exchanges for wireless local area network (WLAN) sensing in order to reduce sounding overhead.

[0007a] In an aspect, the present disclosure refers to a communication apparatus comprising: a transceiver, which in operation, receives signals in a wireless local area network (WLAN); and circuitry, which in operation, demodulates and decodes the signals, the decoded signals comprising a first physical layer protocol data unit (PPDU) and a second PPDU, wherein the circuitry, in operation, performs full channel measurement based on a first physical layer (PHY) header of the first PPDU and a second PHY header of the second PPDU, wherein the first PHY header and the second PHY header include long training fields (LTFs) for estimating channel quality.

[0007b] In an aspect, the present disclosure refers to a communication apparatus comprising: a transceiver, which in operation, receives signals in a wireless local area network (WLAN); and circuitry, which in operation, demodulates and decodes the signals, the decoded signals comprising an indication of threshold crossing by an associated communication apparatus, wherein the circuitry, in operation, initiates a WLAN sensing procedure to perform full channel measurement based on the indication of threshold crossing by the associated communication apparatus.

[0008] In an example, the techniques disclosed herein feature a communication apparatus including a transceiver and circuitry. The transceiver, in operation, receives signals from a WLAN. The circuitry, in operation, demodulates and decodes the signals, the decoded signals comprising a first physical layer protocol data unit (PPDU) and a second PPDU, wherein the circuitry, in operation, performs full

channel measurement based on a first physical layer (PHY) header of the first PPDU and a second PHY header of the second PPDU, wherein the first PHY header and the second PHY header include long training fields (LTFs) for estimating channel quality.

[0009] It should be noted that general or specific embodiments may be implemented as a system, a method, an integrated circuit, a computer program, a storage medium, or any selective combination thereof.

[0010] Additional benefits and advantages of the disclosed embodiments will become apparent from the specification and drawings. The benefits and/or advantages may be individually obtained by the various embodiments and features of the specification and drawings, which need not all be provided in order to obtain one or more of such benefits and/or advantages.

BRIEF DESCRIPTION OF THE FIGURES

[0011] In the following, exemplary embodiments are described in more detail with reference to the attached figures and drawings.

[0012] **FIG. 1** shows an exemplary wireless local area network (WLAN) system and communication apparatuses operating;