ABSTRACT

Systems and methods for generating a control signal for automatic WLAN PHY version detection of a transmission. The control signal enables a receiver to detect the WLAN PHY version detection of the transmission, so that the proper wireless network version is used for interpreting signaling information and decoding of the payload of the transmission. In some examples, the control signal is within a preamble of the transmission. The wireless network version can be an IEEE 802.11 version, such as proposed IEEE 802.11be. The control signal is compatible with legacy systems and can indicate the legacy signaling information by way of a Legacy Signal (SIG) (L-SIG) symbol. In some examples, the control signal can indicate the WLAN PHY version by using an identifier symbol which is generated from at least part of, but is not identical to, the L-SIG symbol.

FIG. 6