IEEE P802.11
Wireless LANs

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| AANI September 2019 Meeting Minutes |
| Date: 2019-07-18 |
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Abstract

Minutes from the AANI SC meetings held during the 802.11 WLAN Working Group Session on 15-20 September 2019, in Hanoi, Vietnam: Monday, 16 September PM2 (notes provided by Graham Smith) and Thursday, 19 September AM1 (notes provided the AANI SC Chair). Notes merged and edited into this document by Joseph Levy (InterDigital) AANI SC Chair.

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# Monday, 16 Sept 2019, PM2

**Administration:**

**Chair: Joseph LEVY, InterDigital**

**Secretary Acting: Graham Smith, SR Technologies.**

**Meeting called to order by the Chair 16:00 CET** (about15 persons in the room.)

**Meeting Agenda:**

The meeting agenda is shown below, and published in the agenda document: [11-19/1415R1](https://mentor.ieee.org/802.11/dcn/19/11-19-1022-01-AANI-aani-sc-agenda-july-2019.pptx)

**Monday – PM2**

1. **Call for Secretary**
2. **Administrative: Reminders, Rules, Guidelines, Resources, Participation, Approval of Minutes**
3. **Background/Status**
4. **Technical Discussion / Contributions**
	1. **11-19/1529 “Objective and scope of technical report on interworking between 5G core network and WLAN”**
	2. **Discussion on Interworking between IEEE 802.11 WLAN and 3GPP 5G Core Network Report**
	3. [**11-19/1628r0**](https://mentor.ieee.org/802.11/dcn/19/11-19-1628-00-AANI-itu-imt-2020-status-update.pptx) **“ITU IMT-2020 Status – Update”, Joseph Levy (InterDigital)**

The Chair call for a volunteer for secretary, Graham Smith volunteered.

The above agenda was reviewed.

No additional agenda items for Monday PM2 and the Agenda was approved with no objections.

The Chair reviewed the IEEE guidelines, resources, participation – slides 5,6,7 of [11-19/1415R1](https://mentor.ieee.org/802.11/dcn/19/11-19-1022-01-AANI-aani-sc-agenda-july-2019.pptx).

Minutes from the July 2019 Meeting in Vienna: [11-19/1338r0](https://mentor.ieee.org/802.11/dcn/19/11-19-0940-00-AANI-aani-may-2019-meeting-minutes.docx) were approved without comment or objection.

The Chair announced that the IEEE 802 IEEE 802.1 is meeting in Edinburgh 16-20 September (this week)

[Mon 2019-09-16, 18:00-21:30](https://www.timeanddate.com/worldclock/fixedtime.html?msg=Nendica+in+Edinburgh&iso=20190916T18&p1=304&ah=3&am=30) in Edinburgh

[Thu 2019-09-19, 10:00-12:00](https://www.timeanddate.com/worldclock/fixedtime.html?msg=Nendica+in+Edinburgh&iso=20190919T10&p1=304&ah=2) in Edinburgh – see below for WebEx information
(with connection to IEEE 802 Wireless Interim in Hanoi, Song Lo Room [Studio 5], Thu PM2)

draft [Agenda](https://1.ieee802.org/802-nendica/agenda-ieee-802-nendica-meeting/) for the Nendica September meeting

All Nendica documents available at: <https://mentor.ieee.org/802.1/documents>

Nendica meeting information available at: <https://1.ieee802.org/802-nendica/>

The Chair gave a quick review/background of AANI – slides 11-14 of [11-19/1415R1](https://mentor.ieee.org/802.11/dcn/19/11-19-1022-01-AANI-aani-sc-agenda-july-2019.pptx), including historical contributions.

**Contributions:**

1. **Continue discussion on** [**11-19/1160r1**](https://mentor.ieee.org/802.11/dcn/19/11-19-1160-01-AANI-proposal-on-interworking-between-ieee-802-11-wlan-and-3gpp-5g-core-network.pptx) **Proposal on Interworking between IEEE 802.11 WLAN and 3GPP 5G Core Network– Hyun Seo Oh (ETRI)**

[11-19/1529r1](https://mentor.ieee.org/802.11/dcn/19/11-19-1529-01-AANI-objective-and-scope-of-technical-report-on-interworking-between-5g-core-network-and-wlan.docx) was presented - “Objective and scope of technical report on interworking between 5G core network and WLAN”, Hyun Seo Oh (ETRI)

Clarifies what the scope of the report will be.

The Chair called for comments on the Gaps, holes etc. in related documents to enable 802.11 based devices to interface to 3GPP?

Q – Scope refers to Y2 interface and new functional entities, sounds like a specification rather than an interface? What is end goal?

A – We are not writing 3GPP related specification, we have only access to 802.11. Some implementations exist that interconnect. Most are proprietary. We have not looked at this and not suggesting that this standing committee writes anything but can recommend actions. 3GPP does specify signals.

Q – How do we make these decisions?

A –Would need to recommend a report to WG as a Motion. Nothing to stop individuals moving things forward. AANI could start it or it could be a TIG, for example. Task for AANI was to review the 3GPP Specifications and submit a report. This fits that. In our scope to report to 3GPP and to report to WG.

Q - But 3GPP is continuously developing?

AANI Chair - We are a Standing Committee, existing solely at the will of 802.11 Working Group Chair, hence the committee will only exist if the 802.11 Working Group Chair deemed the committee to be useful and accomplishing something. The committee will only exist if the 802.11 Working Group Chair considers there are enough people willing to do work in this area.

Q - Question on the diagram in the document on NWu and Y2. NWu is defined by 3GPP, what is meaning of other dotted lines. What is difference between dotted and solid elsewhere?

A - Control and data base. 3GPP define to edge of their entities.

Q – What are we expected to do?

A – 3GPP has defined the interfaces and allows others to design to be compatible, but 802.11 has not specified anything in this area of connecting/interfacing to the 3GPP core. Is there a role for 802.11? That is the question.

Q – What is the goal?

A – Write a report and recommend what should be done.

The AANI Chair asked, “Based on what is described here, how many would be interested in contributing to this effort?” One person raised their hand. Chair opined that if no more are willing to participate then this subject may be dropped from the agenda.

[11-19/1628r0](https://mentor.ieee.org/802.11/dcn/19/11-19-1628-00-AANI-itu-imt-2020-status-update.pptx) “ITU IMT-2020 Status – Update”, Joseph Levy (InterDigital)
Joseph Levy presented 19/1628r0.

Six “groups” submitted proposal documents to ITU-R WP 5D and three were accepted as complete.

Remaining 3 allowed to provide additional information until Sept 10. 3GPP submitted 2 proposals (making it 7 proposals) but Chair counted them as one???

Update on Press release. Slide 16 of [11-19/1415R1](https://mentor.ieee.org/802.11/dcn/19/11-19-1022-01-AANI-aani-sc-agenda-july-2019.pptx)

SMEs submitted to IEEE Staff but nothing received back yet.

There being no more business for this session:

**The Chair recessed the meeting at 5pm ICT.**

# Thursday, 19 Sept 2019, AM1

**Administration:**

**Chair: Joseph LEVY, InterDigital**

**Secretary Acting: The Chair**

**Meeting called to order by the Chair 08:00 ICT**

**Meeting Agenda:**

The meeting agenda is shown below, and published in the agenda document: [11-19/1415R2](https://mentor.ieee.org/802.11/dcn/19/11-19-1022-02-AANI-aani-sc-agenda-july-2019.pptx) slide 4.

1. Call for Secretary
2. Administrative: Reminders, Rules, Guidelines, Resources, Participation
3. Continuation of Technical Discussion / Contributions
	1. 11-19/1522 “Simulation Evaluation of 802.11ax for IMT-2020 eMBB Dense Urban Scenario”
	2. 1-19/0063r0 “IEEE 802 “*Network Enhancements for the Next Decade*”
	Industry Connections Activity (Nendica): Status Report”
4. Future Sessions Planning

The Chair asks for someone to be secretary, no one was forthcoming – in the interest of moving forward the Chair agreed to take minutes.

The Chair reviewed through slide 3 – Reminders and Rules.

The Chair reviewed the agenda for the session on slide 4 of [11-19/1415R2](https://mentor.ieee.org/802.11/dcn/19/11-19-1022-02-AANI-aani-sc-agenda-july-2019.pptx), called for additions or modifications, there were none. The agenda was accepted without objection.

The Chair reviewed [11-19/1415R2](https://mentor.ieee.org/802.11/dcn/19/11-19-1022-02-AANI-aani-sc-agenda-july-2019.pptx) slides 6-8, covering Guidelines for IEEE-SA meetings, links to relevant sources, and Participation in IEEE 802 meetings.

**Technical Discussion / Contributions:**

11-19/1522 “Simulation Evaluation of 802.11ax for IMT-2020 eMBB Dense Urban Scenario”

Presented by Dorothy Stanley.

This presentation provided preliminary simulation results for 802.11ax performance, the simulation used the wrong topology, 4 GHz simulation used macro/micro cell A, not C as was planned.

There was some discussion on what to do with this contribution. It was suggested that it could be used to support the press release.

It was noted that 70 kmph – typo – should 30 kmph i.e.: 80% at 3kmph and 20% at 30kmph

What is the assumption regarding association.

Q – How does this relate to the press release – is this going to the ITU?

A – this may be part of the source material for the press release. I am constantly getting questions regarding why we haven’t submitted to IMT 2020. The answer is that IMT-2020 is for cellular operation and licensed IMT spectrum. So, there is no intent to submit to ITU-R.

An updated contribution is expected in November

1-19/0063r0 “IEEE 802 “*Network Enhancements for the Next Decade*” Industry Connections Activity (Nendica): Status Report”

The AANI Chair presented these update slides.

**Future session planning**

The Chair indicates that the group is contribution driven and that it will meet again in November during the 802.11 F2F meeting at the Hilton Waikoloa Village, Kona, HI,USA. The Chair briefly review topics of interest for the AANI Standing Committee.

**Having exhausted the agenda, the meeting adjourned at 9:15 am ICT.**

**References:**