Introduction

“Snom technology AG manufactures VoIP (Voice-over-IP) telephones, primarily based on the IETF open standard SIP (Session Initiation Protocol). With customers located throughout more than 20 countries, Snom’s phones are targeted toward small- and medium-sized businesses, home offices, Internet Service Providers, carriers, and OEM customers.

All of Snom’s software exists in the firmware on its phones, and its Linux-based VoIP telephones support all common standards, as well as the latest technology platforms including STUN (Simple Traversal of UDP through NATs), NAT (Network Address Translation) and ENUM (telephone number mapping). All Snom phones are compatible with SIP-based telephone systems and system components including open source platforms such as Asterisk, SER or sipXpbx, and proprietary solutions offered by companies such as Pandora (Worksmtart), Kapsch (Mississippi), Objectworld (UC Server), and many more. snom’s phones also include security features based on the two VoIP security standards sips (RFC2246) and SRTP (RFC3711).”


Firmware

System Information

<table>
<thead>
<tr>
<th>Operation</th>
<th>Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Home</td>
<td>Phone Type: snom300-SIP</td>
</tr>
<tr>
<td>Directory</td>
<td>MAC-Address: 09D41280421</td>
</tr>
<tr>
<td>Setup</td>
<td>IP-Address: 192.168.101.10</td>
</tr>
<tr>
<td></td>
<td>Firmware-URL: snom300-SIP 7.1.19</td>
</tr>
<tr>
<td></td>
<td>Production: <a href="http://fox.snom.com/download/snom300-7.1.19-SIP-f.bin">http://fox.snom.com/download/snom300-7.1.19-SIP-f.bin</a></td>
</tr>
<tr>
<td></td>
<td>Version: 0.30411280421</td>
</tr>
<tr>
<td></td>
<td>Referenced: snom-300+ (MB Information: V3.2-A11)</td>
</tr>
</tbody>
</table>

**SIP Identity**

<table>
<thead>
<tr>
<th>Status</th>
<th>Identity</th>
<th>Status</th>
<th>Identity</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1 Status</td>
<td>2 Status</td>
<td>3 Status</td>
<td>4 Status</td>
</tr>
<tr>
<td></td>
<td>09102527@125.213.160.81: OK</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Ethernet**

<table>
<thead>
<tr>
<th>Status</th>
<th>Net Port: Connection Type</th>
<th>Status connected</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>100 Mbit Full Duplex</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Status</th>
<th>PC Port: Connection Type</th>
<th>Status connected</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>100 Mbit Full Duplex</td>
<td></td>
</tr>
</tbody>
</table>
The version of firmware that has been tested by My Net Fone engineers is 7.1.19. This is a beta version that was found to be most stable at the time.

### 7.1.19 beta

**GUI**
- F_DIRECTORY_SEARCH handles ldap & presence directory lookup
- scheme 'tel:' was not working well

**LID**
- fixed extension-keypad-bug (timing @init was still off, thus disabling exp.KeypadsV2 in 7.1.18)

**AUDIO**
- fixed sending first packet with wrong codec

**SETTINGS**
- old values were not overwritten by the same characters in a different case

http://wiki.snom.com/Snom300/Firmware/Release_Notes

There have been additional releases since testing was done and the current released version is **7.1.30**. It is expected that this new firmware will be tested shortly and a corresponding sample configuration be produced. A feature that the new firmware will include is the ability to provision prefix dialling to outbound calls. This is something that was required for Artas to accommodate for their various offices located around Australia. The prefix for the state (NSW 02, QLD 03, etc) that the phones were in was added to the Snom configuration so that the staff would not have to dial the area code for 'local' numbers.

### Phone Layout

**Snom 300**
Basic Sample Configuration for My Net Fone

Web GUI access

There is no remote access available to the Snom phones. The only way that modifications can be made to the configuration is either locally or through a TFTP server.

To be able to login to the phones graphical user interface locally, you need to first obtain the IP address that has been allocated to the phone. To determine what that IP is press the down direction on the circular navigation key (2a) until you get to the Information Menu (as shown below):

```
<table>
<thead>
<tr>
<th>Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>IPAdr</td>
</tr>
</tbody>
</table>
```

Here, you can look up the IP and MAC addresses and the software version of the phone.

**IPAdr**: Press the function key (tick button, 2a) IPAdr to view the IP address currently assigned to the phone.

```
<table>
<thead>
<tr>
<th>IP Address:</th>
</tr>
</thead>
<tbody>
<tr>
<td>192.168.9.80</td>
</tr>
</tbody>
</table>
```

Login to the interface using the IP address shown on the phone. E.g. [http://192.168.9.80/](http://192.168.9.80/)

Note: You need to be connected to the LAN port (labelled PC) on the back of the Snom phone, or to the WAN port (labelled NET) and have a computer in the same subnet/IP range, to be able to connect to the user interface.
Advanced - Behaviour

Advanced Settings

Operation
- Home
- Directory

Setup
- Preferences
- Speed Dial
- Function Keys
- Identity 1
- Identity 2
- Identity 3
- Identity 4
- Action URL Settings
- Advanced
- Trusted Certificates
- Software Update

Status
- System Information
- Log
- SIP Trace
- DNS Cache
- Subscriptions
- PCAP Trace
- Memory
- Settings

Manual

Network  Behavior  Audio  SIP/RTP  OsS/Security  Update

Phone Behavior:
- Call Completion:
- Peer to Peer Call Completion:
- IDNA (RFC 3490) Support:
- Auto Dial: after 2 sec

Overlap Dialing:
- Number Guessing:
- Number Guessing Minimum Length:
- Block URL Dialing:
- Deny All Features:
- Challenge Response on Phone:
- Enable Intercom:
- “Answer After” Policy:
- CNF Features:
- Dialog Info Call Pickup:
- Show dialed info call pickup on xml screen:
- Disconnect on Hook:
- Call join on Xfer (2 calls):
- AOC Amount Display:
- AOC Pulse Currency:
- AOC Cost/Pulse:

Additional Documentation

Online Manual:

Sample Web Interfaces (sorted by Menu)
http://wiki.snom.com/Web_Interface

Snom 300 Support
http://wiki.snom.com/Snom300

Factory Reset

You should reset the phone only in the following situations:
- The phone configuration was changed and the phone is not functioning anymore.
- The help desk of your vendor or Snom partner advised you to do so.

Reset the phone configuration to factory values
1. Press the down direction on the circular navigation key (2a) until you get to the Configuration Menu
2. Press the right direction on the circular navigation key (2a) until you get to the Reset sub-menu
3. Press the function key (tick button)
4. When prompted for the Admin Mode Pwd, enter the administrator password and press the function key
5. The phone will display “Rebooting...” and the phone configuration is being reset.

Note: The default administrator password is “0000”