**8. What is the difference between IEEE and WFA**

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| **Feature** | **IEEE** | **WFA** |
| **Full Form** | Institute of Electrical and Electronics Engineers | Wi-Fi Alliance |
| **Purpose** | Develops networking standards, including Wi-Fi (802.11) | Certifies Wi-Fi products for interoperability and quality |
| **Function** | Creates and defines technical specifications for Wi-Fi | Ensures compliance with IEEE standards and promotes Wi-Fi branding |
| **Role in Wi-Fi** | Defines the 802.11 standards (e.g., 802.11a/b/g/n/ac/ax) | Tests and certifies devices for Wi-Fi interoperability |
| **Membership** | Open to individuals and organizations | |  | | --- | |  |  |  | | --- | | Industry consortium of Wi-Fi product manufacturers | |
| **Example** | Developed the 802.11ax (Wi-Fi 6) standard | Certifies products as Wi-Fi 6 Certified |