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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 hoc networks.

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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

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*orthogonal frequency-
division multiplexing (OFDM)
to perform power management.*

*Wireless ad hoc network -
Wikipedia*

*Abstract: This paper
introduces an effective*

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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

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*turned rogue and already has
passed all the
authentication and
verification processes.*

*IEEE 802.11 Ad Hoc Networks:
Performance Measurements*

IEEE 802.11 is part of the

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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

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*various frequencies,
including but not limited to
2.4 GHz, 5 GHz, and 60 GHz
frequency bands.*

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

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*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*

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are intended to be used to explain 802.11's activities to those outside 802.11.

*Architecture of IEEE 802.11
IEEE 802.11 Performance in
an Ad-Hoc Environment¹ Craig
Sweet, Vijay Devarapalli,*

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*and Deepinder Sidhu Maryland
Center for
Telecommunications Research
Department of Computer
Science and Electrical
Engineering University of
Maryland Baltimore County
1000 Hilltop Circle*

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*Baltimore, MD 21250 {sweet,
vdevar1,
sidhu}@mctr.umbc.edu*

IEEE 802.11s - Wikipedia
*An ad-hoc network does not
require an AP. IEEE 802.11
supports three basic*

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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 IBSS, basic service set, and ESS

Read PDF Ieee 802 11 Ad Hoc Networks Performance Measurements configurations.

*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*

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*local area networks (WLANs)
standard supports several
equal-capacity communication
channels which can be
simultaneously shared and
accessed by mobile stations.*

doc.: IEEE 802.11-19/2029r7

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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,

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*100-200 meters) to be able
to communicate.*

*IEEE 802.11 Ad Hoc Networks:
Protocols, Performance and*

...

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

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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

Read PDF Ieee 802 11 Ad Hoc Networks Performance Measurements *range.*

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

*Measurements on IEEE 802.11
ad hoc networks confirm
previous simulative results*

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(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.

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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

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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.

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*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*

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*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

*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*

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networking, defining how wireless devices can interconnect to create a WLAN mesh network, which may be used for relatively fixed topologies and wireless ad hoc networks. The IEEE 802.11s working group draws

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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

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to finalization.

*Analysis and implementation
of ... - ieeexplore.ieee.org
dynamic nature of ad hoc
networks make (IEEE 802.11)
multi-hop networks
fundamentally different from*

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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

Read PDF Ieee 802 11 Ad Hoc Networks Performance Measurements *stations, “capturing”*

*Ieee 802 11 Ad Hoc
Other than being a solution
for pure ad hoc networking,
the IEEE 802.11 ad hoc
technology may also*

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constitute an important and promising building block for solving the first mile problem in hot spots.

IEEE 802.11, The Working Group Setting the Standards for ...

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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,

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such as routers in wired networks or access points in managed (infrastructure) wireless networks.

*Service set (802.11 network)
- Wikipedia*

The minimum BSS consists of

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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

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Network. An ad-hoc network is a network where stations communicate only peer to peer.

*IEEE 802.11 - Wikipedia
In IEEE 802.11 wireless
local area networking*

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*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*

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*names" and are typically
natural language labels.*

*IEEE 802.11 Architecture |
Tutorial-Reports.com*

*This document contains the
meeting minutes of the IEEE
802.11be PHY ad-hoc sessions*

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*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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