RSSI (Received Signal Strength Indicator)- Article no. 4979

Introduction

RSSI (Received Signal Strength Indicator) is a measure of the power level that a client device is receiving from an access point.

Resolution Steps

Since each customer's **home** and **wireless situation** is **different, RSSI** can be affected by many different things.

- **Access Point :** transmitted power
    - The **sensitivity and quality of the hardware** can hamper or aid **signal reception**
        - **Physical items** can get in the way of **signal reception**
- **Physical environment:** distance between the transmitter and the receiver
    - Distance can influence RSSI
        - Too many WiFi devices can affect the range and quality of signal
        - Other devices generating radio signals can affect Wi-Fi signal

- **RSSI** is expressed in **Merlin** in **decibals per meter** or **db** with the **db** notation omitted

- **A few RSSI signal quality examples (Higher quantity in negative is worse):**

    - High quality: -55db
    - Medium quality: -75db
    - Low quality: -85db
    - Unusable quality: -96db

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