IEEE P802.11  
Wireless LANs

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| Liaison communication to Wireless Broadband Alliance, E2E Wi-Fi QoS & L4S | | | | |
| Date: 2025-08-01 | | | | |
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Abstract

Liaison communication to Wireless Broadband Alliance, E2E Wi-Fi QoS & L4S

IEEE 802.11 WLAN Working Group  
DRAFT Liaison Communication

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| Source: | IEEE 802.11 Working Group[[1]](#footnote-1) | |
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| To: | Wireless Broadband Alliance, E2E Wi-Fi QoS & L4S | |
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| From: | Robert Stacey | Chair, IEEE 802.11 WLAN Working Group [robert.stacey@intel.com](mailto:robert.stacey@intel.com) |
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| Subject: | Liaison communication to Wireless Broadband Alliance, E2E Wi-Fi QoS & L4S | |
| Approval: | Approved by the IEEE 802.11 Working Group at IEEE 802.11 plenary meeting, Madrid, Spain, [date] | |

Dear WBA E2E Wi-Fi QoS & L4S project group,

Thank you for your Liaison Statement on Implementation Guidelines for Low Latency, Low Loss, and Scalable Throughput (L4S) in Wi-Fi Equipment, and providing opportunity to IEEE 802 LMSC to review and provide feedback on the document.

We note, as also noted in your document, that the integration of Low Latency, Low Loss, Scalable Throughput (L4S) into IEEE 802.11 environments raises some interesting discussion about the architectural and implementation aspects. These discussions naturally span multiple task groups and standing committees within the IEEE802.11 Working Group, including ARChitecture, REVisionmf, and the ongoing work within the IEEE 802.11bn Task Group.

The IEEE 802.11bn Task Group is actively pursuing enhancements to reduce latency in 802.11 networks. A key objective is to achieve at least a 25% reduction in latency at the 95th percentile compared to current Extremely High Throughput (EHT) MAC/PHY operations [2]. To meet this goal, the Task Group has approved several features aimed at minimizing media access delays—among them, the integration of L4S [3].

Importantly, the Task Group has also approved the creation of IEEE 802.11bn Draft 1.0 (D1.0), which contains the technical requirements and a mechanism necessary for the integration of L4S within the 802.11bn framework.

We welcome continued dialogue and value your insights and feedback.

Future meeting dates:

See: <http://www.ieee802.org/11/Meetings/Meeting_Plan.html> for Future meeting dates of the IEEE 802.11 Working Group

References

[1] [https://mentor.ieee.org/802.11/dcn/24/11-24-1617-00-0arc-overview-of-wba-l4s-implementationguidelines.pptx](https://mentor.ieee.org/802.11/dcn/24/11-24-1617-00-0arc-overview-of-wba-l4s-implementationguidelines.pptx%20)

[2] <https://development.standards.ieee.org/myproject-web/app#viewpar/14476/10639>

[3] [11-25/209r17](https://mentor.ieee.org/802.11/dcn/24/11-24-0209-17-00bn-specification-framework-for-tgbn.docx) Specification Framework for TGbn

Sincerely,

Robert Stacey

Chair, IEEE 802.11 WLAN Working Group

1. This document represents the views of the IEEE 802.11 Working Group,and does not necessarily represent a position of the IEEE, the IEEE Standards Association, or IEEE 802. [↑](#footnote-ref-1)