

What is the difference between IEEE and WFA

### **IEEE (Institute of Electrical and Electronics Engineers)**

- IEEE is a **global organization** that develops **technical standards** across various fields, including networking, electronics, and telecommunications.
- It is responsible for defining **Wi-Fi standards** under the **IEEE 802.11 family** (e.g., 802.11a, 802.11b, 802.11n, 802.11ax).
- Focuses on creating **protocols, architectures, and specifications** for wireless communication.

### **WFA (Wi-Fi Alliance)**

- WFA is an **industry consortium** that ensures **Wi-Fi products comply** with IEEE standards and can work together.
- It **certifies Wi-Fi devices** for interoperability, security, and performance.
- Introduces consumer-friendly branding, such as **Wi-Fi 4 (802.11n)**, **Wi-Fi 5 (802.11ac)**, **Wi-Fi 6 (802.11ax)** to simplify standard names.