IEEE P802.11  
Wireless LANs

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| Draft LS from 802.11 to 3GPP RAN Requesting Status and Information on Radio-Level Integration | | | | |
| Date: 2016-12-01 | | | | |
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Abstract

This document contains draft text for a liaison statement (LS) from IEEE 802.11 to 3GPP RAN TSG requesting RAN provide status and technical information on radio-level integration between 3GPP/NR and 802.11 system.

r1 – The draft was modified based on comments made during the AANI SC teleconference held   
on 1 December 2016, 10:00AM-11:00AM ET.

To: 3GPP RAN TSG

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CC: IEEE 802 EC, IEEE 802.1 WG

Subject: IEEE 802.11 Working Group Liaison Statement Requesting status and technical information on radio-level integration between 3GPP/NR and 802.11 system.

Date: 2016-12-01

**Discussion:**

The IEEE 802.11 Working Group (WG) thanks 3GPP RAN TSG for considering the liaison statement (LS) sent by the IEEE 802.11 WG on the 9th September 2016 (RP-161804) and deciding to pass it to the 3GPP PCG for further discussion on how the two groups can cooperate. As you are most likely aware, the 3GPP PCG Chairman responded to the IEEE 802 Chairman Paul Nikolich on 23 October 2016 thanking him for the 802.11 WG LS, stating “We believe the existing formal and informal processes are sufficient to achieve successful collaboration.”, and “3GPP looks forward to our continued discussions of potential enhancements to allow improved WLAN integration/aggregation.”. In addition the IEEE 802.11 WG also observed that the 3GPP RAN TSG indicated that “Technology-wise, from RAN point of view it is desirable to discuss radio-level integration between NR and 802.11 system” (SP-160704).

The IEEE 802.11 WG believes that discussions on the following topics may help improve the performance and utility of radio-level integration and aggregation:

* Throughput Metrics
* Throughput Measurements
* Flow Control
* Latency Metrics
* Measurement Accuracy
* ?????

[*AANI SC is currently seeking inputs to provide technical detail and additional topics of interest*]

Therefore IEEE 802.11WG would like to ask if the 3GPP RAN TSG can share any insight to their plans and time table regarding radio-level integration and aggregation between NR and 802.11 system and how the IEEE 802.11 WG can support the discussion.

**Actions:**

To 3GPP RAN TSG:

The IEEE 802.11 WG respectfully asks 3GPP RAN TSG to:

* Please provide some insight into 3GPP RAN TSG’s plans and time table for work regarding radio-level integration.
* Please provide the 3GPP RAN TSG’s opinion on the suitability and relative importance of technical discussion topics listed above.
* Provide suggestions of additional technical topics that 3GPP RAN TSG believes should be in technical discussions.

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

802 Plenary - 12-17 March 2017 in Vancouver, BC, Canada

802 Interim - 7-12 May 2017 in Daejeon, Korea

Sincerely,

Adrian Stephens  
IEEE 802.11 Working Group Chair

**References:**



**List of Abbreviations and Acronyms:**

3GPP – 3rd Generation Partnership Project

802.1 WG – Higher Layer LAN Protocols Working Group

802.11 WG – Wireless LAN Working Group

802 EC – LAN/MAN Standards Committee Executive Committee

eLWA - Enhanced LTE WLAN Aggregation

EPC – Evolved Packet Core

IEEE – Institute of Eclectic and Electronic Engineers

IMT-2020 – International Mobile Telecommunications System for 2020 and beyond

LAN – local area network

LWA – LTE WLAN Aggregation

LWIP – LTE WLAN Radio Level Integration with IPsec Tunnel

LTE – Long-Term Evolution

MAN – metropolitan area network

NBIFOM – Network based IP Flow Mobility

NR – New Radio

QoS – Quality of Service

RAN – Radio Access Network

RAT – Radio Access Technology

SA – Service and System Aspects

TSG – Technical Specifications Group

WG – Working Group

WI – Work Item

WLAN – wireless local area network