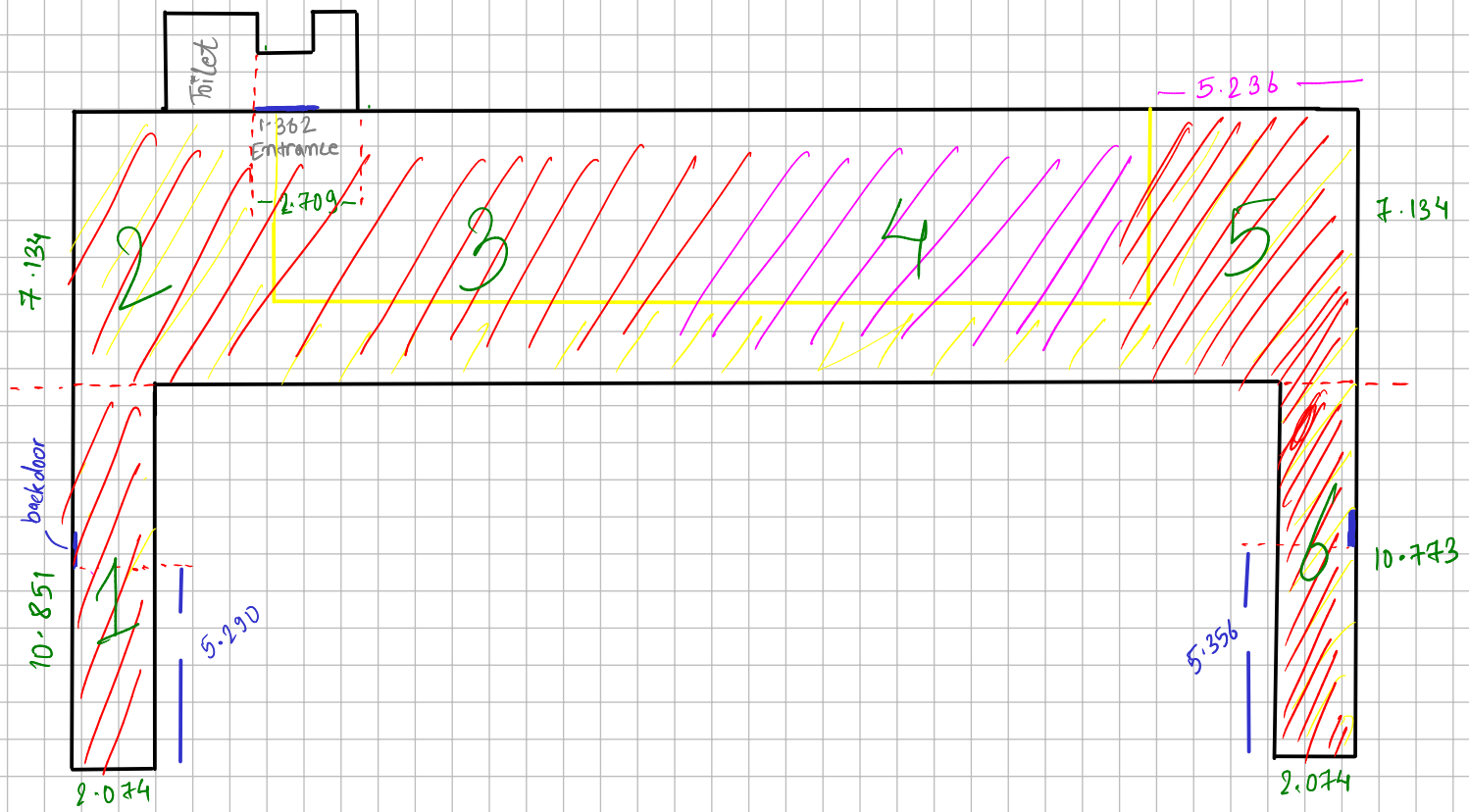
1 box = 1m



- Bad
- Usable
- Good

1

```
┌─Interface─
wlp0s20f3 (IEEE 802.11), phy 0, reg: n/a, SSID: eduroam
├─Levels──
link quality: 100%  (70/70)
==========

signal level: 79 dBm (79432823.47 mW)
==========

├─Statistics──
RX: 291 (35.15 KiB), drop: 17 (5.8%)
TX: 210 (54.16 KiB), retries: 16 (7.6%)
├─Info──
mode: Managed, connected to: FC:EC:DA:04:CB:B3, time: 16 sec, inactive: 0.5s
freq: 5180 MHz, channel: 36 (width: 20 MHz)
rx rate: 104.0 Mbit/s VHT-MCS 5 VHT-NSS 2, tx rate: 78.0 Mbit/s VHT-MCS 4 VHT-NSS 2VHT-NSS 2HT-NSS 2
beacons: 130, avg sig: -77 dBm, interval: 0.1s, DTIM: 3
power mgt: on,  tx-power: 22 dBm (158.49 mW)
retry: short limit 7,  rts/cts: off,  frag: off
├─Network──
wlp0s20f3 (UP RUNNING BROADCAST MULTICAST)
mac: 78:2B:46:48:1C:CD, qlen: 1000
ip: 10.82.228.37/16
```

2

```
┌─Interface─
wlp0s20f3 (IEEE 802.11), phy 0, reg: n/a, SSID: eduroam
├─Levels──
link quality: 100%  (70/70)
==========

signal level: 90 dBm (1000000000.00 mW)
==========

├─Statistics──
RX: 755 (72.95 KiB), drop: 36 (4.8%)
TX: 420 (122.73 KiB), retries: 815 (194.0%), failed: 17
├─Info──
mode: Managed, connected to: FC:EC:DA:04:CB:B4, time: 43 sec, inactive: 1.2s
freq: 2462 MHz, channel: 11 (width: 20 MHz)
rx rate: 1.0 Mbit/s, tx rate: 14.4 Mbit/s MCS 8 short GIte: 78.0 Mbit/s VHT-MCS 4 VHT-NSS 22HT-NSS 2
beacons: 216, avg sig: -87 dBm, interval: 0.1s, DTIM: 3
power mgt: on,  tx-power: 22 dBm (158.49 mW)
retry: short limit 7,  rts/cts: off,  frag: off
├─Network──
wlp0s20f3 (UP RUNNING BROADCAST MULTICAST)
mac: 78:2B:46:48:1C:CD, qlen: 1000
ip: 10.82.228.37/16
```

3

```
Interface
wlp0s20f3 (IEEE 802.11), phy 0, reg: n/a, SSID: eduroam
Levels

link quality: 100%  (70/70)
================================================================================================================


signal level: 61 dBm (1258925.41 mW)
================================================================================================================

Statistics
RX: 462 (60.18 KiB), drop: 45 (9.7%)
TX: 272 (75.67 KiB), retries: 3 (1.1%)
Info
mode: Managed, connected to: FC:EC:DA:04:CB:B3, time: 22 sec, inactive: 0.4s
freq: 5180 MHz, channel: 36 (width: 20 MHz)
rx rate: 173.3 Mbit/s VHT-MCS 8 short GI VHT-NSS 2, tx rate: 26.0 Mbit/s VHT-MCS 3 VHT-NSS 1HT-NSS 2
beacons: 155, avg sig: -63 dBm, interval: 0.1s, DTIM: 3
power mgt: on,  tx-power: 22 dBm (158.49 mW)
retry: short limit 7,  rts/cts: off,  frag: off
Network
wlp0s20f3 (UP RUNNING BROADCAST MULTICAST)
mac: 78:2B:46:48:1C:CD, qlen: 1000
ip: 10.82.228.37/16
```

4

```
Interface
wlp0s20f3 (IEEE 802.11), phy 0, reg: n/a, SSID: eduroam
Levels

link quality: 100%  (70/70)
================================================================================================================


signal level: 78 dBm (63095734.45 mW)
================================================================================================================

Statistics
RX: 374 (40.58 KiB), drop: 19 (5.1%)
TX: 234 (59.15 KiB), retries: 14 (6.0%)
Info
mode: Managed, connected to: FC:EC:DA:04:CA:7F, time: 19 sec, inactive: 0.2s
freq: 5260 MHz, channel: 52 (width: 20 MHz)
rx rate: 130.0 Mbit/s VHT-MCS 7 VHT-NSS 2, tx rate: 117.0 Mbit/s VHT-MCS 6 VHT-NSS 2VHT-NSS 2T-NSS 2
beacons: 160, avg sig: -75 dBm, interval: 0.1s, DTIM: 3
power mgt: on,  tx-power: 22 dBm (158.49 mW)
retry: short limit 7,  rts/cts: off,  frag: off
Network
wlp0s20f3 (UP RUNNING BROADCAST MULTICAST)
mac: 78:2B:46:48:1C:CD, qlen: 1000
ip: 10.82.228.37/16
```

5

```
Interface
wlp0s20f3 (IEEE 802.11), phy 0, reg: n/a, SSID: eduroam
Levels

link quality: 100%  (70/70)
================================================================================


signal level: 57 dBm (501187.23 mW)
================================================================================

Statistics
RX: 539 (80.91 KiB), drop: 44 (8.2%)
TX: 349 (120.35 KiB), retries: 36 (10.3%)
Info
mode: Managed, connected to: 24:A4:3C:37:76:2C, time: 37 sec, inactive: 0.1s
freq: 2412 MHz, channel: 1 (width: 20 MHz)
rx rate: 144.4 Mbit/s MCS 15 short GI, tx rate: 57.8 Mbit/s MCS 11 short GIT-MCS 6 VHT-NSS 22T-NSS 2
beacons: 253, avg sig: -64 dBm, interval: 0.1s, DTIM: 3
power mgt: on,  tx-power: 22 dBm (158.49 mW)
retry: short limit 7,  rts/cts: off,  frag: off
Network
wlp0s20f3 (UP RUNNING BROADCAST MULTICAST)
mac: 78:2B:46:48:1C:CD, qlen: 1000
ip: 10.82.228.37/16
```

6

```
Interface
wlp0s20f3 (IEEE 802.11), phy 0, reg: n/a, SSID: eduroam
Levels

link quality: 100%  (70/70)
================================================================================


signal level: 70 dBm (10000000.00 mW)
================================================================================

Statistics
RX: 1,006 (114.48 KiB), drop: 162 (16.1%)
TX: 520 (169.31 KiB), retries: 102 (19.6%)
Info
mode: Managed, connected to: 24:A4:3C:37:76:2C, time: 1:27m, inactive: 1.5s
freq: 2412 MHz, channel: 1 (width: 20 MHz)
rx rate: 104.0 Mbit/s MCS 13, tx rate: 57.8 Mbit/s MCS 5 short GII short GIT-MCS 6 VHT-NSS 22T-NSS 2
beacons: 546, avg sig: -67 dBm, interval: 0.1s, DTIM: 3
power mgt: on,  tx-power: 22 dBm (158.49 mW)
retry: short limit 7,  rts/cts: off,  frag: off
Network
wlp0s20f3 (UP RUNNING BROADCAST MULTICAST)
mac: 78:2B:46:48:1C:CD, qlen: 1000
ip: 10.82.228.37/16
```