**IEEE P802.19**

**Wireless Coexistence**

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# **NOT FOR IMMEDIATE RELEASE xx xx, 2018 – Draft**

**IEEE Publishes Standard Wireless Network Coexistence Methods**

IEEE 802.19.1™-2018 specifies radio technology independent methods for network-based coexistence among dissimilar or independently operated networks of unlicensed devices and dissimilar unlicensed devices. The standard is defined for geo-location capable devices operating under general authorization such as TV band White Spaces, the 5 GHz license-exempt bands and the general authorized access the 3.5 GHz bands.

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**PISCATAWAY, NEW JERSEY, USA, xx xx 2018** – IEEE, the world's largest technical professional organization dedicated to advancing technology for humanity, and the [IEEE Standards Association (IEEE-SA)](http://standards.ieee.org/), today announced the availability of the IEEE 802.19.1™-2018 standard, Wireless Network Coexistence Methods.

“The IEEE 802.19.1™-2018 standard enables the family of IEEE 802® wireless standards (ex. IEEE 802.11) to effectively utilize the devices operating under license-exempt or lightly license,” said Steve Shellhammer, chair of the IEEE 802.19™ Wireless Coexistence Working Group. “This is accomplished by providing standardized coexistence methods among dissimilar or independently operated wireless networks under general authorization such as TV band White Spaces, the 5GHz license-exempt bands and lightly license in 3.5GHz Citizens Broadband Radio Service bands. The IEEE 802.19.1™-2018 standard amendment is intended to help achieve fair and efficient spectrum sharing.”

IEEE 802.19.1™-2018 specifies radio technology independent methods for network-based coexistence among dissimilar or independently operated networks of unlicensed devices and dissimilar unlicensed devices. The standard is defined for geo-location capable devices operating under general authorization such as TV band White Spaces, the 5 GHz license-exempt bands and the general authorized access the 3.5 GHz bands. The standard includes the following:

* Methods of leveraging the cognitive radio capabilities of the license-exempt devices, including geo-location awareness and access to information databases;
* A coexistence discovery and information server, which gathers and provides coexistence information regarding wireless networks;
* A coexistence manager, which utilizes the information from the coexistence server in order to enhance the coexistence of the wireless networks;
* A coordination enabler, which communicates with the coexistence manager within the same coexistence system and with the coordination enabler within the other coexistence system; and
* A common coexistence architecture and protocols, as well as several profiles to enable cost-efficient and flexible deployment of the coexistence system in various scenarios.

For more information on the IEEE 802.19 Wireless Coexistence Working Group, please visit <http://www.ieee802.org/19/>.

IEEE 802.19.1-2018 is available for purchase at the IEEE Standards Store.

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