IEEE P802.11
Wireless LANs

|  |
| --- |
| Draft LS from 802.11 to 3GPP SA Requesting Status and Information on WLAN integration in 3GPP NextGen System |
| Date: 2016-12-01 |
| Author(s): |
| Name | Affiliation | Address | Phone | email |
| Joseph Levy | InterDigital Communications, Inc. | 2 Huntington Quadrangle 4th floor, South WingMelville, NY 11747 | +1.631.622.4139 | jslevy@ieee.org |
|  |  |  |  |  |
|  |  |  |  |  |

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.

r2 – The draft was updated to remove notes and provide some additional text.

status

To: 3GPP SA TSG

 3GPPliaison@etsi.org

 susanna.kooistra@3gpp.org – Liaison Coordinator

 Erik GUTTMAN – SA Chair, Maurice.Pope@etsi.org – SA Secretary

 <Add SA WG Chairs>

CC: IEEE 802 EC, IEEE 802.1 WG, <Chair and Secretary of RAN>

Subject: IEEE 802.11 Working Group Liaison Statement Requesting status and technical information on WLAN integration in 3GPP NextGen System.

Date: 2016-12-01

**Discussion:**

The IEEE 802.11 Working Group (WG) thanks 3GPP SA TSG for considering the liaison statement (LS) sent by the IEEE 802.11 WG on the 9th September 2016 (SP-160691) 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 SA TSG indicated that “SA considers it desirable to continue to improve 3GPP core network integration with WLAN” (SP-160706).

The IEEE 802.11 WG believes that discussions on the following topics may help improve the performance and utility of WLAN integration within the 3GPP core network of the NextGen System:

* Overall System Architecture
* Metrics and Measurements
* Flow Control
* Security
* Pre-Association Services
	+ Key management
	+ Broadcast Services
* Encapsulation and prioritization

The IEEE 802.11 WG also requests that 3GPP SA TSG provide additional topics that are of interest.

Therefore, IEEE 802.11WG would like to ask the 3GPP SA TSG to provide some insight to their plans and time table regarding improvement of 3GPP core network integration with WLAN.

**Actions:**

To 3GPP SA TSG:

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

* Please provide some insight into 3GPP SA TSG’s plans and time table for work regarding WLAN integration within the 3GPP core network of the NextGen System.
* Please provide the 3GPP SA TSG’s opinion on the suitability and relative importance of technical discussion topics listed above.
* Provide suggestions of additional technical topics that 3GPP SA TSG believes should be included in the 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:**

1.

**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