

How to Show SMS message on ATCOM IP phones?

INTRODUCE:

The ATCOM IP phones support SIP message display: Receive standard Sip message and display the *TEXT* in their LCD panels.

The implement of SIP message can be used to show instant message such as call rate, remain cost, etc...

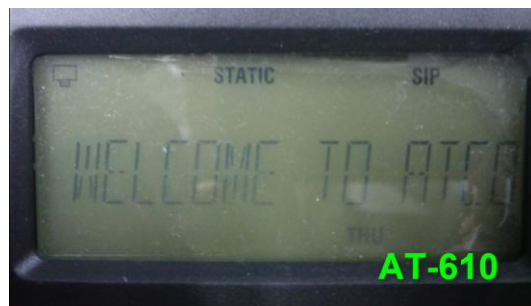
TEST:

You can use sipsak to test the function:

You can use sipsak (<http://sipsak.org/>) to show the message on IP phones:

- Install SIPSAK on a Linux or Window OS.
- Run `sipsak -M -B "Welcome to ATCOM" -s sip:name@ip` to show the message on the ATCOM phones. In this command, name is the username of the IP phone and the ip refer to the IP of the phone.
- Then IP phone will show the Welcome to ATCOM on the LCD as below, if the row is not enough for display, it auto-scroll in loop.

DEMO:



IMPLEMENT:

In your sip server, what you need to do is to send a standard SIP message to the IP phone. It will show it directly as mentioned above. Below is the packet format for reference.

826	117.56804	192.168.1.204	192.168.1.192	SIP	Status: 401 Unauthorized (0 bindings)
827	117.57477	192.168.1.192	192.168.1.204	SIP	Request: REGISTER sip:192.168.1.204:5060
828	117.57657	192.168.1.204	192.168.1.192	SIP	Status: 100 Trying (1 bindings)
829	117.57918	192.168.1.204	192.168.1.192	SIP	Status: 200 OK (1 bindings)
834	118.58028	192.168.1.66	192.168.1.192	SIP	Request: MESSAGE sip:line@192.168.1.192 (text/plain)
835	118.58448	192.168.1.192	192.168.1.66	SIP	Status: 200 OK
883	122.59149	192.168.1.66	192.168.1.192	SIP	Request: MESSAGE sip:line@192.168.1.192 (text/plain)
884	122.66258	192.168.1.192	192.168.1.66	SIP	Status: 200 OK
908	126.46797	192.168.1.204	192.168.1.192	SIP	Request: NOTIFY sip:8049@192.168.1.192:5060
909	126.47272	192.168.1.192	192.168.1.204	SIP	Status: 200 OK
910	126.60483	192.168.1.66	192.168.1.192	SIP	Request: MESSAGE sip:line@192.168.1.192 (text/plain)
911	126.60874	192.168.1.192	192.168.1.66	SIP	Status: 200 OK
935	130.61920	192.168.1.66	192.168.1.192	SIP	Request: MESSAGE sip:line@192.168.1.192 (text/plain)
936	130.62372	192.168.1.192	192.168.1.203	SIP	Request: REGISTER sip:192.168.1.203:5060


```

Internet Protocol, Src: 192.168.1.66 (192.168.1.66), Dst: 192.168.1.192 (192.168.1.192)
User Datagram Protocol, Src Port: 3218 (3218), Dst Port: 5060 (5060)
Session Initiation Protocol
  Request-Line: MESSAGE sip:line@192.168.1.192 SIP/2.0
  Message Header
    Via: SIP/2.0/UDP 192.168.1.66:3217;branch=z9hG4bK.2c785458;rport;alias
    To: sip:line@192.168.1.192
    Call-Id: 653970780@192.168.1.66
    CSeq: 1 MESSAGE
    Content-Type: text/plain
    Max-Forwards: 70
    User-Agent: sipsak 0.9.5
    From: sip:sipsak@192.168.1.66:3217;tag=26facd5c
    Content-Length: 18
  Message body
    Line-based text data: text/plain
    welcome to ATCOM!

```

MORE EXAMPLE:

Server such Trixbox already have the sipsak installed so you can easily use this function by modify the extension file.

For example:

```
exten => 100,1,answer()
```

```
exten => 100,2,System(/usr/local/bin/sipsak -i -M -B "Hello World" -s ${SIPURI})
```

```
exten => 100,3,hangup()
```

Register the AT-620 to the Trixbox. Call to number 100. The Trixbox will send the "Hello World" string to AT-620 LCD panel.