



# WLAN EXPLAINED: A SIMPLE OVERVIEW

## *What is A WLAN?*

Wireless Local Area Network: A network that connects devices wirelessly within a limited area

Wi-Fi, a type of WLAN based on IEEE 802.11, enables wireless internet access, allowing devices to connect to the internet or a network without the need for physical cables.

# WLAN EXPLAINED



## Current WiFi Standards



Wi-Fi 4 - Max Speed: 600 Mbps  
Frequency: 2.4 GHz and 5 GHz  
Introduced: 2009

Wi-Fi 5 - Max Speed: 3.5 Gbps  
Frequency: 5 GHz  
Introduced: 2014

Wi-Fi 6 - Max Speed: 9.6 Gbps  
Frequency: 2.4 GHz and 5 GHz  
Introduced: 2019



## Wireless Access Point(WAP)

A WAP extends the WiFi coverage area, allowing more devices to connect to the network.

Wi-Fi 6E - Extension of WiFi 6  
Adds 6 GHz frequency for less interference and faster speeds.



## Seamless WiFi



Wireless network that is setup up to provide uninterrupted connectivity as users move between different access points



## Strategies for Securing WAPs



- Change Default Login Credentials
- Use Strong Encryption (WPA3)
- Disable WPS (Wi-Fi Protected Setup)
- Enable MAC Address Filtering

## Do's & Don'ts of Wi-Fi Access



Use strong passwords and encryptions

DO

Use an open or unsecured networks

DONT

Keep Software Updated

DO

Share sensitive information on public WiFi

DONT

