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(54) **ENCRYPTING MAC HEADER FIELDS FOR WLAN PRIVACY ENHANCEMENT**

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(57) **ABSTRACT**

Embodiments are disclosed for encrypting media access control (MAC) Header fields for Wireless LAN (WLAN) privacy enhancement. For example, a transceiver of a station (STA) or an access point (AP) can set a real time Media Access Control (MAC) header bit in a payload of an aggregated MAC Protocol Data Unit (A-MPDU) subframe to an actual value of a power management (PM) field of a MAC header of the A-MPDU subframe. The transceiver can encrypt the payload, set the PM field to an over the air (OTA) PM value, and transmit the A-MPDU subframe over the air. The OTA PM value can include all zeros, a predetermined value, or a randomized value The transceiver can also set static MAC header bits in the payload of the A-MPDU subframe to corresponding actual values of an aggregated MAC service data unit (A-MSDU) present field of the A-MPDU subframe.