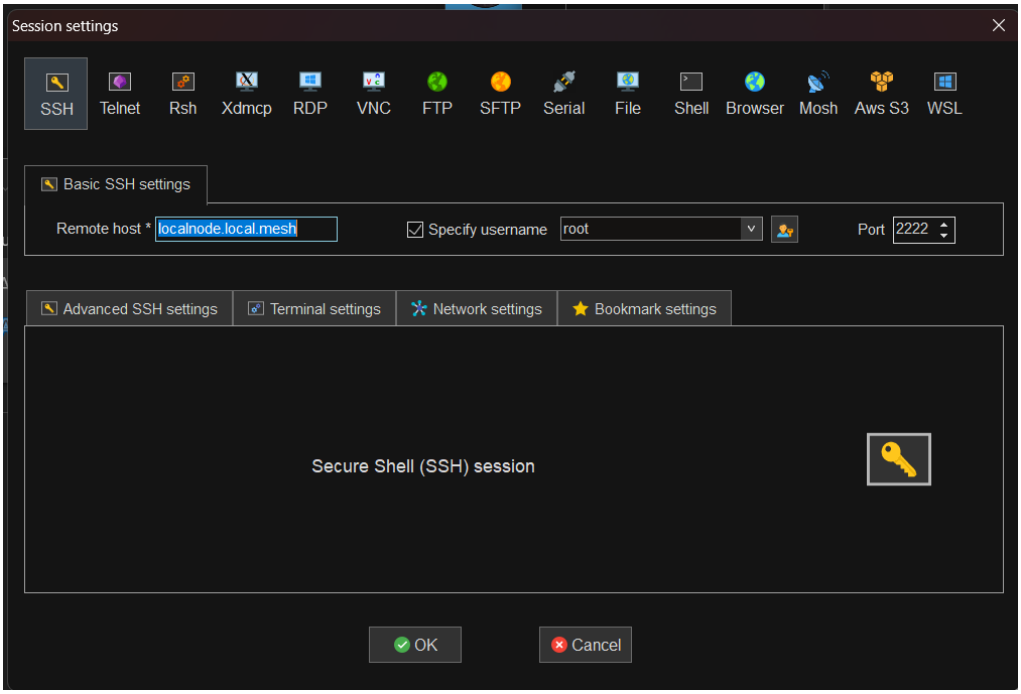
AREDN Phonebook Installation (short version)

Installation on the hap Router

First, you have to ssh into your router (address: localnode.local.mesh) using mobaXterm or PUTTY, or any other terminal program. Keep in mind to use port 2222.



Example: MobaXterm (https://mobaxterm.mobatek.net/download.html)

For the next steps, your hap Router needs to be connected to AREDN (SwissDigitalNet or other), where your organization's phonebook is hosted.

First, we run phonebook_installer.sh (call is valid for Switzerland):

```
curl http://hb9edi-apu-1.local.mesh:8080/filerepo/Phonebook/phonebook_installer.sh
| sh -s http://hb9edi-apu-1.local.mesh:8080/filerepo/Phonebook/
```

(Please replace “http://hb9edi-apu-1.local.mesh:8080/filerepo/Phonebook “ with the address of your organization’s web server)

Now you should have the settings.txt file on your router

```
root@HB9BLA-HAP3-1:/arednstack/phonebook# ls -l
-rw-r--r--    1 root     root           186 Aug  8 17:45 settings.txt
root@HB9BLA-HAP3-1:/arednstack/phonebook#
```

The initial settings.txt looks like that:

```
#Direct calling or PBX operation
download_directory_direct=YES
download_directory_pbx=YES

#Which Brands of phones are used on your router
create_yealink=YES
create_cisco=NO
create_noname=NO
```

And in the /www directory, you should find all the requested xml phonebooks:

```
root@HB9BLA-HAP3-1:/www# ls *.xml -l
-rw-r--r--    1 root     root         11578 Jul 27 07:55 phonebook_yealink_direct.xml
-rw-r--r--    1 root     root         10123 Jul 27 07:55 phonebook_yealink_pbx.xml
```

(I only selected Yealink phones, but I want to have direct and PBX calling phone books. You may have more or fewer files according to the definition of your settings.txt).
Currently, only Yealink phones are supported.

And in /etc/cron.daily/, you should see the “download_phonebook” file:

```
root@HB9BLA-HAP3-1:/etc/cron.daily# ls -l
-rwxr-xr-x    1 root     root            91 Aug  9 09:53 download_phonebook
-rwxr-xr-x    1 root     root          2129 Apr 27 22:28 update-clock
root@HB9BLA-HAP3-1:/etc/cron.daily#
```

This job downloads the phonebook every day once. Because our routers do not support crontab, we had to use this trick.

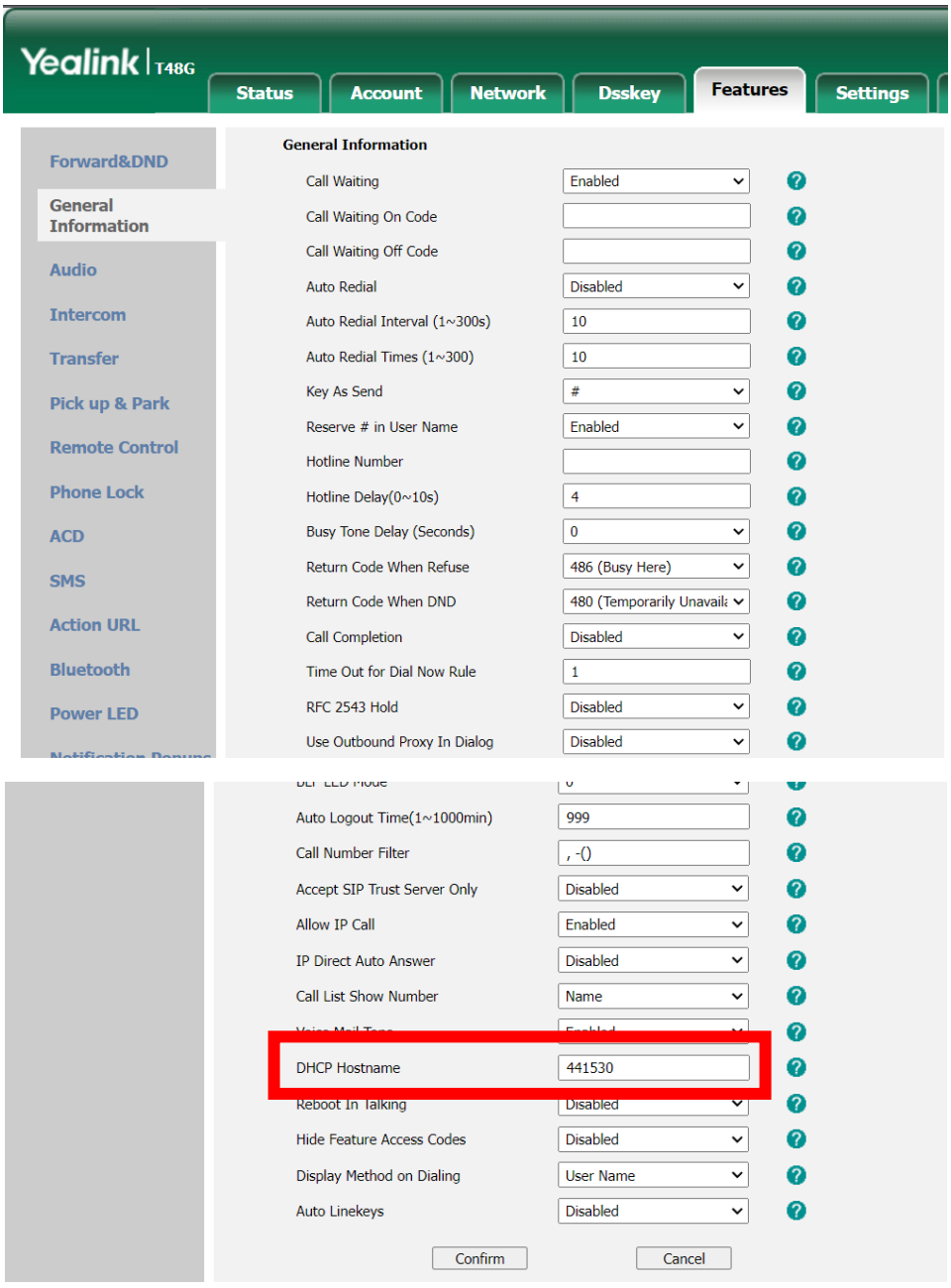
Now we can go on with the phones.

Parameters in Yealink Phones

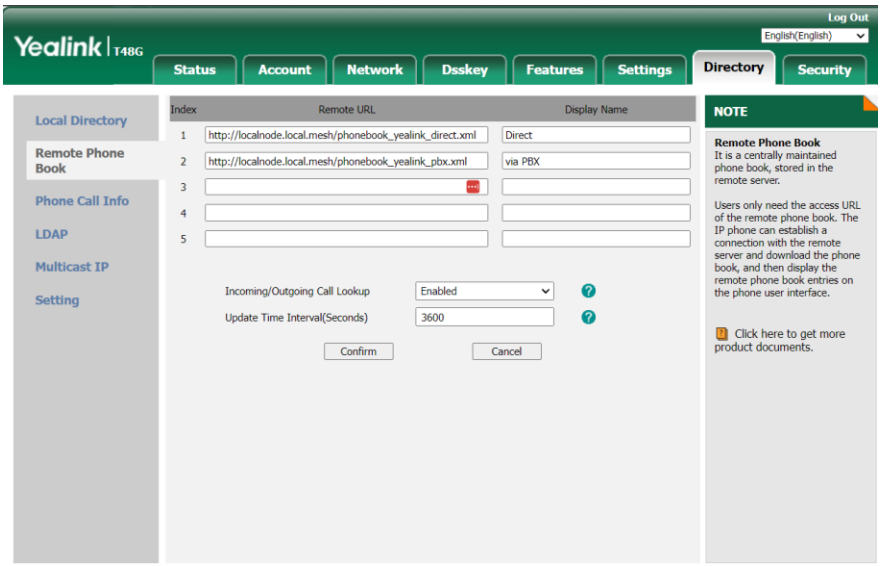
Name your telephone with your number (your number is PLZ+double digit number, starting at 30).

In Switzerland, three administrators are defined: HB9FND, HB9JAT, and HB9BLA. If not sure: HB9BLA

A common Swiss telephone book is maintained. Without entering your number there, you will not get the advantages of this phonebook.


Yealink | T48G
Status
Account
Network
Dsskey
Features
Settings
Forward&DND
General Information
Audio
Intercom
Transfer
Pick up & Park
Remote Control
Phone Lock
ACD
SMS
Action URL
Bluetooth
Power LED
General Information
Call Waiting
Enabled
Call Waiting On Code
Call Waiting Off Code
Auto Redial
Disabled
Auto Redial Interval (1~300s)
10
Auto Redial Times (1~300)
10
Key As Send
#
Reserve # in User Name
Enabled
Hotline Number
Hotline Delay(0~10s)
4
Busy Tone Delay (Seconds)
0
Return Code When Refuse
486 (Busy Here)
Return Code When DND
480 (Temporarily Unavail
Call Completion
Disabled
Time Out for Dial Now Rule
1
RFC 2543 Hold
Disabled
Use Outbound Proxy In Dialog
Disabled
Auto Logout Time(1~1000min)
999
Call Number Filter
, -()
Accept SIP Trust Server Only
Disabled
Allow IP Call
Enabled
IP Direct Auto Answer
Disabled
Call List Show Number
Name
DHCP Hostname
441530
Reboot In Talking
Disabled
Hide Feature Access Codes
Disabled
Display Method on Dialing
User Name
Auto Linekeys
Disabled
Confirm
Cancel

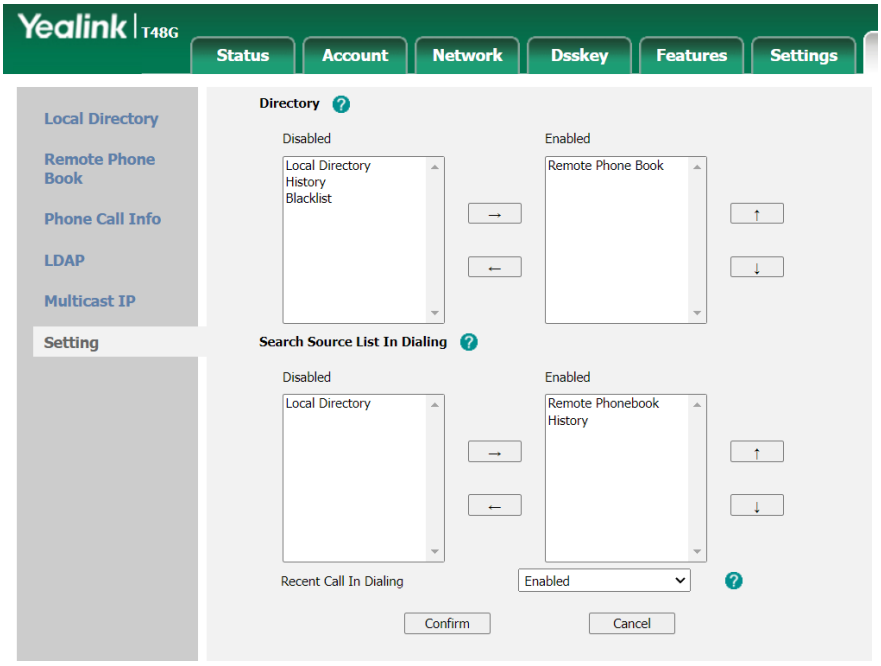
Directory



Add one or two files into the “remote phonebook” of your telephone. Make sure you do this only when the telephone is connected to a router where you installed the appropriate phonebooks

Here are the entries for copy-paste (you can use these addresses to test if your router installation is ok)

```
http://localnode.local.mesh/phonebook_yealink_direct.xml
http://localnode.local.mesh/phonebook_yealink_pbx.xml
```



Install SIPproxd on your hap router (only hap lite for the moment)

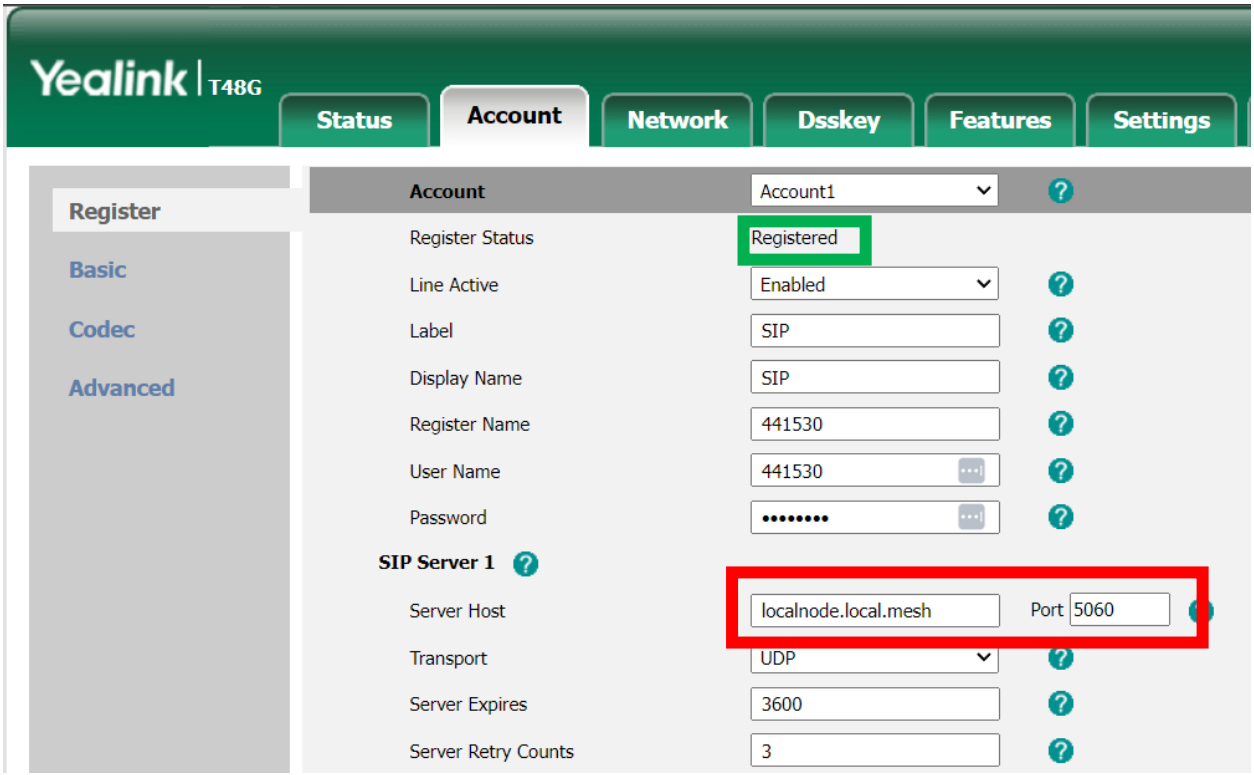
Yealink phones need to be registered to a SIP server to work properly with the phone books. If you have no PBX available, you can install SIPproxd on your hap router and connect your Yealinks to this server. If

you use a PBX, configure the account as usual. Then, you have the single point of failure (if the connection to the PBX is lost, your phone will no more properly work also for direct calls). Maybe you consider a fallback scenario with SIProxd as a second accont?

```
curl http://hb9edi-apu-1.local.mesh:8080/filerepo/Siproxd/SIProxd_installer.sh | sh
```

(Also here, replace “http://hb9edi-apu-1.local.mesh:8080/filerepo/Phonebook “ with the address of your hoster’s web server)

Add “localnode.local.mesh” as a server host in your phones:



Check if your phone is registered.

Now your telephones attached to this particular router should see the requested phone books, and names should be shown when you get calls. Chose the direct phone book for direct calls.