CHANNEL USAGE DECLARATION

10th December 2012

Wimac Ltd
Tyler Close
Normanton
West Yorkshire
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To Whom It May Concern:

I declare that the Wimac Branchnode WMBN-915USA FCCID YRUWMBN-915, complies with the FCC requirement 15.247(a)(1)(i).

This is achieved by using a table generated using a 24 bit seed fed into a pseudo random number generator.
The devices will work through the table sequentially selecting the next channel for each communications slot.

The seed and generator have been chosen such that the hopping pattern adheres to the following criteria:
1. Any particular channel is not used for longer than 0.4 seconds in any 20 second period.
2. The 64 channels are all used equally.

The branchnode will transmit at a maximum rate of once every 2 seconds. When it is transmitting the branchnode transmitter will be active for 92ms.

There are 64 available channels, with channel 0 being at 905.2MHz. The channels are then equally spaced with 170kHz between adjacent channels, placing the top channel (63) at 915.91MHz and the mid channel (31) at 910.47MHz.

Data is transmitted at a rate of 2400 baud, with GFSK modulation and a deviation of +- 7kHz.

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