IEEE P802.11  
Wireless LANs

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| ARC SC Mixed Mode Minutes November 2022 - Plenary | | | | |
| Date: 2022-11-15 | | | | |
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Abstract

This document contains the minutes of the IEEE 802.11 ARC SC mixed mode meeting held on 15 November 10:30-12:30 h ICT.

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 15 November 2022 at 10:30-12:30 h ICT

## Administration:

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

**Vice Chair: Joseph Levy, InterDigital**

**Secretary: Joseph Levy, InterDigital**

**Meeting called to order by the Chair 10:35 ICT**

Agenda slide deck: [11-22/1702r2](https://mentor.ieee.org/802.11/dcn/22/11-22-1702-02-0arc-arc-sc-agenda-nov-2022.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)**

* Reminder: This is the only meeting slot this week
* Attendance, noises/recording, meeting protocol reminders
* Policies, duty to inform, participation rules
* Approve meeting minutes (slide 18)
* Contribution/discussion topics:
  + IEEE Std 802 project:
  + Annex G:
* Next steps

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

No comments or additions were made, approved by unanimous consent.

**Approval meeting minute**

Motion to approve the minutes of:

September interim: [11-22/1602r0](https://mentor.ieee.org/802.11/dcn/22/11-22-1602-00-0arc-arc-sc-mixed-mode-minutes-september-2022-interim.docx)

* Moved: Graham Smith
* Seconded: Harry Bims
* Result: UC

## IEEE Std 802 project

Status of IEEE Std 802 activities were reviewed - Joseph Levy:

* P802REVc is making progress – the 802.1 Maintenance task group is resolving comments from the “Task Group” ballot.
* As requested, a reflector discussion was initiated on the ARC and 802.11 reflectors: “Discussion on a potential new IEEE Std 802 Project” was sent on 2023-11-3. There was no response or discussion on the reflectors.   
  [This completes the September action item: Joe Levy to start a discussion on the ARC reflector, with brainstorming if there are any gaps that 802.11 really needs resolved. Bring this back for ARC discussion in November.]

**Discussion on the potential “new” IEEE Std 802 Project:**

Slide 19 – provides some reason as to why 802.11 might care:

1. MAC SAP interface
2. Consider any changes to remove 802.2/LLC terms in 802.11 – we may want to review and clean this up if necessary.
3. Clarifying EPD/LPD – frames – this comes from STD 802 - we may want to enhance these areas in STD 802 or better align STD 802.11.

C - But “it ain’t broke”, people are shipping hardware – so why fix it.

Conclusion: There seems to be very little interest in 802.11 to “fix” IEEE Std 802, so unless there are further contributions the ARC SC will take no additional action.

## Annex G – Way Forward

The Chair reviewed the status and potential way forward for Annex G. ([11-22/1702r2](https://mentor.ieee.org/802.11/dcn/22/11-22-1702-02-0arc-arc-sc-agenda-nov-2022.pptx) - Slide 20):

* Consider scope/purpose for (new) Annex G – informative or normative, etc.
* Replace Annex G with some other notation/style –[11-21/1797r2](https://mentor.ieee.org/802.11/dcn/21/11-21-1797-02-0arc-proposal-for-new-annex-g-frame-exchange-sequence-descriptions.docx) – Harry Bims
* The need for Frame Exchange Sequences: [11-22/0101r0](https://mentor.ieee.org/802.11/dcn/22/11-22-0101-00-0arc-the-need-for-frame-exchange-sequences.pptx) – Harry Bims

**Discussion points/questions:**

C – There needs to be a compelling reason to provide a description of frame exchange sequences. In the lower MAC there are timing requirements: e.g., RTS/CTS. So, provide a description and information of what these requirements are is helpful.

The current 802.11me R2.0 definition:

**frame exchange sequence:** A sequence of frames that maintains control of the wireless medium.

NOTE—Control of the wireless medium might be maintained across multiple frame exchange sequences through other mechanisms, see, for example, 10.23.2.8 (Multiple frame exchange sequences in an EDCA TXOP).

C – [11-22/1587r0](https://mentor.ieee.org/802.11/dcn/22/11-22-1587-00-0arc-annex-g-way-forward.pptx) and [11-22/1587r1](https://mentor.ieee.org/802.11/dcn/22/11-22-1587-01-0arc-annex-g-way-forward.pptx) with SP result - reminding the group of the 4 possible ways forward. SP was run again to provide additional guidance, as the conference call where the SP was had 6 attendees.

Straw Poll:

* **Which option do you prefer for ANNEX G**

1. **Retain with opening sentence?**
2. **Keep G2 and G3 only?**
3. **Delete?**
4. **New Annex?**

Results: A:1, B:2, C:1, D:4, did not answer 5

C – An informative discussion on what the behavior is – may be useful.

C – A new Annex may introduce new behavior, but is would be an informative annex, new behavior should be in the normative text sections.

C – There should be no new behavior in the annex, the annex should informative information and a summary of what a frame exchange sequence is. This would have some value.

Chair called for contributions.

## Next steps

* **Contributions requested/expected:**
  + IEEE Std 802 projects update
  + Annex G contributions
* **January interim planning**
  + 1 slot
  + Topics TBD – 802 revision, Annex G, MLME-START etc., What is a STA?
* **Next Teleconference(s):**
  + none

## Action Items:

None

## Adjourned: 12:28 h ICT

Final Agenda: [11-22/1702r2](https://mentor.ieee.org/802.11/dcn/22/11-22-1702-02-0arc-arc-sc-agenda-nov-2022.pptx)

Closing Report: [11-22/2038r0](https://mentor.ieee.org/802.11/dcn/22/11-22-2038-00-0arc-arc-closing-report-nov-2022.pptx)