IEEE P802.11
Wireless LANs

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| Wireless Next Generation (WNG) Standing CommitteeMeeting Minutes for September-2022 Waikoloa Hybrid Meeting |
| Date: September 13, 2022 |
| Author(s): |
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Abstract

Meeting Minutes for the WNG SC meeting held in mixed-mode with in-person meeting in Waikoloa, Hawaii, USA, and with electronic meeting access, on September 13th, 2022.

**WNG Meeting: September 13th, 2022, 10:30am to 12:30pm Hawaii Time**

Chair: Jim Lansford (Qualcomm)

Vice Chair & Secretary: Lei Wang (Futurewei)

**Meeting Agenda:**

The meeting agenda for WNG 2022-September meeting is shown below, and also published in the agenda document:

<https://mentor.ieee.org/802.11/dcn/22/11-22-1564-01-0wng-agenda-for-wng-sc-2022-september.pptx>

* Call Meeting to Order
* Agenda approval
* Attendance reminder
* Documentation reminder
* Announcements
* Approval of Previous meeting minutes
	+ Minutes from July 2022 WNG Meeting
* Presentations
	+ Tuesday 13 September 2022, 10:30-12:30 Hawaii Time
* Plans for November 2022
* 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 July:

<https://mentor.ieee.org/802.11/dcn/22/11-22-1040-00-0wng-wng-meeting-minutes-2022-july-montreal-meeting.docx>

* Presentations
	+ “Thoughts on High Reliability Communications,” Aiguo Yan (Zeku)
	+ “320 MHz Ranging,” Rolf de Vegt (Qualcomm)
	+ “Coexistence of Narrowband Frequency Hopping (NB FH) systems and Wi-Fi,” Jeff Bailey (Carleton University)
* Plans for November 2022
	+ Chair will make a call for presentations in advance
* Adjourn

**Meeting Minutes:**

* Chair called the meeting to order at 10:33am ET on Tuesday, September 13th, 2022, 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/22/11-22-1564-01-0wng-agenda-for-wng-sc-2022-september.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 July WNG meeting.
	+ Minutes from 2022-July WNG Meeting

<https://mentor.ieee.org/802.11/dcn/22/11-22-1040-00-0wng-wng-meeting-minutes-2022-july-montreal-meeting.docx>

* + The 2022-July WNG SC meeting minutes was approved by unanimous consent.
* Attendance:
	+ In the meeting room: ~ 115.
	+ Webex meeting: 182 (at the peak).
	+ IMAT attendance: 203.
* Presentation #1: “Thoughts on High Reliability Communications,” Aiguo Yan (Zeku)

<https://mentor.ieee.org/802.11/dcn/22/11-22-1413-01-0wng-thoughts-on-high-reliability-communications.pptx>

* + Aiguo presented the contribution in-person.
	+ Summary of Discussion
		- Discussed the feedback on slide 8, P matrix, V matrix, etc. and agreed to have further offline discussion.
		- Discussed the SNR gain mentioned in SP text, with or without beamforming.
		- Clarified there are some performance comparison studies on the schemes discussed on slide 8, but not included in this presentation; if interested, it can be discussed offline.
		- Discussed the feedback of the average SNR over all subcarriers per stream.
	+ Straw Poll #1:

“*Are you willing to support enhancement of standard on SVD based TXBF if SNR gain is at least 1.0 dB?*”

* + - Straw Poll Result (Webex poll): 8 yes, 26 no, 17 abstain, 124 no-answer
	+ Straw Poll #2:

“Are you willing to support enhancement of standard on SVD based TXBF if SNR gain is around 2.5 dB*?*”

* + - Straw Poll Result (hand counting in the meeting room, due to a technical issue with Webex poll): 18 yes, 5 no, 46 abstain
* Presentation #2: “320 MHz Ranging,” Rolf de Vegt (Qualcomm)

<https://mentor.ieee.org/802.11/dcn/22/11-22-1070-01-00az-320-mhz-ranging.pptx>

* + Rolf presented the contribution in-person.
	+ Summary of Discussion
		- Multiple speakers spoke to support this effort, a good use case for 320MHz channel, helps the ranging accuracy, opens more opportunities, etc.
		- Clarified this proposed project will be very specific to 11be based 320MHz ranging.
		- Discussed meeting regulatory requirements.
* Presentation #3: “Coexistence of Narrowband Frequency Hopping (NB FH) systems and Wi-Fi,” Jeff Bailey (Carleton University)

[https://mentor.ieee.org/802.11/dcn/22/11-22-1578-01-0wng-coexistence-of-narrowband-frequency-hopping-nb-fh-systems-and-wi-fi.pptx](https://nam11.safelinks.protection.outlook.com/?url=https%3A%2F%2Fmentor.ieee.org%2F802.11%2Fdcn%2F22%2F11-22-1578-01-0wng-coexistence-of-narrowband-frequency-hopping-nb-fh-systems-and-wi-fi.pptx&data=05%7C01%7Clei.wang1%40futurewei.com%7C1538d7ca7ea34a201c5408da95d53de9%7C0fee8ff2a3b240189c753a1d5591fedc%7C1%7C0%7C637987040355326756%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000%7C%7C%7C&sdata=4h2eaTG%2B%2F2dCmtAhb63Qj%2BI2PnJxwTde9FQ81g%2BEHpo%3D&reserved=0)

* + Jeff presented the contribution remotely
	+ Summary of Discussion
		- Questioned and discussed about total power vs power per MHz for different bandwidths on slide 9; clarified that, referring to slide 5, the total power is always -55 dBm, regardless of the bandwidth.
		- Suggested to have the discussion of this topic in 802.11 Coex SC, and also suggested to consider coexistence environment.
		- Discussed slide 6 about dwell time vs. Wi-Fi performance.
		- Clarified that rate adaptation is considered for the y-axis in the diagram on slide 6.
* Plans for November 2022:
	+ Call for contributions: WNG chair will issue a call for contributions before 802.11 interim meeting in November 2022.
* Any other business: none.
* Adjourned at 12:12pm Hawaii Time.