

# Blink

Blink is a free SIP softphone client for linux. Note that Blink does not have a traditional dial-pad. The developers decided that it's not necessary as you can enter numbers directly via keyboard or call existing contacts.

## Blink on Debian

It's not available in the debian default repository but from a third party. Create a new apt sources file for blink:

```
sudo vi /etc/apt/sources.list.d/blink.list
```

and add the following repositories:

```
deb http://ag-projects.com/debian stable main
deb-src http://ag-projects.com/debian stable main
```

Add the gpg key for the repository:

```
wget http://download.ag-projects.com/agp-debian-gpg.key
sudo apt-key add agp-debian-gpg.key
```

For Blink 2.0.0 on Linux Mint or Debian Jessie, packages from the unstable branch are required. Those packages have been ported back to Jessie and are available in the jessie-backports repository. Add this repository to your apt sources file (`/etc/apt/sources.list` or `/etc/apt/sources.list.d/official-package-repositories.list`)

```
deb ftp://debian.serverspace.co.uk/debian/ jessie-backports main contrib
non-free
```

then do an

```
sudo apt-get update
```

Linux Mint does not include multimedia codecs any longer. This includes ffmpeg libraries and several others required for Blink's video functionality. Even though this is not essentially required for the phone part, the sipsimple package cannot be installed without them.

Copies of the dependencies are stored on the amati file server in `/software/it/linux/blink` and consist of the following libraries:

```
libavcodec-ffmpeg56_7%3a2.8.6-1~bpo8+1_amd64.deb
libavformat-ffmpeg56_7%3a2.8.6-1~bpo8+1_amd64.deb
libavutil-ffmpeg54_7%3a2.8.6-1~bpo8+1_amd64.deb
libsappy1_1.1.2-3_amd64.deb
libsoxr0_0.1.1-1_amd64.deb
```

```
libssh-gcrypt-4_0.6.3-4+deb8u2_amd64.deb
libswresample-ffmpeg1_7%3a2.8.6-1~bpo8+1_amd64.deb
libswscale-ffmpeg3_7%3a2.8.6-1~bpo8+1_amd64.deb
libx265-59_1.7-4~bpo8+1_amd64.deb
```

Copy these into /tmp on the target system, then install all of them using

```
sudo dpkg -i /tmp/lib*
```

Now, you can install blink with all dependencies in descending order:

```
sudo apt-get install python-application -t jessie-backports
sudo apt-get install python-otr -t jessie-backports
sudo apt-get install python-sipsimple -t jessie-backports
sudo apt-get install sipclients -t jessie-backports
sudo apt-get install blink -t jessie-backports
```

Finally, the default ring-tone of Blink is a high-pitched noise which is more annoying rather than a good ring-tone. Any wav file can be used as ring tone, but the ring tone of Bria is copied it as 'ring.wav' in the software/it/linux folder on the Amati network drive.

Download [ring.wav](#) and save it on your system. Then rename the original Blink ring-tone and then copy the Bria ring-tone instead:

```
sudo mv /usr/share/blink/sounds/inbound_ringtone.wav
/usr/share/blink/sounds/inbound_ringtone.wav.orig
sudo cp ring.wav /usr/share/blink/sounds/inbound_ringtone.wav
```

Now start Blink from the menu, configure desired SIP accounts, set the input/output/alert devices, add contacts and you're ready to go.

Default Preferences:

```
Settings:
Setup existing SIP account.
  User: 11xx@amati.hosted.surevoip.co.uk and respective SIP password

Blink -> Preferences:

Accounts:
Set Display Name
Media: opus/G722, PCMU/PCMA, set Send inband DTMF, opportunistic encryption
Server: UDP
Network: don't use ICE, MSRP Transport: TLS
Adv: 600,600,600,+,None

Audio: enable echo cancellation, sample rate 32000

Adv: Enable UDP, TCP, TLS tranport with Auto port
```

```
RTP ports 500 starting at 50000
```

```
Disable bonjour account by unticking the 'use account' option.
```

```
Delete all contacts by right-clicking the entries and selecting delete.
```

```
Use the [+] sign in the lower left corner to add new contacts as necessary.
```

```
Testing of Audio configuration and network settings can be done using the  
SureVoIP echo test number *9196
```

## Building blink from sources

```
sudo apt-get install darcs  
mkdir blink-source  
cd blink-source  
darcs get http://devel.ag-projects.com/repositories/blink-qt  
    (incremental changes to repository: darcs pull -a)  
cd blink-qt  
sudo apt-get install cython  
sudo apt-get install python-dev  
sudo apt-get install libvncserver-dev libgnutls28-dev libjpeg-dev zlib1g-dev  
  
sudo apt-get install python-pyqt5 python-pyqt5.qtwebkit python-pyqt5.qtsvg  
  
#cheating:  
vi blink/contacts.py  
    search for schedule and remove the ,schedule=true from the network-io  
vi blink/screensharing/vncclient.py  
    remove the import RDBClient, RFBClientError  
  
sudo python setup.py install  
  
do not use: sudo apt-get install cmake (wrong version)  
  
making cmake 3.4 (required for libvnc)  
wget http://www.cmake.org/files/v3.4/cmake-3.4.1.tar.gz  
tar -xvzf cmake-3.4.1.tar.gz  
cd cmake-3.4.1/  
./configure  
make  
sudo make install  
sudo update-alternatives --install /usr/bin/cmake cmake /usr/local/bin/cmake  
1 --force  
  
sudo apt-get install libpng12.0  
  
sudo apt-get install libsdl1.2-dev
```

```
sudo apt-get install libssl-dev libssl1.0.0
sudo apt-get install libgcrypt11-dev

cd ..
mkdir libvnc
cd libvnc
wget https://github.com/LibVNC/libvncserver/archive/master.zip
unzip master.zip
cd libvncserver-master/
mkdir build
cd build
#sudo cmake ..
sudo cmake .. -DWITH_SYSTEMD:BOOL=OFF
sudo cmake --build .
```

From:

<http://wuff.dyndns.org/> - **Wulf's Various Things**

Permanent link:

<http://wuff.dyndns.org/doku.php?id=config:blink>

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