IEEE P802.11
Wireless LANs

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| Wireless Next Generation (WNG) Standing CommitteeMeeting Minutes for July-2024 Montreal Hybrid Meeting |
| Date: July 16, 2024 |
| Author(s): |
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Abstract

Meeting Minutes for the WNG SC meeting held in mixed-mode with in-person meeting in Montreal, Canada, and with electronic meeting access, on July 16th, 2024.

**WNG Meeting: July 16th, 2024, with two sessions:**

* **Session #1: 8:00am to 10:00am Montreal Time**
* **Session #2: 4:00pm to 6:00pm Montreal Time**

Chair: Jim Lansford (FaraFir Consulting)

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

**Meeting Agenda:**

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

<https://mentor.ieee.org/802.11/dcn/24/11-24-0983-01-0wng-agenda-for-wng-sc-2024-july.pptx>

* Call Meeting to Order
* Agenda approval
* Attendance reminder
* Documentation reminder
* Announcements
* Approval of Previous meeting minutes
	+ Minutes from May 2024 WNG Meeting
* Presentations
	+ Tuesday 16 July, 0800-1000 and 1600-1800 Eastern Daylight Time
* Plans for September 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 May:
		- <https://mentor.ieee.org/802.11/dcn/24/11-24-0923-00-0wng-wng-meeting-minutes-2024-may-warsaw-meeting.docx>
* Presentations

**> AM1 (0800-1000)**

* + “Enhancing Wi-Fi Privacy: A Focus on Frame Anonymization Techniques,” Rosario Giuseppe Garroppo (University of Pisa)
	+ "Post-Quantum 802.11,“ Dan Harkins (HP Enterprise)
	+ “Co-Existence of Wi-Fi with Narrowband Technology,” Stone Liu (Carleton University)

**> PM2 (1600-1800)**

* + “ns-3 Rel-42/43 Wi-Fi Model Updates and Network Simulations,” H. Yin, S. Roy and T. R. Henderson (University of Washington)
	+ “Proposal on data offload using WLAN in connected vehicle case,” Jing Ma (Toyota)
	+ “Automotive-TIG-Proposal,” Azin Neishaboori (General Motors)
* Plans for September 2024
	+ Chair will make a call for presentations in advance
* Adjourn

**Meeting Minutes: Session #1 (8am to 10am ET, on July 16, 2024)**

* Chair called the meeting to order at 8:00am Montreal time on Tuesday, July 16th, 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/24/11-24-0983-01-0wng-agenda-for-wng-sc-2024-july.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 the meeting minutes of the previous WNG meeting.
	+ Minutes from 2024-May WNG Meeting

<https://mentor.ieee.org/802.11/dcn/24/11-24-0923-00-0wng-wng-meeting-minutes-2024-may-warsaw-meeting.docx>

* + The 2024-May WNG SC meeting minutes was approved by unanimous consent.
* Attendance:
	+ In the meeting room: ~ 140
	+ Webex attendance: 309 (at the peak)
* Presentation #1: “Enhancing Wi-Fi Privacy: A Focus on Frame Anonymization Techniques,” Rosario Giuseppe Garroppo (University of Pisa)

<https://mentor.ieee.org/802.11/dcn/24/11-24-1234-00-0wng-analysis-of-frame-anonymization-techniques.pptx>

* + Rosario presented the contribution remotely via Webex.
	+ Summary of Discussion
		- * Questioned and discussed multiple topics, e.g., more different configurations, pay attention at L1 and L2 parameters besides randomization, TID value, only randomize MAC address and no IP address randomization, the time values on slide 18, etc.
* Presentation #2: "Post-Quantum 802.11,“ Dan Harkins (HP Enterprise)

<https://mentor.ieee.org/802.11/dcn/24/11-24-1103-00-0wng-post-quantum-802-11.pptx>

* + Dan presented the contribution in-person.
	+ Summary of Discussion
		- * Questioned and discussed multiple topics, e.g., what to do with SAE (may not be useful long term), the computational complexity/latency of ML-KEM, encryption efficiency, and the amount of time needed to get a new technology deployed, since quantum computing is evolving rapidly.
* Presentation #3: “Co-Existence of Wi-Fi with Narrowband Technology,” Stone Liu (Carleton University)

<https://mentor.ieee.org/802.11/dcn/24/11-24-1059-01-0wng-co-existence-of-wi-fi-with-narrowband-technology.pptx>

* + Stone presented the contribution in-person.
	+ Stone and Guido conducted a live demo.
	+ Summary of Discussion
		- * About 3 people are in the queue for Q&A. However, there were only 30 seconds left before the session ends. WNG Chair, Jim, suggested that people with questions talk to the presenter offline.
* Recessed at 10am Montreal time.

**Meeting Minutes: Session #2 (4pm to 6pm ET, on July 16, 2024)**

* Chair called the meeting to order at 4pm Montreal time on Tuesday, July 16th, 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.
* 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.
* Attendance:
	+ In the meeting room: ~ 65
	+ Webex attendance: 168 (at the peak)
* Presentation #4: “ns-3 Rel-42/43 Wi-Fi Model Updates and Network Simulations,” H. Yin, S. Roy and T. R. Henderson (University of Washington)”

<https://mentor.ieee.org/802.11/dcn/24/11-24-1139-01-0wng-ns-3-rel-42-43-wi-fi-model-updates-and-network-simulations.pptx>

* + Sumit and Tom presented the contribution remotely via Webex.
	+ Summary of Discussion
		- * None.
* Presentation #5: “Proposal on data offload using WLAN in connected vehicle case,” Jing Ma (Toyota)

<https://mentor.ieee.org/802.11/dcn/24/11-24-1134-01-0wng-proposal-on-data-offload-using-wlan-in-connected-vehicle-case.pptx>

* + Jing presented the contribution in-person.
	+ Summary of Discussion
		- * Presenter pointed out that there is a joint straw poll with next presenter and propose to run it after next presentation.
* Presentation #6: “Automotive-TIG-Proposal,” Azin Neishaboori (General Motors)

<https://mentor.ieee.org/802.11/dcn/24/11-24-1062-03-0wng-automotive-tig-proposal.pptx>

* + Azin presented the contribution in-person.
	+ Summary of Discussion
		- * Discussed if the overlapping coverage of BSS is needed for seamless connectivity.
			* Clarified that the proposed TIG will focus on L1 and L2 functions, not higher layers, although seamless connectivity may require higher layer support.
			* Clarified that the standards currently under development, e.g., IEEE 802.11bn, will be considered, and some of the new features, e.g., seamless roaming, could be part of the TIG recommendation.
			* Clarified that the TIG will be open for discussing any questions related to the topic, and also open to collaborate / communicate with other organizations who may be interested in the same/similar issues.
			* Presenter pointed out that there is a joint straw poll with previous presenter, as shown in a separate document below.
* Straw Poll for Automotive TIG, Azin Neishaboori (General Motors) and Jing Ma (Toyota)

<https://mentor.ieee.org/802.11/dcn/24/11-24-1290-01-0wng-strawpoll-joint-automotivetig.potx>

* + Straw Poll Text:

Do you agree with forming a Topic Interest Group in the IEEE 802.11 Working Group to investigate the current gaps in IEEE 802.11 standards in achieving seamless connectivity for vehicles via external 802.11 APs?

* + Straw Poll Result: 85 Yes / 15 No / 17 Abstain
	+ WNG Chair, Jim, suggested bringing a corresponding motion to Friday WG Closing Plenary.
* Plans for September 2024:
	+ Call for contributions: WNG chair will issue a call for contributions before 802.11 2024-September meeting.
* Any other business: none.
* Adjourned at 5:51pm Montreal Time.