











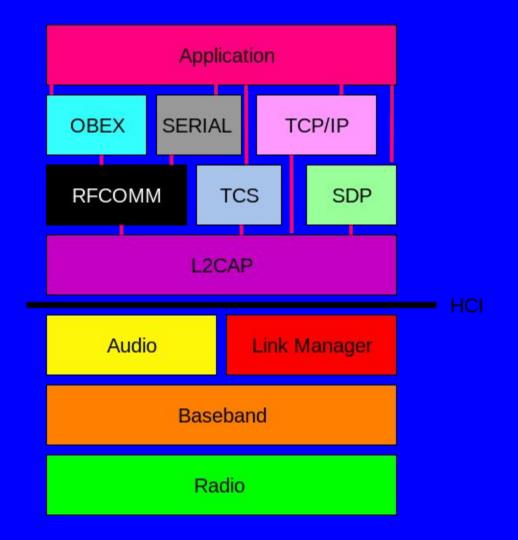
smart phones



computers







HCI

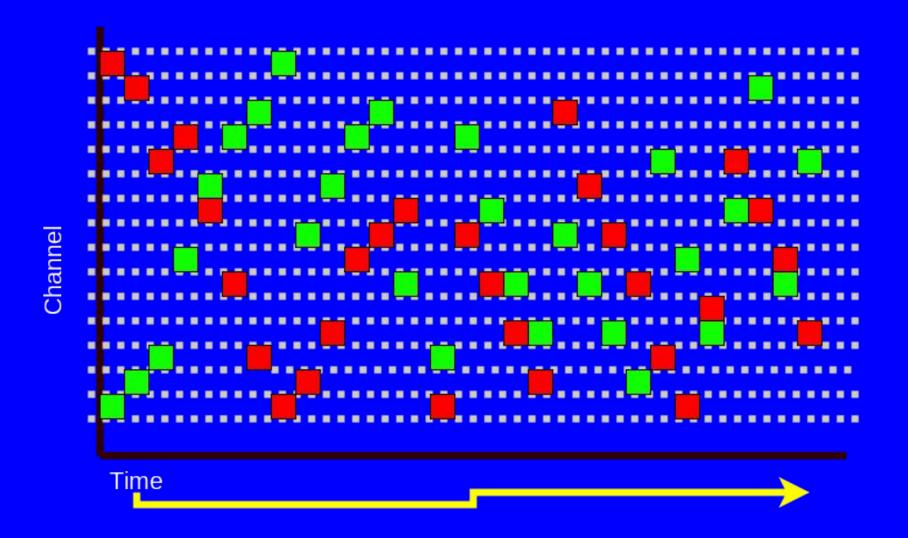
HCI CONTROLLER

LINK MANAGER

LINK CONTROLLER

-HCI

BASEBAND



Application

RFCOMM

L2CAP

HCI

BASEBAND

```
socket desc = socket(AF BLUETOOTH, SOCK STREAM, BTPROTO RFCOMM);
if (socket desc == -1)
  printf("Failed to create socket\n");
   exit(1);
loc addr.rc family = AF BLUETOOTH;
str2ba(src, &loc addr.rc bdaddr);
loc addr.rc channel = (uint8 t) channel;
if (bind(socket desc,(struct sockaddr *)&loc addr, sizeof(loc addr)) < 0)</pre>
   printf("Failed to bind\n");
   return 1;
listen(socket desc , 1);
```



HCI

BASEBAND



PBAP

OBEX

RFCOMM

L2CAP

BASEBAND





MAP

OBEX

RFCOMM

L2CAP

BASEBAND

RADIO LAYER

HC



SAP

RFCOMM

L2CAP

--- HCI

BASEBAND





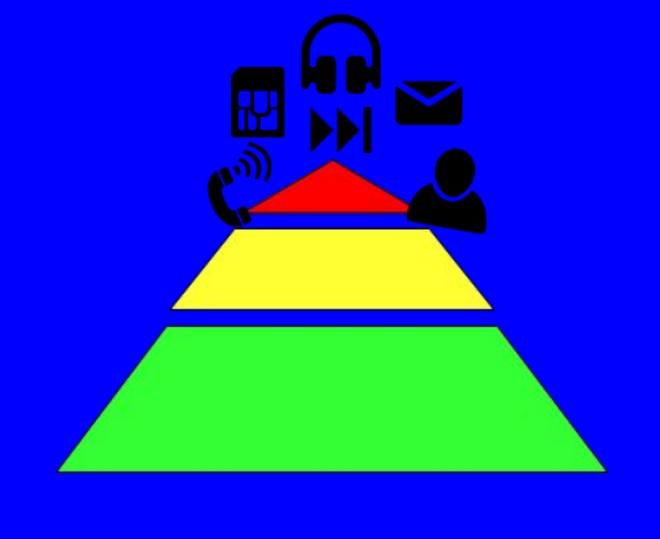
AVRCP

A2DP

L2CAP

BASEBAND

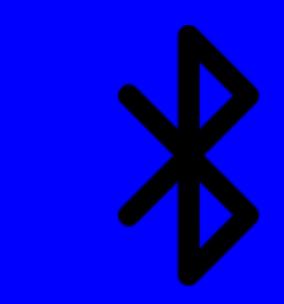




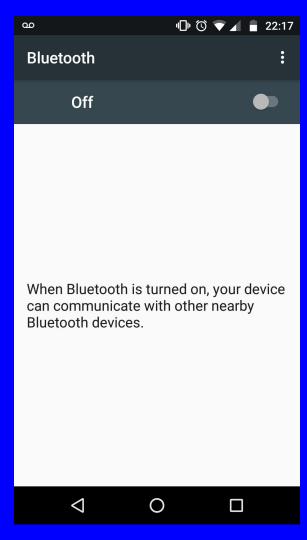


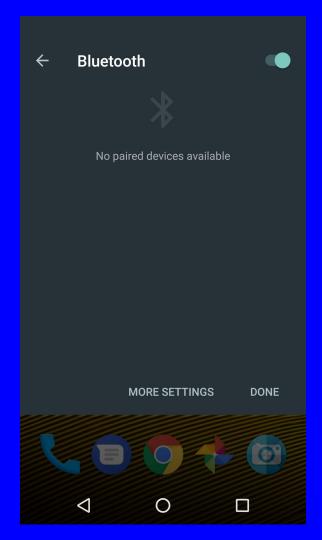


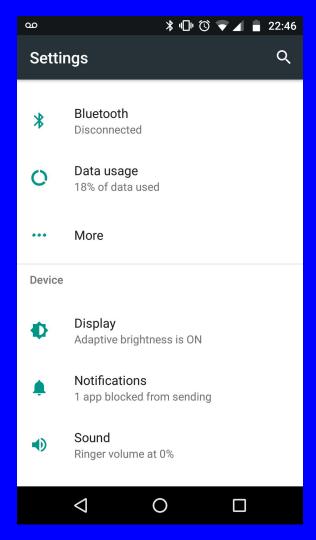
01:23:45:67:89: AB

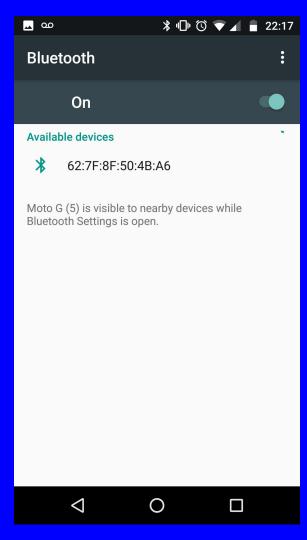


01:23:45:67:89: AC











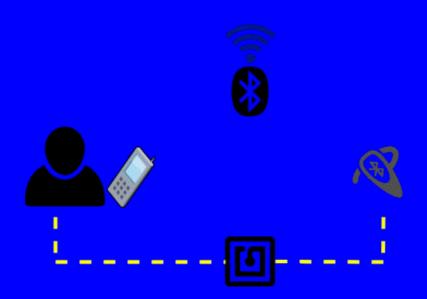








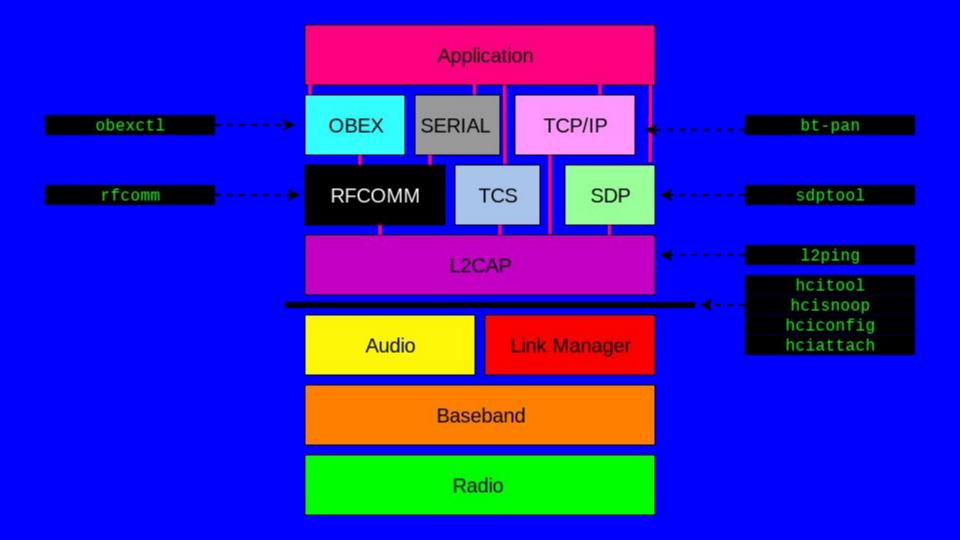


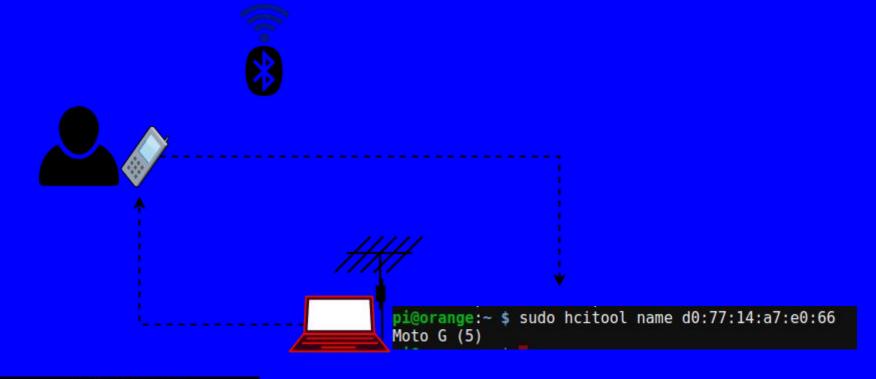












hcitool name



Protocol Descriptor List:





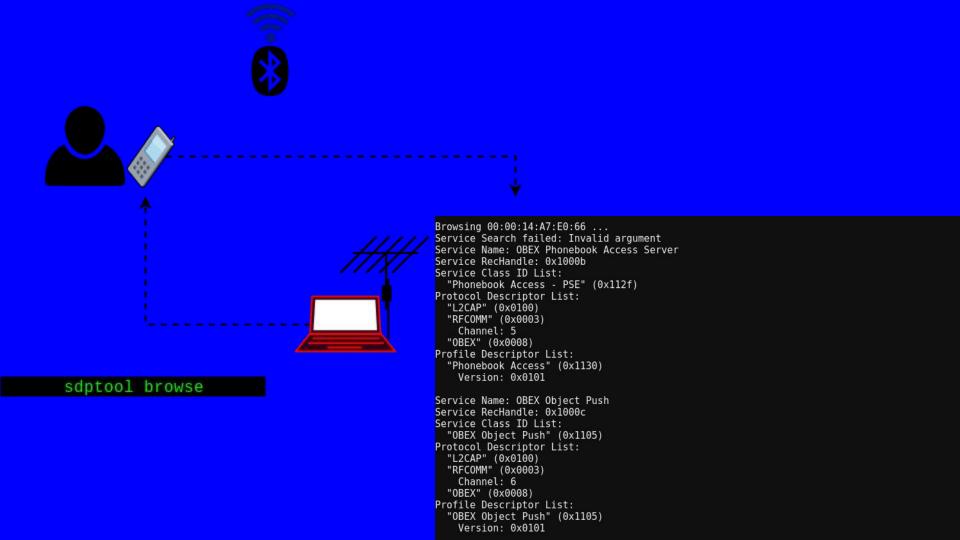






ubertooth scan

```
systime=152584984/ cn=56 LAP=9e66ca err=2 clk100ns=1193/55916 clk1=191000 s=-/9 n=-55 snr=
systime=1525849847 ch=56 LAP=a7e066 err=0 clk100ns=1193823863 clk1=191012 s=-34 n=-55 snr=
systime=1525849847 ch=26 LAP=9e66ca err=0 clk100ns=1195265308 clk1=191242 s=-81 n=-55 snr=
systime=1525849847 ch=26 LAP=9e66ca err=0 clk100ns=1195465370 clk1=191274 s=-79 n=-55 snr=
systime=1525849848 ch=62 LAP=543d02 err=2 clk100ns=1199695661 clk1=191951 s=-85 n=-55 snr=
```





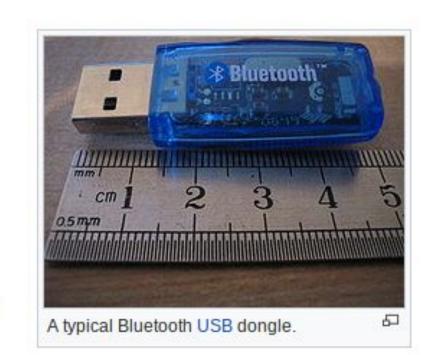


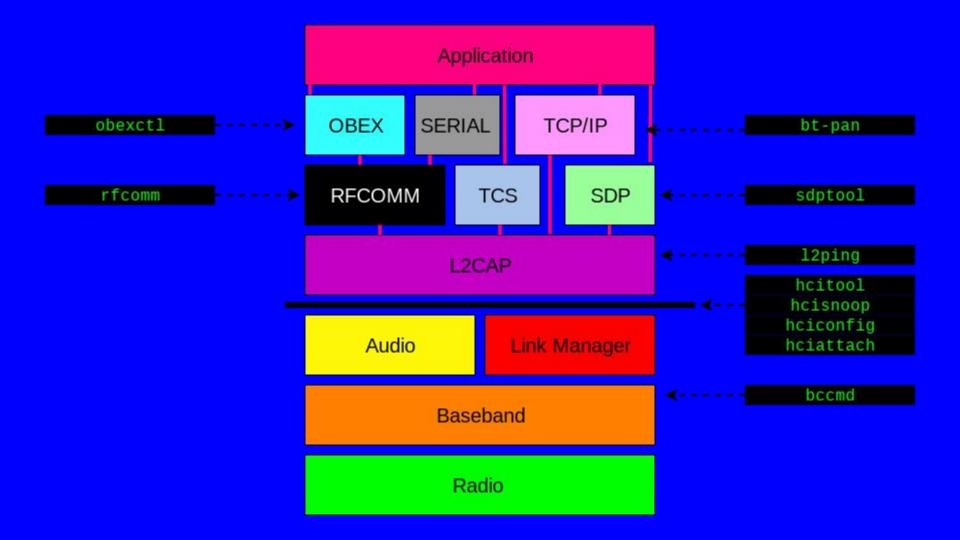


ers require an

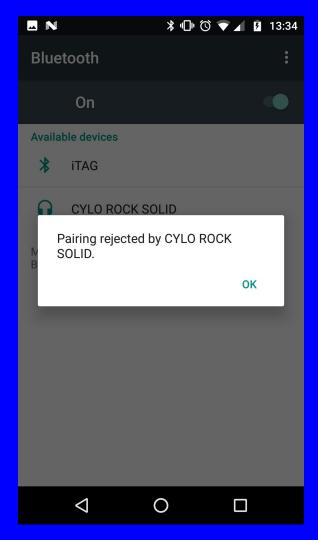
municate with a

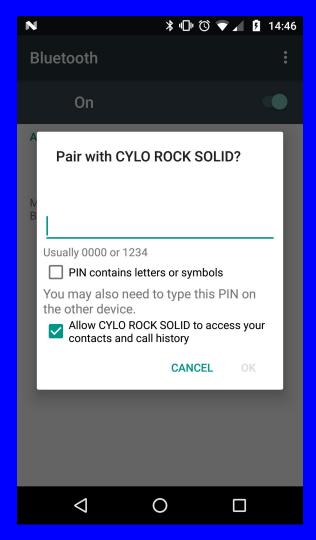
v2.0+EDR.^[41]
y Microsoft.^[42]
nus require at least
k with Bluetooth





RX bytes:552 acl:0 sco:0 events:30 errors:0 TX bytes:635 acl:0 sco:0 commands:30 errors:0





```
b'<?xml version="1.0" encoding="UTF-8" ?>\n\n<record>\n\t<attribute id="0x0000">\n\t\t<uint32 value="0x0001000b" />\n\t\t/attribute>\n\t<a x0001">\n\t\t<sequence>\n\t\t\t<uint32 value="0x0001000b" />\n\t\t\t<sequence>\n\t\t\t<tuint32 value="0x0004">\n\t\t\t<uint32 value="0x0004">\n\t\t\t<uint32 value="0x0004">\n\t\t\t<sequence>\n\t\t\t<tuint32 value="0x0004">\n\t\t\t<sequence>\n\t\t\t\t<uint32 value="0x0004">\n\t\t\t<sequence>\n\t\t\t\t<uint32 value="0x0004">\n\t\t\t<sequence>\n\t\t\t\t<uint32 value="0x0004">\n\t\t\t<sequence>\n\t\t\t\t<uint32 value="0x0004">\n\t\t\t\t<uint32 value="0x0004">\n\t\t\t\t<uint32 value="0x0004">\n\t\t\t\t<uint32 value="0x0004">\n\t\t\t\t\t<uint32 value="0x0004">\n\t\t\t\t\t<uint32 value="0x0004">\n\t\t\t\t\t<uint32 value="0x0004">\n\t\t\t\t\t\t\uint32 value="0x0004">\n\t\t\t\t\t\uint32 value="0x0004">\n\t\t\t\t\t\uint32 value="0x0004">\n\t\t\t\t\t\uint32 value="0x0004">\n\t\t\t\t\t\uint32 value="0x0004">\n\t\t\t\t\t\uint32 value="0x0004">\n\t\t\t\t\uint32 value="0x0004">\n\t\t\t\t\t\uint32 value="0x0004">\n\t\t\t\t\t\uint32 value="0x0004">\n\t\t\t\t\uint32 value="0x0004">\n\t\t\t\uint32 value="0x0004">\n\t\t\t\uint32 value="0x0004">\n\t\t\t\uint32 value="0x0004">\n\t\t\uint32 value="0x0004">\n\t\t\uint32 value="0x0004">\n\t\t\uint32 value="0x0004">\n\t\t\uint32 value="0x0003" /\n\t\t\uint32 value="0x0005" /\n\t\\\uint32 value="0x0005" /\n\t\\\uint32 value="0x0005" /\n\t\\\uint32 value="0x0005" /\n\t\\\uint32 value="0x0005">\n\t\t\uint32 value="0x0005" /\n\t\uint32 value="0x0005">\n\t\uint32 value="0x0005">\n\t\uint32 value="0x0005" /\n\t\uint32 value="0x0005">\n\t\uint32 value="0x0010">\n\t\uint32 value="0x0010">\n\uint32 value="0x0010">\n\uint32 value="0x0010">\n\uint32 value="0x0010">\n\ui
```

2.vcf: 07738 3.vcf: +4411

4.vcf: +4477 5.vcf: +4477 6.vcf: 07738 59

Fetching telecom/ich/1.vcf Fetching telecom/ich/2.vcf Fetching telecom/ich/3.vcf







Bluetooth Firewall

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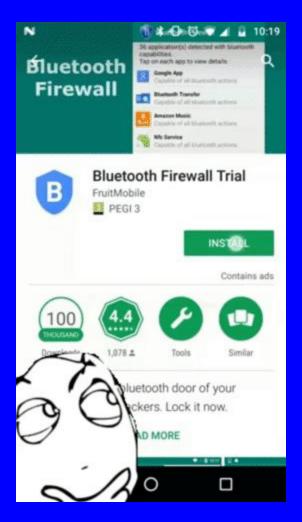
Gena Russ

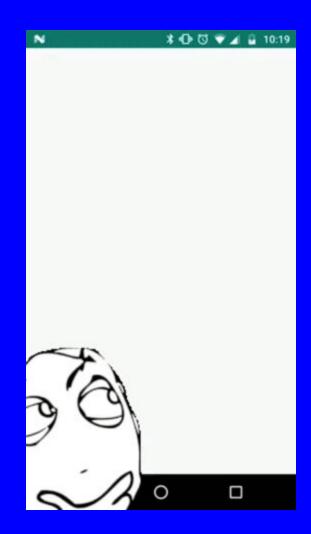




★★★★ 20 May 2017

I downloaded this because I suspected that my downstairs neighbors were messing with my Bluetooth. Nothing suspicious the first 5 days. Day 6, the log showed my neighbors iphone trying to connect to my Bluetooth(dozens of attempts over next 2 weeks). Also showed that he had been paired with phone without my knowledge. This app gave me the proof I needed that they were harassing me. Our landlord is giving them thier 30-day notice. Will be buying when trial ends! Tysm...love this app!!!!!!





NIST Special Publication 800-121 Revision 2

Guide to Bluetooth Security

John Padgette John Bahr Mayank Batra Marcel Holtmann Rhonda Smithbey Lily Chen Karen Scarfone