

predetermined set of frequency offset values, and adding each of the frequency offset values of the frequency offset sequence to a predetermined frequency to determine respectively the probe frequencies of said sequence of probe frequencies.

**8.** The method of claim 7, wherein said frequency offset values of said predetermined set of frequency offset values are evenly distributed from a lowest of the frequency offset values to a highest of the frequency offset values.

**9.** The method of claim 1, wherein said frequency channel quality information includes correlation information associated with known portions of the probe packets.

**10.** The method of claim 1, including the second wireless packet communication transceiver performing said using step and said selecting step.

**11.** The method of claim 1, including one of the wireless packet communication transceivers transmitting to the other of the wireless packet communication transceivers a plurality of selection packets which each include information indicative of the selected frequency band.

**12.** The method of claim 11, wherein said last-mentioned transmitting step includes the second wireless packet communication transceiver transmitting the selection packets to the first wireless packet communication transceiver.

**13.** The method of claim 11, wherein said last-mentioned transmitting step includes transmitting the plurality of selection packets sequentially on a sequence of respectively corresponding transmit frequencies, wherein said first-mentioned transmitting step includes the first wireless packet communication transceiver transmitting the probe packets sequentially on a corresponding sequence of said probe frequencies, and wherein said sequence of transmit frequencies is a portion of said sequence of probe frequencies.

**14.** A wireless packet communication apparatus, comprising:

an input for receiving information indicative of frequency channel quality associated with a plurality of probe frequencies which are within an available frequency bandwidth and on which a plurality of probe packets have respectively been received from another wireless packet communication apparatus via a wireless communication link;

a band quality determiner coupled to said input for using said frequency channel quality information to produce information indicative of frequency band quality associated with a plurality of frequency bands within the available bandwidth; and

a band selector coupled to said band quality determiner and responsive to said frequency band quality information for selecting one of said frequency bands for use in wireless packet communications with said another wireless packet communication apparatus.

**15.** The apparatus of claim 14, including a controller coupled to said band selector for providing for transmission to said another wireless packet communication apparatus a plurality of selection packets which each include information indicative of the selected frequency band.

**16.** The apparatus of claim 15, wherein said controller is operable for providing a plurality of corresponding transmit frequencies on which the respective select packets are to be transmitted to said another wireless packet communication apparatus.

**17.** The apparatus of claim 15, wherein said controller is operable for providing, for use in receiving said probe packets, information indicative of said probe frequencies.

**18.** A wireless packet communication apparatus, comprising:

a controller for providing a plurality of probe packets and a corresponding plurality of probe frequencies which are within an available frequency bandwidth and on which the probe packets are to be transmitted via a wireless communication link to another wireless packet communication apparatus that is responsive to the probe packets for selecting one of a plurality of frequency bands within the available frequency bandwidth for use in wireless packet communications between said wireless packet communication apparatus and said another wireless packet communication apparatus;

an output coupled to said probe controller for outputting said probe packets to the wireless communication link respectively on said probe frequencies; and

an input for receiving a selection packet which has been received from said another wireless packet communication apparatus via the wireless communication link and which includes information indicative of the selected frequency band.

**19.** The apparatus of claim 18, including a mapper coupled to said input and responsive to said selected frequency band information for determining therefrom the selected frequency band.

**20.** The apparatus of claim 18, wherein said input is for receiving a plurality of said selection packets and said controller is operable for providing information indicative of a plurality of frequencies on which the selection packets are to be respectively received.

**21.** The apparatus of claim 18, wherein said plurality of probe frequencies are distributed across the available frequency bandwidth.

**22.** The apparatus of claim 21, wherein said plurality of probe frequencies are distributed evenly across the available frequency bandwidth.

**23.** The apparatus of claim 21, wherein said distribution of said probe frequencies across the available frequency bandwidth corresponds to a total number of probe packets in said plurality of probe packets.

**24.** A method of performing wireless communication between wireless communication transceivers, comprising:

for a first predetermined period of time, a first wireless communication transceiver transmitting predetermined information to a second wireless communication transceiver via a wireless communication link using a plurality of frequencies within an available frequency bandwidth;

the second wireless communication transceiver obtaining from the transmission of the first wireless communication transceiver information indicative of frequency channel quality associated with the plurality of frequencies;

the second wireless communication transceiver using the frequency channel quality information to select from the available frequency bandwidth a frequency band for