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**Telecommunications and exchange
between information technology
systems — Requirements for local and
metropolitan area networks —**

Part 11:
**Wireless LAN medium access control
(MAC) and physical layer (PHY)
specifications**

**AMENDMENT 3: Enhancements for very
high throughput to support Chinese
millimeter wave frequency bands
(60 GHz and 45 GHz)**

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IEEE Std 802.11aj™-2018
(Amendment to IEEE Std 802.11™-2016
as amended by IEEE Std 802.11ai™-2016
and IEEE Std 802.11ah™-2016)

**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 to Support Chinese Millimeter Wave
Frequency Bands (60 GHz and 45 GHz)**

Sponsor

**LAN/MAN Standards Committee
of the
IEEE Computer Society**

Approved 15 February 2018

IEEE-SA Standards Board

Abstract: The IEEE 802.11™ directional multi-gigabit (DMG) physical layer (PHY) and the medium access control (MAC) layer are modified by this amendment to IEEE Std 802.11™-2016 to enable operation in the Chinese millimeter wave frequency band around 60 GHz. This amendment also defines modifications to the IEEE 802.11 PHY and MAC layer to enable operation in the Chinese millimeter wave frequency band around 45 GHz.

Keywords: beamforming, CDMG, China directional multi-gigabit, China millimeter-wave multi-gigabit, CMMG, DBC, DCS, dynamic bandwidth control, dynamic channel selection, IEEE 802.11™, IEEE 802.11aj™, opportunistic transmission, spatial sharing

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