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It operates in the 2.4GHz and 5GHz bands, [8] with an extended version, Wi-Fi 6E, that adds the 6GHz band. Part of the IEEE 802.11ax standard is the Wireless LAN Medium Access Control (MAC) and Physical Layer (PHY) Specifications for Wi-Fi 6, or IEEE 802.11ax, is an IEEE standard from the Wi-Fi Alliance, for wireless networks (WLANs). Built on the momentum of 802.11ac, the 802.11ax standard adds flexibility and scalability to next-generation applications for increased mobility. IEEE 802.11ax will enhance existing 802.11a/g/11n/11ac deployments even if they are not fully upgraded to 802.11ax immediately. IEEE Std 802.11ax-2021 (Amendment to IEEE Std 802.11-2016) IEEE Standard for Information Technology— Telecommunications and Information Exchange between Systems Local and Metropolitan Area Networks— Specific Requirements. Its new preamble (HE-SIG-A/B) follows the traditional a/g/n/ac preamble and . Recently, IEEE 802.11ax, introducing the fundamental improvement of WLANs, was approved as the next generation WLAN technology. . Modifications to both the IEEE physical layer (PHY) and medium access control (MAC) sublayer for high-efficiency operation in frequency bands between 2.4GHz and 5GHz (The PDF of this standard is available at no cost to you via the IEEE GET program at?id=68) Scope: The IEEE 802.11ax was designed for maximum compatibility, coexisting efficiently with 802.11a/n/ac devices. [9] It is an upgrade from Wi-Fi(ac), with improvements for better performance in crowded places. Download the 802.11ax FAQ. 802.11ax is the sixth generation of the Wi-Fi standard. Satisfying tremendous user demands . IEEE 802.11ax standard is an evolution of 802.11ac. Unlike previous standards that focused mainly on increasing raw data rates, 802.11ax focuses on better efficiency. Modifications to both the IEEE physical layer (PHY) and medium access control (MAC) sublayer for high-efficiency operation in frequency bands between 2.4GHz and 5GHz are defined in this amendment to IEEE Std (The PDF of this standard is available at no cost to you via the IEEE GET program at Most importantly, 802.11ax 6GHz support significantly increases the range of Wi-Fi, adding standards-based sounding and beam forming, and enabling new use cases and business models for indoor and outdoor coverage.

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