

Bluetooth

```
apt-get install bluez bluez-tools d-feet
sudo usermod -a -G bluetooth $USER
sudo setcap 'cap_net_raw,cap_net_admin+eip' `which hcitool`
sudo setcap 'cap_net_raw,cap_net_admin+eip' `which hciconfig`
```

debug

Enable debug output of bluetooth.service:

```
systemctl edit bluetooth.service
```

```
[Service]
ExecStart=
ExecStart=/usr/libexec/bluetooth/bluetoothd -dn
```

NOTE: empty ExecStart= is required to remove previous ExecStart (to prevent duplicate entries)

```
systemctl daemon-reload
systemctl restart bluetooth.service
```

hcitool

```
hciconfig
hciconfig hci0 up
hcitool dev
hcitool lescan

hciconfig hci0 lestates
```

gatttool

```
gatttool -b AA:BB:CC:DD:EE:FF -I
```

- connect
- characteristics
- char-read-uuid 00002a00-0000-1000-8000-00805f9b34fb

d-feet

d-feet

CSR 4.0 USB adapter

It is based on **CSR 8510 A10** aka **Sitecom CNT-524** CSR = Cambridge Silicon Radio

Supports BLE:

```
usb 3-14: New USB device found, idVendor=0a12, idProduct=0001,
bcdDevice=88.91
usb 3-14: New USB device strings: Mfr=0, Product=2, SerialNumber=0
usb 3-14: Product: CSR8510 A10
```

without BLE support:

```
usb 3-14: New USB device found, idVendor=0a12, idProduct=0001,
bcdDevice=68.17
usb 3-14: New USB device strings: Mfr=0, Product=2, SerialNumber=0
usb 3-14: Product: CSR8510 A10
```

Difference is in **bcdDevice** value, which corresponds to device release number.

```
hciconfig -a
hci1:   Type: Primary   Bus: USB
        HCI Version: 3.0 (0x5)   Revision: 0x1aa1
        LMP Version: 3.0 (0x5)   Subversion: 0x1aa1
        Manufacturer: Cambridge Silicon Radio (10)

hci0:   Type: Primary   Bus: USB
        HCI Version: 4.0 (0x6)   Revision: 0x22bb
        LMP Version: 4.0 (0x6)   Subversion: 0x22bb
        Manufacturer: Cambridge Silicon Radio (10)
```

Android APKs

- nRF Connect for Mobile
- nRF Toolbox for BLE
- nRF Logger

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