IEEE P802.11
Wireless LANs

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| Draft LS Response to ITU-T SG20 LS on the draft Technical Report ITU-T YSTR.Ambient IoT |
| Date: 2024-01-16 |
| Author(s): |
| Name | Affiliation | Address | Phone | email |
| Yinan Qi | OPPO |  |  | v-qiyinan@oppo.com |
| Weijie Xu | OPPO |  |  |  |
| Bo Sun | Sanechips |  |  |  |

Abstract

Draft LS response to ITU-T SG20 LS on the draft Technical Report ITU-T YSTR.Ambient IoT. The activities related to AMbient Power-enabled (AMP) IoT conducted in 802.11 are captured.

r0 – First draft.

r1 – Second draft with editorial update

r2 – Comments during IEEE 802.11 interim meeting in Jan. 2024 captured

r3 – Word version with further comments captured

r4 – Fifth draft with editorial update

r5 – Sixth draft with editorial update

To: ITU-T SG-20
Hyoung Jun Kim SG20 Chairman, khj@etri.re.kr

CC:

Subject: IEEE 802.11 Working Group Reply to the ITU-T SG-20 Liaison Statement on the draft Technical Report ITU-T YSTR.Ambient IoT

Date: 2024-01-16

Thank you for notifying 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. IEEE 802.11 WG acknowledges the inquiry as in the liaison regarding relevant activities in IEEE 802.11 WG.

In response, we would like to update the progress of the study on AMP IoT for WLAN in IEEE 802.11, which has undergone the following phases:

* 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 is to incorporate an AMP technical report that encompasses use cases, requirements, prototypes, technical and economic feasibility analysis, and more. The TIG concluded its work during the IEEE 802.11 meeting in March 2023 with a delivered AMP technical report [1].
* Following the TIG, an AMP study group (SG) was formed in IEEE 802.11 meeting in March 2023. The objective of the SG is to develop Project Authorization Request (PAR) and Criteria for Standards Development (CSD) for a standard project on AMP Communication in WLAN. Discussions within the AMP SG cover aspects such as Tx/Rx architectures, deployment topologies, operation frequency bands, etc. Following the discussion in the AMP SG, the AMP technical report is further updated [2].

IEEE 802.11 WG would like to encourage reference to the AMP technical report [2] and its contents in the development of the Technical Report ITU-T YSTR.Ambient IoT. IEEE 802.11 WG welcomes ITU-T SG20 experts to engage in the AMP SG meetings and its 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”, Weijie Xu, Yinan Qi, etc., 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”, Weijie Xu, Yinan Qi, etc., 15 Nov. 2023, https://mentor.ieee.org/802.11/dcn/23/11-23-2203-00-0amp-updated-technical-report-on-support-of-amp-iot-devices-in-wlan.docx.