IEEE P802.11
Wireless LANs

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| 802.11aj Press Release |
| Date: 2018-04-19 |
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Abstract

This document contains the draft press release for 802.11aj-2017.

# Process

This press release was authored by the IEEE marketing department (represented by Jeff Pane) after interviewing an 802.11 subject-matter expert (Jiamin Chen). It has been notified to the EC for comment, with editorial comments received and incorporated.

The press release is being notified to the WG, submitted for EC approval motion with early close, and is targeted for release after publication of the 11aj amendment.

# Press Release:

# **DRAFT: NOT FOR IMMEDIATE RELEASE**

# **Sponsor: IEEE Computer Society**

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**IEEE Approves Standard for Increased High-Bandwidth Wireless LAN Capacity in China**

*IEEE Std 802.11aj TM enables high throughput operations in the 60 GHz and 45 GHz frequency bands in accordance with Chinese regulations.*

**PISCATAWAY, NJ, XX May 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 approval of [IEEE Std 802.11aj](http://standards.ieee.org/findstds/standard/802.11aj-2018.html), an amendment to IEEE Std 802.11TM that specifies the Physical (PHY) layer and the Medium Access Control (MAC) layer in the 60 GHz and 45 GHz bands to meet growing high-speed wireless LAN capacity demands in China. The standard amendment provides specification for four 1.08 GHz channels for low-power devices and large coverage data rates in the 60 GHz band and provides access to 5 GHz of new bandwidth in the 45 GHz band with up to a 15 Gb/s data rate. This expands the capabilities of IEEE Std 802.11, which forms the basis of Wi-Fi® networking devices.

"IEEE Std 802.11aj enables features in wireless products that leverage spectrum uniquely available in China,” said Dorothy Stanley, Chair of the IEEE 802.11 Working Group. “What’s more, it demonstrates the global scope of the IEEE-SA in coordinating standards development projects in response to local standards requirements and opportunities worldwide."

In China’s densely populated cities, and with the ubiquitous use of mobile devices, IEEE Std 802.11aj provides a robust solution to mitigate device interference, lowering instantaneous power requirements and increasing coverage, especially for small form-factor, battery-powered devices with small antennas.

Additionally, the standard amendment includes enhanced MAC mechanisms for better network performance and backward compatibility with IEEE Std 802.11ad™, now incorporated in IEEE Std 802.11-2016. IEEE Std 802.11aj also integrates multiple-input multiple-output (MIMO) technology for higher network capacity, enabling operation in up to 5 GHz of license-exempt bandwidth allocated in China’s 45 GHz band.

“The introduction of IEEE Std 802.11aj culminates a 5-year collaborative effort to develop enhancements accommodating the Chinese regulatory requirements in the 60 GHz and 45 GHz bands,” said Jiamen Chen, the Task Group Chair and Editor of IEEE Std 802.11aj. “This amendment, including the incorporating of MIMO technology for higher network capacity, will provide wireless operators greatly enhanced network performance and an end-user experience that maintains the reliable, high-quality wireless connectivity associated with IEEE 802.11 network operations.”

IEEE Std 802.11aj is available for purchase at the IEEE Standards Store.

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The IEEE Standards Association, a globally recognized standards-setting body within IEEE, develops consensus standards through an open process that engages industry and brings together a broad stakeholder community. IEEE standards set specifications and best practices based on current scientific and technological knowledge. The IEEE-SA has a portfolio of over 1,200 active standards and over 650 standards under development. For more information visit <http://standards.ieee.org>.

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**References:**