

“WiFi Voice” typically refers to the use of Voice over Internet Protocol (VoIP) technology over a Wi-Fi network to make voice calls. It enables users to make phone calls using their Wi-Fi-enabled devices, such as smartphones, tablets, or laptops, instead of traditional telephone lines.

Here are some key aspects of WiFi Voice:

- **VoIP Protocols:** WiFi Voice relies on VoIP protocols to transmit voice data over the Internet Protocol (IP) network. Common VoIP protocols include Session Initiation Protocol (SIP) and Real-time Transport Protocol (RTP), which facilitate call setup, signaling, and media transmission.
- **WiFi Infrastructure:** WiFi Voice requires a WiFi network infrastructure to provide connectivity between devices. This includes WiFi access points (APs) to provide wireless coverage and network connectivity, as well as routers and switches to manage data traffic within the network.
- **Quality of Service (QoS):** QoS mechanisms are essential for ensuring high-quality voice calls over WiFi networks. QoS prioritizes voice traffic over other types of data traffic to minimize latency, jitter, and packet loss, which can degrade call quality.
- **Handover and Roaming:** WiFi Voice implementations may support seamless handover and roaming between different WiFi access points within the same network. This allows users to maintain their voice calls while moving between different coverage areas without interruption.
- **Security:** Security measures are crucial to protect WiFi Voice communications from eavesdropping, interception, and unauthorized access. This includes encryption protocols such as Secure Real-time Transport Protocol (SRTP) to encrypt voice data and secure authentication mechanisms to verify user identities.
- **Integration with Telephony Systems:** WiFi Voice can be integrated with traditional telephony systems, such as Private Branch Exchange (PBX) systems or hosted VoIP services, to enable seamless communication between WiFi-enabled devices and traditional landline phones or mobile networks.
- **Applications and Devices:** WiFi Voice is supported by a wide range of applications and devices, including VoIP softphones, mobile apps, IP desk phones, and WiFi-

enabled cordless phones. These devices allow users to make voice calls over WiFi networks using various interfaces, such as touchscreens, keypads, or voice commands.

Overall, WiFi Voice provides a flexible and cost-effective solution for voice communication, enabling users to make calls from anywhere with WiFi coverage using their preferred devices. It is widely used in both consumer and business environments, offering features such as mobility, scalability, and integration with existing telephony systems