IEEE P802.11
Wireless LANs

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| Draft LS from 802-11 to IEEE/IEEE 5G on the IEEE 5G Roadmap WP |
| Date: 2017-11-10 |
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Abstract

This document contains draft text for a liaison statement (LS) from IEEE 802.11 to the IEEE 5G committee on the recently published IEEE 5G and Beyond Technology Roadmap White Paper.

r1 – document after close of ANNI SC discussions during 7 November 2017 PM1 session, with inputs from Andrew Myles

r2 – document after editroal clean up by ANNI Chair and Roger Marks (with track changes on)

status

To: IEEE 5G Initiative, IEEE 5G and Beyond Roadmap Project

 Gerhard Fettweis - IEEE 5G Initiative Steering Committee Co-Chair

 Timothy Lee - IEEE 5G Initiative Steering Committee Co-Chair

 Harold Tepper – IEEE Future Directions Program Manager

 Micha Dohler – IEEE 5G and Beyond Roadmap Project Co-Chair

 Chi-Ming Chen – IEEE 5G and Beyond Roadmap Project Co-Chair

 Rose Q. Hu - IEEE 5G and Beyond Roadmap Project Co-Chair

CC: IEEE 802 EC

Subject: IEEE 802.11 Working Group Liaison Statement to the IEEE 5G committee on the recently published IEEE 5G and Beyond Technology Roadmap White Paper

Date: 2017-11-10

**Discussion:**

The IEEE 802.11 Working Group (WG) would like to share its concerns regarding the recently published IEEE 5G and Beyond Technology Roadmap White Paper [1].

The IEEE 802.11 WG has the understanding that the activities of the IEEE 5G Committee and its IEEE 5G and Beyond Roadmap Project Committee would consider all stakeholders and be SDO neutral. In the IEEE 802.11 WG’s opinion, the published White Paper does not meet these basic and essential goals. The published White Paper does not adequately represent 802.11 based technology, its planned role in 5G networks, nor its essential role in current and future networks. The widely accepted role of 802.11 based technologies as part of 5G is well illustrated in the recently published NGMN “5G End-to-End Architecture Framework” document, which states: *“Among non-3GPP access technologies to be supported by 5G RAN is the 802.11 family, including current 802.11 releases (e. g. 802.11 ac and 802.11 ad) along with future releases (e. g. 802.11ax and 802.11ay). The 5G system shall provide provisions that ensure seamless access point integration, user access and mobility/flow management for Wi-Fi access technologies.”*

The IEEE 5G and Beyond Technology Roadmap White Paper briefly mentions 802.11, in the context of the need to research how 3GPP can control the link:: *“Notably, one needs to research the architectural and protocol approach to have 3GPP act as a control channel/system for all wireless systems available globally. Going well beyond today’s licensed assisted access (LAA), cellular would be responsible to coordinate various IEEE 802.11™ “Wi-Fi®” and other systems to ensure best possible link performance while offering mobility/roaming, as well as billing.”* We believe that this understates the significance of the role of 802.11 technology will play in 5G and beyond networks.

The IEEE 802.11 WG suggests that the IEEE 5G and Beyond Technology Roadmap White Paper be revised to include a complete articulation of all 802.11 wireless technologies that are essential to 5G and Beyond networks. In addition, the IEEE 802.11 WG requests that it be made aware of the future work in developing the 5G and Beyond Road Map and that IEEE 802.11 WG participants be informed and engaged in the roadmap development. IEEE 802.11 invites the IEEE 5G and Beyond leadership to consider holding a roadmap meeting in conjunction with an 802 Plenary Meeting.

**Date of Next IEEE 802.11 WG Meetings:**

802 Interim – 14-19 January 2018 in Irvine, California, USA

802 Plenary – 4-9 March 2018 in Rosemont, Illinois, USA

802 Interim – 6-11 May 2018 in Warsaw, Poland

802 Plenary – 8-13 July 2018 San Diego, California, USA

Sincerely,

Adrian Stephens
IEEE 802.11 Working Group Chair

References:

1. [IEEE 5G AND BEYOND TECHNOLOGY ROADMAP WHITE PAPER](https://5g.ieee.org/images/files/pdf/ieee-5g-roadmap-white-paper.pdf)