IEEE 802.11 WLAN Working Group Liaison Communication

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From: Dorothy Stanley — Chair, IEEE 802.11 WLAN Working Group
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Subject: IEEE 802.11 Working Group (WG) liaison communication reply to the ITU-T SG-20 Liaison Statement on the draft Technical Report ITU-T YSTR.Ambient IoT

Date: 2024-02-06

Dear Hyoung Jun and Marco,

Thank you for notifying the IEEE 802.11 WG about the commencement of the Ambient power-enabled (AMP) IoT study and the initiation of drafting the Technical Report titled "Analysis on requirements and use cases of ambient power-enabled IoT" within ITU-T Study Group 20. The inquiry in the liaison, recorded in https://mentor.ieee.org/802.11/dcn/23/11-23-1707-00-0000-liaison-from-itu-t-sg20-re-requirements-for-iot-ambient-power-devices.docx, is relevant to activities in IEEE 802.11 WG.

In response, we would like to update SG20 on the progress of the study of WLAN AMP IoT in the IEEE 802.11 WG, including the following activities:

- AMP Technical Interest Group (TIG): A TIG focused on AMP was established during the IEEE 802.11 meeting in May 2022. The goal of the AMP TIG was to develop a technical report on the topic of ambient power communications and technology that included use cases, requirements,

[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.

prototypes, and technical and economic feasibility analysis. The TIG concluded its work in March 2023 with a delivered AMP technical report [1].

- Following the TIG, the IEEE 802.11 AMP Study Group (SG) was formed in March 2023. The objective of the SG is to develop a Project Authorization Request (PAR) and Criteria for Standards Development (CSD) for an 802.11 standard project on WLAN AMP Communication. Discussions within the AMP SG cover aspects such as transmit and receive architectures, deployment topologies, and operational frequency bands.

  Based on work in the AMP SG, the AMP technical report has been further updated [2]. The PAR [3] and CSD [4] are under consideration for approval by the IEEE 802 LAN/MAN Standards Committee and the IEEE Standards Association Standards Board in March 2024.

The IEEE 802.11 WG would like to encourage reference to the AMP technical report [2] and its contents in the development of Technical Report ITU-T YSTR.Ambient IoT. We encourage ITU-T SG20 experts to engage in the AMP SG meetings and IEEE 802.11 future standardization efforts.

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. "Technical Report on support of AMP IoT devices in WLAN", 15 Mar. 2023, https://mentor.ieee.org/802.11/dcn/23/11-23-0436-00-0amp-technical-report-on-support-of-amp-iot-devices-in-wlan.docx .
2. "Technical Report on support of AMP IoT devices in WLAN", 15 Nov. 2023, https://mentor.ieee.org/802.11/dcn/23/11-23-2203-01-0amp-updated-technical-report-on-support-of-amp-iot-devices-in-wlan.docx .
3. IEEE 802.11 Ambient Power proposed amendment PAR, https://mentor.ieee.org/802.11/dcn/23/11-23-1006-05-0amp-ieee-802-11-amp-sg-proposed-par.docx .
4. IEEE 802.11 Ambient Power project proposed Criteria for Standards Development, https://mentor.ieee.org/802.11/dcn/23/11-23-1006-05-0amp-ieee-802-11-amp-sg-proposed-par.docx .

Sincerely,

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