

## Mile High Wifi Technical Whitepaper: Securing Guest Wireless Access in Small Businesses

### **Executive Summary**

Small businesses offering free WiFi to customers—such as cafés, bars, salons, and retail shops—often rely on consumer-grade routers provided by their internet service provider (ISP). These routers typically offer a built-in guest network feature, but what many don't realize is this setup introduces a significant security vulnerability.

Mile High Wifi solves this problem with a simple, affordable solution: a **dedicated guest wireless access point** that uses **enterprise-grade best practices** like VLAN segmentation and a built-in legal disclaimer page to protect business-critical systems.

### The Problem: Guest Networks Aren't As Safe As You Think

Most ISP routers (e.g., Xfinity, Comcast, CenturyLink) offer basic support for a separate guest network. While this **appears** to keep customer traffic isolated, the reality is:

- Guest and business traffic often share the same physical device and firmware.
- Insecure or outdated router firmware can leave both networks vulnerable.
- Misconfigurations and firmware bugs may expose internal business assets like POS systems, file shares, and admin interfaces.
- Attackers on the guest network may exploit this to conduct Man-in-the-Middle attacks, ARP spoofing, or credential theft.

Even when guest networks are logically isolated, the lack of **physical separation** means your business is still at risk.

### The Mile High Wifi Solution

We install a standalone **WiFi 6 wireless access point** that connects to your network on a **dedicated**, **isolated VLAN**. This means guest traffic is completely segmented from your internal systems—offering enterprise-grade security for a fraction of the cost.

## **Key Features:**

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Guests are completely walled off from your internal network. Even if the guest AP is compromised, there's no path to your sensitive systems.

# • Built-In User Agreement Page

Before accessing the internet, users must accept a standardized legal agreement that protects your business from liability.

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Fast, reliable internet even in crowded environments with dozens of users. Ideal for customerfacing spaces.

## • K Turn Off Your Built-In Guest Network

Once the separate AP is installed, your existing router's guest feature can be disabled, reducing risk and simplifying your network environment.

#### **Risk-Free Trial**

We're so confident in our solution that we offer a **90-day trial**—completely free. If you're not satisfied, just return the device. No charges, no commitments.

#### **Use Cases**

#### Who benefits from this?

- · Coffee Shops and Cafés
- Nail & Hair Salons
- Bars & Breweries
- Retail Spaces
- Gyms & Fitness Studios
- Co-working Spaces

Any business offering free WiFi to guests can benefit from improved network security and peace of mind.

### **Contact Us**

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