IEEE P802.11  
Wireless LANs

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| AANI January 2019 Meeting Minutes | | | | |
| Date: 2018-11-12 | | | | |
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**Abstract**

This document contains the [draft] minutes of the IEEE 802.11 AANI SC meeting held on 17th January 2019, in St Louis MO USA

**Chair: Joseph Levy (InterDigital)**

**Vice Chair: open**

**Secretary: Graham Smith (SR Technologies) – acting – position is open**

The Chair called the meeting to order at 8:07 CT. Standing Committee, anyone in the room can vote.

Vice Chair and Secretary positions are open.

**Agenda**

Agenda in doc: [11-18/2108r0](https://mentor.ieee.org/802.11/dcn/18/11-18-1721-02-AANI-aani-sc-agenda-november-2018.pptx)

1. **Call for Secretary**
2. **Administrative: Reminders, Rules, Guidelines, Resources, Participation, Approval of Minutes**
3. **Background/Status**
   1. Liaison Statement history
   2. Status: WLAN integration in 3GPP NextGen System
   3. Status: 802.11ax performance relative to the IMT-2020 EMBB requirements
   4. Report on Liaison Statement
4. **Nendica – Update – Roger Marks** 802.1-19-00005-0101Cne
5. **Discussion / Contributions**
   1. 802.11 technical performance relative to IMT-2020 requirements 19/0193r0
6. **Future Sessions Planning**

No objections to approve Agenda Doc: [11-18/2108r](https://mentor.ieee.org/802.11/dcn/18/11-18-1721-02-AANI-aani-sc-agenda-november-2018.pptx)1. Agenda approved.

**Guidelines**

Chair went through the Guidelines, Resources, Participation slides.

**Minutes**

Approve Doc [11-18/2051r0](https://mentor.ieee.org/802.11/dcn/18/11-18-1633-01-AANI-aani-september-2018-meeting-minutes.docx) Nov 2018 AANI meeting minutes

No matters arising from the minutes

No objection to approve the meeting minutes. Minutes approved

**Discussion**

Chair reviewed slide 9, 10 and 11 [11-18/2108r1](https://mentor.ieee.org/802.11/dcn/18/11-18-1721-02-AANI-aani-sc-agenda-november-2018.pptx) on AANI Background.

* Nothing to report or contact SA on.
* Work ongoing for 11ax performance relative to IMT-202 EMBB requirements.

Chair reviewed slide 12 Report on Liaison to 3GPP

* Sent to RAN and SA
* Both documents taken and “noted” by 3GPP

Q – how does this relate to coexistence and 3GPP?

A – Will not duplicate coexistence group work. Participation welcome.

**NENDICA** Status Report update.

Chair referred to slide 13

Roger Marks (NENDICA Chair) presented Overview 802.1-19-00005-0101Cne

Agreed to renew ICAID

Flexible IoT still in progress. Draft targeted before March session

**Discussion on** 802.11ax technical performance relative to IMT-2020 requirements**:**

* 19/0193r– “**Evaluation procedure for IMT-2020 eMBB Dense Urban**”

**Presented by:** Sindhu Verna (Broadcom)

This presentation details the requirements for benchmarking of 802.11ax vis-à-vis the IMT-2020 requirements for EMBB Dense Urban test environment

**Q** – Topology is cellular like, how relevant to Wi-Fi?

**A** – This is the specified topology. Outdoor hotspots are deployed. It is somewhat realistic and 11ax can be used. Macro and microcells. Three scenarios with combinations of macro and micro. Only macro layer used in evaluations – configuration A

**Slide 15** is “summary analytical evaluations for EMBB Dense Urban”, simulations need to confirm these results. The analytical results show that 11ax should meet the requirements.

Four outstanding metrics (Metrics 3, 4, 5, and 6 on Slide 15)

**Q** – ballpark effort required to carry out this work?

**A** – about 2 – 3 months with support being supplied by the authors of this presentation.

**There is a request for additional support to complete this work. Authors do not have bandwidth to complete themselves. Also felt that work should be shared.**

**Q** – We did it for indoor hotspot and sent to 3GPP, and others, but what are we really going to do with this report.

**A** – Reports were only “noted”, a reply should be sought.

**Q** – What are we realistically expecting.

**A** – What we want is 3GPP integrate 11ax into their 5G networks. Let it be known that 5G licensed network with 11ax

**Q** – maybe be more direct – in the nicest way

**A** – WG decisions. 3GPP is entity based, companies that are members of 3GPP are required to be willing to do responses. Work and responses from a corporate perspective of member 3GPP required. Then consensus required

**Q** – Could we write the response we want to receive?

**A** – Need a co-operative company. In IEEE we are all individuals. Need a corporate entity to attend and willing to make the responses.

**Q** – Could we have a very succinct summary that would have big impact. Almost a marketing summary

**A** – Summary was sent to 3GPP. There was a pushback for a marketing type summary.

**Q** – How would 3GPP show that these results have been accepted. What about 4 slides that really made the message that 11ax meets 5G.

**A** – Refer to slide 10 of agenda. Exchange with SA outlining what they were doing. Overview generated. How does 802.11 fit in and how SA have defined it. There have been no contributions or technical discussion on how the SA specified interface will work with 802.11. The detailed specs from 3GPP are available and some proprietary products will be supplied, as they were for previous 3GPP interfaces. We, 802.11, have not reviewed/discussed these specs. Potential for doing work in this area is there but no contributions are forthcoming.

* Our goal is that 11ax be used as part of 5G. Proprietary interfaces are fine and we don’t really care. They will make it work.
* Could argue that is case today. Will it continue?

**Q** - IEEE could send a self-evaluation directly to IMT. Then would be sent to external entities that could confirm the evaluation. Could be a feasible approach. Barriers to entry are lower than dealing direct with 3GPP.

**A** – There has been pushback in the past to doing this.

**Q** – when is deadline

**A** – There is no deadline for publicity. To submit to IMT 2020 June or July is the deadline. *[IMT-2020 proposals are due by the July 2019 ITU-R WP 5D meeting (9-17 July 2019), contribution to the meeting are due 7 calendar days (16:00 UTC) prior to the start of the meeting – therefore the ITU deadline is 2 July 2019 (16:00 UTC)]*[[1]](#footnote-1)

**Q** – Consider a press release of work so far?

**A** – Previously no consensus to do this. One faction against. Maybe after completion a complete set of evaluation results a statement could be made.

Any Additional Topics?

None

**Topics for Contribution Slide 15 of 18/2108r1**

**Future Planning as per slide 16 of** [**11-18/2108r**](https://mentor.ieee.org/802.11/dcn/18/11-18-1721-02-AANI-aani-sc-agenda-november-2018.pptx)**1:**

**Teleconference:**

As required with 10 days’ notification

**10-16 March 2019, Hyatt Regency Vancouver and Fairmont Hotel Vancouver, Vancouver, Canada**

**The AANI SC is contribution driven, contributions are requested:**

* 1. Technical and discussion contributions on 802.11 technical performance relative to IMT-2020 requirements.
  2. Technical and discussion contributions on interworking/integration of 802.11 with the 3GPP Next Generation System:
  3. In support of 802.1 Nendica

*Note: IMT-2020 proposals are due June 2019*

Meeting time requested: 1 session – Monday PM2 (TMC)

**Chair called for contributions**

**Chair asked if any input from this group required for Co-existence SG?**

One attendee willing to work on Press Release

Also, an attendee willing to work on slides?

**Agreed Action: Include in Closing Report call for willing participants to support the simulation activity to contact Sindhu by mid Feb. Multiple participants would be welcome. Note that Sindhu has offered assistance with tools etc.**

Evaluation groups could be contacted directly.

**No other business**

End of Agenda

Without objection, the Chair adjourned at 10.40am CT.

1. Provide by the Chair post meeting. [↑](#footnote-ref-1)