IEEE P802.11  
Wireless LANs

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| AANI Conference Call Minutes | | | |
| Date: 2017-12-04 | | | |
| Author(s): | | | |
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**Abstract**

This document contains the minutes of the IEEE 802.11 AANI conference call held on 12/04/2017.

**Chair: Joseph Levy, InterDigital**

**Vice Chair: Roger Marks, EthAirNet Associates**

**Meeting Secretary: Sigurd Schelstraete, Quantenna Communications**

**Participants** (as recorded from joinme – list may be incomplete)

Joe Levy (Interdigital)

Sigurd Schelstraete (Quantenna)

Sungeun Lee (Cypress)

Thomas Derham (Broadcom)

Sunir Ramakrishna (PHAZR)

Amelia Andersdotter (Article19)

Sudhir (?)

George Calcev (Huawei)

Hassan Yaghoobi (Intel)

Necati Canpolat (intel)

Paul Nikolich

Song An

Sue Leicht (NSA)

Tim Jeffries

And a number of anonymous callers …

**Meeting minutes**

The Chair called the meeting to order at 11:00AM EDT.

The agenda document is: <https://mentor.ieee.org/802.11/dcn/17/11-17-1835-01-AANI-aani-sc-agenda-04-december-2017-teleconference.pptx>

The proposed agenda was approved without objection

Patent policy was reviewed.

Participation guidelines were reviewed.

The chair provided a quick recap of the group’s objectives: the goal is to draft a submission to WP 5D. To have this approved by the EC, a draft document has to be generated prior to Jan 24.

Two submissions were submitted for the call:

1. [11-17/1821r0](https://mentor.ieee.org/802.11/dcn/17/11-17-1821-00-AANI-imt-2020-requirements-deep-dive-part-1-mobility.pptx) - IMT-2020 Requirements Deep Dive - Part 1 – Mobility - Rakesh Taori (PHAZR)
2. [11-17/1836r0](https://mentor.ieee.org/802.11/dcn/17/11-17-1836-00-AANI-draft-for-itu-r-submission.pptx) - Draft for ITU-R Submission - Rakesh Taori (PHAZR)

**11-17/1821r0 - IMT-2020 Requirements Deep Dive - Part 1 – Mobility - Rakesh Taori (PHAZR)**

Presented by Sunir Ramakrishna

The submission reviews the requirements for submitting a RIT to IMT-2020. The focus of this particular submission is to develop some intuition for the effects of Doppler on 11ac waveform, using ITU channel models (as described in M2134). This is a first-level analysis - more detailed work is still needed.

The submission analyses the correlation of the channel coefficients over time for various channel models (three NLoS models and one LoS model + NLoS) and speeds. Results are presented for 700 MHz, 4 GHz and 30 GHz. It is shown that short Wi-Fi packets (05 – 0.75 msec) have a correlation threshold of 0.5 or above, which is deemed acceptable.

Q&A:

There is a question on the threshold of 0.5. This appears to be a standard threshold in literature. To evaluate the performance loss at this value of correlation, further analysis is needed.

[**11-17/1836r0**](https://mentor.ieee.org/802.11/dcn/17/11-17-1836-00-AANI-draft-for-itu-r-submission.pptx) **- Draft for ITU-R Submission - Rakesh Taori (PHAZR)**

Presented by Joe Levy.

This presentation provides a skeleton for a presentation to ITU, similar to the presentations made by 3 GPP and DECT during the IMT-2020 workshop.

The following outline is proposed:

* Statement of intent
  + RIT or SRIT?
* Proposal overview
* Configuration choice
  + Which test configuration to choose for the various usage scenarios/test environments
* Timeline
  + Similar to 3GPP, including some intermediate milestones
* Requirements
* Comparison of wave forms

The chair asks whether this good outline for the document intended for the WG. There are no comments.

Rakesh is willing to lead the effort. People are invited to contact him directly or via reflector.

The chair mentions an email exchange that suggest using publicly available 802.11 presentation material to describe the operation of 802.11 to ITU. The chair briefly reviews the material and agrees that part of this may be included in the final presentation to the WG.

The chair reminds the group that we are continuing to seek volunteers. The short-term goal now is a presentation rather than finalized templates. We need to provide an agreed AANI SC document to 802.18 at end of 12/18 conference call.

At the same time, the chair believes that we have to start to look at other documents (i.e. templates). This work doesn’t have to be ready at end of F2F, but should be started. Paul Nikolich asks about intermediate steps between Jan 2018 and June 2019. A more fine-grained schedule will help understand the workload better. It is suggested to start work with a focus on indoor hotspot. This looks like a natural environment for Wi-Fi. However, volunteers are needed to finalized the work.

The chair adjourns the meeting at noon EDT.