**IEEE P802.19**

**Wireless Coexistence**

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| Project | IEEE P802.19 Wireless Coexistence WG |
| Title | **Press Release for IEEE 802.19.1 Revision** |
| Date Submitted | July 12, 2018 |
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| Re: | [] |
| Abstract | [Draft of Press Release for IEEE 802.19.1 Revison] |
| Purpose | [] |
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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 (e.g. 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 5 GHz license-exempt bands and lightly license in 3.5 GHz 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 lightly license in 3.5 GHz Citizens Broadband Radio Service 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 discovery and information 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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