Bluetooth

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- Enable Bluetooth

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- Serial Pi2Pi

Tools installieren

- Updates einspielen
  `sudo apt update && sudo apt upgrade -y && sudo apt install git`
- Konsole
  `sudo apt install bluez bluetooth pulseaudio pulseaudio-utils pulseaudio-module-bluetooth`
- grafisch
  `sudo apt install blueman pavucontrol`

kein BT Sound

- Gerät hängt an anderem Pulsaudio → anderer User

```
pid@smartpad:~$ ps -fC pulseaudio
UID        PID  PPID  C STIME TTY          TIME CMD
lightdm   1576  1559  3 07:27 ?        00:00:06 /usr/bin/pulseaudio --
daemonize=no --log-target=journal
pid       1932  1791  0 07:27 ?        00:00:00 /usr/bin/pulseaudio --
daemonize=no --log-target=journal
```

- `sudo systemctl stop lightdm.service`

Links

- Bluez github

https://github.com/bluez/bluez.git
- bluetooth-autoconnect
  https://github.com/jrouleau/bluetooth-autoconnect
- https://mcuoneclipse.com/2017/06/04/using-python-to-store-data-from-many-ble-devices/
- Bluetooth with Arduino and Linux (BT - Seriell)
  http://denethor.wlu.ca/arduino/bluetooth.shtml
- How to connect raspberry pi with HC-05 bluetooth module + arduino programm
  https://ivanmorenoj.medium.com/how-to-connect-raspberry-pi-with-hc-05-bluetooth-module-arduino-programm-64a3a8b407a6
- https://www.baeldung.com/linux/bluetooth-via-terminal#bd-overview
- Setting up a Bluetooth Speaker from the command line on a raspberry Pi Zero W
  https://gist.github.com/actuino/9548329d1bba6663a63886067af5e4cb
- Listen to Bluetooth Audio on Your Raspberry Pi 3, Pi Zero, or Earlier Pi
  https://plugable.com/blogs/news/listen-to-bluetooth-audio-on-your-raspberry-pi-3-pi-zero-or-earlier-pi
- Connecting bluetooth audio device to Raspberry Pi
  https://wiretuts.com/connecting-bluetooth-audio-device-to-raspberry-pi
- RetroPie (V4.2): Bluetooth Controller
  https://www.retro-programming.de/retro-welt-2/hardware/raspberry-pi-als-emulator-retropie/retropie-controller-einrichten/retropie-bluetooth-controller/
- https://techwiser.com/fix-bluetooth-device-doesnt-auto-connect-in-linux/
- https://wiki.ubuntu.com/DebuggingBluetooth
- Pairing from Ubuntu Core
  https://ubuntu.com/core/docs/bluez/reference/pairing/outbound-pairing

Damit am Pi einfache Controller laufen einen anderen Agent verwenden
→ ~/RetroPie-Setup/scriptmodules/supplementary/bluetooth
→ bluez-simple-agent

→ Beuspiel:
17:05:16:03:35:E1 MOCUTE-032S_A03-35E1
get_script_bluetooth bluez-simple-agent) -c DisplayYesNo hci0 17:05:16:03:35:E1

sudo bluetoothctl muss dafür auf sein ??

Log

```
 1  cat /etc/os-release
 2  sudo systemctl status bluetooth.service
 3  sudo bluetoothctl
 4  sudo btmon
 5  sudo btmon
 6  git clone https://github.com/bluez/bluez.git
 7  sudo apt install git
 8  git clone https://github.com/bluez/bluez.git
 9  sudo apt-get build-dep bluez
10  cd bluez/
11  ./bootstrap
12  sudo apt install aclocal
13  apt search aclocal
```

```
 14  sudo apt install build-essential libbluetooth-dev libglib2.0-dev
libdbus-1-dev git
 15  ./bootstrap
 16  sudo apt install build-essential libbluetooth-dev libglib2.0-dev
libdbus-1-dev git automake
 17  ./bootstrap
 18  apt search libtoolsize
 19  apt search libtoolize
 20  sudo apt install build-essential libbluetooth-dev libglib2.0-dev
libdbus-1-dev git automake libtool
 21  ./bootstrap
 22  ./configure --prefix=/usr --mandir=/usr/share/man --sysconfdir=/etc --
localstatedir=/var
 23  sudo apt install build-essential libbluetooth-dev libglib2.0-dev
libdbus-1-dev git automake libtool libudev
 24  sudo apt install build-essential libbluetooth-dev libglib2.0-dev
libdbus-1-dev git automake libtool libudev-dev
 25  sudo apt update
 26  sudo apt install build-essential libbluetooth-dev libglib2.0-dev
libdbus-1-dev git automake libtool libudev-dev
 27  ./configure --prefix=/usr --mandir=/usr/share/man --sysconfdir=/etc --
localstatedir=/var
 28  sudo apt install build-essential libbluetooth-dev libglib2.0-dev
libdbus-1-dev git automake libtool libudev-dev libical-dev
 29  ./configure --prefix=/usr --mandir=/usr/share/man --sysconfdir=/etc --
localstatedir=/var
 30  sudo apt install build-essential libbluetooth-dev libglib2.0-dev
libdbus-1-dev git automake libtool libudev-dev libical-dev libreadline-dev
 31  ./configure --prefix=/usr --mandir=/usr/share/man --sysconfdir=/etc --
localstatedir=/var
 32  sudo apt install build-essential libbluetooth-dev libglib2.0-dev
libdbus-1-dev git automake libtool libudev-dev libical-dev libreadline-dev
 33  sudo apt install build-essential libbluetooth-dev libglib2.0-dev
libdbus-1-dev git automake libtool libudev-dev libical-dev libreadline-dev
python3-docutils
 34  ./configure --prefix=/usr --mandir=/usr/share/man --sysconfdir=/etc --
localstatedir=/var
 35  make -j4
 36  sudo make install
 37  btmon -v
 38  sudo systemctl restart bluetooth.service
 39  sudo systemctl daemon-reload
 40  sudo systemctl restart bluetooth.service
 41  sudo systemctl status bluetooth.service
 42  sudo vluetoothc
 43  sudo bluetoothctl
 44  sudo reboot
 45  sudo bluetoothctl
 46  arecord
 47  arecord -l
 48  arecord -L
```

```
 49  pactl list cards short
 50  sudo apt install pulseaudio
 51  pacmd list-source
 52  nano ~/.config/pulse/client.conf
 53  sudo raspi-config
 54  sudo apt-get install pulseaudio pulseaudio-utils pulseaudio-module-
bluetooth
 55  sudo usermod -a -G lp pi
 56  groups
 57  usermod --help
 58  id pi
 59  groups --help
 60  groups pi
 61  sudo reboot
 62  pulseaudio --start
 63  htop
 64  ps -ef |grep pulse
 65  sudo bluetoothctl
 66  pactl list cards short
 67  pactl list cards
 68  paplay -p --device=1 /usr/share/sounds/alsa/Front_Center.wav
 69  pactl list short modules
 70  pactl list cards
 71  sudo bluetoothctl
 72  sudo bluetoothctl
 73  wget blob:https://github.com/c5685084-4f9f-4e57-8748-e6d4b9467837
 74  wget https://github.com/c5685084-4f9f-4e57-8748-e6d4b9467837
 75  wget
https://raw.githubusercontent.com/RetroPie/RetroPie-Setup/master/scriptmodul
es/supplementary/bluetooth/bluezutils.py
 76  wget
https://raw.githubusercontent.com/RetroPie/RetroPie-Setup/master/scriptmodul
es/supplementary/bluetooth/bluez-simple-agent
 77  ls
 78  python bluez-simple-agent
 79  pip3 install dbus
 80  sudo apt install pip3
 81  sudo apt install python3-pip
 82  pip3 install dbus
 83  pip install dbus-python
 84  python bluez-simple-agent
 85  pip install glib
 86  python bluez-simple-agent
 87  mv bluez-simple-agent bluez-simple-agent.py
 88  cat bluez-simple-agent.py
 89  pip install python3-gi
 90  sudo apt install python3-gi
 91  cat bluez-simple-agent.py
 92  python bluez-simple-agent
 93  python bluez-simple-agent.py
 94  sudo python bluez-simple-agent.py
```

```
 95  sudo apt install python3-dbus
 96  sudo python bluez-simple-agent.py
 97  cat /etc/group | grep blue
 98  git clone https://github.com/jrouleau/bluetooth-autoconnect.git
 99  sudo cp bluetooth-autoconnect/bluetooth-autoconnect.service
/etc/systemd/system/
100  sudo cp '/home/pratik/bluetooth-autoconnect/bluetooth-autoconnect'
/usr/bin/
101  sudo cp ~/bluetooth-autoconnect/bluetooth-autoconnect /usr/bin/
102  sudo systemctl enable bluetooth-autoconnect.service
103  sudo systemctl start  bluetooth-autoconnect.service
104  sudo systemctl status  bluetooth-autoconnect.service
105  journalctl -u bluetooth-autoconnect.service
106  journalctl -u bluetooth-autoconnect.service -b
107  journalctl -xefu bluetooth-autoconnect.service
108  cd bluetooth-autoconnect/
109  ls
110  cat bluetooth-autoconnect
111  sudo nano /usr/bin/bluetooth-autoconnect
112  sudo systemctl restart  bluetooth-autoconnect.service
113  journalctl -xefu bluetooth-autoconnect.service
114  sudo nano /usr/bin/bluetooth-autoconnect
115  sudo systemctl restart  bluetooth-autoconnect.service
116  journalctl -xefu bluetooth-autoconnect.service
117  sudo systemctl restart  bluetooth-autoconnect.service
118  journalctl -xefu bluetooth-autoconnect.service
119  sudo systemctl stop bluetooth-autoconnect.service
120  sudo apt install vlc
121  vlc
122  pavucontrol
123  sudo apt install pavucontrol
124  pavucontrol
125  pulseaudio --start
126  vlc
127  cat /home/pi/.asoundrc
128  cd ~
129  nano .asoundrc
130  ls -lah
131  sudo nano .asoundrc
132  vlc
133  cat /etc/asound.conf
134  cvlc --aout=alsa --alsa-audio-device=default --verbose=-1
http://st01.dlf.de/dlf/01/128/mp3/stream.mp3
135  sudo reboot
136  sudo btmon
137  plu
138  pulseaudio --start
139  cvlc --aout=alsa --alsa-audio-device=default --verbose=-1
http://st01.dlf.de/dlf/01/128/mp3/stream.mp3
140  vlc
141  sudo apt install blueman
```

```
142  blueman-manager
143  blueman-applet
144  blueman-assistant
145  blueman-applet
146  blueman-adapters
147  blueman-applet
148  blueman-applet &
149  blueman-manager
150  pavucontrol
151  alsamixer
152  ls -al /dev/snd
153  ip pi
154  id pi
155  sudo service bluealsa status
156  sudo apt-get install pulseaudio pulseaudio-module-bluetooth
157  id pi
158  sudo usermod -G bluetooth -a pi
159  id pi
160  sudo reboot
161  pulseaudio --start
162  sudo bluetoothctl
163  cat /etc/pulse/default.pa
164  cd /etc/pulse/
165  ls
166  ls -lah
167  sudo nano default.pa
168  cd ..
169  cd bluetooth/
170  ls
171  ls -lah
172  sudo nano main.conf
173  bluetoothctl -a
174  sudo reboot
175  vlc
176  sudo nano /boot/config.txt
177  sudo reboot
178  vlc
179  apl
180  aplay
181  pulseaudio --start
182  cvlc  --verbose=-1 http://st01.dlf.de/dlf/01/128/mp3/stream.mp3
183  cvlc  --verbose=1 http://st01.dlf.de/dlf/01/128/mp3/stream.mp3
184  find / -name *.wav
185  alsa /usr/share/sounds/alsa/Front_Center.wav
186  aplay /usr/share/sounds/alsa/Front_Center.wav
187  paplay -p --device=1 /usr/share/sounds/alsa/Front_Center.wav
188  pulseaudio --start
189  pactl list cards short
190  sudo bluetoothctl
191  pactl list cards
192  sudo bluetoothctl
```

```
193  pactl list cards
194  vlc
195  sudo nano  /etc/bluetooth/main.conf
196  sudo systemctl restart bluetooth
197  pactl list sinks short
198  pactl list cards
199  sudo reboot
200  pactl list cards
201  sudo -H pactl load-module module-bluetooth-discover
202  pactl list cards
203  sudo --help
204  pacmd list-cards
205  sudo bluetoothctl
206  pacmd list-cards
207  sudo bluetoothctl
208  sudo reboot
209  pacmd list-cards
210  sudo apt install omxplayer
211  apt search omx
212  cvlc  --verbose=1 http://st01.dlf.de/dlf/01/128/mp3/stream.mp3
213  pavucontrol
214  sudo apt update
215  sudo apt upgrade
216  sudo nano  /etc/bluetooth/main.conf
217  sudo systemctl restart bluetooth
218  sudo python bluez-simple-agent.py
219  dmesg | grep Bluetooth
220  sudo nano  /etc/bluetooth/main.conf
221  ls /dev/tty*
222  sudo rfcomm bind rfcomm0 00:13:AA:00:0D:AC
223  ls /dev/tty*
224  ls /dev/rf*
225  sudo rfcomm unbind rfcomm0 00:13:AA:00:0D:AC
226  ls /dev/rf*
227  sudo rfcomm bind rfcomm0 00:13:AA:00:0D:AC
228  sudo rfcomm bind rfcomm0  20:14:04:14:27:92
229  sudo rfcomm unbind rfcomm0 00:13:AA:00:0D:AC
230  sudo rfcomm bind rfcomm0  20:14:04:14:27:92
231  ls /dev/rf*
232  cat /dev/rfcomm0
233  sudo rfcomm bind rfcomm0  20:14:04:14:27:92
234  cat /dev/rfcomm0
```

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Permanent link:
https://www.drklipper.de/doku.php?id=linux:bluetooth:start

Last update: **2024/03/03 08:35**