

WiFi and Bluetooth Interference

Some users have asked if there is any possible interference between Wifi and Bluetooth Mesh communications in the building. Avi-on systems have not experienced any interference either way.

Interference with other wireless systems does not happen with the Avi-on network because:

- Bluetooth and Wifi global radio standards have been designed to co-exist, even in dense network environments. This was done by making sure the specific radio channels do not overlap, and by radio protocol timing, which assures there are gaps in transmission timing to allow Bluetooth signals to get through even in dense wifi environments.
- The Avi-on protocol runs on a different set of channels (advertising bands) than regular Bluetooth transmissions (Bluetooth Classic), so there is no interference with other Bluetooth devices.
- Despite engineering compatibility, it is still possible for networks to interfere with each other environments through pure radio flooding, but only when in high density environments transmitting large data packets. Avi-on has solved this concern by keeping its individual transmission packets very small, and so there is always room for signals to get through.

The Avi-on network has been proven in real world conditions with known interference conditions including:

- Avi-on has been brought in to replace lighting controls projects that did experience interference from high density Wifi. In each case the Avi-on system resolved the problem and has worked reliably.
- Avi-on has been demonstrated for 5 years on the main show floor of CES, among tens of thousands of wifi and hundreds of thousands of Bluetooth devices with no impact on performance.
- Avi-on has over 200 commercial project installations, including hospitals, clinics, and pharmaceutical manufacturing/research facilities and has never experienced interference in any facility or has it impacted any facility.



ALL PRODUCT, SPECIFICATIONS AND DATA ARE SUBJECT TO CHANGE WITHOUT NOTICE TO IMPROVE RELIABILITY, FUNCTION OR DESIGN OR OTHERWISE.

To contact Avi-on sales at
(877) AVION-US, (877) 284-6687

or

prosales@avi-on.com

for information on becoming an Avi-on
partner and placing an order.