

## Inhaltsverzeichnis

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## VoIP Einstellungen

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Nachfolgend wird erklärt, wie man seinen HAMNET SIP Client für den Zugang zur HAMNET VoIP Telefonie einrichtet. Es wird nach Herstellern unterschieden, und die gängigsten Modelle aufgeführt.

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## SNOM 300

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Das SNOM ist ein günstiges und gutes SIP Telefon, und kann gebraucht schon für kleines Geld erworben werden (bspw. bei eBay).

Bevor man jedoch die Konfiguration vornimmt, sollte das Telefon auf den letzten Stand der Firmware gebracht werden! Anleitungen dazu findet man direkt im [SNOM Wiki](#).

### Identity 1

[Login](#) [SIP](#) [NAT](#) [RTP](#)

**Login Information:**

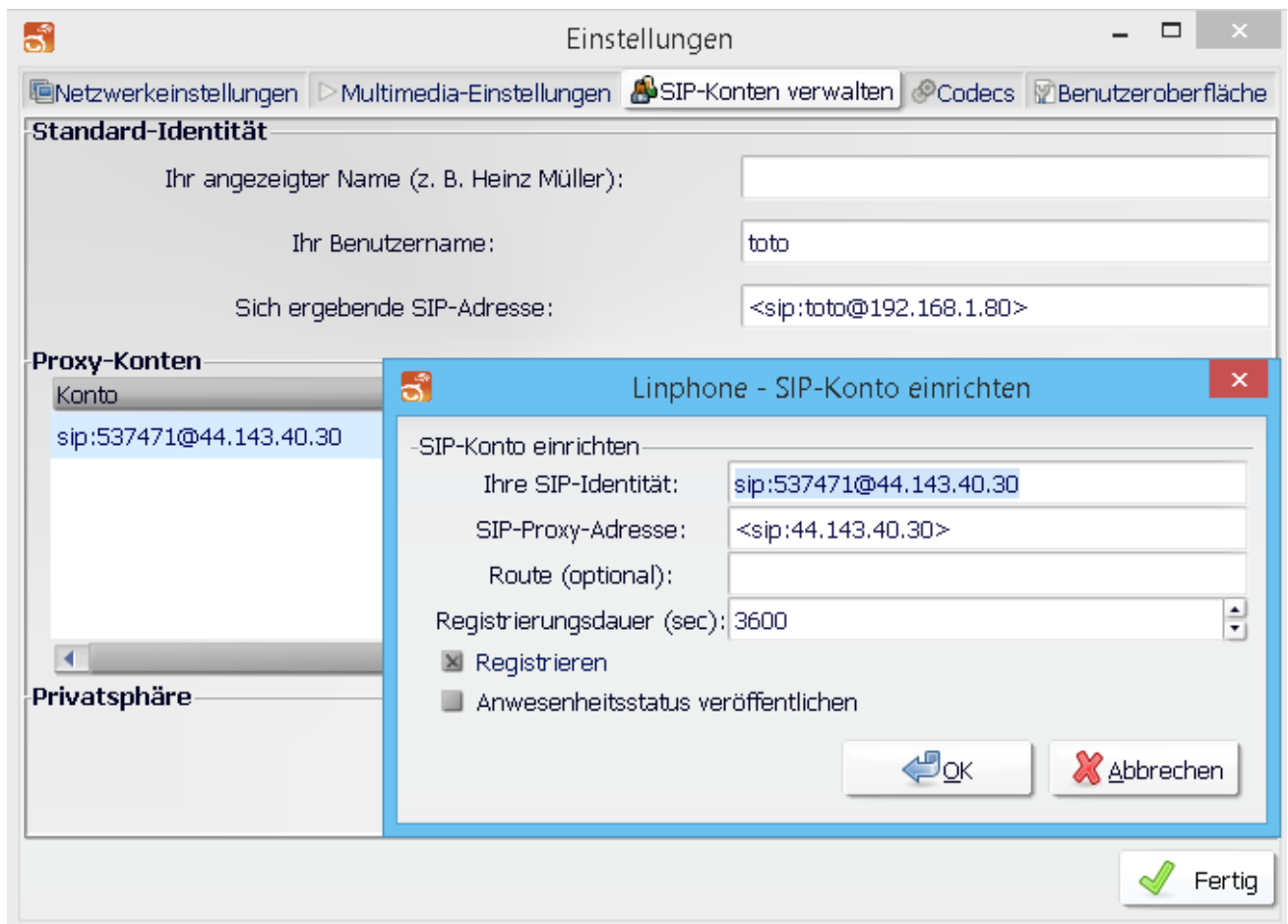
|                               |   |
|-------------------------------|---|
| Identity active:              | <input checked="" type="radio"/> on <input type="radio"/> off <a href="#">?</a> |
| Displayname:                  | <input type="text" value="OE2WAO"/> <a href="#">?</a>                           |
| Account:                      | <input type="text" value="912163"/> <a href="#">?</a>                           |
| Password:                     | <input type="password" value="*****"/> <a href="#">?</a>                        |
| Registrar:                    | <input type="text" value="voip.oe2xzc.ampr.org"/> <a href="#">?</a>             |
| Outbound Proxy:               | <input type="text"/> <a href="#">?</a>  |
| Failover Identity:            | <input type="text" value="Identity 2"/> <a href="#">?</a>                       |
| Authentication Username:      | <input type="text" value="912163"/> <a href="#">?</a>                           |
| Mailbox:                      | <input type="text" value="912163"/> <a href="#">?</a>                           |
| Ringtone:                     | <input type="text" value="Ringer 9"/> <a href="#">?</a>                         |
| Custom Melody URL:            | <input type="text"/> <a href="#">?</a>  |
| Display text for idle screen: | <input type="text"/> <a href="#">?</a>  |
| Ring After Delay (sec):       | <input type="text"/> <a href="#">?</a>  |
| Record Missed Calls:          | <input checked="" type="radio"/> on <input type="radio"/> off <a href="#">?</a> |
| Record Dialed Calls:          | <input checked="" type="radio"/> on <input type="radio"/> off <a href="#">?</a> |
| Record Received Calls:        | <input checked="" type="radio"/> on <input type="radio"/> off <a href="#">?</a> |
| Identity is hidden:           | <input type="radio"/> on <input checked="" type="radio"/> off <a href="#">?</a> |

[Login](#) [SIP](#) [NAT](#) [RTP](#)

**RTP Identity Settings:**

|                              |  |
|------------------------------|--|
| Codec:                       | <input type="text" value="gsm,telephone-event"/> <a href="#">?</a>                     |
| Packet Size:                 | <input type="text" value="20 ms"/> <a href="#">?</a>                                   |
| Filtered codec list:         | <input type="text" value="gsm, telephone-event"/>                                      |
| Full SDP Answer:             | <input checked="" type="radio"/> on <input type="radio"/> off <a href="#">?</a>        |
| Symmetrical RTP:             | <input type="radio"/> on <input checked="" type="radio"/> off <a href="#">?</a>        |
| RTP Encryption:              | <input type="radio"/> on <input checked="" type="radio"/> off <a href="#">?</a>        |
| G.726 Byte Order:            | <input checked="" type="radio"/> RFC3551 <input type="radio"/> AAL2 <a href="#">?</a>  |
| SRTP Auth-tag:               | <input type="radio"/> AES-32 <input checked="" type="radio"/> AES-80 <a href="#">?</a> |
| RTP/SAVP:                    | <input type="text" value="mandatory"/> <a href="#">?</a>                               |
| Media Transport Offer:       | <input type="text" value="UDP"/> <a href="#">?</a>                                     |
| Media Transport Offer Setup: | <input type="text" value="active"/> <a href="#">?</a>                                  |
| Multicast relay address:     | <input type="text"/> <a href="#">?</a>   |

## Linphone



Im Reiter "Codecs" sollte kontrolliert werden, dass GMS, PCMA (alaw), PCMU (ulaw) aktiviert ist.

## CSipSimple

Auch ein Android Smartphone kann als SIP-Client genutzt werden.

Da vom Server kein Passwort benötigt wird kann die eigene Rufnummer eingetragen werden.

Datei:csipsimple.png  
CSipSimple

## Grandstream 2020

Auch das Hardwaretelefon Grandstream 2020 (oder auch 2000) kann ebenfalls für kleines Geld erworben werden (bspw. eBay, Willhaben)

Die Konfiguration über das Webinterface für z.B. Account1 sollte wie auf den Screenshots aussehen. Wichtig ist ganz unten bei den verwendeten Codec's alles auf **GSM** zu setzen da sonst ein falscher Codec verwendet wird und man am Telefon nichts hört (es läutet, aber man hört den Gesprächsparten nicht)

| Grandstream Device Configuration |   |  |           |           |           |
|----------------------------------|---|--|-----------|-----------|-----------|
| STATUS                           | BASIC SETTINGS                            | ADVANCED SETTINGS  | EXT 1     | EXT 2     |           |
| ACCOUNT 1                        | ACCOUNT 2                                 | ACCOUNT 3  | ACCOUNT 4 | ACCOUNT 5 | ACCOUNT 6 |
|                                  | Account Active:                           | <input type="radio"/> No <input checked="" type="radio"/> Yes  |           |           |           |
|                                  | Account Name:                             | <input type="text" value="Hamnet"/> (e.g., MyCompany)  |           |           |           |
|                                  | SIP Server:                               | <input type="text" value="voip.oe2xtr.ampr.at"/> (e.g., sip.mycompany.com, or IP address)  |           |           |           |
|                                  | Outbound Proxy:                           | <input type="text"/> (e.g., proxy.myprovider.com, or IP address)   |           |           |           |
|                                  | SIP User ID:                              | <input type="text" value="&lt;Ham Tel.Nr&gt;"/> (the user part of an SIP address)  |           |           |           |
|                                  | Authenticate ID:                          | <input type="text" value="&lt;Ham Tel.Nr&gt;"/> (can be same or different from SIP UserID)   |           |           |           |
|                                  | Authenticate Password:                    | <input type="text"/> (not displayed for security protection)   |           |           |           |
|                                  | Name:                                     | <input type="text" value="CALL"/> (optional, e.g., John Doe)   |           |           |           |
|                                  | Use DNS SRV:                              | <input checked="" type="radio"/> No <input type="radio"/> Yes  |           |           |           |
|                                  | User ID is phone number:                  | <input type="radio"/> No <input checked="" type="radio"/> Yes  |           |           |           |
|                                  | SIP Registration:                         | <input type="radio"/> No <input checked="" type="radio"/> Yes  |           |           |           |
|                                  | Unregister On Reboot:                     | <input checked="" type="radio"/> No <input type="radio"/> Yes  |           |           |           |
|                                  | Support SIP Instance ID                   | <input checked="" type="radio"/> No <input type="radio"/> Yes  |           |           |           |
|                                  | Register Expiration:                      | <input type="text" value="60"/> (in minutes. default 1 hour, max 45 days)  |           |           |           |
|                                  | local SIP port:                           | <input type="text" value="5060"/> (default 5060)   |           |           |           |
|                                  | SIP Registration Failure Retry Wait Time: | <input type="text" value="20"/> (in seconds. Between 1-3600, default is 20)  |           |           |           |
|                                  | SIP T1 Timeout:                           | <input type="text" value="1 sec"/>   |           |           |           |
|                                  | SIP T2 Interval:                          | <input type="text" value="4 sec"/>   |           |           |           |
|                                  | SIP Transport:                            | <input checked="" type="radio"/> UDP <input type="radio"/> TCP   |           |           |           |
|                                  | Use RFC3581 Symmetric Routing:            | <input type="radio"/> No <input checked="" type="radio"/> Yes  |           |           |           |
|                                  | NAT Traversal (STUN):                     | <input checked="" type="radio"/> No <input type="radio"/> No, but send keep-alive <input type="radio"/> Yes  |           |           |           |
|                                  | SUBSCRIBE for MWI:                        | <input checked="" type="radio"/> No <input type="radio"/> Yes  |           |           |           |
|                                  | SUBSCRIBE for Registration Event:         | <input checked="" type="radio"/> No <input type="radio"/> Yes  |           |           |           |
|                                  | PUBLISH for Presence:                     | <input checked="" type="radio"/> No <input type="radio"/> Yes  |           |           |           |
|                                  | Proxy-Require:                            | <input type="text"/>   |           |           |           |
|                                  | Voice Mail UserID:                        | <input type="text"/> (UserID for voice mail system)  |           |           |           |
|                                  | Send DTMF:                                | <input checked="" type="checkbox"/> in-audio <input type="checkbox"/> via RTP (RFC2833) <input type="checkbox"/> via SIP INFO  |           |           |           |
|                                  | Early Dial:                               | <input checked="" type="radio"/> No <input type="radio"/> Yes (use "Yes" only if proxy supports 484 response)  |           |           |           |
|                                  | Dial Plan Prefix:                         | <input type="text"/> (this prefix string is added to each dialed number)   |           |           |           |
|                                  | BLF Call-pickup Prefix:                   | <input type="text" value="**"/> (this prefix is prepended when answering call with BLF key)  |           |           |           |
|                                  | Delayed Call Forward Wait Time:           | <input type="text" value="20"/> (Allowed range 1-120, in seconds.)   |           |           |           |
|                                  | Enable Call Features:                     | <input type="radio"/> No <input checked="" type="radio"/> Yes (if yes, call features using star codes will be supported locally)   |           |           |           |
|                                  | Call Log:                                 | <input checked="" type="radio"/> Log All Calls<br><input type="radio"/> Log Incoming/Outgoing only (Missed calls NOT recorded)<br><input type="radio"/> Disable Call Log |           |           |           |

|   |   |  |
|---|---|--|
| <b>Session Expiration:</b>  | <input type="text" value="180"/>  | (in seconds. default 180 seconds)  |
| <b>Min-SE:</b>  | <input type="text" value="90"/>   | (in seconds. default and minimum 90 seconds)   |
| <b>Caller Request Timer:</b>  | <input checked="" type="radio"/> No <input type="radio"/> Yes (Request for timer when making outbound calls)  |  |
| <b>Callee Request Timer:</b>  | <input checked="" type="radio"/> No <input type="radio"/> Yes (When caller supports timer but did not request one)  |  |
| <b>Force Timer:</b>   | <input checked="" type="radio"/> No <input type="radio"/> Yes (Use timer even when remote party does not support)   |  |
| <b>UAC Specify Refresher:</b>   | <input type="radio"/> UAC <input type="radio"/> UAS <input checked="" type="radio"/> Omit (Recommended)   |  |
| <b>UAS Specify Refresher:</b>   | <input checked="" type="radio"/> UAC <input type="radio"/> UAS (When UAC did not specify refresher tag)   |  |
| <b>Force INVITE:</b>  | <input checked="" type="radio"/> No <input type="radio"/> Yes (Always refresh with INVITE instead of UPDATE)  |  |
| <b>Enable 100rel:</b>   | <input checked="" type="radio"/> No <input type="radio"/> Yes   |  |
| <b>Account Ring Tone:</b>   | <input checked="" type="radio"/> system ring tone<br><input type="radio"/> custom ring tone 1<br><input type="radio"/> custom ring tone 2<br><input type="radio"/> custom ring tone 3 |  |
| <b>Ring Timeout:</b>  | <input type="text" value="60"/>   | (in seconds. Between 30-3600, default is 60)   |
| <b>Send Anonymous:</b>  | <input checked="" type="radio"/> No <input type="radio"/> Yes (caller ID will be blocked if set to Yes)   |  |
| <b>Anonymous Method:</b>  | <input checked="" type="radio"/> Use From Header <input type="radio"/> Use Privacy Header   |  |
| <b>Anonymous Call Rejection:</b>  | <input checked="" type="radio"/> No <input type="radio"/> Yes   |  |
| <b>Auto Answer:</b>   | <input checked="" type="radio"/> No <input type="radio"/> Yes   |  |
| <b>Allow Auto Answer by Call-Info:</b>  | <input checked="" type="radio"/> No <input type="radio"/> Yes   |  |
| <b>Turn off speaker on remote disconnect:</b>   | <input checked="" type="radio"/> No <input type="radio"/> Yes   |  |
| <b>Check SIP User ID for incoming INVITE:</b>   | <input checked="" type="radio"/> No <input type="radio"/> Yes   |  |
| <b>Refer-To Use Target Contact:</b>   | <input checked="" type="radio"/> No <input type="radio"/> Yes   |  |
| <b>Disable Multiple Media Attribute in SDP:</b>   | <input checked="" type="radio"/> No <input type="radio"/> Yes   |  |
| <b>Preferred Vocoder:<br/>(in listed order)</b>   | choice 1: <input type="text" value="GSM"/><br>choice 2: <input type="text" value="GSM"/><br>choice 3: <input type="text" value="GSM"/><br>choice 4: <input type="text" value="GSM"/>  | choice 5: <input type="text" value="GSM"/><br>choice 6: <input type="text" value="GSM"/><br>choice 7: <input type="text" value="GSM"/><br>choice 8: <input type="text" value="GSM"/> |
| <b>SRTP Mode:</b>   | <input checked="" type="radio"/> Disabled <input type="radio"/> Enabled but not forced<br><input type="radio"/> Enabled and forced <input type="radio"/> Optional                     |  |
| <b>eventlist BLF URI:</b>   | <input type="text"/>  |  |
| <b>Special Feature:</b>   | <input type="text" value="Standard"/>   |  |
| <input type="button" value="Update"/> <input type="button" value="Cancel"/> <input type="button" value="Reboot"/> |   |  |
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