IEEE P802.11
Wireless LANs

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| ARC SC Mixed Mode Minutes May 2023 - Interim |
| Date: 2023-05-18 |
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Abstract

This document contains the minutes of the IEEE 802.11 ARC SC mixed mode meeting held on 16 May 2023 at 11:00-12:30 h ET and 18 May 2023 at 13:30-15:30 h ET.

Note: Highlighted text are action items. A- precedes comments from the document’s author, C- precedes comments, R- precedes responses to comments.

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# Tuesday 16 May 2023 at 11:00-12:30 h ET

## Administration:

**Chair: Mark Hamilton, Ruckus/CommScope**

**Vice Chair: Joseph Levy, InterDigital**

**Secretary: Joseph Levy, InterDigital**

**Meeting called to order by the Chair 11:05 ET**

Agenda slide deck: [11-23/0576r3](https://mentor.ieee.org/802.11/dcn/23/11-23-0576-03-0arc-arc-sc-agenda-may-2023.pptx)

**Agenda Slides 4-15:**

**Registration Reminder**

**Reminders to Attendees**

**Call for Patents:**

The Chair reviewed the Patent policy and called for potentially essential patents – there was no response to the call.

**IEEE SA Copyright Policy:**

The chair reviewed the Copyright policy.

**Participation:**

The chair reviewed the participation policy.

**Approval of the Agenda (Slides 16)**

* Two meeting slots this week, Tues 10:30 and Thurs 13:30
* Attendance, noises/recording, meeting protocol reminders
* Policies, duty to inform, participation rules
* Approve meeting minutes (slide 18)
* Contribution/discussion topics:
	+ IEEE Std 802 project (Tuesday)
	+ Annex G way forward (Thursday)
	+ WBA liaison on QoS: [11-23/0838r0](https://mentor.ieee.org/802.11/dcn/23/11-23-0838-00-0000-wba-liaison-re-qos.docx)
* Next steps

The Chair reviewed the agenda and called for comments and additions.

Discussion on the order of the items, agreed to maintain the order. No additions were made. Approved by unanimous consent.

**Approval meeting minute**

Motion to approve the minutes of:

March plenary: [11-23/0215r0](https://mentor.ieee.org/802.11/dcn/23/11-23-0215-00-0arc-arc-sc-mixed-mode-minutes-march-2023-plenary.docx)

May 8 telecon: [11-23/0845r0](https://mentor.ieee.org/802.11/dcn/23/11-23-0845-00-0arc-arc-sc-8-may-2023-teleconference-minutes.docx)

* Moved: Joseph Levy
* Seconded: Mark Emmelmann
* Discussion called for; no discussion was had.
* Result: UC

## IEEE Std 802 project

Documents:

[11-23/0773r0](https://mentor.ieee.org/802.11/dcn/23/11-23-0773-00-0arc-802revc-topics-and-discussion-update.pptx) “802REVc Topics and Discussion Update” – contains links to current comment resolution documents.

[11-23/0468r1](https://mentor.ieee.org/802.11/dcn/23/11-23-0468-01-0000-802revc-status-march-2023.ppt) “802REVc Status - March 2023” – contains links to project website and related documents.

A brief report on the status was provided by Joseph Levy:

Summary of the planed meetings for the meeting week is provided on slide 21 of the agenda slide deck.

The Chair lead a discussion of the open 802.11 issues slide 19 of the agenda (copied here):

**ARC should consider “ripple effect” and cleanup:**

* + **Review 802.1AC mapping from ISS to 802.11 MAC SAP interface**
	The Chair called for review and contributions for the July meeting.
	+ **Consider any changes to remove 802.2/LLC terms?**
	The Chair stated that the draft and how these terms are used should be reviewed to ensure it is self-consistent and is up to date with the 802.11’s understanding. Review and contributions were requested for the July meeting.
	+ **Clarifying EPD/LPD:**
	The Chair stated that the 802.11 ARC SC has done work on this issue (see [11-20/0174r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0174-00-0arc-epd-and-lpd-terminology-misalignment-in-ieee-std-802-1-and-802-11.pptx)), but additional clean-up may be required. Also, some work is happening in the 802REVc with the updates to the draft that have been proposed. The current spec and the referenced document should be reviewed. Inputs are requested for the July meeting.

**802.11’s concept of “Portal”:**

Chair commented that the current 802.11 specification could probably be clearer regarding the 802.11 concept of “Portal” – it does explain that the Portal is a bridge, a non 802.1Q bridge. We may want to discuss if we want to consider adding the Portal to 802REVc or more explicitly use the 802REVc terminology in the 802.11 specification. Review and contribution on this topic are requested for the July meeting.

C – Support of this way forward.

## Annex G way forward

Chair call for any input/comments on the Annex G discussion, none was forthcoming.

**WBA liaison on QoS:**

The Chair reviewed the Liaison from WBA – 11-23/0838r0

In July WBA will present their position at the July 802.11 Plenary meeting. They will be physically present at the meeting.

The Chair calling for review and discussion – of the LS and the report (embedded) in the LS.

Note there is a call for companies to participate in the trials – contact the WBA

The Chair proposed this topic be discussed in a teleconference, teleconferences to be decided on Thursday.

Q – Is the scope of the review of the overall document or just the 802.11 QOS features.?

The Chair stated, the WBA has asked for comments on the whole document, there is no reason to limit the scope.

The Chair reminded the group of the other topics on slide 17 of the agenda, calling for interest on the listed topics or proposal of other topics.

## Recessed 11:42 h ET.

# Thursday 18 May 2023 at 13:30-15:30 h ET

## Administration:

**Chair: Mark Hamilton, Ruckus/CommScope**

**Vice Chair: Joseph Levy, InterDigital**

**Secretary: Joseph Levy, InterDigital**

**Meeting called to order by the Chair 13:38 ET**

Agenda slide deck: [11-23/0576r4](https://mentor.ieee.org/802.11/dcn/23/11-23-0576-04-0arc-arc-sc-agenda-may-2023.pptx)

**Agenda Slides 4-15:**

**Registration Reminder**

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* Next steps

The Chair reviewed the agenda and called for comments and additions.

Discussion on the order of the items, agreed to maintain the order. No additions were made, approved by unanimous consent.

Added Define IEEE 802 Network to the agenda.

## 802REVc

A brief verbal review of the status of IEEE 802REVc letter ballot comment resolution was provided: (Note the IEEE 802REVc comment resolution meeting, ended just prior to the start of this ARC meeting.)

1. During the 802.1 802REVc comment resolution meeting the 802.11 ARC was tasked with developing a resolution providing a definition of the “IEEE 802 Network”.
2. There were some EPD/LPD discussions (on use of terms and definitions) which may be of interest to 802.11 and may precipitate the need for:
	1. Comments from 802.11 on EPD/LPD related text changes being proposed in 802REVc
	2. Proposed changes to the 802.11REVme to align with the new 802REVc text.

## Annex G way forward

Harry Bims – [11-23/0880r0](https://mentor.ieee.org/802.11/dcn/23/11-23-0880-00-0arc-revised-annex-g-containing-example-frame-exchange-sequences.docx)

C – This text is getting old – given the new types of triggered mechanisms.

R – Agree, this text should be updated, and updated normative text is required. But that is beyond the scope of the current Annex G effort.

The Chair called for additional comments and feedback; and volunteers to address the addition of new triggering mechanisms.

No comments nor did anyone volunteer to provide a contribution to address the addition of new triggering mechanisms. This is an open item.

C – Support for the direction proposed. It is a good start. This discussion also revealed there are lots of places in the normative text of the current 802.11 specification that need to be updated.

Harry Bims – agreed to lead an ARC SC reflector discussion to progress the work on Annex G, to:

1. Further develop the list that was provided
2. Discuss and possibly propose a way to group the types of frame exchanges

## WBA liaison –

Chair – the WBA is doing this interesting work. – is there anything we (802.11) should be doing regarding this?

WG Chair – the request was more to members to review the information and not a request for 802.11 WG response. If the 802.11 WG does want to provide feedback on the WBA white paper, it would be appropriate.

No action was agreed at this time, note ARC is open to discussion/actions of this topic if provided.

## Next steps

* **Contributions requested/expected:**
	+ **Annex G**
	+ **802REV definition of IEEE 802 Network, and other topics**
* **July session planning**
	+ **1 or 2 slots? 2**
	+ **Topics? Annex G, 802REVc, WBA QoS liaison presentation**
* **Next Teleconference(s):**
	+ **May to July teleconference plan… Any/How many telecons?**
		- **Conflicts to avoid: TGbe, REVme, TGbh, 802REVc**
		- **Continue with Monday 2PM 1 hour**
		- **Dates to avoid??**
	+ **Will be coordinated with other TG chairs, and announced later**

## Action Items:

1. ARC reflector discussion on Annex G
2. Call for contributions to the July 802 Plenary on the way forward with Annex G.
3. ARC to develop a proposed definition of the “IEEE 802 Network”.
4. Members requested by the 802.11 Chair to review the WBA liaison and white paper.

## Adjourned: 15:35 h ET

Final Agenda: [11-23/0576r5](https://mentor.ieee.org/802.11/dcn/23/11-23-0576-05-0arc-arc-sc-agenda-may-2023.pptx)

Closing Report: [11-23/0902r0](https://mentor.ieee.org/802.11/dcn/23/11-23-0902-00-0arc-arc-closing-report-may-2023.pptx)