IEEE P802.11
Wireless LANs

|  |
| --- |
| Wireless Next Generation (WNG) Standing CommitteeMeeting Minutes for January-2023 Baltimore Hybrid Meeting |
| Date: January 17, 2023 |
| Author(s): |
| Name | Affiliation | Address | Phone | email |
| Lei Wang | Futurewei / Huawei | 2220 Central Expressway, Santa Clara, CA 95050, USA | +1-858-205-7286 | Lei.wang1@futurewei.com |
| Jim Lansford | Qualcomm | 7775 N Topeka AveCascade, CO 80809, USA | +1-719-286-8660 | Jim.lansford@ieee.org |

Abstract

Meeting Minutes for the WNG SC meeting held in mixed-mode with in-person meeting in Baltimore, Maryland, USA, and with electronic meeting access, on January 17th, 2023.

**WNG Meeting: January 17th, 2023, 8:00am to 10:00am US Eastern Time**

Chair: Jim Lansford (Qualcomm)

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

**Meeting Agenda:**

The meeting agenda for WNG 2023-January meeting is shown below, and also published in the agenda document:

<https://mentor.ieee.org/802.11/dcn/22/11-22-2132-00-0wng-agenda-for-wng-sc-2023-january.pptx>

* Call Meeting to Order
* Agenda approval
* Attendance reminder
* Documentation reminder
* Announcements
* Approval of Previous meeting minutes
	+ Minutes from November 2022 WNG Meeting
* Presentations
	+ Tuesday 17 January 2023, 8:00-10:00 US Eastern Time
* Plans for March 2023
* Adjourn

In addition, the detailed agenda with the list of presentations is included in the agenda file, and also as shown below:

* Announcements
* Approval of Previous meeting minutes
	+ Minutes from September:
		- <https://mentor.ieee.org/802.11/dcn/22/11-22-2002-00-0wng-wng-meeting-minutes-2022-november-bangkok-meeting.docx>
* Presentations
	+ “802.11 applications in/to Alternative Fuel Vehicle infrastructure,” Craig Rodine (Sandia National Laboratory)
	+ “New features for Light Communication,” Volker Jungnickel (Fraunhofer)
	+ “Faster S1G+ follow up,” Dave Halasz (Morse Micro)
* Plans for March 2023
	+ Chair will make a call for presentations in advance.
* Adjourn

**Meeting Minutes:**

* Chair called the meeting to order at 8:00am Baltimore time on Tuesday, January 17th, 2023, and showed the group the agenda file.
* Chair reminded the group to record the attendance of this meeting by using the IEEE Attendance Tool. The link to the attendance tool is also provided in the chat window of the electronic meeting.
* Agenda approval:

<https://mentor.ieee.org/802.11/dcn/22/11-22-2132-00-0wng-agenda-for-wng-sc-2023-january.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 November WNG meeting.
	+ Minutes from 2022-November WNG Meeting

<https://mentor.ieee.org/802.11/dcn/22/11-22-2002-00-0wng-wng-meeting-minutes-2022-november-bangkok-meeting.docx>

* + The 2022-November WNG SC meeting minutes was approved by unanimous consent.
* Attendance:
	+ In the meeting room: ~ 70.
	+ Webex attendance: 142 (at the peak)
	+ IMAT attendance: 157.
* Presentation #1: “802.11 applications in/to Alternative Fuel Vehicle infrastructure,” Craig Rodine (Sandia National Laboratory)

<https://mentor.ieee.org/802.11/dcn/23/11-23-0097-01-0wng-afv-fueling-vertical-opportunities.pptx>

* + Summary of Discussion
		- Commented that this is an interesting topic and architecture, not only inside the vehicle, but also out of the vehicle, e.g., to the grid, to the power company, etc., to facilitate two-way communications.
		- Questioned and discussed what needs to be done in Wi-Fi and Wi-Fi standards to support this application, e.g., improving user experience, privacy, applying 802 security for both wired and wireless communications, etc.
		- Discussed fueling/charging experience, in-room charging, dynamic charging, etc.

* Presentation #2: “New features for Light Communication,” Volker Jungnickel (Fraunhofer)

<https://mentor.ieee.org/802.11/dcn/23/11-23-0091-00-0wng-light-communication-for-uhr.pptx>

* + Summary of Discussion
		- Questioned and discussed why Light Communication (LC) needs to be considered in UHR (Ultra High Reliability), even though LC and RF are different technologies, while LC is complementary to RF, also bringing in some special features, e.g., more reliable in a limited area, less interference, etc.
		- Also discussed to have LC and RF integrated, not to have two separate systems, seamless handoff between two, for a better coverage.
		- Suggest bringing this presentation to UHR SG.
	+ Straw Poll: would you support that 802.11 develops Light Communication further?
		- Results:
			* Yes: 46+2 (2 voted yes in Webex chat window, due to failure in accessing the Webex poll)
			* No: 26
			* Abstain: 26+1 (1 voted in Webex chat window, due to failure in accessing the Webex poll)
			* No response: 44

Notes: there are few people who failed to access the Webex poll during the polling. Chaired asked them to send their votes in Webex chat window.

* “Faster S1G+ follow up,” Dave Halasz (Morse Micro)

<https://mentor.ieee.org/802.11/dcn/23/11-23-0038-00-0wng-faster-s1g-follow-up.pptx>

* + Summary of Discussion
		- Questioned and then clarified that the MAC changes are needed, e.g., MAC signaling, to support the proposed PHY features. Details are provided in another contribution, 23/0039.
		- Questioned and discussed that some sub-1GHz uses cases, e.g., some IoT applications, need higher data rates, although lots of IoT applications, e.g., sensors, generally need low data rate. In addition, by supporting high data rates, 802.11 offers outstanding and differentiated solutions for IoT.
		- Clarified that the listed features are the current focuses, while other features would be considered later.
* Plans for March 2023:
	+ Call for contributions: WNG chair will issue a call for contributions before 802.11 2023-March meeting.
* Any other business: none.
* Adjourned at 9:51am Baltimore Time.