IEEE P802.11  
Wireless LANs

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| AANI SC Teleconference 25 May 2021 Minutes | | | | |
| Date: 2021-05-25 | | | | |
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Abstract

This document contains the minutes of the IEEE 802.11 AANI SC teleconference held on 25 May 2021, 9:00-10:00 h ET.

Note: Highlighted text are action items.

Q- proceeds a question asked at the meeting

A- proceeds an answer given by the presenter

C- proceeds a comment

r1: Added attendance.

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# Tuesday 25 May 2021, 9:00 – 10:00 h ET:

**Chair: Joseph Levy, InterDigital**

**Acting Secretary: Graham Smith**

1. **The teleconference was called to order by Chair 9:03 h ET,**

Graham Smith (SRT) volunteered to be acting secretary.

Agenda slide deck [11-21/0848r0](https://mentor.ieee.org/802.11/dcn/21/11-21-0848-00-AANI-aani-sc-teleconference-agenda-25-may-2021.pptx)

1. **The Chair reminded everyone to sign attendance and reminded attendees of the AANI Operating rules.**

See attendance list at the bottom of this document.

1. **Approval of the Agenda:**

**Tuesday 25 May 2021 9:00-10:00 h ET**

* 1. Call for Secretary
  2. Administrative: Reminders, Rules, Guidelines, Resources, Participation [5 min]
  3. Status [5 min.]
  4. Contributions/Discussion:
     1. Technical Discussion ???
     2. [11-21/0865r0](https://mentor.ieee.org/802.11/dcn/21/11-21-0865-00-AANI-draft-reply-ls-from-802-11-to-wba-regarding-the-wba-5g-wi-fi-ran-convergence-paper.docx) “Draft Reply LS from 802.11 to WBA regarding the WBA 5G & Wi-Fi RAN Convergence Paper”, Joseph Levy (InterDigital)
  5. Future Session Planning

The Chair reviewed the agenda. The proposed agenda was adopted without objection.

1. **Guidelines, Resources, Policies and Participation were presented by the chair.**

Slides 5 – 9 of [11-21/0848r0](https://mentor.ieee.org/802.11/dcn/21/11-21-0848-00-AANI-aani-sc-teleconference-agenda-25-may-2021.pptx)

Copyright policy slides were presented, slides 7 and 8

1. **AANI SC Status/Activity**

The Chair reviewed Slides 10 – 13 – reviewing the status and recent activity of the AANI SC.

1. **Technical Discussion on QoS, applicable material**

The Chair called for comments/discussion on slide 12 of [11-21/0848r0](https://mentor.ieee.org/802.11/dcn/21/11-21-0848-00-AANI-aani-sc-teleconference-agenda-25-may-2021.pptx) on Features that can be used to improve QoS.

1. **Technical Discussion on the Technical Report:**

The Chair called for comments/discussion on the way forward on the Technical Report.

C - Reviewed and excel sheet distributed and received comments. Text updated, will present at next meeting.

C – Structure of TE and links. Needs review and technical expertise input. Meeting times are often inconvenient.

1. [**11-21/0865r0**](https://mentor.ieee.org/802.11/dcn/21/11-21-0865-00-AANI-draft-reply-ls-from-802-11-to-wba-regarding-the-wba-5g-wi-fi-ran-convergence-paper.docx) **“Draft Reply LS from 802.11 to WBA regarding the WBA 5G & Wi-Fi RAN Convergence Paper”, Joseph Levy (InterDigital)**

This document was posted during the 802.11 May Interim. The following is a summary of the discussion:

To WBA. Reply to original liaison statement from WBA

Highlights challenges and gaps in 5 key areas

802.11 only provides MAC layer and PHY. There are tools and knobs however which can be used to address these issues.

All affected by capabilities of MAC. Depends on how they are implemented. Then moving up to next layer, how does network use these features. e.g., 802.11 allows control on number of STAs on an AP. But to do so is not in the Spec, but the tool is there. Needed for end-to-end QoS. Similar to 3GPP.

Yes, but we do have Annexes that do/could explain how to do these things.

Informative annexes so not part of requirements of Standard. Can make statement that tools are there. Could spell out that implementations can use features.

Maybe too straightforward a statement and could be massaged to spin better

Agree maybe too negative. Can speak more highly of 802.11. Note added to capture this.

Should we incorporate the features from the 11ax features list, or wait until more fleshed out.

Will they change, need more text?

Will try to flesh the list out. If nothing else use as placeholders in document. Could prepare separate document to describe QoS better, but only if others will support.

Should we supply references to the features?

Better to map each QoS feature to address specific 3GPP parameters. e.g., Packet loss budget, general mapping between 802.11 feature and 3GPP matrix.

Not sure how to do that without recommending an implementation. Features can be used for different flows/scheduler. Can handle several parallel voice calls, various trigger frame set up scheduler to do this is not specified. But yes, this is what 3GPP is looking for. Very vendor specific. Not sure how to do what you are asking.

We need to provide brief description of feature and description of how it can be used.

A high level guideline?

Would you like to take a high level cut at that? Yes

UEs are under tighter control than stations in an 802.11 network. Voice and video do work.

Many video and audio “boxes” with Wi-Fi, they work. Numerous applications.

Is anybody doing implementations willing to talk about it? May be some special scheduling etc.?

Will this make any difference? If we do not answer correctly will devices stop falling back or switching to Wi-Fi at the earliest opportunity? Don’t think so.

Must note that Wi-Fi is controlled more by WFA. Also Trusted access, what type of infrastructure in connected i.e., is QoS implemented?

Higher layer management function is not scope for 802.11. Does liaison statement include or not? Should it be included or not?

Having added all these features, we never state how to use them.

Do we want to consider defining an architecture, should we define the interface we need to consider convergence from our side?

1. **Future Session Planning**

The Chair briefly reviewed slide 15 of [11-21/0848r0](https://mentor.ieee.org/802.11/dcn/21/11-21-0848-00-AANI-aani-sc-teleconference-agenda-25-may-2021.pptx).

* The next AANI SC teleconference is scheduled for Tuesday 8 June 2021 @ 9:00-10:00 h ET (13:00-14:00 h UTC).

Email discussion on the AANI SC email reflector and contributions are requested (please notify the Chair of any planned contributions).

1. **The meeting adjourned at 10:02 h ET.**
2. **Attendance**

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| --- | --- |
| **Name** | **Affiliation** |
| Fang, Yonggang | MediaTek Inc. |
| Ho, Hyun Seo\* | ETRI |
| Joh, Hanjin | KT Corp. |
| Levy, Joseph | InterDigital, Inc. |
| Rosdahl, Jon | Qualcomm Technologies, Inc. |
| Smith, Graham | SR Technologies |
| Wang, Hao | Tencent |
| Wang, Jiansong\* | Facebook |
| Wilhelmsson, Leif | Ericsson AB |

\*Not provided by IMAT – noted in WebEx chat

**References:**