

A 6GHz FS & FSS-Incumbent Protection Approach

June 13, 2018

Device Class	AFC for Master Devices	Elevation Angle Limit	Professional Install	Transmit ID Periodically (Access Point Only)
Outdoor	Yes	Reduced EIRP above 30° elevation in applicable bands	Required for fixed APs w/ connectorized antennas	Yes
Fixed P2P outdoor	Yes	Comply with 2° GSO arc avoidance requirement	Yes	Yes
Standard indoor*	Yes	No	No	Yes
Low power indoor*	No	No	No	No

* Power class mitigations in U-NII-6 for indoor use are subject to further study.

An Automated Form of Frequency Coordination

- **AFC is one reliable *ex ante* approach to ensuring an RLAN device does not transmit in channel that would create harmful interference to a FS incumbent. To qualify:**
 - Master device must know its operating location
 - Master device must obtain or determine allowable channels at operational location before operation
 - Channel permissions determined based on FS protection criteria using FCC's ULS or derivative
 - Client devices (UEs) must operate under the control of a master device
- **Remediation: NPRM should seek comment on *ex post* means for interference resolution to reliably address the unlikely occurrence of harmful interference despite AFC**
- **FCC rules should be technology neutral on geolocation and remediation techniques**
- **FCC should recognize that as technology advances, other interference-protection mechanisms may emerge**