



July 2021

## Sennheiser MobileConnect - WiFi Checklist

The MobileConnect system requires a Wifi network for transmission. Usage of an existing network infrastructure as well as the setup of a dedicated infrastructure is possible.

The quality of the WiFi is directly influencing the service's quality and performance.

Here is a short checklist on the most important WiFi measures that should be performed to achieve the best possible audio transmission:

- ✓ Each AP (Access Point) services less than 50 clients.
- ✓ The APs transmission power is set to about 8dBm (0.00631W).
- ✓ The APs use non-overlapping 40MHz channels, and a WLC (Wireless Local Area Network Controller) manages channel assignments.
- ✓ Usage of 5 GHz band is recommended.
  - The 2.4 GHz band, unlike the 5 GHz band, is not divided in atomic non-overlapping channels. Channel overlaps lead to inter-channel interference and to overall service quality degradation.
  - There are many other users of the 2.4 GHz band (Bluetooth, wireless microphones/speakers, ZigBee etc.).
- ✓ 12 Mbps is the lowest mandatory data rate, data rates between 6 Mbps and 12 Mbps are supported.
- ✓ Quality of service is recommended.
  - ✓ Wireless devices (APs, WLCs etc.) of the network are certified WME/WMM, and map DSCP 46 (EF) to UP 6 (AC voice).
  - ✓ Wireless devices trust the requested DSCP markings from clients.
  - ✓ Default behavior for non-WMM compliant clients which are not tagging UP, is to use best-effort priority.
  - ✓ A-MPDU is off for voice priority traffic and is on for bulk/standard traffic.
  - ✓ ACM (Admission Control Mandatory) is turned off.