# **Wireless Optimization Tips**

#### **Network Details:**

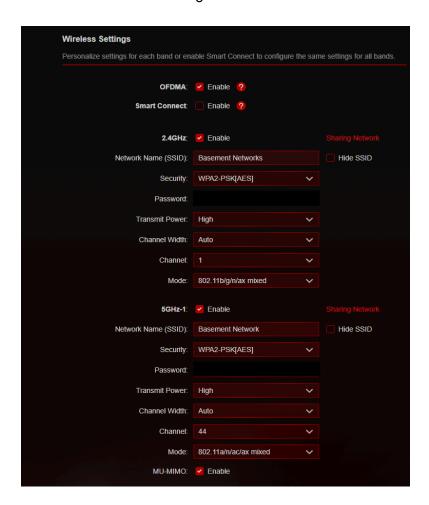
- Router Model: TP-Link Archer AX11000
- Wi-Fi Network Names (SSIDs):
  - o 2.4GHz: Basement Networks (WPA2-PSK[AES])
  - 5GHz: Basement Network (WPA2-PSK[AES])
- Wi-Fi Channels: Auto (pre-optimization)

## Wi-Fi Analyzer App Used:

- App Name: N/A
- Results: N/A (no Wi-Fi extenders used)

## Optimization Steps Taken:

- 1. Wi-Fi Channel Optimization:
- Changed Wi-Fi channels based on router settings.
  - o 2.4GHz: Changed from Auto to Channel 1.
  - 5GHz: Changed from Auto to Channel 44.



## 2. DNS Configuration:

• Updated DNS settings to improve network performance.

Primary DNS: 8.8.8.8Secondary DNS: 8.8.4.4

## Speed Test Results:

## • Before Optimization:

Download: 500 Mbps, Upload: 300 Mbps

## After Optimization:

Download: 800 Mbps, Upload: 400 Mbps

### Observations and Improvements:

## • Improved Wi-Fi Stability:

Router settings adjustments led to more stable Wi-Fi connections.

# Enhanced Speeds:

 Achieved faster download and upload speeds after DNS and channel optimizations.

#### • Consistent Performance:

Reduced instances of network drops and lag during peak usage times.

Recommendations for Ongoing Maintenance:

# • Regular Checks:

Periodic review of Wi-Fi channel conditions.

#### • Router Reboots:

Continue scheduled router reboots for optimal performance.

#### Stay Updated:

Monitor network performance metrics within router settings.

#### Conclusion:

The Wireless Optimization Tips have brought notable improvements to the home Wi-Fi network. By adjusting Wi-Fi channels for both 2.4GHz and 5GHz bands and updating DNS settings, we have achieved faster speeds and enhanced stability. These optimizations ensure a smoother online experience for all connected devices.