IEEE P802.11  
Wireless LANs

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| Wireless Next Generation (WNG) Standing Committee Meeting Minutes for March-2024 Denver Hybrid Meeting | | | | |
| Date: March 12, 2024 | | | | |
| Author(s): | | | | |
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Abstract

Meeting Minutes for the WNG SC meeting held in mixed-mode with in-person meeting in Denver, Colorado, USA, and with electronic meeting access, on March 12th, 2024.

**WNG Meeting: March 12th, 2024, 8:00am to 10:00am Denver Time**

Chair: Jim Lansford (FaraFir Consulting)

Vice Chair & Secretary: Lei Wang (Futurewei / Huawei)

**Meeting Agenda:**

The meeting agenda for WNG 2024-March meeting is shown below, and also published in the agenda document:

<https://mentor.ieee.org/802.11/dcn/24/11-24-0234-00-0wng-agenda-for-wng-sc-2024-march.pptx>

* Call Meeting to Order
* Agenda approval
* Attendance reminder
* Documentation reminder
* Announcements
* Approval of Previous meeting minutes
  + Minutes from November 2023 WNG Meeting (No meeting in January)
* Presentations
  + Tuesday 12 March 2024, 0800-1000 MST
* Plans for May 2024
* Adjourn

In addition, the detailed agenda with the presentation information is included in the agenda file, and also as shown below:

* Announcements
* Approval of Previous meeting minutes
  + Minutes from November:
* <https://mentor.ieee.org/802.11/dcn/23/11-23-2086-00-0wng-wng-meeting-minutes-2023-november-honolulu-meeting.docx>
* Presentations
  + “Wi-Fi AFC Spectrum Sharing for Radio Astronomy,” Kevin Gifford, Stefan Tschimben, Mark Lofquist (University of Colorado – Boulder)
  + “Modeling and Generation of Realistic Network Activity,” Stefan Tschimben, Isabella Bates (University of Colorado – Boulder)
  + “WLAN for High-Mobility Users,” Azin Neishaboori (General Motors)
  + “Data offload using WLAN in connected vehicle case,“ Jing Ma (Toyota Motor Corporation)
* Plans for May 2024
  + Chair will make a call for presentations in advance.
* Adjourn

**Meeting Minutes:**

* Chair called the meeting to order at 8:00am Denver time on Tuesday, March 12th, 2024, and showed the group the agenda file.
* Chair reminded the group to record the attendance of this meeting by using the IEEE Attendance Tool.
* Agenda approval:

<https://mentor.ieee.org/802.11/dcn/24/11-24-0234-00-0wng-agenda-for-wng-sc-2024-march.pptx>

* The agenda was approved by unanimous consent.
* Chair also noted the affiliation FAQ, anti-trust FAQ, ethics code, IEEE 802.11 policies and procedures, and IEEE 802 policies and procedures.
* Chair covered the voting rules for WNG SC, being a standing committee.
* Approval of previous meeting minutes for September WNG meeting.
  + Minutes from 2023-November WNG Meeting

<https://mentor.ieee.org/802.11/dcn/23/11-23-1595-00-0wng-wng-meeting-minutes-2023-september-atlanta-meeting.docx>

* + The 2023-November WNG SC meeting minutes was approved by unanimous consent.
* Attendance:
  + In the meeting room: ~ 130
  + Webex attendance: 275
* Presentation #1: “Wi-Fi AFC Spectrum Sharing for Radio Astronomy”, Kevin Gifford, Stefan Tschimben, Mark Lofquist (University of Colorado – Boulder)

<https://mentor.ieee.org/802.11/dcn/24/11-24-0567-00-0wng-wi-fi-afc-spectrum-sharing-for-radio-astronomy.pptx>

* + Kevin presented the contribution remotely via Webex.
  + Summary of Discussion
    - * Questioned and discussed what the nature of harm could be if protection mechanism were to fail and cause some interference to RA momentarily.
* Presentation #2: “Modeling and Generation of Realistic Network Activity,” Stefan Tschimben, Isabella Bates (University of Colorado – Boulder)

<https://mentor.ieee.org/802.11/dcn/24/11-24-0548-00-0wng-modeling-and-generation-of-realistic-network-activity.pptx>

* + Stefan presented this contribution in-person.
  + Summary of Discussion
    - * Discussed the type of user accounts that the students have used.
      * Discussed the rules and difficulties around data collection, and also how the data could be used for another analysis.
* Presentation #3: “WLAN for High-Mobility Users”, Azin Neishaboori (General Motors)

<https://mentor.ieee.org/802.11/dcn/24/11-24-0378-00-0wng-wlan-for-high-mobility-users.potx>

* + Azin presented this contribution in-person.
  + Summary of Discussion
    - * Discussed the type of Wi-Fi networks that vehicles may connect to, e.g., operators’ Wi-Fi network, stores/shops’ Wi-Fi network, etc.
      * Discussed the internal vs. external Wi-Fi connectivity for vehicles; the capability of external Wi-Fi connectivity is supported now in the vehicles; and a vehicle can be a Wi-Fi AP or a non-AP STA.
      * Commented that the relevant work has been discussed or addressed in previous 802.11 projects, e.g., 802.11ai, 802.11bd, etc., particularly some PHY features, e.g., midamble, coding, etc., and suggested to collect and study the existing 802.11 features / functionalities.
      * Suggest having a clear specification for each layer, with regarding to the requirements and solutions to support high mobility users.
      * WNG Chair encouraged to continue further discussions offline and bring in contributions to 802.11bn TG.
      * Due to time limit, questions in Webex chat window were not discussed during the meeting. Offline discussions were encouraged.
* Presentation #4: “Data offload using WLAN in connected vehicle case”, Jing Ma (Toyota Motor Corporation)

<https://mentor.ieee.org/802.11/dcn/24/11-24-0415-01-0wng-data-offload-using-wlan-in-connected-vehicle-case.pptx>

* + Jing presented this contribution in-person.
  + Summary of Discussion
    - * Commented that many of the identified issues in the contribution have been discussed or addressed in previous 802.11 projects, e.g., 802.11bi, 802.11bd, 802.11bc, 802.11be, etc.
      * Commented that it may be the time to extend what have been done previously in 802.11bd, etc. Based on applications and use cases, as well as the existing tools in the toolboxes, to identify what else are needed, what are the gaps.
      * Commented that the use cases addressed in the contribution are for internet connectivity, not vehicle to vehicle. There might be parts of 802.11bd PHY which could be leveraged in the 802.11bn.
      * Commented that some 802.11bn proposals, e.g., multi-AP association, could help to address some of the gaps.
* Plans for May 2024:
  + Call for contributions: WNG chair will issue a call for contributions before 802.11 2024-May meeting.
* Any other business: none.
* Adjourned at 10:00am Denver Time.