COMMUNICATION APPARATUS AND COMMUNICATION METHOD FOR EXTRA LTF IN SOUNDING

ABSTRACT

[00152] Apparatuses and methods for providing multiple structures and methods to enable enhanced reliability and improved channel estimation in wireless local area network (WLAN) communications in wireless local area network (WLAN) communications by providing apparatuses and methods for extra long training field (LTF) symbol use in channel estimation in sounding are provided. An exemplary communication apparatus operating as an access point in a wireless local area network (WLAN) including a transmitter and circuitry. In operation, the transmitter is configured to transmit signals to at least one peer communication apparatus in the WLAN. In operation, the circuitry generates a first signal to initiate a sounding procedure, wherein the first signal comprises first information to indicate to the at least one peer communication apparatus spatial stream allocation information, and wherein the transceiver transmits the first signal to the at least one peer communication apparatus.

FIG. 11