| Parameter | Implemented using |
| --- | --- |
| 1. Distance | exp = (27.55 - (20 \* log10(frequency)) + abs(signalLevel)) / 20.0  distance = pow(10.0, exp); |
| 1. Channel utilization 2. P | dataRate = bandwidth1 \* MCS index of rssi  maxDataRate = bandwidth \* 72  channelUtilization = dataRate / maxDataRate \* 100  Using a hashset data structure |

Distance -> k = (27.55 - (20 X log10(frequency)) + |signalLevel|

20

Distance = 10k

DataRate = bandwidth1 X (MCS index of RSSI)

maxDataRate = bandwidth X 72

ChannelUtilization = dataRate X 100

maxDataRate

NScore = 2 100+RSSI

NScore = (pow((100+RSSI)/10, 2)) + (Freq/1000) + (1 + (14/1 + 0.02 \* distance)) + count + ChannelBandwidth - (0.65 \* channelUtilization)

traffic Score = log2(rxbytes) + log2(rxpackets) + log2(txbytes) + log2(txpackets)

traffic\_score\_scaled = (traffic\_score / max\_traffic\_score) \* 50

INFORMATION THAT IS AVAILABLE ON BEACON :