

**IEEE Standard for  
Information technology—  
Telecommunications and information  
exchange between systems—  
Local and metropolitan area networks—  
Specific requirements—  
Part 19: TV White Space Coexistence Methods**

**Amendment 1: Coexistence Methods for  
Geo-location Capable Devices Operating under  
General Authorization**

IEEE Computer Society

Sponsored by the  
LAN/MAN Standards Committee

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Approved 28 September 2017

**IEEE-SA Standards Board**

**Abstract:** The network-based coexistence information exchange among networks and devices to enable network-based coexistence management is defined in this amendment to IEEE 802.19.1-2014. This amendment specifies procedures and protocols for collection and exchange of coexistence information of heterogeneous networks, spectrum resource measurements and network performance metrics, such as packet error ratio, delay, etc., and information elements and data structures to capture coexistence information.

**Keywords:** 5 GHz license-exempt bands, database, general authorized access in 3.5 GHz bands, geolocation, IEEE 802<sup>®</sup>, IEEE 802.19.1<sup>™</sup>, IEEE 802.19.1a<sup>™</sup>, network-based coexistence, spectrum management, TV band white spaces

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## Introduction

This introduction is not part of IEEE Std 802.19.1a-2017, IEEE Standard for Information technology—Telecommunications and information exchange between systems—Local and metropolitan area networks—Specific requirements—Part 19: TV White Space Coexistence Methods—Amendment 1: Coexistence methods for geo-location capable devices operating under general authorization.

This amendment to IEEE 802.19.1-2014 defines the network-based coexistence information exchange among networks and devices to enable network-based coexistence management. It specifies procedures and protocols for collection and exchanging coexistence information of heterogeneous networks, spectrum resource measurements and network performance metrics, such as packet error ratio and delay, etc., and information elements and data structures to capture coexistence information.

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# IEEE Standard for Information technology— Telecommunications and information exchange between systems— Local and metropolitan area networks— Specific requirements— Part 19: TV White Space Coexistence Methods

## Amendment 1: Coexistence Methods for Geo-location Capable Devices Operating under General Authorization

(This amendment is based on IEEE Std 802.19.1™-2014.)

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