ABSTRACT

COORDINATING COMMUNICATION FOR MULTIPLE WIRELESS COMMUNICATION PROTOCOLS CO-LOCATED IN A SINGLE ELECTRONIC DEVICE

To coordinate the transmission/reception of multiple wireless communication protocols co-located within a mobile device. A single mobile device can contain multiple communication components (e.g., a Bluetooth component, an IEEE 802.11b/g component). To prevent interference and possible loss of data, one communication component may be prevented from transmitting or receiving data packets while the other communication component is either transmitting or receiving. The components may be coordinated by a central controller located in the mobile device. Alternatively, the communication components may exchange messages to determine transmission or reception priority (i.e. collaborative co-existence). In addition, one communication component may monitor the status of the other communication component to determine unused communication slots.

Figure 5