

IEEE 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

Amendment 3: Enhancements for Very High Throughput in the 60 GHz Band

IEEE Computer Society

Sponsored by the
LAN/MAN Standards Committee

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USA

28 December 2012

IEEE Std 802.11ad™-2012
(Amendment to
IEEE Std 802.11™-2012,
as amended by IEEE Std 802.11ae™-2012
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Approved 19 October 2012

IEEE-SA Standards Board

Abstract: This amendment defines modifications to both the IEEE 802.11 physical layers (PHYs) and the IEEE 802.11 medium access control layer (MAC) to enable operation in frequencies around 60 GHz and capable of very high throughput.

Keywords: 60 GHz, A-BFT, announcement transmission interval, association beamforming training time, ATI, beacon transmission interval, beamforming, BTI, CBAP, clustering, contention-based access period, directional multi-gigabit, DMG, dynamic allocation of service period, dynamic extension of service period, dynamic truncation of service period, fast session transfer, FST, GCMP, IEEE 802.11ad, millimeter-wave, multi-band operation, PBSS, PBSS control point, PCP, personal basic service set, relay operation, service period, SP, spatial sharing

The Institute of Electrical and Electronics Engineers, Inc.
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Print: ISBN 978-0-7381-8109-7 STD97302
PDF: ISBN 978-0-7381-8096-0 STDPD97302

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This amendment defines standardized modifications to both the IEEE 802.11 physical layers (PHYs) and the IEEE 802.11 medium access control layer (MAC) to enable operation in frequencies around 60 GHz and capable of very high throughput.

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**IEEE 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**

**Amendment 3: Enhancements for
Very High Throughput in the 60 GHz Band**

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¹Notes in text, tables, and figures are given for information only and do not contain requirements needed to implement the standard.