IEEE P802.11
Wireless LANs

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| Conference Call August 2022 IEEE 802.11 AMP TIG Session minutes  |
| Date: 2022-8-16 |
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Abstract

This document includes minutes of AMP TIG teleconferences in Aug 2022.

Version Tracking:

R0: Aug. 16th conference call minutes.

# Tuesday 16 August 2022 @ 10:00-12:00 am ET

## Opening (IEEE 802.11-22/1333r0)

* 1. The Chair call meeting to order 10:10 am ET (the teleconference was about 10 minutes’ delay due to tech issue).
	2. The Chair instructed members to record attendance in IMAT.
	3. The Chair introduced the patent policy and meeting rules (slides 2-8).
		+ No response to the call for potential patent claims.
	4. The Chair introduced IEEE-SA COPYRIGHT POLICY (slides 9-10)
	5. The Chair reviewed other Guidelines and Guideline for Straw Polls during AMP TIG Teleconference/E-meeting (slides 11-14).
	6. The Chair reviewed AMP-IoT Documents Submission list, and AMP session Agenda (slides 15-16).

## Agenda (IEEE 802.11-22/1333r0)

* 1. Chair presented the agenda: https://mentor.ieee.org/802.11/dcn/22/11-22-1333-00-0amp-amp-tig-tc-agenda-for-aug-2022.pptx. (Slide 16)
		+ Call meeting to order and remind the group to record attendance on imat.ieee.org
		+ IEEE-SA IPR policies and meeting rules
		+ Appoint executive Secretary – Zhisong Zuo (OPPO)
		+ Approval of agenda
		+ Contribution discussion
		+ Any other business?
		+ Recess
	2. No objection, Agenda approved.

## Contribution discussion

* 1. Presentation of IEEE 802.11-22/1294, Wireless Power Transmission and Energy Harvesting for IoT Applications, Boyce Bo Yang (Huawei):

(Q) : Slides 11 do you think the study on what kind of Capacitor would be needed in this phase? Even it is implementation issue, it may be useful.

(A): We just want to show the Capacitor is a doable means of power storage. Do not want to have deep study.

(Q):1.Have you considered other power sources?

2.For the case of sensing, you may need more power to drive. Will you consider other cases? (ID)

3.Slide 10, do you assume the power link is always on?

(A):1.Other power sources may not be so stable.

2.We did not consider much on ID case. We can see other contributions. we are not precluding them.

3.May not always on, On demand

(C): We should discuss other sources like solar.

(Chair Comment): We do not preclude other options in TIG study/report.

(C): Different power sources could be considered.

(Q): Why power consumption can only reduce tens of mWs.

(A): That may be feasible considering WiFi can have hundreds of mWs.

(Q): What frequency you want to deliver energy.

(A): May be hundreds MHz(900/700) preferred.

* 1. Presentation of IEEE 802. 11-22/1339, use cases of smart manufacturing, Shichao Zhao (Haier)

(Q): What is the problem when you use RFID

(A): Lot of Readers have to be deployed. Higher labor cost, close scanning of each TAG.

* 1. Presentation of IEEE 802. 11-22/1341, Use cases of Data Center Infrastructure Management, Harry Wang (Tencent)

(Q): We need consider link budget. AMP is power limited. You mentioned 200m coverage, how to fulfill it?

(A): We may break down the coverage to several segments, to make it feasible. We need identify that further.

(Q): The coverage would be 200m for AP, how to implement that?

(A): It may depend on situations, like power supply or cable deployment.

(Q): You consider the Reliability. Do you consider it in UHR?

(A): That could be considered, XR can also be supported by UHR.

(Q): Some of the requirement can be AMP related and some of them related to UHR. We can categorize them.

(A): Agree, we need to do that, to make different groups address them.

* 1. Straw poll-1 (11-22/1294): Do you agree that the AP should be capable of sending power signals to ambient power enabled IoT devices.
		+ Discussion: the SP was modified with one more option (Need more time to study) as requested.
		+ Result: 7Y/1N/12 Need more time to study/2A

(Note, the Chair asked to extend the TC for 2 minutes to complete the SP, and there’s no objection from the group.)

* 1. The presentation and discussion of 11-22/1338 (use cases of indoor positioning in shopping center, Yinan Qi (Oppo)) was deferred to next AMP TIG meeting.

## Closing

* 1. Chair adjourned the session at 12:02am ET.