IEEE P802.11
Wireless LANs

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### Overview

This submission proposes a press release for P802.11ai-2016

Contact:

# Amendment to IEEE Std 802.11™ Enables fast initial link establishment in high density user environments

**PISCATAWAY, N.J., USA, XX Month 2017** – IEEE, the world's largest professional organization advancing technology for humanity, today announced that the IEEE Standards Association (IEEE-SA) Standards Board has approved the IEEE 802.11aiTM-2016 amendment to provide “Fast Initial Link Set-up (FILS)” methods.

The project's primary need came from an environment where a large number of mobile users are constantly entering and leaving the coverage area of an existing extended service set (ESS). The amendment provides the following benefits:

1. scale with a high number of users simultaneously entering an ESS
2. minimize the time spent within the initial link set-up phase
3. securely provide initial authentication

IEEE 802.11ai significantly improves the user experience of connecting user devices in high density user environments such as stadia, stations and shopping malls, as well as automotive systems. Users will have a secure and more reliable connection when entering a IEEE802.11 service area. In addition, IEEE802.11ai provides more efficient spectrum use by optimizing the protocol overhead in high-density user environments.

Technical advancements provided by IEEE 802.11ai address needs of the Wi-Fi Alliance Optimized Connectivity Experience (OCE) group, which aims to explore technologies and certification requirements "to deliver a better user experience in managed network environments with a high density of active or connected devices. Managed networks ... will take advantage of systemic information to shorten connection setup, reduce airtime overhead, optimize transitions, and improve roaming performance.” As such, the work is tailored to fit the unique needs of fixed, mobile, and hotspot operators.

*“IEEE 802.11ai enables low delay communications for a large number of users within a confined space and positions IEEE Std 802.11 products to serve 5G applications”* said Hiroshi Mano, IEEE 802.11ai task group chair.

“*We expect that use of wireless LAN in urban areas will be more comfortable by this technology*” said Hajime Yamada, Chair of Wi-FILS promotion consortium Japan.

IEEE 802.11aiTM-2016 is available for purchase at the [IEEE Standards Store](http://www.techstreet.com/ieee/cgi-bin/detail?vendor_id=4359).

IEEE Std 802.11[[1]](#footnote-1) defines the technology for the world’s premier wireless LAN (WLAN) products. IEEE 802.11-based products are often branded as “Wi-Fi®” in the market. IEEE 802.11 standards underpin wireless networking applications around the world, such as wireless access to the Internet from offices, homes, airports, hotels, restaurants, trains and aircraft. IEEE 802.11’s relevance continues to expand with the emergence of new applications, such as the smart grid, wireless docking, and the “Internet of Things.” For more information about the IEEE 802.11 working group, visit <http://standards.ieee.org/develop/wg/WG802.11.html>.

To learn more about IEEE-SA, visit us on Facebook at <http://www.facebook.com/ieeesa>, follow us on Twitter at <http://www.twitter.com/ieeesa> or connect with us on LinkedIn at <http://www.linkedin.com/groups?gid=1791118> or on the Standards Insight Blog at <http://www.standardsinsight.com>.

**About the IEEE Standards Association**

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 900 active standards and more than 500 standards under development. For more information visit <http://standards.ieee.org/>.

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1. IEEE Std 802.11™-2016 “Standard for Information technology--Telecommunications and information exchange between systems Local and metropolitan area networks--Specific requirements Part 11: Wireless LAN Medium Access Control (MAC) and Physical Layer (PHY) Specifications” [↑](#footnote-ref-1)