IEEE P802.11
Wireless LANs

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| Draft Technical Report on support of AMP IoT devices in WLAN |
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Abstract

This document is Technical Report on support AMP IoT devices in WLAN, which provides description on use cases, device types, functional requirements, technical feasibility and economic feasibility. Recommendations from AMP IoT TIG are outlined.

Revision History

r0 –July 08, 2022. skeleton of Technical Report on support AMP IoT devices in WLAN.

**Table of Contents**

# ****Introduction****

Note: Introduction of ambient power enabled IoT

# Use Cases

Note: describe the typical use cases for AMP IoT, e.g., IWSN, smart home, logistics/warehouse, agriculture etc.

# AMP IoT device type and functional requirements

Note: discuss possible IoT device type and corresponding functional requirements, e.g., support energy harvesting, operation band(s), backward compatibility and co-existence with legacy 802.11 technologies, power consumption requirement, KPI requirements (e.g., coverage/data rate) etc.

# Technical Feasibility

Note: discuss potential candidate techniques to fulfil the function requirements and aspects on feasibility including how to maintain backward compatibility and co-existence with legacy 802.11 devices, evaluation of link budget (for potential different IoT device types), impact on PHY and MAC etc.

# Economic Feasibility

Note: discuss the economic feasibility of AMP IoT.

# Summary and recommendations

# References