

# 6 GHz Committee



The 6 GHz Committee (6GHzC) is a committee of The Wireless Innovation Forum that serves as an industry body to study and specify sharing arrangements in spectrum designated for unlicensed operation within all or part of the 6 GHz band (5925-7125 MHz). The Committee provides technical input to inform the FCC's 6 GHz rulemaking and facilitates the interpretation and implementation of the rulemaking that allows industry and regulators to collaborate on implementation of a common, efficient and well-functioning 6 GHz ecosystem.

The activities conducted by the Committee include defining:

- Interference Protection Criteria
- Propagation Modeling
- Spectrum Occupancy Determination
- Developing a Security Threat Assessment
- Identifying AFC Requirements for Incumbent Protection

The approach to the committee's work emphasizes the technical aspects of sharing while simplifying interfaces and requirements. This is done to advance innovative and competitive sharing approaches and to increase deployment speed of AFC systems.

The Committee is ultimately a standards and technical implementation forum for industry stakeholders and developers of the spectrum-sharing technologies.

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As a member you can:

- Initiate and lead market focused work groups, task groups or special interest groups.
- Leverage the Forum's proven development process and IPR policy and its reputation as a "honest broker" in presenting technology,
- Collaborate with other member representatives from leading organizations across multiple market segments and at all levels of the wireless value chain.
- Leverage the Forum's flexible membership model and its partnerships, US and European conferences, webinars and web presence

## Who should participate?

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The Committee does not address policy-making or liability management but may occasionally make formal technical recommendations to the FCC or other regulatory bodies following the Forum's standard policies and procedures.

The participants of this Committee should include, but not be limited to, the following:

- Developers and operators of wireless equipment and devices
- Developers and operators of spectrum sharing systems
- Operators and service providers interested in deploying in the spectrum
- Suppliers of systems and components operating in this spectrum
- General users of spectrum outside of main providers
- Policy makers, academics, and researchers
- Liaisons from other standards groups with which joint work is desired or necessary

## Projects

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### Functional Specifications Work Group

The WInnForum 6 GHz Functional Specifications Working Group creates the standards, requirements and best practices for the operation and testing of AFC Systems based on the FCC rules and the interaction with unlicensed standard power devices.

### AFC Test and Certification

The scope of the group is to develop a test framework and test procedures that will allow an AFC system to, "... satisfactorily demonstrate that standard power access points can operate under the control of [an AFC] system without causing harmful interference to fixed wireless services" (6 GHz R&O, para 50). The WG will develop the test framework first with traceability to the AFC functional spec with the test procedures to follow. The WG will also propose an AFC field trial framework drawing on experiences with TVWS and CBRS to develop these frameworks and may explore testing options such as self test, the use of TCBs or other third testing options. We will seek to collaborate with other SDOs or organizations that may be working on developing AFC test & certification frameworks and will work with the FCC to develop an AFC certification framework that uses the test results to demonstrate that an AFC can successfully manage SP access points without causing harmful interference to fixed wireless services.

### Protocols

The goal of the Protocols WG is the development of protocol extensions for AFC systems to standard power access point/fixed client device interface.



Max Solondz and Dawn Szelc at a recent meeting at CommScope in Richardson, Texas.

## Standards Library

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Visit

<https://6ghz.wirelessinnovation.org/work-group-products-for-6-ghz-committee-specifications-reports-and-recommendations>.

## Annual Dues Structure

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Please note that there is one vote per organization in balloting, regardless of membership level and number of member representatives.

- \$9500 - Large commercial companies with revenues greater than \$500 million
- \$5500 - Medium commercial companies with revenues greater than \$50 million, but less than \$500 million
- \$2600 - Small commercial companies with revenues less than \$50 million
- \$2550 - Government and non-profit organizations
- \$1500 - Academic Institutions

**To contribute to any of the projects listed, or if you have an advanced wireless problem that you need solved, join us! Contact Lee Pucker at [Lee.Pucker@WirelessInnovation.org](mailto:Lee.Pucker@WirelessInnovation.org)**

<https://6GHz.wirelessinnovation.org>