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Does the IEEE 802.11 MAC Protocol Work Well in Multihop ...

Abstract: This paper studies a fundamental problem, clock synchronization, in IEEE 802.11 ad

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ad hoc networks. Clock synchronization is important for frequent hopping spread spectrum (FHSS) to ensure that all stations "hop" at the same time; it is also necessary for FHSS, direct sequence spread spectrum (DSSS) and orthogonal frequency-division multiplexing (OFDM) to perform power management.

IEEE 802.11 - Wikipedia

In IEEE 802.11 wireless local area networking standards (including Wi-Fi), a service set (also known as extended service set or ESS) is a group of wireless network devices which are identified by the same SSID (service set identifier). SSIDs serve as "network names" and are typically natural language labels.

IEEE 802.11, The Working Group

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Setting the Standards for ...

A wireless ad hoc network (WANET) or Mobile ad hoc network (MANET) is a decentralised type of wireless network. The network is ad hoc because it does not rely on a pre-existing infrastructure, such as routers in wired networks or access points in managed (infrastructure) wireless networks.

Byzantine Attack Isolation in IEEE 802.11 Wireless Ad-Hoc ...

when it is used in IEEE 802.11-based multihop ad hoc networks. In this article we present the problems in the IEEE 802.11 MAC protocol, which are encountered and exacerbated when this protocol works with TCP in a wireless ad hoc network. By analyzing the multilayer traces from the simulation, we reveal the in-depth

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causes of these problems and

A new multichannel access protocol for IEEE 802.11 ad hoc ...

Measurements on IEEE 802.11 ad hoc networks confirm previous simulative results (e.g., TCP connections may actually experience significant throughput unfairness). The analysis of IEEE 802.11b reveals several aspects that are usually neglected in simulative studies.

Architecture of IEEE 802.11

IEEE 802.11 Performance in an Ad-Hoc Environment¹ Craig Sweet, Vijay Devarapalli, and Deepinder Sidhu
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The IEEE 802.11 technology is a good platform to implement single-hop ad hoc networks because of its extreme simplicity. Single-hop means that stations must be within the same transmission radius (say, 100–200 meters) to be able to communicate.

Efficient, and scalable IEEE 802.11 ad-hoc-mode timing ...

IEEE 802.11s is Wireless LAN standard and an IEEE 802.11 amendment for mesh networking, defining how wireless devices can interconnect to create a WLAN mesh network, which may be used for relatively fixed topologies and wireless

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ad hoc networks. The IEEE 802.11s working group draws upon volunteers from university and industry to provide specifications and possible design solutions for wireless mesh networking. As a standard, the document was iterated and revised many times prior to finalization.

IEEE 802.11 ad hoc networks:
performance measurements ...

Ad-hoc mode is also known as "peer-to-peer" mode. Ad-hoc networks don't require a centralized access point. Instead, devices on the wireless network connect directly to each other. If you set up the two laptops in ad-hoc wireless mode, they'd connect directly to each other without the need for a centralized access point.

IEEE 802.11 Ad Hoc Networks:

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Protocols, Performance and ...

Efficient, and scalable IEEE 802.11 ad-hoc-mode timing synchronization function Abstract: The IEEE 802.11 standards support the peer-to-peer mode independent basic service set (IBSS), which is an ad hoc network with all its stations within each other's transmission range.

IEEE 802.11 Ad Hoc Networks:
Performance Measurements

IEEE 802.11 is part of the IEEE 802 set of LAN protocols, and specifies the set of media access control (MAC) and physical layer (PHY) protocols for implementing wireless local area network (WLAN) Wi-Fi computer communication in various frequencies, including but not limited to 2.4 GHz, 5 GHz, and 60 GHz frequency bands.

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What's the Difference Between Ad-Hoc and Infrastructure ...

IEEE 802.11 Presentations. The former publicity standing committee (PUB SC) and other volunteers have produced presentations to describe the activities of the IEEE 802.11 Working Group. These presentations are intended to be used to explain 802.11's activities to those outside 802.11.

IEEE 802.11 Architecture | Tutorial-Reports.com

This document contains the meeting minutes of the IEEE 802.11be PHY ad-hoc sessions held during the January 2020 IEEE meeting. REVISION NOTES: R0: Minutes from Monday PM2 PHY ad hoc meeting. R. 1: Add minutes from Tuesday PM1 and Tuesday PM3 PHY ad hoc meetings.

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IEEE 802.11 Performance in an Ad-Hoc Environment

A new multichannel access protocol for IEEE 802.11 ad hoc wireless LANs

Abstract: The IEEE 802.11 wireless local area networks (WLANs) standard supports several equal-capacity communication channels which can be simultaneously shared and accessed by mobile stations.

Ieee 802 11 Ad Hoc

Other than being a solution for pure ad hoc networking, the IEEE 802.11 ad hoc technology may also constitute an important and promising building block for solving the first mile problem in hot spots.

Wireless ad hoc network - Wikipedia

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Abstract: This paper introduces an effective solution against Denial of Service (DoS) implemented by byzantine attack in a fully distributed ad-hoc wireless network employing IEEE 802.11. Byzantine attack is the attack performed by a fully trusted node that's turned rogue and already has passed all the authentication and verification processes.

Service set (802.11 network) -
Wikipedia

The minimum BSS consists of two stations. 802.11 LANs use the BSS as the standard building block. A BSS that stands alone and is not connected to a base is called an Independent Basic Service Set (IBSS) or is referred to as an Ad-Hoc Network. An ad-hoc network is a network where stations communicate only peer to peer.

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Analysis and implementation of ... -
ieeexplore.ieee.org

dynamic nature of ad hoc networks make (IEEE 802.11) multi-hop networks fundamentally different from wired networks. Furthermore, the behavior of an ad hoc network that relies upon a carrier-sensing random access protocol, such as the IEEE 802.11, is further complicated by the presence of hidden stations, exposed stations, [capturing]

IEEE 802.11s - Wikipedia

An ad-hoc network does not require an AP. IEEE 802.11 supports three basic topologies for WLANs, the independent basic service set (IBSS), the basic service set, and the extended service set (ESS). The MAC layer supports implementations of

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IBSS, basic service set, and ESS configurations.

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