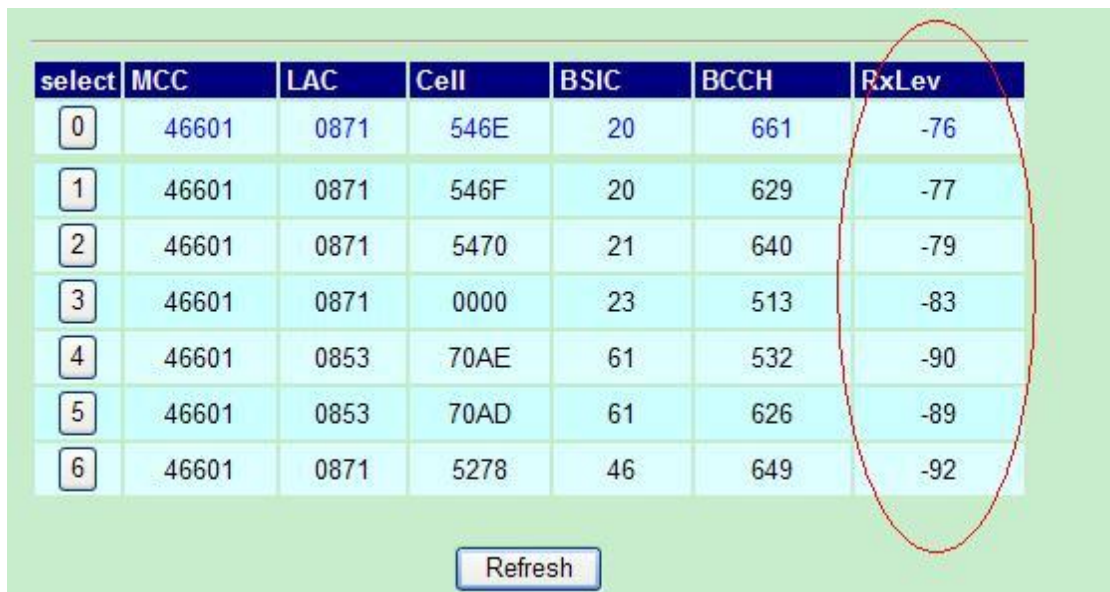
After system restart and turn to Standby, please check on No.0 cell and confirm the current registered cell you selected. At the point, the GSM module won't provide the data of surrounding cell signal, but shows -110dbm on No.1 to No.6 RxLev, which means GSM signal 0.



select	MCC	LAC	Cell	BSIC	BCCH	RxLev
0	46601	0853	70AD	61	626	-88
1	46601	0871	546F	20	629	-110
2	46601	0871	546E	20	661	-110
3	46601	0871	0000	23	513	-110
4	46601	0853	0000	61	532	-110
5	46601	0853	0000	23	656	-110
6	46601	0871	0000	27	667	-110

Refresh

- 
3. If you would like to research all the surrounding BCCH cells again, please cancel Preferred this Cell selection first and send Submit, Save Change to restart the gateway. That, System can detect the surrounding active cell, up to 6 cells and display Cell ID, signal and best signal (RXlev).



select	MCC	LAC	Cell	BSIC	BCCH	RxLev
0	46601	0871	546E	20	661	-76
1	46601	0871	546F	20	629	-77
2	46601	0871	5470	21	640	-79
3	46601	0871	0000	23	513	-83
4	46601	0853	70AE	61	532	-90
5	46601	0853	70AD	61	626	-89
6	46601	0871	5278	46	649	-92

Refresh

---

## 10.10 USSD (Unstructured Supplementary Service Data)

User can check USSD screen for SIM Balance remaining and SIM recharge (add value) automatically. Please work with this feature when the mobile status is “Stand by/Active”. And ensure your Service provider has given you a USSD string(Command) for checking SIM Balance and Recharge the SIM Card.

**PORTech**  
Your CTI Partner

**USSD List**

Rx Decoder: UCS2

CH	Balance	Response	SEL
1	*145*11#		<input type="checkbox"/>
2	*123*11#		<input type="checkbox"/>
3	*123*11#		<input type="checkbox"/>
4	*123*11#		<input type="checkbox"/>
5	*123*11#		<input type="checkbox"/>
6	*123*11#		<input type="checkbox"/>
7	*123*11#		<input type="checkbox"/>
8	*123*11#		<input type="checkbox"/>
9	*123*11#		<input type="checkbox"/>
10	*123*11#		<input type="checkbox"/>
11	*123*11#		<input type="checkbox"/>
12	*123*11#		<input type="checkbox"/>
13	*123*11#		<input type="checkbox"/>
14	*123*11#		<input type="checkbox"/>
15	*123*11#		<input type="checkbox"/>
16	*123*11#		<input type="checkbox"/>
17	*123*11#		<input type="checkbox"/>
18	*123*11#		<input type="checkbox"/>
19	*123*11#		<input type="checkbox"/>

### 1. Balance (SIM Balance remaining)

Step1: Select “Balance”

Step 2: Enter USSD command in Balance column

**PORTech**  
Your CTI Partner

**USSD List**

Rx Decoder: UCS2

1. Balance | Recharge | Checking |

CH	Balance	Response	SEL
1	*145*11#	entry clear cancel	<input type="checkbox"/>
2	*123*11#		<input type="checkbox"/>
3	*123*11#		<input type="checkbox"/>
4	*123*11#		<input type="checkbox"/>
5	*123*11#		<input type="checkbox"/>
6	*123*11#		<input type="checkbox"/>
7	*123*11#		<input type="checkbox"/>
8	*123*11#		<input type="checkbox"/>
9	*123*11#		<input type="checkbox"/>
10	*123*11#		<input type="checkbox"/>
11	*123*11#		<input type="checkbox"/>
12	*123*11#		<input type="checkbox"/>
13	*123*11#		<input type="checkbox"/>
14	*123*11#		<input type="checkbox"/>
15	*123*11#		<input type="checkbox"/>
16	*123*11#		<input type="checkbox"/>
17	*123*11#		<input type="checkbox"/>
18	*123*11#		<input type="checkbox"/>
19	*123*11#		<input type="checkbox"/>

2. 1: \*145\*11#

3. entry

Step 3: Enter “entry” button to save the command

Step 4: For Mutli Channel selection in one time, please click the “SEL” on the right button

The screenshot shows a configuration interface with a left-hand menu and a main table. The menu includes sections like **Dial Peer**, **Route**, **Mobile**, **Network**, and **SIP Settings**. The main table has columns for ID, a pattern (e.g., \*123\*11#), and a checkbox. A red circle labeled '4.' highlights a group of checkboxes in the rightmost column, specifically for rows 21 through 24. Below the table, a red circle labeled '5.' highlights the 'Send Selected' button. A note below the table reads: '\*: Click **Balance** data field to entry.'

ID	Pattern	Checkbox
10	*123*11#	<input type="checkbox"/>
11	*123*11#	<input type="checkbox"/>
12	*123*11#	<input type="checkbox"/>
13	*123*11#	<input type="checkbox"/>
14	*123*11#	<input type="checkbox"/>
15	*123*11#	<input type="checkbox"/>
16	*123*11#	<input type="checkbox"/>
17	*123*11#	<input type="checkbox"/>
18	*123*11#	<input type="checkbox"/>
19	*123*11#	<input type="checkbox"/>
20	*123*11#	<input type="checkbox"/>
21	*123*11#	<input checked="" type="checkbox"/>
22	*123*11#	<input checked="" type="checkbox"/>
23	*123*11#	<input checked="" type="checkbox"/>
24	*123*11#	<input checked="" type="checkbox"/>
25	*123*11#	<input type="checkbox"/>
26	*123*11#	<input type="checkbox"/>
27	*123*11#	<input type="checkbox"/>
28	*123*11#	<input type="checkbox"/>
29	*123*11#	<input type="checkbox"/>
30	*123*11#	<input type="checkbox"/>
31	*123*11#	<input type="checkbox"/>
32	*123*11#	<input type="checkbox"/>

\*: Click **Balance** data field to entry.

Buttons: **Send Selected**, **Cancel**

Step 5: Enter "Send Selected" for reply

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Your CTI Partner

**USSD List**

Rx Decoder:

CH	Balance	Recharge	Checking	Response	SEL
1	*145*11#			UNKNOWN APPLICATION	<input type="checkbox"/>
2	*123*11#				<input type="checkbox"/>
3	*123*11#				<input type="checkbox"/>
4	*123*11#				<input type="checkbox"/>
5	*123*11#				<input type="checkbox"/>
6	*123*11#				<input type="checkbox"/>
7	*123*11#				<input type="checkbox"/>
8	*123*11#				<input type="checkbox"/>
9	*123*11#				<input type="checkbox"/>
10	*123*11#				<input type="checkbox"/>
11	*123*11#				<input type="checkbox"/>
12	*123*11#				<input type="checkbox"/>
13	*123*11#				<input type="checkbox"/>
14	*123*11#				<input type="checkbox"/>
15	*123*11#				<input type="checkbox"/>
16	*123*11#				<input type="checkbox"/>

System will display the reply on “Response “column  
 (And system will auto refresh the page in 5 seconds for some late data coming)

---

## 2. Recharge (add value)

Step1: Select "Recharge"

Step 2: Enter USSD command in Recharge column

Step 3: Enter "entry" button to save the command

Step 4: For Mutli Channel selection in one time, please click the "SEL" on the right button

Step 5: Enter "Send Selected" for reply



#### 4. Rx Decoder

**PORTech**  
Your CTI Partner

**USSD List**

Rx Decoder: **ASC7** (selected)  
none  
ASC7  
UCS2

CH	Balance	Response	SEL
1	*145*11#	UNKNOWN APPLICATION	<input type="checkbox"/>
2	*123*11#		<input type="checkbox"/>
3	*123*11#		<input type="checkbox"/>
4	*123*11#		<input type="checkbox"/>
5	*123*11#		<input type="checkbox"/>
6	*123*11#		<input type="checkbox"/>
7	*123*11#		<input type="checkbox"/>
8	*123*11#		<input type="checkbox"/>
9	*123*11#		<input type="checkbox"/>
10	*123*11#		<input type="checkbox"/>
11	*123*11#		<input type="checkbox"/>
12	*123*11#		<input type="checkbox"/>
13	*123*11#		<input type="checkbox"/>
14	*123*11#		<input type="checkbox"/>
15	*123*11#		<input type="checkbox"/>
16	*123*11#		<input type="checkbox"/>
17	*123*11#		<input type="checkbox"/>
18	*123*11#		<input type="checkbox"/>
19	*123*11#		<input type="checkbox"/>

- a. None: GSM Format (Default)
- b. ASC7: ASCII 7bit
- c. UCS2: Unicode 16bit

When user select default GSM Format(None), it may not receive correct GSM code due to the different operator or GSM module/chipset. Please check below example,

In this case, user need to select other RX Decoder (ASCII or UCS2) to receive correct message.

For Example,

**None format:** When user send command, “\*145\*11#”, the return message show on system, “55E7D2F9BC3A41412894991C06A9C9A713”

**PORTech**  
Your CTI Partner

### USSD List

Rx Decoder: none

CH	Balance	Response	SEL
1	*145*11#	55E7D2F9BC3A41412894991C06A9C9A713	<input type="checkbox"/>
2	*123*11#		<input type="checkbox"/>
3	*123*11#		<input type="checkbox"/>
4	*123*11#		<input type="checkbox"/>
5	*123*11#		<input type="checkbox"/>
6	*123*11#		<input type="checkbox"/>
7	*123*11#		<input type="checkbox"/>
8	*123*11#		<input type="checkbox"/>
9	*123*11#		<input type="checkbox"/>
10	*123*11#		<input type="checkbox"/>
11	*123*11#		<input type="checkbox"/>
12	*123*11#		<input type="checkbox"/>
13	*123*11#		<input type="checkbox"/>
14	*123*11#		<input type="checkbox"/>
15	*123*11#		<input type="checkbox"/>
16	*123*11#		<input type="checkbox"/>
17	*123*11#		<input type="checkbox"/>

**ASC7 Format:** In this format, the return message is “UNKNOWN aPPLICATJON”

**PORTech**  
Your CTI Partner

**USSD List**

Rx Decdder: ASC7

Balance | Recharge | Checking |

CH	Balance	Response	SEL
1	*145*11#	UNKNOWN aPPLICATJON	<input type="checkbox"/>
2	*123*11#		<input type="checkbox"/>
3	*123*11#		<input type="checkbox"/>
4	*123*11#		<input type="checkbox"/>
5	*123*11#		<input type="checkbox"/>
6	*123*11#		<input type="checkbox"/>
7	*123*11#		<input type="checkbox"/>
8	*123*11#		<input type="checkbox"/>
9	*123*11#		<input type="checkbox"/>
10	*123*11#		<input type="checkbox"/>
11	*123*11#		<input type="checkbox"/>
12	*123*11#		<input type="checkbox"/>
13	*123*11#		<input type="checkbox"/>
14	*123*11#		<input type="checkbox"/>
15	*123*11#		<input type="checkbox"/>
16	*123*11#		<input type="checkbox"/>
17	*123*11#		<input type="checkbox"/>
18	*123*11#		<input type="checkbox"/>
19	*123*11#		<input type="checkbox"/>

Navigation menu on the left:  
Dial Peer  
Route  
Mobile  
Status  
Settings  
SMS Agcnt  
SIM Setting  
Operator Selling  
USSD  
Network  
SIP Settings  
SIUN Setting  
Update  
System Authority  
Save Change  
Reboot

UCS2 Format: In this format, the return message is “계좌번호: 1234567890 ”

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Your CTI Partner

**USSD List**

Rx Decoder: **UCS2**

CH	Balance	Response	SEL
1	*145*11#	계좌번호: 1234567890	<input type="checkbox"/>
2	*123*11#		<input type="checkbox"/>
3	*123*11#		<input type="checkbox"/>
4	*123*11#		<input type="checkbox"/>
5	*123*11#		<input type="checkbox"/>
6	*123*11#		<input type="checkbox"/>
7	*123*11#		<input type="checkbox"/>
8	*123*11#		<input type="checkbox"/>
9	*123*11#		<input type="checkbox"/>
10	*123*11#		<input type="checkbox"/>
11	*123*11#		<input type="checkbox"/>
12	*123*11#		<input type="checkbox"/>
13	*123*11#		<input type="checkbox"/>
14	*123*11#		<input type="checkbox"/>
15	*123*11#		<input type="checkbox"/>
16	*123*11#		<input type="checkbox"/>
17	*123*11#		<input checked="" type="checkbox"/>
18	*123*11#		<input type="checkbox"/>
19	*123*11#		<input type="checkbox"/>

---

## 11. Network

User can check the Network status and configure the WLAN Settings and SNTP settings.

### 11.1 WAN Setting

**PORTech**  
Your CTI Partner

**WAN Setting (RT)**

WAN Settings	
IP Type	<input checked="" type="radio"/> Fixed IP <input type="radio"/> DHCP Client <input type="radio"/> PPPoE
Main IP	192.168.0.98
Mask	255.255.255.0
Gateway	192.168.0.254
DNS 1	168.95.192.1
DNS 2	168.95.1.1
MAC	00037E011BF2

PPPoE Settings	
Username	
Password	

Submit Reset

#### 1. IP Type

- Fixed IP (Default IP: 192.168.0.100)
- DHCP Client
- PPPoE

2. Main IP: The current IP address. The IP changing need to under the Fixed IP mode.

#### 3. PPPoE Setting

The PPPoE Configuration item is to setup the PPPoE Username and Password. If you have PPPoE account from the Service Provider, please input the Username and the Password correctly

After the setting, please click submit and save change button and wait for system reboot

---

## 11.2 SNTP Settings

User 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.

**PORTech**  
Your CTI Partner

**SNTP Settings**

**SNTP:**  On  Off

Primary Server:

Secondary Server:

Time Zone: GMT   :  (hh:mm)

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

SNTP settings (Default: On)

After the setting, please click submit and save change button and wait for system reboot

---

## 12. SIP Setting

User 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 information correctly then you can register to SIP Proxy Server correctly.

### 12.1 Service Domain Setting

In Service Domain Function you need to input the account and the related information 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.

**PORTech**  
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- Dial Peer
- Route
- Mobile
- Network
- SIP Settings**
  - Service Domain**
  - Port Settings
  - Codec Settings
  - Codec ID Settings
  - DTMF Settings
  - SIP Responses
  - Other Settings
- STUN Setting
- Update
- System Authority
- Save Change
- Reboot

### Service Domain Settings

Mobile 1 ▾

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

Realm 2	
Active:	<input type="radio"/> ON <input checked="" type="radio"/> OFF
Display Name:	<input type="text"/>
User Name:	<input type="text"/>
Register Name:	<input type="text"/>
Register Password:	<input type="password"/>
Domain Server:	<input type="text"/>
Proxy Server:	<input type="text"/>
Outbound Proxy:	<input type="text"/>
Status:	Not Registered

- 
- (1) Active: On /OFF
  - (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) Status: Register or Not register

After the setting, please click submit and save change button and wait for system reboot

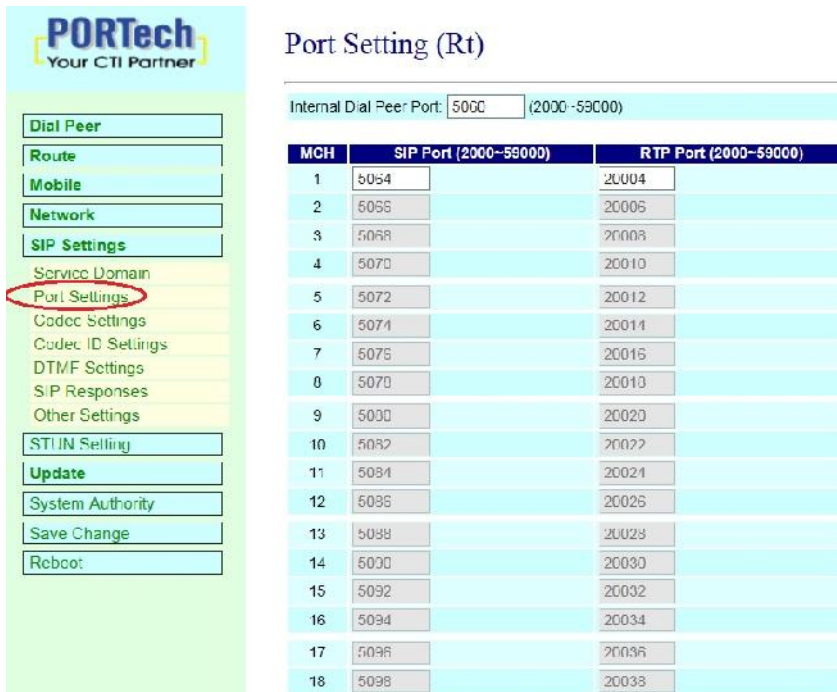
Example:  
Register VoipBuster

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
Outbound Proxy:	<input type="text"/>
Status:	Registered



---

## 12.2 Ports Setting



**PORTech**  
Your CTI Partner

**Port Setting (Rt)**

Internal Dial Peer Port:  (2000-59000)

MCH	SIP Port (2000~59000)	RTP Port (2000~59000)
1	<input type="text" value="5064"/>	<input type="text" value="20004"/>
2	<input type="text" value="5066"/>	<input type="text" value="20006"/>
3	<input type="text" value="5068"/>	<input type="text" value="20008"/>
4	<input type="text" value="5070"/>	<input type="text" value="20010"/>
5	<input type="text" value="5072"/>	<input type="text" value="20012"/>
6	<input type="text" value="5074"/>	<input type="text" value="20014"/>
7	<input type="text" value="5076"/>	<input type="text" value="20016"/>
8	<input type="text" value="5078"/>	<input type="text" value="20018"/>
9	<input type="text" value="5080"/>	<input type="text" value="20020"/>
10	<input type="text" value="5082"/>	<input type="text" value="20022"/>
11	<input type="text" value="5084"/>	<input type="text" value="20024"/>
12	<input type="text" value="5086"/>	<input type="text" value="20026"/>
13	<input type="text" value="5088"/>	<input type="text" value="20028"/>
14	<input type="text" value="5090"/>	<input type="text" value="20030"/>
15	<input type="text" value="5092"/>	<input type="text" value="20032"/>
16	<input type="text" value="5094"/>	<input type="text" value="20034"/>
17	<input type="text" value="5096"/>	<input type="text" value="20036"/>
18	<input type="text" value="5098"/>	<input type="text" value="20038"/>

Internal Dial Peer Port: default = **5060** (\*important\* this port number can't coincide with SIP port or RTP port)

SIP port: default = ch1:5064 ch2:5066 ch3:5068...etc (\*important\* this port number can't coincide with dial peer port or RTP port)

You can only change the port number on Ch1; other Channels will be changed automatically

RTP port: default = ch1:20004 ch2:20006 ch3:20008...etc (\*important\* this port number can't coincide with dial peer port or SIP port)

You can only change the port number on Ch1; other Channels will be changed automatically

After the setting, please click Submit and save change button to wait for system reboot

## 12.3 Codec Settings:

User can setup the Codec priority, RTP packet length in this page. Please follow the ISP suggestion to setup these items.

**PORTech**  
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**Dial Peer**  
**Route**  
**Mobile**  
**Network**  
**SIP Settings**  
Service Domain  
Port Settings  
**Codec Settings**  
Codec ID Settings  
DTMF Settings  
SIP Responses  
Other Settings  
**STUN Setting**  
**Update**  
System Authority  
Save Change  
Reboot

### 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

Submit Reset

### RTP Packet Length

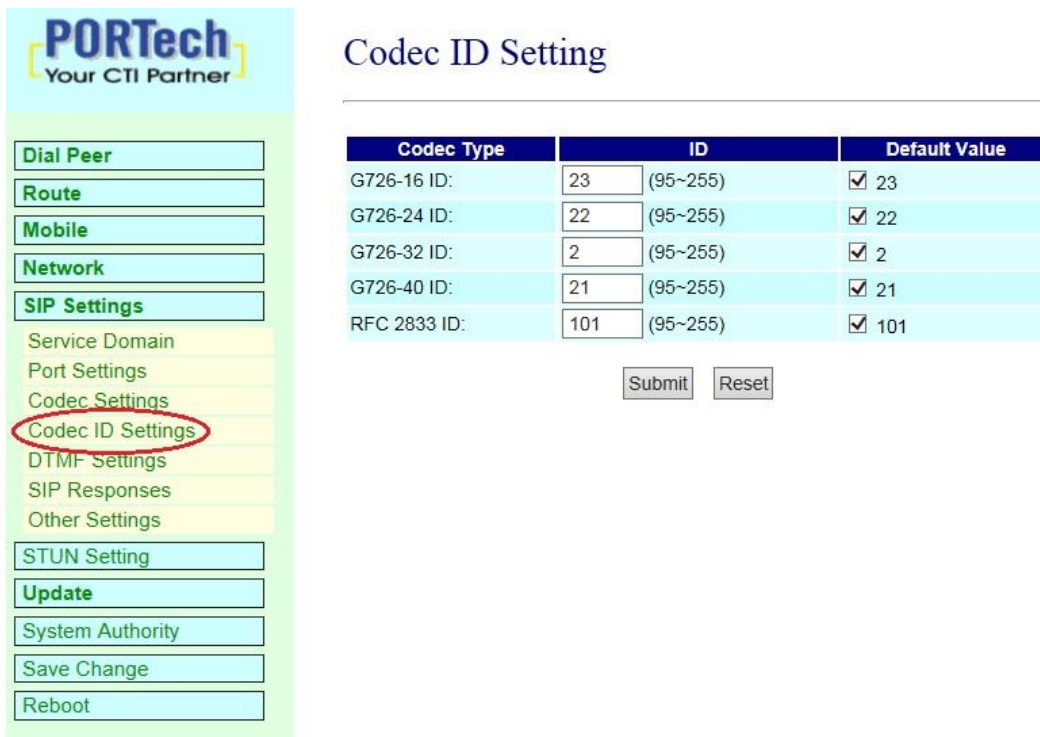
1. G.711 & G.729: Default is 20ms.  
Range: 10ms, 20ms, 30ms, 40ms, 50ms, 60ms, 70ms, 80ms, 90ms
2. G.723: Default:  
Range: 30ms, 60ms, 90ms

After the setting, please click Submit and save change button to wait for system reboot

---

## 12.4 Codec ID Setting

User can setup the Codec ID in this page.  
After the setting, please click Submit and save change button to wait for system reboot



**PORTech**  
Your CTI Partner

- Dial Peer
- Route
- Mobile
- Network
- SIP Settings**
  - Service Domain
  - Port Settings
  - Codec Settings
  - Codec ID Settings**
  - DTMF Settings
  - SIP Responses
  - Other Settings
- STUN Setting
- Update
- System Authority
- Save Change
- Reboot

### Codec ID Setting

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

---

## 12.5 DTMF Setting

**PORTech**  
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).

**SIP Settings**

- Service Domain
- Port Settings
- Codec Settings
- Codec ID Settings
- DTMF Settings**
- SIP Responses
- Other Settings

**STUN Setting**

**Update**

System Authority

Save Change

Reboot

### 1. Format:

- 2833: Default RFC2833, the type of DTMF Data Transfer Format
- Inband: The Type of Inband DMTF Data Transfer Format
- SIP Info: The Type of SIP-Info DMTF Data Transfer Format;

2. Duration: Default is -1. It's the duration for MV-3716/MV-3732 to defect sender's DTMF. If the parameter is 0, MV-3716/MV-3732 won't detect sender's DTMF. Parameter is 0~999 seconds. After that duration, MV-3716/MV-3732 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.

After the setting, please click Submit and save change button to wait for system reboot

---

## 12.6 SIP Responses

**PORTech**  
Your CTI Partner

**SIP Responses**

2013-06-05 16:37

**Mobile Busy Response**

Unavailable	486 Busy here
Ring Timeout	486 Busy here

**SIP Ring Responses**

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

submit reset

### Mobile Busy Response

1. Unavailable: User can setup the SIP response code of LAN side while the call dial failed or in busy line
  - a. 486 Busy Here (Default)
  - b. 503 Service unavailable
  - c. 480 Temporarily unavailable
2. Ring Timeout: User can setup the response SIP code of LAN side while operators hang up the no answered calls
  - a. 486 Busy Here (Default)
  - b. 503 Service unavailable
  - c. 480 Temporarily unavailable

---

## **SIP Ring Response**

### 1. 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)

### 2. 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.

After the setting, please click Submit and save change button to wait for system reboot

---

## 12.7 Other Settings

User can setup the Hold by RFC and QoS in this page. To change these settings, please follow your ISP information. 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.

**PORTech**  
Your CTI Partner

**Other Setting**

Mobile 1, 2 ▼

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:  (30~86400 sec)

1. Hold RFC of Mobile:
  - a. On: To activate Hold RFC of Mobile
  - b. OFF (Default)
2. Voice QoS : The setting of Voice QoS, Default is 40
3. SIP QoS : The setting of SIP QoS, Default is 40
4. SIP Expire Time : The setting of SIP Expire Time, Default is 40

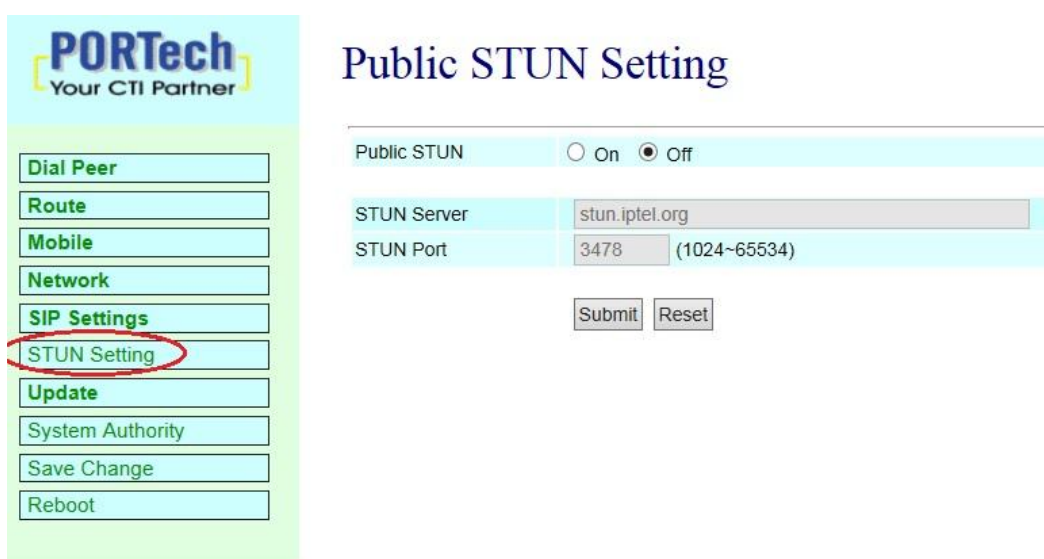
After the setting, please click Submit and save change button to wait for system reboot

You can click Submit All to copy to Mobile setting, and select Yes and save change to wait for the system reboot

---

## 13. STUN Setting

User 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. Please following your ISP information to change the settings



**PORTech**  
Your CTI Partner

**Public STUN Setting**

Public STUN  On  Off

STUN Server

STUN Port  (1024~65534)

**Dial Peer**

**Route**

**Mobile**

**Network**

**SIP Settings**

**STUN Setting**

**Update**

System Authority

Save Change

Reboot

Public STUN OFF → Default is OFF; While the WAN setting of MV-3716/MV-3732 is in Static IP or Private IP please selects Public STUN OFF.

Public STUN ON → While MV-3716/MV-3732 is working under Firewall or behind NAT, It will cause SIP can't register, or one side communicate, please select Public STUN ON.

STUN Server→ The STUN Server IP (Default: stun.iptel.org)

STUN Port→ The STUN Port (Default: 3478)

After the setting, please click Submit and save change button to wait for system reboot



---

## 14. Update

### 14.1 Update Firmware

User can update the system's firmware to the new one or the factory reset to let the system back to default setting.

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

**PORTech**  
Your CTI Partner

**Update Firmware**  
Ver = v10.272 , GZ = r4nat , PCB = 3748NAT .

HTTP

Code Type: RISC ▾

File Location:  Browse...

Submit Reset

Dial Peer  
Route  
Mobile  
Network  
SIP Settings  
STUN Setting  
Update  
**New Firmware**  
Default Settings  
System Authority  
Save Change  
Reboot

Step:

- (1) Select the firmware code type, Risc code only.
- (2) 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.
- (3) Select the correct file you want to download to the system then click the Update button.
- (4) Please click update/default setting after update firmware

---

## 14.2 Default Settings



### Restore Default Settings

Restore default settings:

Restore factory all settings:  ( included all IP address )

1. Restore default settings: User can restore the factory default settings to the system. All setting will restore default setting. The device IP still is the user original IP.
2. Restore factory all settings: All setting will be restored to default setting. The device IP will be back to 192.168.0.100

---

## 15. System Authority

User can change the login name and password



**PORTech**  
Your CTI Partner

**Dial Peer**  
**Route**  
**Mobile**  
**Network**  
**SIP Settings**  
STUN Setting  
**Update**  
**System Authority**  
Save Change  
Reboot

### System Authority

New username:

New password:

Confirmed password:

---

## 16. Save Change

User can save the changes after the setting is 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




The screenshot displays the PORTech web interface. On the left, a sidebar contains a list of menu items: Dial Peer, Route, Mobile, Network, SIP Settings, STUN Setting, Update, System Authority, Save Change (circled in red), and Reboot. The main content area is titled 'Save Changes' and includes the text 'You have to save changes to effect them.' followed by a horizontal line. Below this, the text 'Save Changes:' is followed by a 'Save' button.

---

## 17. Reboot

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



**PORTech**  
Your CTI Partner

- Dial Peer
- Route
- Mobile
- Network
- SIP Settings
- STUN Setting
- Update
- System Authority
- Save Change
- Reboot

### Reboot System

Reboot system:

---

## 18. Specification

### 18.1 Protocols

SIP (RFC2543, RFC3261)

### 18.2 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

### 18.3 Codec

G.711 u-Law

G.711 a-Law

G.729A

G.729A/B

### 18.4 Voice Quality

VAD

CNG

AEC, LEC

---

---

Packet loss

18.5 GSM (MV-3716/MV-3732)

Quad Band: 900/1800/1900/850MHZ

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

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

CDMA 2000(800MHZ/1900MHZ)

**\*\*Please note\*\***

1. Most CDMA -2000 operators don't offer Answer signal.

So VoIP to Mobile, MV-3716/MV-3732 will connect soon.

CDMA -2000 operators will start billing soon. It doesn't wait mobile side answer

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

3. CDMA version doesn't have Remote SIM feature

## 19. 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-37x 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-37x 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-37x will provide dial tone and you can enter mobile number.
(2)	* , specific mobile number
	When LAN phone call in, MV-37x will connect with the specific mobile number auto.
(3)	* ,#--->It is 1 stage dialing
	When LAN phone and MV-37x 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-37x

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



## 20. Appendix: Setup MV-37x with Asterisk

### MV-37x 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)		
<b>Mobile 1</b> <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: <input type="text"/>	Confirmed:	<input type="text"/>
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

<b>Realm 1 (Default)</b>	
Active:	<input checked="" type="radio"/> ON <input type="radio"/> OFF
Display Name:	<input type="text"/>
User Name:	<input type="text"/>
Register Name:	<input type="text"/>
Register Password:	<input type="text"/>
Domain Server:	192.168.0.192:5060
Proxy Server:	192.168.0.192:5060
Outbound Proxy:	<input type="text"/>
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

Set your Asterisk IP or extension or \*

Page: 1

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

As Asterisk GSM Route

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"/>

## Dial Peer Setting

**Dial Peer**

Status  
Settings

**Route**

**Mobile**

**Network**

**SIP Settings**

STUN Setting

**Update**

System Authority

Save Change

Reboot

**Transfer SIP Message**

Yes  No Replace contact to Dial Peer.

**SIP Response when all busy.**

600 Busy Everywhere (default)  
 408 Request Timeout

**Dial Peer**

Working Mode  OFF  Internal  External

External URL  ( [Dial Peer for XP](#) )

Submit

Reset

**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
- STUN Setting
- Update
- System Authority

## Ports Setting

Internal Dial Peer Port:  (1024~19900)

	SIP Port (1024~19900)	RTP Port (20000~59900)
Mobile 1	<input type="text" value="5064"/>	<input type="text" value="20004"/>
Mobile 2	<input type="text" value="5066"/>	<input type="text" value="20006"/>
Mobile 3	<input type="text" value="5068"/>	<input type="text" value="20008"/>
Mobile 4	<input type="text" value="5070"/>	<input type="text" value="20010"/>
Mobile 5	<input type="text" value="5072"/>	<input type="text" value="20012"/>
Mobile 6	<input type="text" value="5074"/>	<input type="text" value="20014"/>
Mobile 7	<input type="text" value="5076"/>	<input type="text" value="20016"/>
Mobile 8	<input type="text" value="5078"/>	<input type="text" value="20018"/>

Don't forget to Save changes and then reboot

---

Asterisk / Trixbox setting

Add SIP Trunk:

**Edit SIP Trunk**

[Delete Trunk SIM1](#)

[In use by 1 route](#)

**General Settings**

[Outbound Caller ID:](#)  Type your mobile number

[Never Override CallerID:](#)

[Maximum channels:](#)  MV-374: 4  
MV-378: 8

**Outgoing Dial Rules**

[Dial Rules:](#)

[Dial rules wizards:](#)

[Outbound Dial Prefix:](#)

---

### Outgoing Settings

Trunk Name:

SIM1

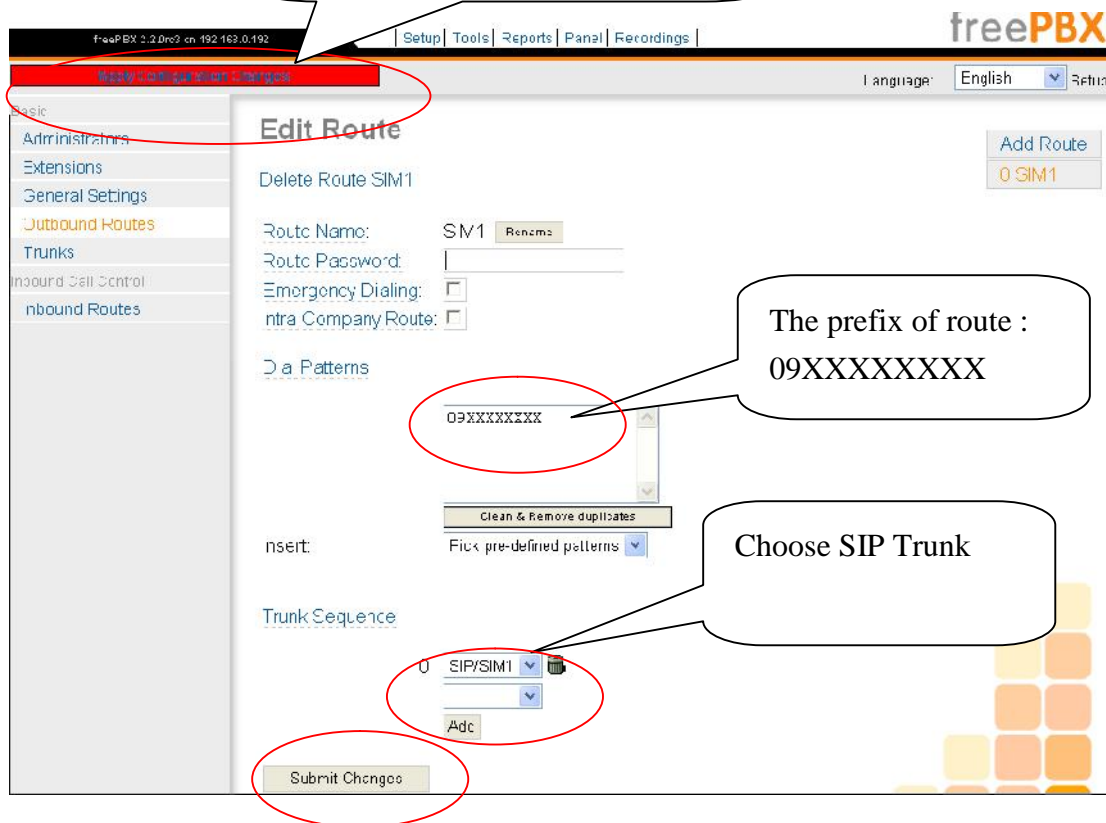
PEER Details:

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

Type MV-37X's IP and port

Set GSM Route that dial out via MV-37X

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



The prefix of route :  
09XXXXXXXX

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.



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