IEEE P802.11  
Wireless LANs

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| Wireless Next Generation (WNG) Standing Committee Meeting Minutes for March-2017 Meeting Vancouver, BC, Canada | | | | |
| Date: 03-17-2017 | | | | |
| Author(s): | | | | |
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Abstract

Meeting Minutes for the WNG SC meeting held in Vancouver, BC, Canada, in March, 2017.

**Tuesday, March 17, 2017, 8:00 AM to 10:00 AM PT**

Chair: Jim Lansford (Qualcomm)

Vice Chair: Lei Wang (Huawei)

**Meeting Agenda:**

The meeting agenda is shown below, and also published in the agenda document:

<https://mentor.ieee.org/802.11/dcn/17/11-17-0195-01-0wng-agenda-for-wng-2017-03.ppt>

* Call Meeting to Order
* Agenda approval
* Attendance reminder
* Documentation reminder
* Approval of Previous meeting minutes
  + Minutes from Atlanta
    - <https://mentor.ieee.org/802.11/dcn/17/11-17-0146-00-0wng-wng-meeting-minutes-of-2017-january-atlanta-meeting.docx>
* Announcements
* Presentations
* Plans for May 2017
* Adjournment

**Meeting Minutes:**

* Meeting called to order at 8:06am PT on Tuesday, March 14, 2017, by Chair, Jim Lansford. The few minutes delay was due to some A/V issues.
* Agenda approval:

<https://mentor.ieee.org/802.11/dcn/17/11-17-0195-01-0wng-agenda-for-wng-2017-03.ppt>

* The agenda was approved by unanimous consent
* The chair also noted the affiliation FAQ, anti-trust FAQ, ethics code, IEEE 802.11 policies and procedures, and IEEE 802 policies and procedures
* The chair covered the voting rules for WNG SC, being a standing committee
* Approval of previous meeting minutes
* The minutes of 2017-January Atlanta meeting:

<https://mentor.ieee.org/802.11/dcn/17/11-17-0146-00-0wng-wng-meeting-minutes-of-2017-january-atlanta-meeting.docx>

* + The minutes were approved by unanimous consent.
* Approximately 93 people were in attendance.
* Announcement
  + Chair invites for submission for graduate student research paper topics, for his class in University of Colorado.
* Presentation: “Introduction to RPW system”, Ken Takei, Hitachi Ltd.

<https://mentor.ieee.org/802.11/dcn/17/11-17-0312-00-0wng-introduction-to-rpw-system.pptx>

* Q: slide 12, what do you compare against? What’s the relative gain against? Is it against today’s best dot11 practice? Conventional receiver with 2 antennas?
* A: conventional receiver with 1 antenna; this compares polarization only, not space diversity.
* Comment: encourage to bring in results of comparison against today’s best dot11 practice.
* Comment: 1Mbps DSS is not good at NLOS. OFDM is way better than 1Mbps DSSs in NLOS, OFDM is 22dB better.
* Response: this proposal uses polarization and rotation to reduce noise and to increase reliability. The current data rate requirement is very low. OFDM is usually for high data rate.
* Straw poll: slide 16, Do you think that IEEE 802.11 wireless LAN should further discuss polarization diversity based transmission technologies such as Rotating Polarization as a candidate physical layer technology to improve the reliability of industrial M2M systems?
  + Yes: 14
  + No: 0
  + Abstain: 43
* An after-Straw-Poll summary of the presentation: the proposal is about polarization, for increasing reliability; comparison against space diversity. This is for low data rate and very reliable, while OFDM is for high data rate.
* Presentation: “Review of existing approaches and use cases of obtaining transmission opportunity from multiple channels”, Kazuto Yano, Advanced Telecommunications Research Institute International (ATR)

<https://mentor.ieee.org/802.11/dcn/17/11-17-0410-00-0wng-review-of-existing-approaches-and-use-cases-of-obtaining-transmission-opportunity-from-multiple-channels.pptx>

* Q: how to manage contention window of multiple channels? Contention window is a property of each channel.
* A: contention window should be separated, and it should use the existing scheme of contention window.
* Q: slide 6, are you having 3 dedicated receivers on 3 different channels? Probably also 3 transmitter? Eventually 3 radios with a controller, pick the first available one to transmit?
* A: RF should be the existing system. Receiver can be better, should have the ability to receive on different channels.
* Comment: suggest to give a diagram to show how radio is laid out
* Comment: do CCA on multiple channel in parallel. How can we keep track of CW on multiple channels?
* Comment: we are not only talking about CCA. Need multiple MAC units to keep track.
* SP#1: slide 18, Do you agree that there are issues in balanced and relatively high-load situations, and it is hard to overcome only by existing approaches in IEEE 802.11 wireless LAN in some cases?
  + Q: Adrian: does “existing” include 11ax?
  + A: “existing” include 11ax
  + SP#1 result:
    - Yes: 11
    - No: 2
    - Need more info: 38
    - Don’t care: 0
* SP#2: slide 19, Do you think that IEEE 802.11 wireless LAN should have a new way to overcome some relatively high-load situations?
  + Yes:8
  + No:1
  + Need more info: 43
  + Don’t care: 0
* Plan for 2017-May meeting:
  + Call for contributions: the WNG chair will issue a call for contributions before the 2017-May meeting.
  + Chair encourages people to contribute to WNG.
* Adjourn
  + The meeting adjourned, without objection, at 9:25am PT.