IEEE P802.11  
Wireless LANs

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| ARC SC Teleconferences Minutes July 2022 - Plenary | | | | |
| Date: 2022-07-14 | | | | |
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Abstract

This document contains the minutes of the IEEE 802.11 ARC SC teleconferences held on 11 July 13:30-15:30 h ET, 12 July 10:30-12:30 h ET, and 14 July 8:00-10:00 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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# Monday 11 July 2022 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 13:32 ET**

Agenda slide deck: [11-22/0843r1](https://mentor.ieee.org/802.11/dcn/22/11-22-0843-01-0arc-arc-sc-agenda-july-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 16-18)**

**11 July 2022, 13:30 ET**

* **Reminder: 3 meetings this week: Monday 13:30 ET, Tuesday 10:30 ET, Thursday 8:00 ET**
* **Attendance, noises/recording, meeting protocol reminders**
* **Policies, duty to inform, participation rules**
* **~~Approve meeting minutes (slide 20)~~**
* **Contribution/discussion topics:**
  + Clause 6 “working session”

**12 July 2022, 10:30 ET**

* **Reminder: 3 meetings this week: Monday 13:30 ET, Tuesday 10:30 ET, Thursday 8:00 ET**
* **Attendance, noises/recording, meeting protocol reminders**
* **Policies, duty to inform, participation rules**
* **Contribution/discussion topics:**
  + Clause 6
  + Annex G way forward
  + IEEE Std 802 project(s) update/discussion
  + Other topics?

**14 July 2022, 8:00 ET**

* **Attendance, noises/recording, meeting protocol reminders**
* **Policies, duty to inform, participation rules**
* **Approve meeting minutes (slide 20)**
* **Contribution/discussion topics:**
  + Clause 6
  + Annex G way forward
  + IEEE Std 802 project(s) update/discussion
  + Other topics?
* **Next steps**

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

The approval of the minutes is differed to Thursday 14 July, the change is shown above.

The modified agenda is approved by unanimous consent.

## Clause 6 “working session”

Reviewing [11-22/0916r2](https://mentor.ieee.org/802.11/dcn/22/11-22-0916-02-0arc-clause-6-3-new-text.docx) – in working session.

Overview and scope of work was reviewed by the Chair. The Chair called for comments or questions.

No comments or questions.

Graham Smith provided an overview of the [11-22/0916r2](https://mentor.ieee.org/802.11/dcn/22/11-22-0916-02-0arc-clause-6-3-new-text.docx):

The Types have been renumbered.

C – There should be a limited number of types.

A – To keep the review and changes simple it is preferred to keep what is currently in the document.

R – supporting keeping the current set of types, for now.

R – It is preferred to clean the types up now while we are doing this work.

Chair – The scope of this work is to take the first step in simplifying Clause 6. This should be presented to TGme before doing more (i.e., cleaning up the types or fixing the technical content).

R – But there are action no-Ack frames – this needs to be fixed

C – Proposal to delete “Action” and so it just states “frames” in 6.4.

There was no objection to this proposal.

A – 6.4 is just moving the existing text and moving it to a new section.

C – Concerned that by moving the text security related things will be separated (in different specification locations).

R – The table in 6.5 includes all the primitives – the ones in the current Clause 6 style that provides “all the details” in 6.4 and the ones that are now only described by their table entry in 6.5. Therefore the table in 6.5 keeps all the security related things together as they currently are, so they can be found.

C – Proposal to keep 6.3.73 - Mesh neighbor offset synchronization and move it to 6.4.

Discussed and agreed to not move the primitive to 6.4 and use the reference 14.13 in the table for all MESHNEIGHBOR… primitives.

Other discussed and agreed actions:

6.3.75.2 MCCA management interface: MLME-ACTIVATEMCCA.request is a type 6, but there must be a reply – this is a technical error – out side our current scope, but should be fixed in the future (this is TGme issue).

6.3.79.2 MLME-MESHLINKMETRICREAD – is a type 5 – is the reference 14.9.2.

6.3.92 PN event report: the use of PN related primitives are only found in clause 6.3.92 – agreed to keep clause 6.3.92 as a 6.4 clause.

6.3.82 SCS request and response procedure – does not contain a mention of the primitive. Discussion did not complete, will need to come back to this.

## Recess: 15:31 h EDT

# Tuesday 12 July 2022 at 10:30-12:30 h ET

## Administration:

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

**Vice Chair: Joseph Levy, InterDigital**

**Secretary: Joseph Levy, InterDigital**

**Meeting called to order by the Chair 10:33 ET**

Agenda slide deck: [11-22/0843r2](https://mentor.ieee.org/802.11/dcn/22/11-22-0843-02-0arc-arc-sc-agenda-july-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**

12 July 2022, 10:30 ET

* Reminder: 3 meetings this week: Monday 13:30 ET, Tuesday 10:30 ET, Thursday 8:00 ET
* Attendance, noises/recording, meeting protocol reminders
* Policies, duty to inform, participation rules
* Contribution/discussion topics:
  + Clause 6 “working session” continued
  + Annex G way forward
  + IEEE Std 802 project(s) update/discussion
  + Other topics?

No additions to the agenda –

Accepted with unanimous consent

## Clause 6 “working session”

Reviewed the additions made yesterday to 6.4, and the changes to 11.20.1 of moving 6-7 to 11-xx so we keep the figure. Also discussed the additional edits made to the references.

Picking up where we left off at 6.3.82 SCS request and response procedure

Addressing comments provided by Mark Hamilton: The text seems to be confusing (2972.23 D1.1) – 11.25.2 - as it is not very clear how to interpret this clause.

Agreed to add text to 11.25.2 (P2972.23) “use MLME-SCS-TERM.request to” to clarify the intent in the “edit these sections” area of 11-22/0916r2.

6.2.87 On-channel Tunneling operation: OCTunnel – can’t be a type 7. It should be a type 2. Need to check references. Agreed that this is a special case, as these primitive are between MLME entities, so these this clause should be moved to 6.4.

Also agreed to set the type to N/A.

It was also agreed that the type for SCAN should be N/A as it is complicated it generates protocol and so it is not a simple type.

It was suggested that DMG beamforming also be maintained in clause 6.4 as the over the air frame exchange is complex and is not covered well by the current types.

It was agreed to move 6.3.99 Estimated Throughput to 6.4 as there are to many details and this clause is used by external entities to use this 802.11 capability – therefore the variables and ranges need to be maintained.

6.3.100 Get authentication and association state (MLME-GETAUTHASSOCSTATE) – ok as proposed in the table, its type is ok and it is clear what variables are contained.

6.3.115 – UPDATE – primitive currently is only used by Unsolicited PAD (though at the time it was introduced – 11.23.2 – but 11.23.2 does not currently say to use MLME-UPDATE to get the information to be advertised. Resolution add text to 11.23.2.

There were many additional edits made to [11-22/0916r3](https://mentor.ieee.org/802.11/dcn/22/11-22-0916-03-0arc-clause-6-3-new-text.docx) based on this working session discussions, these edits are provided in [11-22/0916r4](https://mentor.ieee.org/802.11/dcn/22/11-22-0916-04-0arc-clause-6-3-new-text.docx).

## Recess 12:31

# Thursday 14 July 2022 at 8:00-10:00h ET

## Administration:

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

**Vice Chair: Joseph Levy, InterDigital**

**Secretary: Joseph Levy, InterDigital**

**Meeting called to order by the Chair 8:05 ET**

Agenda slide deck:  [11-22/0843r3](https://mentor.ieee.org/802.11/dcn/22/11-22-0843-03-0arc-arc-sc-agenda-july-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**

14 July 2022, 8:00h ET

* Attendance, noises/recording, meeting protocol reminders
* Policies, duty to inform, participation rules
* Approve meeting minutes (slide 20)
* Contribution/discussion topics:
  + Clause 6
  + Annex G way forward
  + IEEE Std 802 project(s) update/discussion
  + Other topics?
* Next steps

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

No comments or additions.

Approved by unanimous consent.

## Approve the minutes

Prior telecons:

May 2:[**11-22/0618r0**](https://mentor.ieee.org/802.11/dcn/22/11-22-0618-00-0arc-arc-sc-teleconferences-minutes-2-may-2022.docx)

May interim:[**11-22/0620r0**](https://mentor.ieee.org/802.11/dcn/22/11-22-0620-00-0arc-arc-sc-teleconferences-minutes-may-2022-plenary.docx)

June telecons:

June 20:[**11-22/1123r0**](https://mentor.ieee.org/802.11/dcn/22/11-22-1123-00-0arc-arc-sc-teleconferences-minutes-20-june-2022.docx)

Moved: Graham Smith

Seconded: Joseph Levy

Approved by unanimous consent.

## Clause 6

The Chair provided a brief overview of this ongoing work, summarizing the work and intent of this activity. The goal for this meeting is to review the text proposal and endorse the proposal as a resolution to comments to 802.11REVme D1.0, providing the proposal to 802.11 TGm.

## Review of [11-22/0916r4](https://mentor.ieee.org/802.11/dcn/22/11-22-0916-04-0arc-clause-6-3-new-text.docx)

The review was provided by Graham Smith – summarizing the status of this text proposal for Clause 6 and the work that was done to create this proposal for 802.11REVme:

* A detailed line by line review of the text proposal was preformed. This document is based on the existing Clause 6 and is intended replace the existing Clause 6.
* Multiple detailed comment were provided by the ARC SC participants and edits were provided to resolve the comments.
* Some of the edits suggested were:
* For the description of type 5 - Add “parameter” after “Result Code” Changing to “when the SME requests” - also checked/fixed the previous 4 types.
* Changing “MAC” to “MLME” – in several location.
* Fixing – the clause references by removing the specific clause references and replacing it with subsequent clauses, with additional editing.
* The text then designates which specific clauses in 802.11REVme D1.0 should be maintained as is by providing a clause mapping list. The proposal then deletes all the other MLME subclauses.

Discussion:

C - Suggestion to swap 6.5 with 6.4 so that the flow is improved. But, this is too big a change to make on the fly. This should be discussed in TGme and if agreed the change should be made.

C - A suggestion to make the MLME-XXXX a hyper link to the parameter. But, this may not be possible or practical to do.

C – Editorial discussion: – is it “ResultCode” or “Result Code”? Needs to be consistent.

C - The ResultCode parameters needs to be check for all these parameters.

Agreed to:

In 2769.13 – added the ResultCode values from Clause 6 and cleaned up the text to make this clearer.

Cleaned up some of the MLME primitive references to be in the form “the MLME-XXX.xxx primitive”.

[11-22/0916r5](https://mentor.ieee.org/802.11/dcn/22/11-22-0916-05-0arc-clause-6-3-new-text.docx) was uploaded, with the above edits.

## Motion:

802.11 ARC SC approves document [11-22/0916r5](https://mentor.ieee.org/802.11/dcn/22/11-22-0916-05-0arc-clause-6-3-new-text.docx) as a contribution to 802.11 TGme, with the suggestion to use this material to resolve comments about simplifying clause 6 (e.g. CID 1114).

Mover: Graham

Second: Jouni

No discussion

Approved by unanimous consent.

## Next steps

The Clause 6 work is complete, removed from the contributions requested/expected list.

2 Teleconferences

2 September meeting slots.

* **Contributions requested/expected:**
  + Annex G
  + IEEE Std 802 projects
* **July plenary planning**
  + 2 slots
* **Next Teleconference(s):**
  + July to September teleconference plan
    - How many telecons? 2
    - Conflicts to avoid: TGbe, REVme, TGbd, TGbh
    - Continue with Monday 1PM ET and Thursday 7PM ET?
    - Dates to avoid?? Sept 5
  + Will be coordinated with other TG chairs, and announced later

## Action Item:

1. Contribution on 802.11 input to IEEE Std. 802/Nendica PAR discussions – Joseph Levy.

## Adjourned: 10:01 h EDT

Final Agenda: [**11-22/0843r4**](https://mentor.ieee.org/802.11/dcn/22/11-22-0843-04-0arc-arc-sc-agenda-july-2022.pptx)

Closing Report: [**11-22/1143r1**](https://mentor.ieee.org/802.11/dcn/22/11-22-1143-01-0arc-arc-closing-report-july-2022.pptx)