

WiFi Router Setup Recommendations <<http://routerguide.net/>>

- 1) 2.4 Ghz vs 5 Ghz: 2.4GHz for range, 5GHz for speed
- 2) 802.11 N Support: ON if all devices support N **N only**
- 3) 20 Mhz or 40 Mhz: 20Mhz on 2.4GHz channels, 40MHz on 5GHz channels
- 4) Lower 5GHz channels have better range in the US
- 5) AP isolation: OFF **off**
- 6) IGMP Snooping: ON if streaming video especially if using an Apple device. **IGMP snooping on, proxy off**
- 7) Multicast Rate: AUTO
- 8) DTIM Interval: DEFAULT (1 – 3 times Beacon Interval) **3**
- 9) Beacon Interval: DEFAULT (100ms) **100**
- 10) Tx Burst (Frame Burst / Pack Burst): OFF if all devices 802.11N or higher **TX burst disabled**
- 11) WMM Support: ON especially if Apple devices need WiFi **on**
- 12) WMM APSD: ON unless mobile devices drop off **enable**
- 13) Optimize AMPDU Aggregation: ON **on**
- 14) Optimize Ack Suppression: OFF **disabled**
- 15) Airtime Fairness: ON if all devices function well **off**
- 16) Beamforming: ON if in a big house **Explicit 5GHz only, Implicit/Universal OFF**
- 17) IP Flood Detection: (=Enable DoS protection) OFF on local networks, ON for public networks
- 18) Preamble Type: SHORT if all devices support. If any drop off, revert to AUTO. **Short**
- 19) Jumbo Frame: only has benefit with network storage
- 20) NAT Acceleration: Typically does not affect connection speeds below 100Mbps. Use CTF1

Transcribed 13 Aug 2018, DJL

See also <<http://www.snbforums.com/threads/guide-troubleshooting-wifi-issues.12825/>>

rmrmerlin adds: Explicit Beamforming can help a little with clients at medium range and should be enabled. I recommend keeping Implicit Beamforming (which was previously called Universal Beamforming) disabled, for compatibility reasons.

MU-MIMO is an experimental feature at this point that is best kept disabled

Generally speaking, what I recommend is:

- Disable MU-MIMO
- Disable Nitro/Turbo-QAM
- 5 GHz: disable universal (implicit) beamforming
- 2.4 GHz: disable both beamforming
- Set a static channel on both bands

In newer routers, if you experience wireless stability issues then it's recommended that you disable the following options:

MU-MIMO (some hardware revisions have non-functional/unreliable implementations)

Airtime Fairness (causes connectivity issues for various devices, including wireless printers)

Universal Beamforming (non-standard, might cause compatibility issues with some clients)

Everything else should be left to default, unless you want to experiment with them and see how your specific environment handles these.

sfx2000 adds: IGMP Proxy however - this is not at the switch level, and this can cause problems for many clients - so consider disabling that one...

john9527 adds: I'm personally also wary about the WMM APSD setting. "WMM Support" is always on.

l&ld great tips: *Me&M Config* <https://www.snbforums.com/threads/noob-definition-of-minimal-and-manual-configuration.27115/#post-205573>

Sanitize Network <https://www.snbforums.com/threads/rt-ac66u-slow-wan-to-lan.12973/page-3#post-269410>

Save NVRAM Settings <https://www.snbforums.com/threads/asus-dsl-88u-transfer-settings-question.42274/#post-359390>

Control Channel Set up <https://www.snbforums.com/threads/ac66u-b1-x2-or-ac86u-x1-details-in-the-description.55582/#post-472051>