IEEE P802.11
Wireless LANs

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| AANI SC Meeting Minutes May 2021 - Interim |
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Abstract

This document contains the minutes of the IEEE 802.11 AANI SC teleconference held on 11 May 2021, 11:15-13:15 h ET, 12 May 2021 19:00-21:00 h ET, 13 May 2021 11:15-13:15 h ET, 17 March 2021 19:00-21:00 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

r0: Draft minutes from Tuesday 11 May 2021.

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# Tuesday 11 May 2021, 11:15 h ET:

**Chair: Joseph LEVY, InterDigital**

**Acting Secretary: Ganesh VENKATESAN, Intel**

1. **The teleconference was called to order by Chair 11:15 hrs. EDT,**

Ganesh VENKATESAN (Intel) volunteered to be acting secretary.

Agenda slide deck [11-21/0640r0](https://mentor.ieee.org/802.11/dcn/21/11-21-0640-00-AANI-aani-sc-agenda-may-2021-interim.pptx)

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

**3. Approval of the Agenda(s):**

**Tuesday 11 May 2021 11:15-13:15 h ET**

* 1. Call for Secretary
	2. Administrative: Reminders, Rules, Guidelines, Resources, Participation, Approval of Minutes [10 min]
	3. Status [10 min.]
	4. Contributions/Discussion:
		1. [11-21/0751r0](https://mentor.ieee.org/802.11/dcn/21/11-21-0751-00-AANI-comments-on-draft-technical-report.docx) “Comments on draft technical report”, Robert Stacey (Intel)
		2. Discussion on way forward on the technical report
		3. Contributions related to the WBA LS

**Wednesday 12 May 2021 19:00-21:00 h ET**

* 1. Call for Secretary
	2. Administrative: Reminders, Rules, Guidelines, Resources, Participation [10 min]
	3. Status [5 min.]
	4. Contributions/Discussion:
		1. [11-20/0013r12](https://mentor.ieee.org/802.11/dcn/21/11-21-0751-00-AANI-comments-on-draft-technical-report.docx) “Draft technical report on interworking between 3GPP 5G network & WLAN”, Hyun Seo Oh (ETRI)

**Thursday 13 May 2021 11:15-13:15 h ET**

* 1. Call for Secretary
	2. Administrative: Reminders, Rules, Guidelines, Resources, Participation [10 min]
	3. Status [5 min.]
	4. Contributions/Discussion:
		1. Contributions related to the WBA LS
		2. Contributions related to the technical report

**Monday 17 May 2021 19:00-21:00 h ET**

* 1. Call for Secretary
	2. Administrative: Reminders, Rules, Guidelines, Resources, Participation [10 min]
	3. Status [5 min.]
	4. Contributions/Discussion
	5. Future Sessions Planning [10 min.]

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

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

Slides 6 – 10 of [11-21/0640r0](https://mentor.ieee.org/802.11/dcn/21/11-21-0640-00-AANI-aani-sc-agenda-may-2021-interim.pptx)

Reviewing: Guidelines for IEEE-SA Meetings, the IEEE SA Copyright Policy, and Participation Guidelines.

1. **Approval of Minutes**

**Minutes from the March 2021 Plenary Telecons:**

[**11-21/0521r0**](https://mentor.ieee.org/802.11/dcn/21/11-21-0521-00-AANI-aani-sc-teleconference-minutes-march-2021-plenary.docx)“AANI SC Teleconference Minutes March 2021 - plenary”

Chair called for any Comments or objections? none

Minutes approved without objection.

[11-21/0604r0](https://mentor.ieee.org/802.11/dcn/21/11-21-0604-00-AANI-aani-sc-teleconference-06-apr-2020-meeting-minutes.docx) “AANI SC Teleconference 06 Apr 2021 Meeting Minutes”

[11-21/0764r0](https://mentor.ieee.org/802.11/dcn/21/11-21-0764-00-AANI-aani-sc-teleconference-06-apr-2020-meeting-minutes.docx) “AANI SC teleconference Minutes 28 April 2021”

Chair called for any Comments or objections? none

Minutes approved without objection.

1. **Status on Proposal on Interworking**

Chair went through Slides 12 and 13 of [11-21/0640r0](https://mentor.ieee.org/802.11/dcn/21/11-21-0640-00-AANI-aani-sc-agenda-may-2021-interim.pptx) reviewing the status of

The **"Draft technical report on interworking between 3GPP 5G network and WLAN"** [11-20/0013r12](https://mentor.ieee.org/802.11/dcn/20/11-20-0013-12-AANI-draft-technical-report-on-interworking-between-3gpp-5g-network-wlan.docx) and the work related to the WBA Report an LS [11-21-0170r0](https://mentor.ieee.org/802.11/dcn/21/11-21-0170-00-0000-2021-jan-liaison-from-wba-re-convergence.docx).

1. **Interworking Technical Report Contribution:**[**11-21/0751r0**](https://mentor.ieee.org/802.11/dcn/21/11-21-0751-00-AANI-comments-on-draft-technical-report.docx) **“Comments on draft technical report”, Robert Stacey (Intel)**

--comments on the introductory section

objective is vague does not clearly callout what the intent is. The report is an overview describing how 802.11 interworks with 3GPP.

-- terminology concerns

Terminal is what is referred to in 802.11 domain as STA plus additional higher layer functions. UE and TE are synonymous (does not requires WLAN and 3GPP radio, presence of either is good enough) in the context of the report.

C: UE in 3GPP implies that the device is aware of signalling needed to access the 3GPP core network.

A: That distinction should be called out in the report (not that an UE includes 3GPP and 802.11 Radio versus TE only includes a 802.11 Radio)

C: Agree that the report should clarify that distinction.

3GPP Access netork in Figure-3 is not relevant (and should be removed)

Same comment to Figure-4

Section-4 discusses access to the core network via wireless LAN (and not interworking) -- should be reworked to describe the 2-phase access to the core network over wireless LAN.

-- concerns related to the conclusion

Need to callout where/how the new functional entities and signalling procedures are identified.

The only way to access a WLAN network is by scanning and subsequent association -- why is this a recommendation?

R8 and R9 are interfaces defined in 802.1CF and are not WLAN interfaces

What is the way forward?

the chair called for volunteers to take the comments and address them in a future version of the report

C: Agree that the comments are valid and need to be addressed.

C: overview of the technical report

A: merge 2.1 and the text in Introduction and title it as Overview.

C: Section 3 Intervworking model UE is from the 3GPP and TE is from 802.1

A: Based on earlier discussion CE/TE distinction is really about the presence or absence of higher layer protocol support for 3GPP core network

C: Scope of this report should be limited to interworking and not about mechanisms for access to core network

C: is Figure-2 OK?

A: Access Network portion of the figure is irrelevant. But more importantly UE/TE definitions are not precise (is misleading)

C: We need to explain/describe what purpose the 3GPP Access Network in the figure serves. Eliminating the 3GPP Access Network fromt the figure may have issues as well.

C: Need to describe the two means of getting to the core network -- one via 3GPP Access and one via WLAN; the model is OK, but the terminology is probably what we need to fix.

A: how the Core Network is accessed does not matter in the context of this report

A: As long as we clearly define UE and TE, the figure can stay as is

C: Figure-3 is from 802.1CF reference model.

R: R3(Y2) is not relevant.

A: Section-4 is describing gaining access to the Access Network. The 2-phase procedure should be described here.

Continue to discussion in the reflector? Draft changes for discussion this week?

C: Need time to work on the comments; make use the reflector to ask for comment clarification

1. **WBA Report/Liaison Statement**

The Chair asked if there are any contributions related to the WBA Liaison at this time?

No response.

The Chair asked Osama Aboul-Magd if he would review his contribution again, since there were many attendees of this meeting that did not attend the Teleconfrence when he originally presented the document.

1. **WBA Report/Liaison Statement Contribution:**[**11-21/0616r0**](https://mentor.ieee.org/802.11/dcn/21/11-21-0616-00-AANI-802-11ax-features-and-applicability-to-5g-and-wi-fi-convergence.pptx) **“802.11ax Features and Applicability to 5G and Wi-Fi Convergence” Osama Aboul-Magd (Huawei Technologies) - previously presented 13 April 2021.**

C: TWT as a power save mechanism; RTWT targets low latency use cases

C: OBSS PD based reuse is based on a 3GPP technique. Need to determine what terminology is used in the 3GPP domain

C: TWT is a scheduling scheme (originally from .11ah), allows for minimizing contention and may serve as a QoS-enhancement

A: .11ax does not spell out TWT as a QoS-enhancement

C: If TWT has a potential to enhance QoS, we should call it out (may be the history was for Power Save)

C: Trigger/Resource Allocation can allow for prioritization and hence enhance QoS

C: .11ax facilitates scheduling -- resulting in better QoS

A: That is the intent of the second bullet in the conclusion slide (but QoS improvements depend on implementation choices).

1. **Meeting recessed at 13.16 h ET**

# Wednesday 12 May 2021, 19:00 h ET:

**Chair: Joseph Levy, InterDigital**

**Acting Secretary:**

1. **The teleconference was called to order by Chair xx:xx h ET,**
2. **The meeting recessed at xx:xx h ET.**

# Thursday 13 May 2021, 11:15 h ET:

**Chair: Joseph Levy, InterDigital**

**Acting Secretary:**

1. **The teleconference was called to order by Chair xx:xx hrs. EDT**
2. **Meeting recessed at xx:xx am ET**

# Monday, 17 May 2021, 19:00 - 21:00 h ET

**Chair: Joseph Levy, InterDigital**

**Acting Secretary:**

1. **The teleconference was called to order by Chair xx:xx hrs. EDT**
2. **The meeting adjourned at xx:xx h ET.**

**References:**