IEEE P802.11  
Wireless LANs

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| Draft liaison response to WFA re energy efficiency | | | | |
| Date: 2023-07-11 | | | | |
| Author(s): | | | | |
| Name | Affiliation | Address | Phone | email |
| Laurent Cariou | Intel |  |  |  |
|  |  |  |  |  |

Abstract

**Instructions for the preparation of a Liaison Communication from IEEE 802.11**

1. Prepare a submission for consideration by a subgroup of 802.11 using this template.
2. Insert the proposed text of the liaison replacing ‘[Content]’ below.
3. The secretary of the IEEE-SA standards board is copied on communications to government bodies (including the ITU) as described in the LMSC OM “Communications with government bodies”, and for statements to external bodies, per 5.1.3 of the IEEE-SA Standards Board Operations Manual, <http://standards.ieee.org/develop/policies/opman/sb_om.pdf> .”Statements to external bodies”.
4. Insert any discussion or rationale replacing ‘[Discussion and/or rationale can go here]’ below.
5. Prior to approval by the working group, post a clean version with all changes accepted
6. After approval by the working group, the WG chair will post a revision with the ‘[Discussion and/or rationale can go here]’ section deleted and the details related to approval filled in. This enables the WG chair to provide a link to the content of the liaison absent any content not intended for the recipients.

[Discussion and/or rationale can go here]

IEEE 802.11 WLAN Working Group  
DRAFT Liaison Communication

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| Source: | IEEE 802.11 Working Group[[1]](#footnote-1) | |
|  |  |  |
| To: | WFA – Operator Market Segment TG | Position, organization |
|  |  |
|  |  |  |
| CC: | [Konstantinos Karachalios | Secretary, IEEE-SA Standards Board Secretary, IEEE-SA Board of Governors [sasecretary@ieee.org](mailto:sasecretary@ieee.org) ] |
| Paul Nikolich | Chair, IEEE 802 LMSC [p.nikolich@ieee.org](mailto:p.nikolich@ieee.org) |
| Jon Rosdahl | Vice-chair, IEEE 802.11 WLAN Working Group [jrosdahl@ieee.org](mailto:jrosdahl@ieee.org) |
| Robert Stacey | Vice-chair, IEEE 802.11 WLAN Working Group [robert.stacey@intel.com](mailto:dorothy.stanley@hpe.com) |
| Laurent Cariou | Chair, IEEE 802.11UHR Study Group [laurent.cariou@intel.com](mailto:email@address.something) |
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|  |
| From: | Dorothy Stanley | Chair, IEEE 802.11 WLAN Working Group [dorothy.stanley@hpe.com](mailto:dorothy.stanley@hpe.com) |
|  |  |  |
| Subject: | Liaison communication reply to WFA regarding Energy efficiency measures to reduce Wi-Fi carbon footprint for Wi-Fi 8 | |
| Approval: | Approved by the IEEE 802.11 Working Group at IEEE 802.11 plenary meeting, Berlin, 07/12/2023 | |

Dear Operator Market Segment TG members,

Thank you for your letter highlighting the challenge you are facing regarding the target of achieving net zero carbon emissions by 2040. We acknowledge your request that improving IEEE 802.11 energy efficiency on both access point and client sides is considered as an objective within Ultra High Reliability project.

With this response, we inform you that, thanks to the inputs of some IEEE 802.11 members, especially some affiliated with various operators, this objective has already been captured in the IEEE 802.11bn PAR document (see [1]). Specifically, this is captured:

* In the scope of the project, where for the first time in the scope of IEEE 802.11 PARs, power save on AP side is considered:
  + *“This amendment provides a mechanism to reduce power consumptions for Access Point (AP) (including mobile AP) and improved Peer-to-Peer (P2P) operation compared to Extremely High Throughput MAC/PHY operation.”*
* In the need of the project
* In explanatory notes, where we further emphasize the following:
  + *“Power saving mechanisms also decrease the carbon footprint of WLAN technology, reduce greenhouse gas emissions, and conform to energy regulatory requirements worldwide. AP Power Save encompasses different scenarios, including periods of low utilization while minimizing the impact on the service.”*

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] “802.11bn revised PAR”, Laurent Cariou, 07/11/23, <https://mentor.ieee.org/802.11/dcn/23/11-23-1252-01-0uhr-802-11bn-revised-par.docx>

[2] “UHR draft proposed CSD”, Laurent Cariou, 07/11/23, <https://mentor.ieee.org/802.11/dcn/23/11-23-0079-06-0uhr-uhr-draft-proposed-csd.docx>

Sincerely,

Dorothy Stanley

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)