IEEE P802.11
Wireless LANs

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| Wireless Next Generation (WNG) Standing CommitteeMeeting Minutes for November-2023 Honolulu Hybrid Meeting |
| Date: November 14, 2023 |
| Author(s): |
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Abstract

Meeting Minutes for the WNG SC meeting held in mixed-mode with in-person meeting in Honolulu, Hawaii, USA, and with electronic meeting access, on November 14th, 2023.

**WNG Meeting: November 14th, 2023, 8:00am to 10:00am Honolulu Time**

Chair: Jim Lansford (FaraFir Consulting)

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

**Meeting Agenda:**

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

<https://mentor.ieee.org/802.11/dcn/23/11-23-1699-00-0wng-agenda-for-wng-sc-2023-november.pptx>

* Call Meeting to Order
* Agenda approval
* Attendance reminder
* Documentation reminder
* Announcements
* Approval of Previous meeting minutes
	+ Minutes from September 2023 WNG Meeting
* Presentations
	+ Tuesday 14 November 2023, 0800-1000 HST
* Plans for January 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 September:
		- <https://mentor.ieee.org/802.11/dcn/23/11-23-1595-00-0wng-wng-meeting-minutes-2023-september-atlanta-meeting.docx>
* Presentations
	+ “Multi-AP coordination over Fibre,” Tony Zeng (Huawei)
	+ “L4S (Low Latency, Low Loss, and Scalable Throughput),” Greg White (Cable Labs)
* Plans for January 2024
	+ Chair will make a call for presentations in advance
* Adjourn

**Meeting Minutes:**

* Chair called the meeting to order at 8:00am Honolulu time on Tuesday, November 14th, 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.
* Agenda approval:

<https://mentor.ieee.org/802.11/dcn/23/11-23-1699-00-0wng-agenda-for-wng-sc-2023-november.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-September 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-September WNG SC meeting minutes was approved by unanimous consent.
* Attendance:
	+ In the meeting room: ~ 112
	+ Webex attendance: 169
* Presentation #1: “Multi-AP coordination over Fibre,” Tony Zeng (Huawei)

<https://mentor.ieee.org/802.11/dcn/23/11-23-1186-01-0wng-multi-ap-coordination-over-fibre.pptx>

* + Yanchun Li presented the contribution in-person.
	+ Summary of Discussion
		- * none.
* Presentation #2: “L4S (Low Latency, Low Loss, and Scalable Throughput),” Greg White (Cable Labs)

<https://mentor.ieee.org/802.11/dcn/23/11-23-2065-00-0wng-l4s-and-implications-for-wi-fi.pptx>

* + Greg presented this contribution remotely via Webex.
	+ Summary of Discussion
		- * Suggested to emphasize more on what dot11 needs to do.
			* Discussed what are more meaningful for 802.11 at layer 2, queue management, scheduling, congestion control, etc.
			* Discussed that the AP has been seen as a bottleneck in lots of cases, e.g., in the setup as shown in Slide 18.
			* Discussed delays at Wi-Fi AP, access delays, EDCA queuing, buffering, etc. There are implementations of L4S in Wi-Fi. Implementations may not be the same as described in this contribution.
			* Explained that the implementation of L4S is really a cross-layer effort, with communications between layers, 2 and 4, even 3. The congestion indication is at Layer 3 header. Implementations are across layers, at Wi-Fi driver, while the queues are at layer 2.
			* Discussed on slide 23, some nodes with L4S, how to impact the whole system. As long as the bottle node marks the packets, it will help to handle congestion.
			* Discussed how to mark ECN in the bottleneck node. RFC 9331 provides some guidance. There are different congestion control implementations.
			* Commented how to take this forward, what are needed, next steps, if there is interest in this group, what’s real impact on 802.11 standards, this is happening in industry, we need to find out how to carry this forward, WNG SC could be the initial place to have discussions, at certain point, we need to find a way forward, e.g., TIG, SG, or Maintenance.
			* Commented that, regarding technically, it is possible to implement it in current 802.11, we need to look into what are the limits, what we can do better, e.g., dual queues; feedback provided by MAC, aspect of aggregation, etc.; hope to through N3 project, to identify the MAC changes, as discussed in slide 32.
			* WNG Chair encouraged the interested 802.11 members to contact the presenter, to discuss the scope and impact, and also connect to Prof. Roy, U. of Washington, regarding the N3 models.
* Plans for January 2024:
	+ Call for contributions: WNG chair will issue a call for contributions before 802.11 2024-January meeting.
* Any other business: none.
* Adjourned at 9:28am Honolulu Time.