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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 \lceil MV-3716/MV-3732 \rfloor 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-3732

(3.1) MV-3716



(3.2) Power adapter



(3.3)



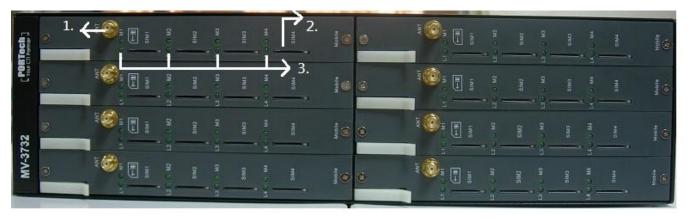
(3.4)



(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
- 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. <u>http://192.168.0.100</u>). The following page shows up :

| The server 192 and password | .168.0.100 at Embedded WEB Server requires a usernam | ie |
|--|--|-----|
| Warning: This sent in an inse connection). | server is requesting that your username and password cure manner (basic authentication without a secure | be |
| | voip eeeel Remember my credentials | |
| | OK Can | cel |

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.



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: | sales@portech.com.tw |
| Web Site: | http://www.portech.com.tw. |
| | |

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8. Dial Peer

8.1 Status

| PORTech | | | | Dial P | eer Status - 2013 | 3-06-06 09:4 | 7 |
|------------------|----|--------|-----------|--------|-------------------|--------------|------------------------|
| Your CTI Partner | ch | grp St | ate MNC | SQ | Mobile | dir | LAN |
| | 1 | 0 idl | e/1 46692 | 21 | 0963283792 | < | 123@192.168.0.127:6050 |
| | 2 | 0 idl | e/1 46692 | 20 | - | - | - |
| Dial Peer | 3 | 0 idl | e/1 46692 | 21 | 22 | - | 120 |
| Status) | 4 | 0 idl | e/1 46692 | 21 | 12 | 2 | |
| Settings | 5 | 0 idl | e/1 46692 | 21 | 1.5 | | 1.50 |
| | 6 | 0 idl | e/1 46692 | 21 | 1.00 | | - |
| Prefixs | 7 | 0 idl | | 11 | - | - | (-) |
| CDR | 8 | 0 idl | e/1 46692 | 21 | | - | - |
| Route | 9 | 0 idl | e/1 46692 | 21 | 1073 | - | - |
| | 10 | 0 idl | e/1 46692 | 22 | - | - | - |
| Mobile | 11 | 0 idl | e/1 46692 | 22 | 0.00 | - | |
| Network | 12 | 0 idl | e/1 46692 | 21 | | + | - |
| Vetwork | 13 | 0 idl | e/1 46692 | 22 | - | - | - |
| SIP Settings | 14 | 0 idl | e/1 46692 | 12 | (14) | - | |
| | 15 | 0 idl | e/1 46601 | 19 | 1.5 | - | 15 5 2 |
| STUN Setting | 16 | 0 idl | e/1 46692 | 22 | | - | - |
| Jpdate | 17 | 0 idl | e/1 46692 | 20 | 826 | 2 | 20 |
| | 18 | 0 idl | e/1 46692 | 20 | 14 | 2 | 123 |
| System Authority | 19 | 0 idl | e/1 46692 | 20 | 1070 | - | |
| Save Change | 20 | 0 idl | e/1 46692 | 20 | | - | - |
| Save Ghange | 21 | 0 idl | e/1 46692 | 19 | 15 | - | |
| Reboot | 22 | 0 idl | e/1 46692 | 17 | - | - | - |
| | 23 | 0 idl | e/1 46692 | 17 | - | - | (a) |
| | 24 | 0 idl | e/1 46697 | 21 | 24 | - | 12 |
| | 25 | 0 idl | e/1 46692 | 15 | | * | (#R |
| | 26 | 0 idl | e/1 46601 | 18 | - | * | - |
| | 27 | 0 idl | e/1 46692 | 14 | - | - | - |
| | 28 | 0 idl | e/1 46692 | 14 | 14 | 21 | (2) |
| | 29 | 0 idl | e/1 46692 | 20 | 122 | 2 | (2) |
| | 30 | 0 idl | e/1 46692 | 20 | 975 | - | 1.52 |
| | 31 | 0 ini | t/0 - | - | 1.5 | - | - |
| | 32 | 0 ini | L/O - | | - | - | - |

- 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
- 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

| Your CTI Partner | Dial Peer Setting | | | | | | | |
|------------------|-------------------|-------------------------------|--|--|--|--|--|--|
| | | Transfer SIP Message | | | | | | |
| Dial Peer | • Yes O No | Replace contact to Dial Peer. | | | | | | |
| Status | | | | | | | | |
| Settings | | SIP Response when all busy | | | | | | |
| Pretixs | 600 600 | Busy Everywhere (default) | | | | | | |
| CDR | O 408 | Request Timeout | | | | | | |
| Route | ○ 480 | Temporarily unavailable | | | | | | |
| Mobile | ○ 503 | Service unavailable | | | | | | |
| Network | | Dial Peer | | | | | | |
| SIP Settings | Working Mode | OFF Internal | | | | | | |
| STUN Setting | External URL | (<u>Dial Peer</u> for XP) | | | | | | |
| Update | | | | | | | | |
| System Authority | | Submit Reset | | | | | | |
| Save Change | | | | | | | | |
| Reboot | | | | | | | | |

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

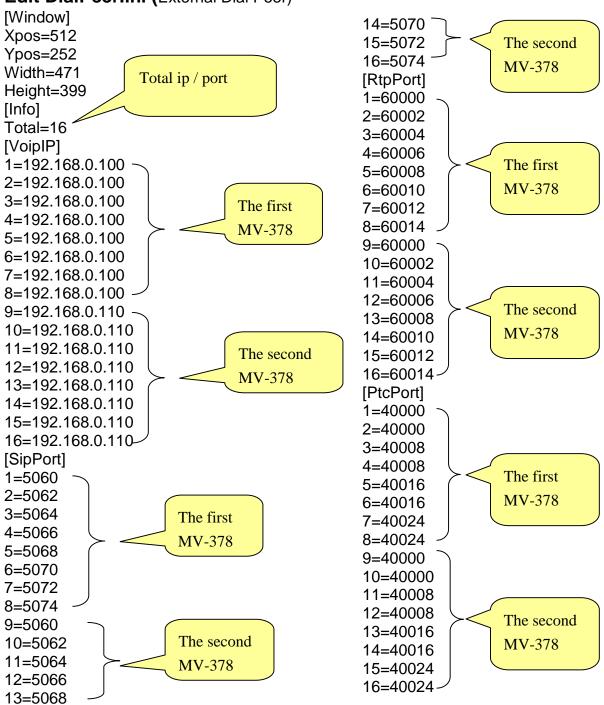
- 600 : Busy Everywhere (default)
- 408 : Request Timeout
- 480 : Temporarily unavailable
- 503: Service unavailable

3. Dial Peer

Working Mode \rightarrow

- 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 \rightarrow External Dial peer program's IP address and port number



Edit DialPeer.ini (External Dial Peer)

External Dial Peer Log

You can check the Statue here

| Log | Status Set | Event | | | |
|-----|---------------|-------|----|--------|-------------------|
| СН | MvIP | port | sq | state | remote |
| 1 | 192.168.0.111 | 5064 | 23 | IDLE/1 | 192.168.0.96:5060 |
| 2 | 192.168.0.111 | 5066 | 22 | IDLE/1 | 192.168.0.96:5060 |
| 3 | 192.168.0.111 | 5068 | 21 | IDLE/1 | 192.168.0.96:5060 |
| 4 | 192.168.0.111 | 5070 | 21 | IDLE/0 | 192.168.0.96:5060 |
| 5 | 192.168.0.111 | 5072 | 20 | IDLE/1 | 192.168.0.96:5060 |
| 6 | 192.168.0.111 | 5074 | 21 | IDLE/1 | 192.168.0.96:5060 |
| 7 | 192.168.0.111 | 5076 | 20 | IDLE/1 | 192.168.0.96:5060 |
| 8 | 192.168.0.111 | 5078 | 20 | IDLE/1 | 192.168.0.96:5060 |
| | | | | | |
| | | | | | |
| | | | | | |

- 1. CH: The number for GSM port of MV-37X
- 2. MvIP: The IP address of MV-37X for Dial Peer connection
- 3. Port: The corresponding port for MV-37X
- 4. Sq: Signal Quality for MV-37X GSM Port:
- 5. State: The GSM Port Sate status

INIT/1: GSM module is initialing IDLE/0: GSM module is not register IDLE/1: GSM module is registered BUSY: GSM Port is busy LISTEN: GSM port is engaged OFF/0: GSM module is out of working

6. Remote: The VoIP Sender's IP

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

| | Group Ena | able: ON OF | F | |
|----------------|-----------|-------------|--------|---|
| al Peer | Group | Name | Prefix | S |
| atus | 0 | test | 09 | |
| ttings | 1 | | | |
| efixs | 2 | | | |
| ute | 3 | | | |
| bile | 4 | | | |
| twork | 5 | | | |
| | 6 | | | |
| P Settings | 7 | | | |
| UN Setting | 8 | | | |
| date | 9 | | | |
| stem Authority | 10 | | | |
| ve Change | 11 | | | |
| boot | 12 | | | |
| | 13 | | | |
| | 14 | | | |
| | 15 | | | |

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.

| Your CTI Partner | 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 | - | - | - |
| ial Peer | 3 | 0 | idle/1 | 46692 | 21 | - | - | - |
| Status | 4 | | idle/1 | 46692 | 21 | - | - | |
| Settings | 5 | 0 | idle/1 | 46692 | 21 | - | - | 9 |
| | 6 | 0 | idle/1 | 46692 | 21 | - | 21 | - |
| Prefixs | 7 | 0 | idle/1 | 46692 | 12 | - | -1 | 2 |
| CDR | 8 | 0 | idle/1 | 46692 | 21 | - | - | 2 |
| Route | 9 | 0 | idle/1 | 46692 | 21 | - | - | - |
| | 10 | 0 | idle/1 | 46692 | 22 | S - S | 21 | 12- |
| lobile | 11 | 0 | idle/1 | 46692 | 22 | - | - | 12 |
| letwork | 12 | 0 | idle/1 | 46692 | 21 | - | - | - |
| letwork | 13 | 0 | idle/1 | 46692 | 23 | 500 | | -5 |
| IP Settings | 14 | 0 | idle/1 | 46692 | 12 | - | - | 5 |
| TINION | 15 | 0 | idle/1 | 46601 | 18 | | - | |
| TUN Setting | 16 | 0 | idle/1 | 46692 | 22 | 9 - 3 | - | ÷ |
| Ipdate | 17 | 0 | idle/1 | 46692 | 19 | - | - | 5 |
| | 18 | 0 | idle/1 | 46692 | 20 | - | - | - |
| System Authority | 19 | 0 | idle/1 | 46692 | 20 | - | - | 2 |
| ave Change | 20 | 0 | idle/1 | 46692 | 20 | - | - | |
| ave onlange | 21 | 0 | idle/1 | 46692 | 19 | 140 | - | - |
| Reboot | 22 | 0 | idle/1 | 46692 | 20 | - | - | 2 |
| | 23 | 0 | idle/1 | 46692 | 19 | - | - | <u> 1</u> |
| | 24 | 0 | idle/1 | 46697 | 21 | 1.5 | 73 | 5 |
| | 25 | 0 | idle/1 | 46692 | 15 | - | - | <u>74</u> |
| | 26 | 0 | idle/1 | 46601 | 18 | 223 | - | <u>.</u> |
| | 27 | 0 | idle/1 | 46692 | 17 | 222 | - | 45 |
| | 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 | 2 | 1 | - | - | - |

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 | - | 12 | - |
| 3 | 0 | idle/1 | 46692 | 22 | | 17 | 74 |
| 4 | 0 | idle/1 | 46692 | 21 | - | - | - |
| 5 | 0 | idle/1 | 46692 | 21 | - | - | - |
| 6 | 0 | idle/1 | 46692 | 21 | | 14 | - |
| 7 | 0 | idle/1 | 46692 | 12 | - | 12 | |
| 8 | 0 | idle/1 | 46692 | 21 | 2 | - | |

After setting, please click submit button

| Your CTI Partner | Group S | Select | | |
|--|---------|----------------------|---------------|--|
| | МСН | | Prefixs Group | |
| Dial Peer | 1 | 0: test (09) | | |
| Route | | 1: 2: 3: | ubmit roast | |
| Mobile | | 3: | submit reset | |
| Network | | 4: 5: | | |
| SIP Settings | | 6: 7: 8: 9: | | |
| STUN Setting | | 8: 9: | | |
| Update | | 10: 11: | | |
| System Authority | | 12: | | |
| Save Change | | 13: 14: | | |
| Reboot | | 15: | | |
| a de la companya de la | | | | |

| Your CTI Partner | | x Settings | 055 | | |
|---------------------|----------|------------|--------|---------|--|
| Dial Peer | Group Er | | | | |
| Status | Group | Name | | Prefixs | |
| | 0 | test | 09 | | |
| Settings Prefixs | 1 | | | | |
| CDR | 2 | | | | |
| Route | 3 | | | | |
| Mobile | 4 | | | | |
| Network | 5 | | | | |
| | 6 | | | | |
| SIP Settings | 7 | | | | |
| STUN Setting | 8 | | | | |
| Update | 9 | | | | |
| System Authority | 10 | | | | |
| Save Change | 11 | | | | |
| Reboot | 12 | | | | |
| | 13 | | | | |
| | 14 | | | | |
| | 15 | | | | |
| | | | submit | set | |

- 2.Group: The group number, total is 15 sets
- 3. Name: Fill the name of the group
- 4. Prefixs: 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 Se | tting | | | |
|-----------------------------|------------|--------------------|--|--|--|
| | CDR Server | | | | |
| Dial Peer | Active | ON OFF | | | |
| Status | Data ID | MV3732 | | | |
| Settings | Server URI | 192.168.0.156:5020 | | | |
| Prefixs | | | | | |
| CDR | | submit reset | | | |
| 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

| File I | Help | | | | | | | | | | |
|--------|---------------------|----|-----------------|--------------|-----|------------|---------------------|------|------|-------|--------|
| Log | og Status Set Event | | | | | | | | | | |
| * | id | ch | cimi | lan | dir | mobile | tStart | tAns | tEnd | state | remark |
| 1 | Mv-000000 | 7 | 466922102862561 | | l' | | | | | ldle | |
| 2 | Mv-000000 | 5 | 466921405104218 | | | | | | | ldle | |
| 3 | My-000000 | 4 | 466015800268726 | | | | | | | Idle | |
| 4 | Mv-000000 | 6 | 466015800268724 | | | | | | | ldle | |
| 5 | My-000000 | 8 | 466922102862549 | | | | | | | Idle | |
| 6 | My-000000 | 2 | 466923301930022 | | | | | | | Idle | |
| 7 | My-000000 | 3 | 466015400297468 | | | | | | | ldle | |
| 8 | My-000000 | 1 | 466922202956645 | 192.168.0.96 | > | 0980763178 | 2011/09/21 15:45:06 | | +26 | ldle | |
| 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

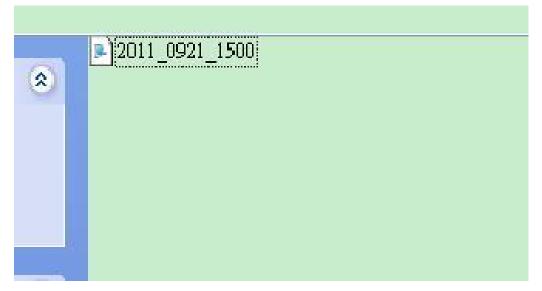
CDR Files store at <u>C:\Program Files\DialPeer</u>

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

If there's no calls in this hour, it won't creat any log.



CDR File



Example:

id=Mu-000000; ch=1; cimi=466922202956645; dir=L2H; iurl=192.168.0.96; omob=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 1st 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 26th 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

| | *: Click CID or URL data field to entry | | | | | |
|--------------------------|---|-----|-----|----|--|--|
| | MCH | CID | URL | SE | | |
| Dial Peer | 1 | * 🗢 | * | C | | |
| Route | 2 | | | | | |
| Mobile To Lan Settings | 3 | | | E | | |
| Mobile To Lan Speed Dial | 4 | | | | | |
| Lan To Mobile Settings | 5 | | | E | | |
| Mobile | 6 | | | E | | |
| | 7 | | | | | |
| Network | 8 | | | E | | |
| SIP Settings | 9 | | | E | | |
| STUN Setting | 10 | | | C | | |
| 5 | 11 | | | | | |
| Update | 12 | | | | | |
| System Authority | 13 | | | E | | |
| Save Change | 14 | | | | | |
| | 15 | | | | | |
| Reboot | 16 | | | 0 | | |

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 | Mobile | e to LAN table | | |
|-----------------------------|----------|----------------------------|---------|-----|
| | | or URL data field to entry | | |
| Dial Peer | MCH | CID | URL | SEL |
| Route | | Entry | cancel | |
| Mobile | 3 | Lindy | CallCel | |
| Network | 4 | | | |
| SIP Settings | 5 | | | |
| STUN Setting | 7 | | | |
| Update | 8 | | | |
| System Authority | 9 10 | | | |
| Save Change | 11 | | | |
| Reboot | 12 | | | |
| | 13 14 | | | |
| | 15 | | | |
| | 16 | | | |

- 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

| Your CTI Partner | Mobile 7 | To Lan Spee | d Dial | |
|--------------------------|-----------|--------------|----------------------|--------|
| Dial Peer | | ~ | | |
| Route | Item | Name | URL | Select |
| | 0 | JACK | 192.168.0.156 | |
| Mebile To Lan Settings | 1 | | | |
| Mobile To Lan Speed Dial | 2 | | | |
| Lan To Mobile Settings | 3 | | | |
| Mobile | 4 | | | |
| Network | 5 | | | |
| SIP Settings | 6 | | | |
| STUN Setting | 7 | | | |
| Update | 8 | | | |
| System Authority | 9 | | | |
| Save Change | | Delete Selec | ted Delete All Reset | |
| Reboot | 225 10 | | | |
| | Add New | | | |
| | Position: | (0~9) | | |
| | Name: | | | |
| | URL: | | | |
| | | A | 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 | LAN to Mobile table | | | | | |
|--------------------------|---------------------|------------------------------|----------|-----|--|--|
| | *: Click URL or | Call Num data field to entry | | | | |
| 1 | No. | URL | Call Num | SEL | | |
| Dial Peer | 1 | • 🗢 | # | | | |
| Route | 2 | | | | | |
| Mobile To Lan Settings | 3 | | | | | |
| Mobile To Lan Speed Dial | 4 | | | | | |
| Lan To Mobile Settings | 5 | | | | | |
| Mobile | 6 | | | | | |
| | 7 | | | | | |
| Network | 8 | | | | | |
| SIP Settings | 9 | | | | | |
| STUN Setting | 10 | | | | | |
| | 11 | | | | | |
| Update | 12 | | | | | |
| System Authority | 13 | | | | | |
| Save Change | 14 | | | | | |
| Reboot | 15 | | | | | |
| Rebut | 16 | | | | | |

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

| PORTech | LAN to Mobile table | | | | |
|--------------------------|---------------------|----------------------------------|---------|--|--|
| Your CTI Partner | *: Click URL or C | all Num data nelo to entry | | | |
| - Tour Chi Panner- | No | URL Call | Num SEL | | |
| | | * # | | | |
| Dial Peer | 2 | Entry cancel | | | |
| Route | 3 | | | | |
| Mobile To Lan Settings | 4 5 | | | | |
| Mobile To Lan Speed Dial | 6 | | | | |
| Lan To Mobile Settings | 7 | | | | |
| Mobile | 8 | | | | |
| Network | 9 | | | | |
| SIP Settings | 10 11 | | | | |
| STUN Setting | 12 | | | | |
| Update | 13 | | | | |
| System Authority | 14 | | | | |
| | 15 | | | | |
| Save Change | 16 | | | | |
| Reboot | 17 | | | | |
| | 18 | | | | |
| | 19 | | | | |
| | 20 21 | | | | |
| | 21 | | | | |
| | 23 | | | | |
| | 24 | | | | |
| | | | | | |
| | | Select ALL Delete Selected Reset | t | | |

- 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. 091111111
- (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

| Your CTI Partner | Mobile Statu | s |
|------------------|---------------------|-------------------------|
| | 2013-06-05 08:32 | |
| Dial Peer | Mobile 1 🗸 | |
| Route | Operator: | 46692: Chunghwa Telecom |
| Mobile | SIM Card ID: | 466922102862553 |
| Status | | |
| Settings | Signal Quality: | 20 |
| SMS Agent | Registration State: | 0,1 |
| SIM Setting | GSM S/N: | 862170016493106 |
| Operator Setting | | |
| BCCH Info | Motion State: | Standby |
| USSD | Incoming URL: | |
| Network | Incoming Name: | |
| SIP Settings | Outgoing IP: | |
| STUN Setting | Incoming Mob: | |
| Update | Outgoing Mob: | |
| System Authority | | |
| Save Change | | |

- (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

Reboot

- (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

| Dial Peer | VoIP Tx Gain LAN Dialtone Vol | 9 (0~12) 4 (0~12) | VoIP Rx Gain 11 (0~ |
|---------------------------------|----------------------------------|-----------------------|--------------------------|
| Route | LAN Dialone voi | 4 (0-12) | |
| Mobile | Mobile 1 ON | | |
| Status | Routing Range | 0 ~ 24 | |
| Settings | CODEC Tx Gain | 6 (0~7) | CODEC Rx Gain 6 (0~ |
| SMS Agent | SIP From: | Tel/User (Standard) V | Answer delay 0 (0~ |
| SIM Setting Operator Setting | Hide Caller ID | OON OOFF | Restart dial fails 1 (0~ |
| BCCH Info | PIN Code | On Code: | Confirm: |
| USSD | Dial Prefix | | LAN Answer Mode Answered |
| Network | Init AT Cmd | | |
| SIP Settings | interver only | | |
| STUN Setting | Mobile 2 ON | | |
| Update | Routing Range | 25 ~ 49 | |
| System Authority | CODEC Tx Gain | 6 (0~7) | CODEC Rx Gain 6 (0~ |
| Save Change | SIP From: | Tel/User (Standard) V | Answer delay 0 (0~ |
| Reboot | Hide Caller ID | OON OFF | Restart dial fails 1 (0~ |
| Tebool | PIN Code | On 🗌 Code: | Confirm: |
| | Dial Prefix | | LAN Answer Mode Answered |
| | Init AT Cmd | | |
| | | SubmitAll | it Reset |
| | Mobile 1:0 | | |
| | (6)Rx+ | | - |
| | Codec+ | GSI | |

- Rx+ GSM₽ Codec⊬ (2) VoIP Rx Gain+ Tx+ . DTMF₊/
- (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 proxy server ip,Username and choose Active: on (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

| VoIP Tx Gain | 9 (0~12) | VoIP Rx Gain | 11 (0~ | 15) |
|------------------|---------------------|--------------------|----------|-----|
| LAN Dialtone Vol | 4 (0~12) | | | , |
| | (/ | | | |
| Mobile 1 OOM | | | | |
| Routing Range | 0 ~ 24 | | | |
| CODEC Tx Gain | 6 (0~7) | CODEC Rx Gain | 6 (0~ | 7) |
| SIP From: | Tel/User (Standard) | Answer delay | 0 (0~ | 15) |
| Hide Caller ID | OON OFF | Restart dial fails | 1 (0~ | 15) |
| PIN Code | On 🗌 Code: | Confirm: | | |
| Dial Prefix | | LAN Answer Mode | Answered | ~ |
| Init AT Cmd | | | | |
| | | | 191 | |
| Mobile 2 ON | | | | |
| Routing Range | 25 ~ 49 | | | |
| CODEC Tx Gain | 6 (0~7) | CODEC Rx Gain | 6 (0~ | 7) |
| SIP From: | Tel/User (Standard) | Answer delay | 0 (0~ | 15) |
| Hide Caller ID | OON OFF | Restart dial fails | 1 (0~ | 15) |
| PIN Code | On 🗌 Code: | Confirm: | | |
| Dial Prefix | | LAN Answer Mode | Answered | ~ |
| Init AT Cmd | | | | |
| IIIII AT CITU | | | | |

10.3 Mobile / SMS Agent:

| PORTech Your CTI Partner | SMS Agent | Read receiv | ived SMS | |
|-----------------------------|----------------|---------------------------------|----------------------|---|
| Dial Peer | Port | Status | Bank | |
| Route | Mobile 1 | Standby. | Rx List | |
| Mobile | Mobile 2 | Standby. | Rx List | |
| Status | mobile 2 | otanaby. | TOLEOT | |
| Settings | | SMS Sender | 2 mode: | |
| SMS Agent | Encode ASC7 (A | SCII 7bit) 🗸 | 2 mode. | |
| SIM Setting | Via Mobile | 0 1 0 2 | ASC7(ASCII 7 bit) | |
| Operator Setting | Dest Num | | UCS2(Unicode 16 bit) | |
| BCCH Info USSD | Maximur | m Number of ASC7 chars for this | is text box | |
| | | | | - |
| Network | Message | | | |
| SIP Settings | | | ~ | |
| STUN Setting | You have | e 160 ASC7 chars remaining for | r your description | |
| Update | | | | |
| System Authority | | Send Now . | | |
| Save Change | | | | |
| Reboot | | | | |

- 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



| Read | Status | Caller ID | Date, Time |
|------|----------|--------------|-------------------|
| 1 | REC READ | 886935386862 | 08/05/15,15:41:46 |
| 2 | | | |

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

SMS Reader

| Idex | RemoteID | Date, Time |
|------|-------------------------------|--------------------|
| 1 | 886935386862 | 08/05/15, 15:41:46 |
| MV S | Gerial can send SMS and Recei | ive SMS |
| | | |

| Back | Delete |
|------|--------|
| Dack | Delete |

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

| ile <u>E</u> dit y | | ndow Help | 💼 • 🦪 🖣 | D • (2 + 6 | B 28 28 1 | <u>da</u> 2∕ Ma (|) 💼 🗄 |
|---|---|-----------|---------|--------------|-----------|-------------------|-------|
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| A1:A65536 | ✓ f _x ∑ = | | | | | | |
| , E | A B C | D | E | F | G | Н | I |
| 2 3 4 5 7 8 9 10 11 | Default Formatting Format Cells Insert Delete | | | | | | |
| 2 13 14 | Delete Contents | | | | | | |
| 15 16 17 18 | Cut Copy Copy Copy | | | | | | |

BLANk B

| | vrial | ~ | 10 💌 B | <u> I</u> | | |
|----|-------|------|--------------------|-----------|----|---|
| В1 | ~ | fx Z | = [| | | |
| | A | B | C | D | E | F |
| 2 | | | Default Formatting | | | |
| 3 | | | Eormat Cells | | | |
| 4 | | | Formac constru | - | 11 | |
| 5 | | | Insert | | | |
| 6 | | | Delete | | | |
| 7 | | 8 | Delete Contents | | | |
| 8 | | 「「 | Insert Note | - | | |
| 9 | | 1=) | Insert Note | - | | |
| 10 | | | Cut | - | | |
| 12 | | 6 | | - | | |
| 13 | | | Paste | | | |
| 14 | | | Paste Special | | | |
| 15 | | | | - | | |
| 16 | | | | | | |

Step 2

c.

In the Format Cells, please select "Text"

| 🛅 Untitled 1 - Oper | nOffice.org Calc | | | | - |
|---------------------------------------|---|---------------------------|----------------------|--------------------|-----------|
| <u>Eile E</u> dit <u>V</u> iew Insert | : F <u>o</u> rmat <u>T</u> ools <u>D</u> ata <u>V</u> | ⊻indow <u>H</u> elp | | | |
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| Arial | > 10 > | B / <u>U</u> ≡ ∃ | |] A 🔥 % 🐝 號 | * ** 🛋 🗖 |
| A1:A65536 | <i>f</i> _x ∑ = | | | | |
| A | Format Cells | | | | I |
| | () | Cell Pro | tection | | |
| 2 3 | Numbers Font For | nt Effects Alignment | Asian Typography | Borders Background | |
| 4 | Category | Format | Lang | juage | |
| 5 | Currency | <u> </u> | Def | ault 💌 | |
| 6 | Date Time | | | | |
| 8 | Scientific | | | | |
| 9 | Fraction | | | | |
| 10 | Text | | | 1234.57 | |
| 11 | | | | | |
| 12 13 | Options | | | 24 194 | |
| 14 | Decimal places | 0 | Negative numbers r | red | |
| 15 | Leading zeroes | 0: | 🔲 Ihousands separat | or | - |
| 16 17 | Eormat code | | | | |
| 18 | 0 | | | | |
| 19 | | | | | |
| 20 | | | | | - |
| 21 | | 0 | K Cancel | Help Reset | |
| Sheet1 | | | | Help Reset | |

• 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" File Edit View Insert Format Tools Data Window Help

| | • 🔰 🔙 🖂 | 2 🗟 🗟 😒 | ABC ABC | 🔀 🖣 🛱 • | ID • | 🤃 - 🛞 🤱 | 1 1 1 1 1 1 1 | / H Ø 🛛 | |
|-----|-----------|-------------------------------------|--------------|---------|------|-----------|----------------|---------|-----|
| . 9 | Arial | V 10 | <u>▼</u> B / | U≣≣ | | | ₽ % % % | | E - |
| B10 | | \checkmark $f_{\rm X} \Sigma = [$ | | | | | | | |
| | A | В | С | D | E | F | G | Н | I |
| 1 | 098888888 | How Are You? | | | | | | | |
| 2 | | | - | | | | | | |
| 3 | | | | | | | | | |
| 4 | | | | | | | | | |
| 5 | | | | | | | | | |
| 6 | | | | | | | | | |
| 7 | - | | | | | | | | |
| 8 | - | | | | | | | | |
| 9 | | | | | | | | | |
| 10 | | | | | | | | | |

Step 4 save the file

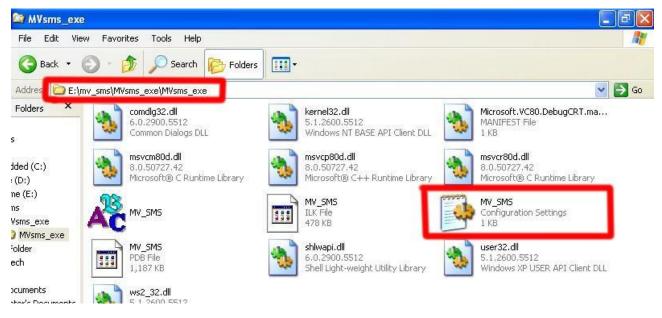
| | dit <u>View Insert Fo</u> rmat New • Open Ctrl+O Recent Documents • <u>W</u> izards • | | 🗙 🖣 🛍 • | ✓ 10 • (Ξ ≡ Ⅲ | | ₹4 1 <u>00</u> 2⁄ } % §% \$‰ |
|---|---|------------|---------|--|---|---------------------------------|
| 6 | ⊆lose | В | С | D | E | F |
| | Save Ctrl+S | | | | | |
| | Save <u>A</u> s Ctrl+Shift+S | V Are You? | | | | |
| | Sa <u>v</u> e All | | | | | |
| æ | Reload V <u>e</u> rsions | | | | | |
| | Export Export as PDF Send • | | | | | |
| Ð | Properties Digital Signatures Templates | | | | | |

Save the type as "Unicode Text"

| Save As | | | | | | | ? 🛛 |
|------------------------|-------------------------------------|--------------|---|-----|---|---------|-------|
| Save in: | 🞯 Desktop | | * | Q × | - | Tools - | |
| My Recent Documents | My Docume My Comput My Networ | er | | | | | |
| Desktop | | | | | | | |
| My Documents | | | | | | | |
| My Computer | | | | | | | |
| My Network | File <u>n</u> ame: | test | | | × | 5 | ave |
| Places | Save as <u>t</u> ype: | Unicode Text | | | ~ | Ca | ancel |

Step 5

Open MVsms_exe -→ MV-SMS (Configuration Settings)



Step 6

Please do the configuration as following:

MV-3732

| MV_SMS - Notepad | |
|--|--|
| File Edit Format View [info] Tota]=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

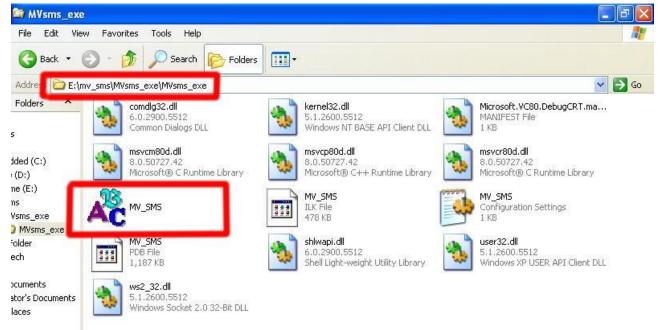
| MV_SMS - Notepad | |
|--|---|
| File Edit Format View Help | |
| [info] Total= [VOIP]=2 1=192.168.0.100 2=192.168.0.100 [PORT] 1=23 2=8023 [USER] 1=voip 2=voip [PASS] 1=1234 2=1234 | P |

MV-372 & MV-370



Step 7

Run MV-SMS program



Step 8

| 1. Open File | |
|----------------------------|---|
| NV_SMS | |
| Tool(T) Help(H) | |
| Open File(F) | ~ |
| Send Message(M) Exit(E) | |
| | |
| | |
| | |

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

| AC MV_SMS | | | | |
|---|------------------------------|---------------------|-----|----------------|
| Tool(T) Help(H) | | | | |
| Open | | | | ? 🛛 |
| Look in: My Recent Documents Desktop My Documents | Desktop | r | ← 🛍 | |
| My Network Places | File name: Files of type: | TEST text(*.txt) | • | Open Cancel |

Step 9

Sending

| MY_SMS [321.bxt] | × |
|-----------------------------|---|
| Tool(I) Help(H) | |
| === Login Telnet System === | |
| Start System Waiting | ~ |

Step 10

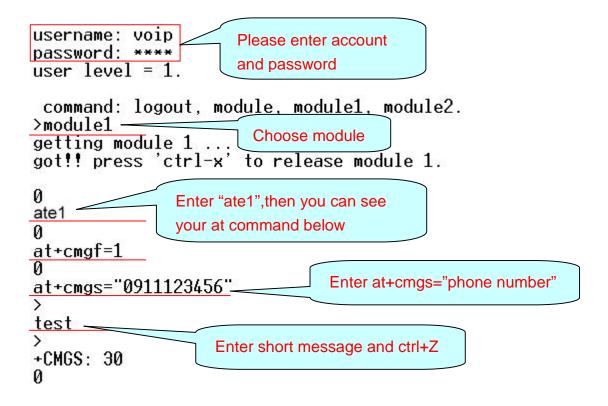
Send SMS Complete

| MY_SMS [321.bt] | |
|-----------------------------------|----------|
| Tool(I) Help(H) | |
| === Send SMS Complete === | <u>^</u> |
| [1] 0935386862 2009/2/25 09:59:36 | |
| [2] 0935386862 2009/2/25 09:59:28 | |
| [4] 0931266207 2009/2/25 09:59:27 | |
| [3] 0912062361 2009/2/25 09:59:27 | |
| [1] 0935386862 2009/2/25 09:59:13 | |
| [2] 0912062361 2009/2/25 09:59:05 | |
| [4] 0931266207 2009/2/25 09:59:05 | |
| [3] 0981086825 2009/2/25 09:59:05 | |
| === Login Telnet System === | |
| SMS Message Total: [8] | |

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



10.6 USSD SIM Balance Check via Telnet

| 🍫 5218 - 超銀終端機 | |
|---|--|
| 檔案·[P 編輯·[E] 檢視·[Y] 呼叫·[C] 轉送·[]] 說明·[E] | |
| | |
| <pre>username: voip password: **** user level = admin. command: logout, module1, module2, state1, state2, info. Imodule1 getting module 1; got!! press 'ctrl-x' to release module 1. 0 at+cusd=1,"145*111 0 +CUSD: 2,"Accepted",0 0 release module 1; 2. Module command</pre> | |
| 連線 00:01:43 ANSIW TCP/IP SCROLL CAPS NUM 擷 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 | |
|-----------------------------|------------------------|--------------------|
| oute | Index RemoteID | Date, Time |
| oile | 2 01145009310000990016 | 11/08/26, 15:24:43 |
| tus | 帳單金額HT\$1836.0 | ~ |
| tings | 付款期限8/28 | |
| Settings | 累計未付金額NT\$1836.0 | |
| Agent | 劃撥帳號19037959 |) |
| Setting | 帳單號碼4046247121 | |
| ator Setting | | |
| ork | | |
| Settings | Back | Delete |
| JN Setting | | |
| date | | |
| stem Authority | | |
| ve Change | | |
| boot | | |

10.7 SIM Setting

| PORTech | SIM Card Setting | | | | | | |
|------------------|------------------|------------------------------|--|--|--|--|--|
| | Mobile 1, 2 | V | | | | | |
| Dial Peer | | | | | | | |
| Route | CUID | 1 (0001 ~ 9999, Server mode) | | | | | |
| Mobile | | SIM Card of Mobile 1 | | | | | |
| Status | Mode | Local OBank OServer | | | | | |
| Settings | Mobile | ID: a0000000 Group: 1 | | | | | |
| SMS Agent | Card | ID: b0000000 | | | | | |
| SIM Setting | Bank URL | | | | | | |
| Operator Setting | Dalik URL | | | | | | |
| BCCH Info | Server URL | 192.168.0.157:13000 | | | | | |
| USSD | Status | 0@0.0.0.0:0 | | | | | |
| Network | 25 | | | | | | |
| SIP Settings | | SIM Card of Mobile 2 | | | | | |
| STUN Setting | Mode | | | | | | |
| Jpdate | Mobile | ID: a0000001 Group: 1 | | | | | |
| System Authority | Card Bank URL | ID: b000001 | | | | | |
| Save Change | | | | | | | |
| Reboot | Server URL | 192.168.0.157:13000 | | | | | |
| Reboot | Status | 0@0.0.0.0:0 | | | | | |
| | | SubmitAll Submit Reset | | | | | |
| | | | | | | | |

- 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 1st MV-3732 that you can't use "888" on 2nd 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 | Operator Mobile 1, 2 | r Setting ∽ | |
|-----------------------------|-------------------------|------------------------------------|------|
| Dial Peer | | | |
| Route | Mobile 1 : | | 1.54 |
| Mobile | Opreator ID | (0: resume auto) | List |
| Status | Work Mode | O Every time reset module Manual | Now |
| Settings | Mobile 2 : | | |
| SMS Agent | Opreator ID | (0: resume auto) | List |
| SIM Setting | 18.000 | (0. resume auto) | |
| Operator Setting | Work Mode | ○ Every time reset module Manual | Now |
| BCCH INTO | | | |
| USSD | | Submit Reset | |
| Network | | | |
| SIP Settings | | | |
| STUN Setting | | | |
| Update | | | |
| System Authority | | | |
| Save Change | | | |
| Reboot | | | |
| | | | |

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.

| lo | Status | Name | ID | Use |
|----|-----------|------------------------|-------|-----|
| 00 | Current | Chunghwa Telecom (CHT) | 46692 | 0 |
| 01 | Forbidden | Far EasTone (FET) | 46601 | 0 |
| 02 | Forbidden | Pacific GSM 1800 (TCC) | 46697 | 0 |
| 03 | | | | 0 |
| 04 | | | | 0 |
| 05 | | | | 0 |
| 06 | | | | 0 |
| 07 | | | | 0 |

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 (RXIev). 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.

| Your CTI Partner | BCC | CH Info | | | | | |
|------------------|---------|---------------|-------------|--------|-------|------------------|--------------|
| | Mobile | 1 🗸 | | | | | |
| Dial Peer | 1001001 | MCC | LAC | Cell | BSIC | вссн | Delaw |
| Route | Select | 46692 | OFAB | D3D2 | 14 | 31 | RxLev -70 |
| Mobile | | | | 0002 | 14 | | |
| Status | 1 | 46692 | 0FAB | AC9D | 10 | 30 | -84 |
| Settings | 2 | 46692 | OFAB | ACC2 | 11 | <mark>4</mark> 9 | -92 |
| SMS Agent | 3 | 46692 | OFAB | AC4E | 14 | 28 | -92 |
| SIM Setting | 4 | 46692 | 0FAB | D3AD | 14 | 34 | -93 |
| Operator Setting | 5 | 46692 | 0FAB | 3790 | 8 | 572 | -94 |
| BCCH Info | 1 const | | | | - | | |
| USSD | 6 | 46692 | 0FAB | 1140 | 10 | 43 | -97 |
| Network | | | | Refres | h | | |
| SIP Settings | | | | | | | |
| STUN Setting | | | | LAC | C | ell ID | BCCH |
| Update | Pref | erred this Ce | | 0FAB | _ | :9D | 30 |
| System Authority | | | | | | | |
| Save Change | | | | Submit | Reset | | |
| Reboot | | | | | | | |

- 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.

| Cel | l Info | | | | | |
|--------|--------|------|------|------|------|-------|
| select | МСС | LAC | Cell | BSIC | ВССН | 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 |
| -1 | 46601 | 0853 | 70AD | 61 | 626 | -89 |
| 5 | 46601 | 0853 | 70AE | 61 | 532 | -90 |
| 6 | 46601 | 0871 | 5278 | 46 | 649 | -92 |
| | | | Refr | esh | | |

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

| elect | 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 |
| | | | Refr | | | |
| Pref | erred this C | ell | LAC 0853 | | 70AD | BECH 626 |
| | | | Submit | Reset | 2 | |

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.

| elect | 46601 | LAC 0853 | Cell 70AD | BSIC 61 | BCCH 626 | RxLev -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 |

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).

| elect | 46601 | LAC 0871 | Cell 546E | BSIC 20 | BCCH 661 | RxLev -76 |
|-------|-------|----------|--------------|----------------|-------------|--------------|
| | 40001 | 0071 | 040L | 20 | 001 | -10 |
| 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 / |

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.

| | Rx Deco | oder: UCS2 💌 | | |
|---------------------------------|---------|---------------------------|----------|-----|
| Dial Peer | | | | |
| Route | | | | |
| Mobile | | nce Recharge Checking | | |
| Status | СН | Balance | Response | SEL |
| Settings | 1 | *145*11# | | E |
| SMS Agent | 2 | *123*11# | | E |
| SIM Setting Operator Setting | 3 | *123*11# | | . 🖿 |
| USSD | 4 | ^123^11# | | F |
| Network | 5 | *123*11# | | E |
| SIP Settings | 6 | *123*11# | | E |
| STUN Setting | 7 | *123*11# | | E |
| Update | 8 | *123*11# | | E |
| System Authority | 0 | *123*11# | | E |
| Save Change | 10 | *123*11# | | |
| Rebuol | 11 | *123*11# | | Г |
| | 12 | *123*11# | | E |
| | 13 | *123*11# | | E |
| | 14 | *123*11# | | E |
| | 15 | *123*11# | | E |
| | 16 | *123*11# | | E |
| | 17 | *123*11# | | E |
| | 18 | ×123×11# | | |
| | 19 | *123*11# | | E |

- 1. Balance (SIM Balance remaining)
- Step1: Select "Balance"
- Step 2: Enter USSD command in Balance column

| Dial Peer | | Rx Dec | oder: UCS2 💌 | | |
|--------------------------|----|--------|--------------|--------------|-----|
| Route | | 1. | | | |
| Mobile | | Balar | Recharge | Checking | |
| Status | | CH | Balance | Response | SEL |
| Settings | 2. | (1 | *145*11# | clear carcel | |
| SMS Agent | | 2 | *123*11# | 3. | |
| SIM Setting | | 3 | *123*11# | 5. | |
| Operator Setting USSD | | 4 | *123*11# | | |
| Network | | 5 | *123*11# | | |
| SIP Settings | 1 | 6 | *123*11# | | |
| STUN Setting | | 7 | *123*11# | | |
| Update | | 8 | *123*11# | | |
| System Authority | | g | *123*11# | | |
| Save Change | | 10 | *123*11# | | |
| Reboot | | 11 | *123*11# | | |
| | | 12 | *123*11# | | |
| | | 13 | *123*11# | | |
| | | 14 | *123*11# | | |
| | | 15 | *123*11# | | |
| | | 16 | *123*11# | | |
| | | 17 | *123*11# | | |
| | | 18 | *123*11# | | |
| | | 19 | *123*11# | | |

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

| Route 11 *123*11# III Mobile 12 *123*11# III Status Status Status III *123*11# IIII Status Status Status 13 *123*11# IIIII IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII | | 4 | 14.9 1.17 | 1 |
|--|--|--------|---------------------------------|-----|
| Mobile 12 *123*11# 1 Status 13 *123*11# 1 SMS Agent 14 *123*11# 1 SMS Agent 15 *123*11# 1 Operator Setting 16 *123*11# 1 1 ISSD 17 *123*11# 1 1 1 Network 18 *123*11# 1 <t< th=""><th>Dial Peer</th><th>10</th><th>*123*11#</th><th>E</th></t<> | Dial Peer | 10 | *123*11# | E |
| Status 13 *123*11# 1 SMS Agent 14 *123*11# 1 SMS Agent 15 *123*11# 1 SMS Setting 16 *123*11# 1 Operator Setting 16 *123*11# 1 Network 18 *123*11# 1 1 SIP Settings 19 *123*11# 1 1 SIP Settings 19 *123*11# 1 1 SIP Settings 19 *123*11# 1 1 System Authority 22 *123*11# 1 1 System Authority 22 *123*11# 1 1 Sove Change 23 *123*11# 1 1 26 *123*11# 1 1 1 26 *123*11# 1 1 1 26 *123*11# 1 1 1 29 *123*11# 1 1 1 20 *123*11# | Route | 11 | *123*11# | |
| Settings 11 112311# 112311# SMS Agent 14 *123*11# 11 SIM Setting 15 *123*11# 11 Operator Setting 16 *123*11# 11 Network 18 *123*11# 11 11 SIP Settings 19 *123*11# 11 11 SIP Settings 19 *123*11# 11 11 11 SIP Settings 19 *123*11# 11 | Mobile | 12 | *123*11# | E |
| Settings 14 *123*11# 1 SIM Setting 15 *123*11# 1 Operator Setting 16 *123*11# 1 USSD 17 *123*11# 1 SIP Settings 19 *123*11# 1 SIUN Setting 19 *123*11# 1 Qodate 20 *123*11# 1 System Authority 22 *123*11# 1 Seve Change 23 *123*11# 1 Reboot 24 *123*11# 1 1 25 *123*11# 1 1 1 24 *123*11# 1 1 1 25 *123*11# 1 1 1 1 26 *123*11# 1 | Status | 13 | *123*11# | E |
| SIMS Agent 15 *123*11# 1 SIM Setting 16 *123*11# 1 Operator Setting 17 *123*11# 1 INSS 18 *123*11# 1 SIP Settings 19 *123*11# 1 SIUN Setting 19 *123*11# 1 20 *123*11# 1 1 System Authority 22 *123*11# 1 Save Change 23 *123*11# 1 Reboot 24 *123*11# 1 1 25 *123*11# 1 1 1 26 *123*11# 1 1 1 1 27 *123*11# 1 | | 14 | | E |
| Operator Setting 16 *123*11# 1 Network 17 *123*11# 1 SIP Settings 19 *123*11# 1 SI DN Setting 19 *123*11# 1 Update 20 *123*11# 1 System Authority 22 *123*11# 1 Sewe Change 23 *123*11# 1 Reboot *123*11# 1 1 24 *123*11# 1 1 25 *123*11# 1 1 26 *123*11# 1 1 25 *123*11# 1 1 26 *123*11# 1 1 27 *123*11# 1 1 28 *123*11# 1 1 29 *123*11# 1 1 30 *123*11# 1 1 31 *123*11# 1 1 32 *123*11# 1 1 | | | | |
| USSD 17 *123*11# 1 Network 18 *123*11# 1 SIP Settings 19 *123*11# 1 SIUN Setting 19 *123*11# 1 Update 20 *123*11# 1 System Authority 22 *123*11# 1 Save Change 123 *123*11# 1 Reboot *123*11# 1 1 24 *123*11# 1 1 25 *123*11# 1 1 26 *123*11# 1 1 27 *123*11# 1 1 28 *123*11# 1 1 29 *123*11# 1 1 20 *123*11# 1 1 28 *123*11# 1 1 29 *123*11# 1 1 30 *123*11# 1 1 31 *123*11# 1 1 32 *123*11# 1 1 32 *123*11# 1 | | | | E |
| Network 17 123*11# 1 SIP Settings 19 *123*11# 1 SI Setting 19 *123*11# 1 Update 20 *123*11# 1 System Authority 20 *123*11# 1 Save Change 21 *123*11# 1 Reboot *123*11# 1 1 23 *123*11# 1 1 24 *123*11# 1 1 25 *123*11# 1 1 26 *123*11# 1 1 25 *123*11# 1 1 26 *123*11# 1 1 27 *123*11# 1 1 28 *123*11# 1 1 29 *123*11# 1 1 30 *123*11# 1 1 32 *123*11# 1 1 32 *123*11# 1 1 32 | and the second | | | |
| SIP Settings 18 *123*11# 1 SIP Setting 19 *123*11# 1 Opdate 20 *123*11# 1 System Authority 22 *123*11# 1 Seve Change 22 *123*11# 1 1 Reboot *123*11# 1 1 1 23 *123*11# 1 1 1 24 *123*11# 1 1 1 25 *123*11# 1 1 1 26 *123*11# 1 1 1 1 27 *123*11# 1 <td< td=""><td></td><td></td><td></td><td>E</td></td<> | | | | E |
| SIUN Setting 10 123 11# 4. Update 20 *123*11# 4. System Authority 22 *123*11# 7. Seve Change 23 *123*11# 7. Reboot 24 *123*11# 7. 7. 25 *123*11# 7. 7. 7. 26 *123*11# 7. 7. 7. 27 *123*11# 7. 7. 7. 28 *123*11# 7. 7. 7. 7. 29 *123*11# 7. 7 7. | | | | |
| Update 120< | | 19 | | |
| 21 *123*11# (* System Authority 22 *123*11# (* Save Change 23 *123*11# (* 23 *123*11# (* (* 24 *123*11# (* (* 25 *123*11# (* (* 26 *123*11# (* (* 27 *123*11# (* (* 28 *123*11# (* (* 29 *123*11# (* (* 20 *123*11# (* (* 29 *123*11# (* (* 20 *123*11# (* (* 23 *123*11# (* (* 24 *123*11# (* (* 20 *123*11# (* (* 21 *123*11# (* (* 22 *123*11# (* (* 23 *123*11# (* (* 24 *123*11# (* (* 25 *123*11# (* (* | | 20 | *123*11# | · F |
| Save Change 22 *123*11# Image: Change Reboot 23 *123*11# Image: Change Image: Change 24 *123*11# Image: Change Imag | | 21 | *123*11# | (1) |
| Reboot 23 *123*11# C 24 *123*11# C 25 *123*11# C 26 *123*11# C 27 *123*11# C 28 *123*11# C 29 *123*11# C 20 *123*11# C 23 *123*11# C 30 *123*11# C 31 *123*11# C 32 *123*11# C | | 22 | *123*11# | |
| Reboot 24 *123*11# Image: Constraint of the second o | | 23 | *123*11# | |
| 25 *123*11# 26 *123*11# 27 *123*11# 28 *123*11# 29 *123*11# 30 *123*11# 31 *123*11# 32 *123*11# | Reboot | 24 | *123*11# | VE/ |
| 27 *123*11# [] 28 *123*11# [] 29 *123*11# [] 30 *123*11# [] 31 *123*11# [] 32 *123*11# [] 32 *123*11# [] | | 25 | *123*11# | Y |
| 28 *123*11# | | 26 | *123*11# | |
| 29 *123*11# [] 30 *123*11# [] 31 *123*11# [] 32 *123*11# [] 34 *123*11# [] 35 *123*11# [] | | 27 | *123*11# | E |
| 30 \$123*11# L 31 \$123*11# E 32 \$123*11# E * Click Balance data field to entry. | | 28 | *123*11# | E |
| 31 *123*11# E 32 *123*11# E *: Click Balance data field to entry. E | | 29 | *123*11# | E |
| 32 *123*11# E | | 30 | *123*11# | L |
| *: Click Balance data field to entry. | | 31 | *123*11# | |
| | | 32 | *123*11# | |
| | | *: Cli | ick Balance data field to entry | |
| 5. Send Selected Cance | | | 5. Send Seected Cance | |

Step 5: Enter "Send Selected" for reply

| PORTech Your CTI Partner | US | SD List | | |
|-----------------------------|--------|--------------------------------------|---------------------|-----|
| | Rx Dec | oder ASC7 💌 | | |
| Dial Peer | | | | |
| Route | | | | |
| Mobile | Balar | nce <u>Recharge</u> <u>Check</u> | ing [| |
| Status | CH | Balance | Response | SEL |
| Settings | 1 | *145*11# | UNKNOWN aPPLICATJON | |
| SMS Agent | 2 | *123*11# | | |
| SIM Setting | 3 | *123*11# | | |
| Operator Setting | 4 | *123*11# | | |
| USSD | | | | |
| Network | 5 | *123*11# | | |
| SIP Settings | 6 | *123*11# | | |
| STUN Setting | 1 | *123*11# | | |
| Update | 8 | *123*11# | | |
| System Authority | 9 | *123*11# | | |
| Save Change | 10 | *123*11# | | |
| Reboot | 11 | *123*11# | | |
| | 12 | *123*11# | | |
| | 13 | *123*11# | | |
| | 14 | *123*11# | | |
| | 15 | *123*11# | | |
| | 16 | *122*11# | | / |

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

| Vour CTI Partner | Rx Dec | oder: ASC7 - | | |
|-----------------------|----------|--------------|---------------------|-----|
| Dial Peer | <u> </u> | ASC7 UCS2 | | |
| Route | | | | |
| Mobile | CH | Balance | Response | SEL |
| Status | | *145*11# | | |
| Settings SMS Agent | 1 | | UNKNOWN aPPLICATJON | |
| SIM Setting | 2 | *123*11# | | |
| Operator Setting | 3 | *123*11# | | |
| USSD | 4 | *123*11# | | |
| Network | 5 | *123*11# | | |
| SIP Settings | 6 | *123*11# | | 11 |
| STUN Setting | 7 | *123*11# | | |
| Update | 8 | *123*11# | | |
| System Authority | 9 | *123*11# | | |
| Save Change | 10 | *123×11# | | |
| Reboot | 11 | *123*11# | | |
| | 12 | *123*11# | | |
| | 13 | *123*11# | | |
| | 14 | *123*11# | | |
| | 15 | *123*11# | | |
| | 10 | *123*11# | | |
| | 17 | *123*11# | | |
| | 18 | *123*11# | | |
| | 10 | *123*11# | | |

a. None: GSM Format (Default)b. ASC7: ASCII 7bitc.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 Vour CTI Partner Dial Peer Route | | | | |
|--|-------|-------------------|------------------------------------|-----|
| Mobile | Balan | ce Recharge 0 | Checking | |
| Status | CH | Balance | Response | SEL |
| Settings | 1 | *145*11# | 55E7D2F9BC3A41412894991C06A9C9A713 | |
| SMS Agent | 2 | *123*11# | | |
| SIM Setting | 3 | ^123^11# | | |
| Operator Setting | 4 | *123*11# | | |
| USSD | | | | |
| Network | 5 | *123*11# | | |
| SIP Settings | 6 | *123*11# | | |
| STUN Setting | 7 | *123*11# | | |
| Update | 8 | *123*11# | | |
| System Authority | 9 | *123*11# | | |
| Save Change | 10 | *123*11# | | |
| Reboct | 11 | *123*11# | | |
| | 12 | *123*11# | | |
| | 13 | *123*11# | | |
| | 14 | *123*11# | | |
| | 15 | *123*11# | | |
| | 16 | *123*11# | | - |
| | 17 | *123*11# | | |

ASC7 Format: In this format, the return message is "UNKNOWN aPPLICAT]ON"

| Dial Peer | Rx Deco | oder: ASC7 | | |
|------------------|---------|-----------------------------------|----------|-----|
| Route | | | | |
| Mobile | | ice <u>Recharge</u> <u>Ch</u> | esking | |
| Status | CH | Balance | Response | SEL |
| Settings | 1 | *145*11# | | |
| SMS Agent | 2 | *123*11# | | |
| SIM Setting | 3 | *123*11# | | |
| Operator Setting | 4 | *123*11# | | |
| Network | 5 | *123*11# | | |
| SIP Settings | 6 | *123*11# | | |
| STUN Setting | 7 | *123*11# | | |
| Update | 8 | *123*11# | | |
| System Authority | 9 | *123*11# | | |
| Save Change | 10 | *123*11# | | |
| Reboot | 11 | *123*11# | | |
| | 12 | *123*11# | | |
| | 13 | *123*11# | | |
| | 14 | *123*11# | | |
| | 15 | *123*11# | | |
| | 16 | *123*11# | | |
| | 17 | *123*11# | | |
| | 18 | *123*11# | | |
| | 19 | *123*11# | | |

UCS2 Format: In this format, the return message is "嗧틹밺案:課소즧"

| Dial Peer | (Rx Deci | Rx Decoder: UCS2 | | | | |
|--|----------|------------------|----------|-----|--|--|
| Route | | | | | | |
| Mobile Balance Recharge Checking | | | | | | |
| Status | СН | Balance | Response | SEL | | |
| Settings | 1 | *145*11# | < | | | |
| SMS Agent | 2 | *123*11# | | | | |
| SIM Setting | 3 | *123*11# | | | | |
| Operator Setting | 4 | *123*11# | | | | |
| | 5 | *123*11# | | | | |
| Network | 6 | *123*11# | | | | |
| SIP Settings | | | | | | |
| STUN Setting | 7 | *123*11# | | Π | | |
| Update | 8 | *123*11# | | | | |
| System Authority | 9 | *123*11# | | | | |
| Save Change | 10 | *123*11# | | | | |
| Reboot | 11 | *123*11# | | | | |
| | 12 | *123*11# | | | | |
| | 13 | *123*11# | | | | |
| | 14 | *123*11# | | | | |
| | 15 | *123*11# | | | | |
| | 16 | *123*11# | | | | |
| | | | | | | |
| | 17 | *123*11# | | | | |
| | 18 | *123*11# | | | | |
| | 19 | *123*11# | | | | |

11. Network

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

11.1 WAN Setting

| Your CTI Partner | WAN Setting (RT) | | | | | |
|------------------|------------------|------------------------------------|--|--|--|--|
| | | WAN Settings | | | | |
| Dial Peer | ІР Туре | Fixed IP DHCP Client PPPoE | | | | |
| Route | Main IP | 192.168.0.98 | | | | |
| Mobile | Mask | 255.255.255.0 | | | | |
| Network | Gateway | 192.168.0.254 | | | | |
| WAN Settings | DNS 1 | 168.95.192.1 | | | | |
| SNTP Settings | DNS 2 | 168.95.1.1 | | | | |
| SIP Settings | MAC | 00037E011BF2 | | | | |
| STUN Setting | | | | | | |
| Update | | PPPoE Settings | | | | |
| System Authority | Username | | | | | |
| Save Change | Password | | | | | |
| Reboot | | Submit Reset | | | | |

- 1. IP Type
 - a. Fixed IP (Default IP: 192.168.0.100)
 - b. DHCP Client
 - c. PPPoE
- 2. Main IP: The current IP address. The IP chaning 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.

| Your CTI Partner | SNTP Sett | SNTP Settings | | | | |
|------------------|-------------------|-----------------------------|--|--|--|--|
| Dial Peer | SNTP: | ●On ○Off | | | | |
| Route | | | | | | |
| Mobile | Primary Server: | time.windows.com | | | | |
| Network | Secondary Server: | 208.184.49.9 | | | | |
| WAN Settings | | | | | | |
| SNTP Settings | Time Zone: | GMT + ♥ 08 ♥ : 00 ♥ (hh:mm) | | | | |
| SIP Settings | Sync. Time: | 0 : 6 : 0 (dd:hh:mm) | | | | |
| STUN Setting | | | | | | |
| Update | | Submit Reset | | | | |
| System Authority | | | | | | |
| Save Change | | | | | | |
| Reboot | | | | | | |

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.

| Your CTI Partner | Service Dom | nain Settings |
|-------------------|--------------------|-------------------|
| Dial Peer | Mobile 1 🗸 | Realm 1 (Default) |
| Route | Active: | O ON O OFF |
| Mobile | Display Name: | |
| Network | User Name: | |
| SIP Settings | Register Name: | |
| Service Domain | Register Password: | |
| Port Settings | Domain Server: | |
| Codec Settings | Proxy Server: | |
| Codec ID Settings | | |
| DTMF Settings | Outbound Proxy: | |
| SIP Responses | Status: | Not Registered |
| Other Settings | | |
| STUN Setting | | Realm 2 |
| Update | Active: | O ON OFF |
| | Display Name: | |
| System Authority | User Name: | |
| Save Change | Register Name: | |
| Reboot | Register Password: | |
| | Domain Server: | |
| | Proxy Server: | |
| | Outbound Proxy: | |
| | 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

| Register VoipBu | uster | |
|--------------------|------------------------------------|--|
| Realm 1 (Default) | | |
| Active: | ⊙On OOff | |
| Display Name: | jenny0922 | |
| User Name: | jenny0922 Your Voipbuster username | |
| Register Name: | jenny0922 | |
| Register Password: | **** Your Voipbuster password | |
| Domain Server: | | |
| Proxy Server: | 194.221.62.207 Proxy Server's IP | |
| Outbound Proxy: | | |
| Status: | Registered | |

Example:

12.2 Ports Setting

| Dial Peer | Internal Dial Peer Port: 5000 (2000 -59000) | | |
|-------------------|---|-----------------------|----------------------|
| Route | MCH | SIP Port (2000~59000) | RTP Port (2000~5900) |
| /obile | 1 | 5064 | 20004 |
| letwork | 2 | 5066 | 20006 |
| SIP Settings | 3 | 5068 | 20008 |
| Service Domain | 4 | 5070 | 20010 |
| Port Settings | 5 | 5072 | 20012 |
| Codec Settings | 6 | 5071 | 20014 |
| Codec ID Settings | 7 | 5075 | 20016 |
| OTMF Settings | 8 | 5070 | 20010 |
| SIP Responses | 54 | | |
| Other Settings | 9 | 5000 | 20020 |
| STUN Selling | 10 | 5082 | 20022 |
| Jpdate | 11 | 5084 | 20024 |
| System Authority | 12 | 5086 | 20026 |
| Save Change | 13 | 5088 | 20028 |
| Rebcot | 14 | 5000 | 20030 |
| | 15 | 5092 | 20032 |
| | 16 | 5094 | 20034 |
| | 17 | 5096 | 20036 |
| | | | |
| | 18 | 5098 | 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

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.

| ial Peer | | Codec Priority |
|------------------|-------------------|-------------------|
| oute | Codec Priority 1: | G.711 u-law 🗸 |
| obile | Codec Priority 2: | G.711 a-law 🗸 |
| | Codec Priority 3: | G.723 🗸 |
| etwork | Codec Priority 4: | G.729 🗸 |
| IP Settings | Codec Priority 5: | G.726 - 16 🗸 |
| ervice Domain | Codec Priority 6: | G.726 - 24 🗸 |
| ort Settings | Codec Priority 7: | G.726 - 32 🗸 |
| odec Settings | Codec Priority 8: | G.726 - 40 🗸 |
| odec ID Settings | | |
| TMF Settings | | RTP Packet Length |
| P Responses | G.711 & G.729: | 20 ms 🗸 |
| her Settings | G.723: | 30 ms 🗸 |
| UN Setting | 12 | |
| date | | G.723 5.3K |
| stem Authority | G.723 5.3K: | ○ On ● Off |
| ve Change | | Voice VAD |
| poot | Voice VAD: | |

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

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

| Your CTI Partner | Codec ID S |
|-------------------|--------------|
| Dial Peer | Codec Type |
| Route | G726-16 ID: |
| Mobile | G726-24 ID: |
| Network | G726-32 ID: |
| SIP Settings | G726-40 ID: |
| Service Domain | RFC 2833 ID: |
| Port Settings | |
| Codec Settings | |
| Codec ID Settings | |
| DTMF Settings | |
| SIP Responses | |
| Other Settings | |
| STUN Setting | |
| Update | |
| System Authority | |
| Save Change | |
| Reboot | |

Setting

| Codec Type | | ID | Default Value |
|--------------|-----|----------|---------------|
| G726-16 ID: | 23 | (95~255) | 23 |
| G726-24 ID: | 22 | (95~255) | 22 |
| G726-32 ID: | 2 | (95~255) | ☑ 2 |
| G726-40 ID: | 21 | (95~255) | ☑ 21 |
| RFC 2833 ID: | 101 | (95~255) | 101 |

Submit Reset

12.5 DTMF Setting

| Your CTI Partner | DTMF Setting | | |
|-------------------|--------------|--|--|
| Dial Peer | | DTMF Transfer Mobile to LAN | |
| Route | Format | ● 2833 ○ Inband ○ SIP Info | |
| Mobile | 1000 | Mobile DTMF Detection | |
| Network | Duration | -1 (0 ~ 999, -1: unlimit, unit: 1s) . | |
| SIP Settings | Debounce | 80 (40 ~ 500, default: 80 , unit: 10ms). | |
| Service Domain | | | |
| Port Settings | | Submit Reset | |
| Codec Settings | | Submit Reset | |
| Codec ID Settings | | | |
| DTMF Settings | | | |
| SIP Responses | | | |
| Other Settings | | | |
| STUN Setting | | | |
| Update | | | |
| System Authority | | | |
| Save Change | | | |
| Reboot | | | |

- 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;
- 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.

12.6 SIP Responses

| Your CTI Partner | SIP Respon | nses |
|-------------------|------------------|--|
| | 2013-00-03 10.37 | |
| Dial Peer | | Mobile Busy Response |
| Route | Unavailable | 486 Busy here |
| Mobile | Ring Timeout | 486 Busy here 🗸 |
| Network | | SIP Ring Responses |
| SIP Settings | ● ON OFF | 180 Ringing (Force to ON, if 183 was OFF.) |
| Service Domain | OON OFF | 183 Session Progress |
| Port Settings | | |
| Codec Settings | | |
| Codec ID Settings | | submit reset |
| DTME Settings | | |
| SIP Responses | | |
| Other Settings | | |
| STUN Setting | | |
| Update | | |
| System Authority | | |
| Save Change | | |
| Reboot | | |
| | | |

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.

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.

| Your CTI Partner | Mobile 1, 2 V | | |
|-------------------|-------------------------|------------------------|--|
| Dial Peer | Hold by RFC of Mobile 1 | Oon Ooff | |
| Route | Hold by RFC of Mobile 2 | OON OOFF | |
| Mobile | | | |
| Network | Voice QoS: | 40 (0~63) | |
| SIP Settings | SIP QoS: | 40 (0~63) | |
| Service Domain | SIP Expire Time: | 60 (30~86400 sec) | |
| Port Settings | | | |
| Codec Settings | 5 | SubmitAll Submit Reset | |
| Codec ID Settings | | | |
| DTMF Settings | | | |
| SIP Responses | | | |
| Other Settings | | | |
| STUN Setting | | | |
| Update | | | |
| System Authority | | | |
| Save Change | | | |
| Reboot | | | |

- 1. Hold RFC of Mobile:
 - a. On: To activate Hold RFC of Moible
 - 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 ST | TUN Setting |
|-----------------------------|-------------|-------------------|
| Dial Peer | Public STUN | ○ On |
| Route | STUN Server | stun.iptel.org |
| Mobile | STUN Port | 3478 (1024~65534) |
| Network | | |
| SIP Settings | | Submit Reset |
| 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 \rightarrow The STUN Server IP (Default: stun.iptel.org) STUN Port \rightarrow The STUN Port (Default: 3478)

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

| Your CTI Partner | Update Firm Ver = v10.272, GZ = r | WATE 4nat , PCB = 3748NAT . | |
|------------------|--------------------------------------|--------------------------------|--------|
| Dial Peer | | HTTP | |
| Route | Code Type: RISC | v | |
| Mobile | File Location: | | Browse |
| Network | | Submit Reset | |
| 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

| Your CTI Partner | Restore Default Settings |
|----------------------|--|
| Dial Peer | Restore default settings: default |
| Route | Restore derauit settings. derauit |
| Mobile | Restore factory all settings: factoryAll (included all IP address) |
| Network | |
| SIP Settings | |
| STUN Setting | |
| Jpdate | |
| Ne <u>w Firmware</u> | |
| Default Settings | |
| System Authority | |
| ave Change | |
| Reboot | |

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

15. System Authority

User can change the login name and password

| Your CTI Partner | System Authority | | |
|------------------|---------------------|--------------|--|
| Dial Peer | New username: | | |
| Route | New password: | | |
| Mobile | Confirmed password: | | |
| Network | | | |
| SIP Settings | | Submit Reset | |
| STUN Setting | | | |
| Update | | | |
| System Authority | | | |
| Save Change | | | |
| Reboot | | | |
| Rebool | | | |

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

| Your CTI Partner | Save Changes |
|------------------|--|
| | You have to save changes to effect them. |
| Dial Peer | |
| Route | Save Changes: Save |
| Mobile | |
| Network | |
| SIP Settings | |
| STUN Setting | |
| Update | |
| System Authority | |
| Save Change | |
| Reboot | |
| | |

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.

| Your CTI Partner | Reboot System |
|------------------|-----------------------|
| Dial Peer | Reboot system: Reboot |
| Route | |
| Mobile | |
| Network | |
| SIP Settings | |
| STUN Setting | |
| Update | |
| System Authority | |
| Save Change | |
| Reboot | |
| | |

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

 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

| Your CTI Partner | Mobile Setting |
|------------------------------------|---|
| Route | Mobile 1, 2 💌 |
| Mobile | VolP Tx Gain: 9 (0~12) VolP Rx Gain: 11 (0~15) |
| Status Settings Fwd Settings | LAN Dialtone Vol: 9 (0~12) Asterisk want to transfer |
| SMS Agent | Mobile 1 O ON OFF CLID, please choose Tel/Tel (Not Reg) |
| Network | Routing Range 0 to 49 (0~49) |
| SIP Settings | CODEC Tx Gain: 6 (0~7) CODEC Rx Gain: 6 (0~7) |
| STUN Setting | SIP From: Tel/Tel (Not Reg) |
| Update | CLID Presentation 🔘 Suppression 💿 Invocation |
| System Authority | Mobile PIN Code: On 🗌 Code: Confirmed: |
| Save Change | LAN Answer Mode 💿 Answered 🔿 Alerted 🔿 Income |
| Reboot | |

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

| Realm 1 (Default) | | Can register Asterisk or not |
|--------------------|--------------------|------------------------------|
| Aetive: | 💿 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 | |

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

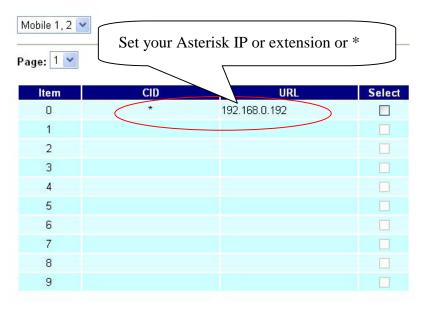
PI

lech

IT CTI Parto

| 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



LAN To Mobile Table

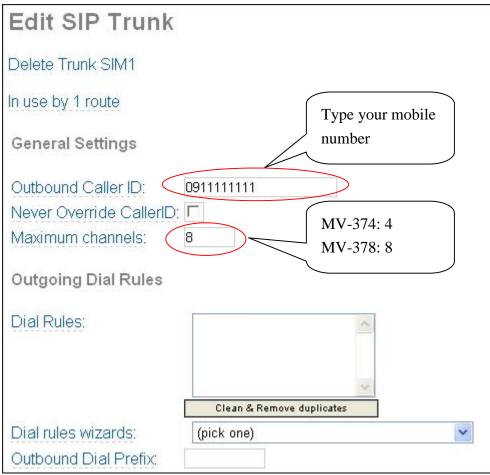
| Mobile 1, 2 🔹 Page: 1 💌 | | As Ast Route | erisk GSM | |
|----------------------------|-----|-----------------|-----------|--------|
| ltem | URL | | Call Num | Select |
| 0 | * | # | | |
| 1 | | | | |
| 2 | | | | |
| 3 | | | | |
| 4 | | | | |
| 5 | | | | |
| 6 | | | | |
| 7 | | | | |
| 8 | | | | |
| 9 | | | | |

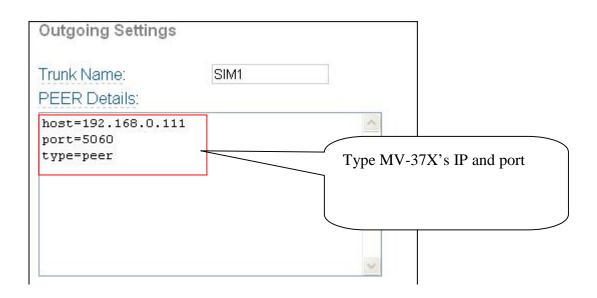
| PORTech Your CTI Partner | Dial Peer Setting | | |
|-----------------------------|---------------------|--|--|
| Dial Peer | - | Transfer SIP Message | |
| Status | ⊖Yes ⊙No | Replace contact to Dial Peer. | |
| Settings | | | |
| Route | 600 | SIP Response when all busy. Busy Everywhere (default) | |
| Mobile | O 408 | Request Timeout | |
| Network | | Dial Peer | |
| SIP Settings | Working Mode | O OFF ⊙ Internal ○ External | |
| STUN Setting | External <u>URL</u> | 192.168.0.156:5060 (<u>Dial Peer</u> for XP) | |
| Update | | | |
| System Authority | | Submit Reset | |
| Save Change | | | |
| Reboot | | | |

| PORTech Your CTI Partner | Ports | Setting | |
|----------------------------------|----------------------|------------------------------|------------------------|
| Route | Internel Die | I Peer Port: 5060 (1024~19) | 000) |
| Mobile | Internal Dia | Il Peer Port: 5060 (1024~19) | 900) |
| Network | | SIP Port (1024~19900) | RTP Port (20000~59900) |
| SIP Settings | Mobile 1 | 5064 | 20004 |
| Service Domain Port Settings | Mobile 2 Mobile 3 | 5066 5068 | 20006 |
| Codec Settings | Mobile 4 | 5070 | 20010 |
| Codec ID Setting DTMF Setting | Mobile 5 | 5072 | 20012 |
| RPort Setting | Mobile 6 | 5074 | 20014 |
| SIP Responses Other Settings | Mobile 7 | 5076 | 20016 |
| STUN Setting | Mobile 8 | 5078 | 20018 |
| Update System Authority | Submit | Reset | |

Don't forget to Save changes and then reboot

Asterisk / Trixbox setting Add SIP Trunk:







Frequency: Quad Band:900/1800/1900/850MHZ GSM Module use Simcom sim340 Compliant to GSM phase 2/2+ -Class 4 (<u>2W@850/900</u> MHz) -Class 1 (<u>1W@1800/1900</u> 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.