**IEEE P802.15**

**Wireless Personal Area Networks**

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| --- | --- | --- |
| Project | IEEE P802.15 Working Group for Wireless Personal Area Networks (WPANs) | |
| Title | **<IEEE802.15 WG minutes>** | |
| Date Submitted | [11 May 2021] | |
| Source | [Clint Powell] [Facebook] [Chandler, AZ] | Voice: [+1.480.586.8457] Fax: [--] E-mail: [cpowell@ieee.org] |
| Re: | [May 802.15 Interim Meeting held virtually] | |
| Abstract | [IEEE 802.15 Working Group & CAC Minutes] | |
| Purpose | [Official minutes of the Working Group and CAC Sessions] | |
| Notice | This document has been prepared to assist the IEEE P802.15. It is offered as a basis for discussion and is not binding on the contributing individual(s) or organization(s). The material in this document is subject to change in form and content after further study. The contributor(s) reserve(s) the right to add, amend or withdraw material contained herein. | |
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**131st IEEE 802.15 WSN MEETING**

**Held Virtually via Webex (all times in EDT)**

**May 11-19, 2021**

# Tuesday, 11 May 2021

**Opening**

**9:04 AM** WG Chair, Pat Kinney (Kinney Consulting), called the meeting to order and opened the WG Agenda (*15-21-0167-05-0000*)

<https://mentor.ieee.org/802.15/documents?is_dcn=167&is_year=2021>

**Announcements**

WG Chair announced the agenda doc. # for the week.

WG Vice-Chair reviewed attendance tool.

Don’t forget to turn on your mic and announce your name and affiliation before you speak.

WG Chair announced the of DirectVoteLive (DVL) for all WG votes. DVL will only be used during this session and at the closing plenary meeting on Wednesday, 19 May. He also noted that the motions would be loaded in advance of the meeting.

All WG motions (especially those relating to PARS) need to be sent to the Chair (Pat Kinney), Vice-Chair (Rick Alfvin), and Secretary (Clint Powell) by the end of EV2 on Tues. 5/18 so that they may be entered into DVL (Direct Vote Live) by the EOD. If you are not able to meet this deadline please work with Pat beforehand.

WG Chair asked for new participants to speak up using the chat window in Webex.

1 new participant and 1 returning participant announced on the chat window that this was their first meeting.

## Legal

WG Chair informed the group of and displayed the IEEE-SA patent policy presentation slides 0-5 (<http://standards.ieee.org/board/pat/pat-slideset.ppt>).

WG Chair asked the participants who wished to declare a Letter of Assurance (LoA) or to identify patent claim(s)/patent application claim(s) and/or the holder of patent claim(s)/patent application claim(s) that the participant believes may be essential for any of the ongoing activities within the 802.15 WG.

No essential patent claims were brought forth.

WG Chair displayed and read the standard IEEE Anti-Trust statement.

WG Chair displayed and read the standard IEEE Copyright Policy, including Code of Ethics.

Chair went through the agenda

## WG Approvals

Rick Alfvin (LineSpeed) moved to *approve the agenda (document# 15-21-0167-05-0000)* with Clint Powell (Facebook) seconding the motion. Following no objection, the agenda was approved.

Rick Alfvin (LineSpeed) moved *to approve the previous meeting minutes (document 15-21-0149-00-0000)* and Ben Rolfe (Blind Creek Assoc.) seconded the motion. Following neither discussion nor objection the minutes were approved. There were no matters resulting from the previous minutes.

**General and Administrative**

WG Vice-Chair presented the general meeting information:

* IMAT will be used for attendance
  + 75% Attendance = 12 time slots (any 12 of the 28)
* There was 88 attendees at the start of this 802.15 Opening Plenary
* Voters: (voters: 96, nearly: 1, aspirant: 46)
* Webex will be used for sessions

Ben Rolfe (BCA) gave the treasurers report *(document: ec-21-0093-00)*

* Still no income currently
* Continue to have some expenses
* Current balance of ~$356,884.18, ~$12k less than balance reported at March session

WG Chair gave notice of the March 802.15 CAC meeting, the mins which are included in the WG minutes *(minutes: 15-21-0237-00-0000).* The main discussion point was on how attendance credit would be achieved.

WG Chair gave notice of the Wireless Chairs Steering Committee meeting mins  
*(minutes: ec-21-0110-00)*

One of the main topics of the meeting was survey results. The results clearly indicated that there would not be enough in person attendance to support a Sept. Interim mtg. face-2-face. Additionally, there will be a meeting fee for the Sept. Interim as follows:

$50 - early

$75 - 15 days prior

$125 - form the start on

## RevCom

P802.15.4y was approved on May 9, publication to follow

P802.15.9rev1 was submitted to RevCom for review at 15 June RevCom mtg.

## NesCom

4 PARs and 1 PAR modification to be discussed/drafted this week (w/ June 8 802 EC submission deadline)

## 802.15.12 Task Group Discussion

Should we continue 802.15.12, change it, or withdraw the PAR? Chair asks the everyone think about this as the question will be formally brought to the 802.15 closing session.

**Status Reports (Goals and objectives for the week)**

802.15 Status and Activities for the Week

* Task Group 15.4 Cor1 (3 sessions)
  + Will continue hearing inputs and address name of project in PAR
* Task Group 15.4aa – JRE (3 sessions)
  + Work on LB183 CRs, ~30 comments were received
* Task Group 15.7a – VAT (4 sessions)
  + Continue work on draft
* Task Group 15.9ma – KMP (1 session)
  + Will form a CRC in case it’s needed
* Task Group 13 – Multi Gigabit/sec OWC (3 sessions)
  + Working on CRs from 1st SB
* Task Group 16t – 802.16 Amendment (2 sessions)
  + Continue to work on content, review of proposals and TGD
* Study Group 6a – (DEP) (3 sessions)
  + Work on PAR & CSD
* Study Group 4ab – NG-UWB (3 sessions + Joint 4ab/14/15)
  + Hear presentations
  + Continue work on TGD and call for contributions
* Study Group 14 – NS-UWB (3 sessions + Joint 4ab/14/15)
  + Work on PAR, CSD, and 802.15.4 PICS analysis
* Study Group 15 – NS-NB (3 sessions + Joint 4ab/14/15)
  + Work on PAR, CSD, and 802.15.4 PICS analysis
* Standing Committee – THz (1 session)
  + Report to ITU-R 5a
  + Discussion SG for frequency extension
  + Hear 1 contribution
* Standing Committee – IETF (1 session)
  + Will be a short mtg., not much activity
* Standing Committee – SC-M, Rules (1 session)
  + 3 topics to discuss, including our favorite recurring topic - turnaround time
* Standing Committee – WNG (1 session)
  + 1 presentation on “Proactive Spectrum Planning” is definite
  + 1 presentation is a potential

**Operations Manual Overview**

NTR

**Any Other Business**

WG Chair asked if there was any other business. None was raised.

**WG Recess**

**10:22 AM** WG Chair recessed the meeting

# Wednesday, 19 May 2021

## Closing

**9:01 AM** WG Chair, Pat Kinney (Kinney Consulting) called the meeting to order

**9:02 AM** WGVice Chair, Rick Alfvin (LineSpeed) spoke to the attendance method (IMAT) and voting method (DVL)

## Announcements

#### WG Chair presented his Lessons Learned from this week:

* IMAT - went ok, considering time zone issue
* Webex - had many instances of not allowing host to initially join as host

#### 802.15 Officers Election Process for 2022

Chair proposes an electronic ballot for next March, but not DVL

## Closing Reports

**9:29 AM 802.15 WG** Closing Agenda by Pat Kinney (Kinney Consulting) (15-21-0093-06)

**9:30 AM TG4 Cor2** closing report by Kunal Shah (Itron) (15-21-0174-01)

Will seek to go to LB at the May mtg.

**9:32 AM TG 4y** closing report by Don Sturek (Itron) (15-21-0151-04)

No comments on recent ballot. Plan to kick back and relax at the May mtg.

*MOTION: “Move that 802.15 WG has reviewed and approves the CSD [EC-18-0084-00] and requests unconditional approval from the EC to submit P802.15.4y-D4 to RevCom.”*

Moved by Don Sturek, Seconded by Rick Alfvin

37 out of 52 on DVL voted

Upon no discussion the vote was taken with the results of 36/0/1, motion carries.

*MOTION: “Move that TG4y requests 802.15 WG approve the formation of a Comment Resolution Group (CRG) for the SA balloting of the P802.15.4y-D4 with the following membership: Don Sturek (As Chair), Tero Kivinen, Peter Yee, Ruben Salazar. The 802.15.4y CRG is authorized to approve comment resolutions and to approve the start of recirculation ballots of the revised draft on behalf of 802.15 WG. Comment resolution on ballots between sessions will be conducted via reflector email and via teleconferences announced to the reflector as per the LMSC 802 WG P&P.”*

Moved by Don Sturek, Seconded by Clint Powell

40 out of 52 on DVL voted

Upon no discussion the vote was taken with the results of 38/0/2, motion carries.

**9:55 AM TG4aa** closing report by Takashi Kuramochi (Lapis) (15-21-0193-01)

Plan to review comments at the May mtg.

*MOTION: “Move that 802.15 WG start a WG Letter Ballot requesting approval of Coexistence Assessment (CA) document [15-21-0083-06-04aa] and draft document P802-15-4aa\_D6 and to forward document P802-15-4aa\_D6, to Standards Association ballot.”*

Moved by Takashi Kuramochi, Seconded by Rick Alfvin

44 out of 52 on DVL voted

Upon no discussion the vote was taken with the results of 41/0/3, motion carries.

*MOTION: “Move that 802.15 WG approve the formation of a Comment Resolution Group (CRG) for the WG balloting of the P802.15.4aa\_D6 with the following membership: Takashi Kuramochi (Chair), Kunal Shah (ITRON), Hiroshi Harada (Kyoto University), Kiyoshi Fukui (OKI), and Henk de Ruijter (Silicon Labs). The 802.15.4aa CRG is authorized to approve comment resolutions, edit the draft according to the comment resolutions, and to approve the start of recirculation ballots of the revised draft on behalf of the 802.15 WG. Comment resolution on recirculation ballots between sessions will be conducted via reflector email and via teleconferences announced to the reflector as per the LMSC 802 WG P&P.”*

Moved by Takashi Kuramochi, Seconded by Clint Powell

42 out of 52 on DVL voted

Upon no discussion the vote was taken with the results of 41/0/1, motion carries.

**9:43 AM TG7a** closing report by Yeong Min Jang (Kookmin University) (15-21-0196-00)

Finalized TCD and call for proposals (see dates in TG7a closing report).

Will hear proposals in the May mtg.

**9:50 AM TG9ma** closing report by Tero Kivinen (Self) (15-21-0147-01)

*MOTION: “Move that 802.15 WG has reviewed and approves the CSD [ec-20-0250-00-ACSD-p802-15-9-revision-1] and requests unconditional approval from the EC to submit P802.15.9ma-D05 to RevCom.”*

Moved by Tero Kivinen, Seconded by Ben Rolfe

38 out of 52 on DVL voted

Upon no discussion the vote was taken with the results of 36/0/2, motion carries.

*MOTION: “Move that 802.15 WG approve the formation of a Comment Resolution Group (CRG) for the Standards Association balloting of the P802.15.9ma-D05 with the following membership: Tero Kivinen (Chair), Ben Rolfe, Don Sturek, Pat Kinney, and Peter Yee. The 802.15.9ma CRG is authorized to approve comment resolutions, edit the draft according to the comment resolutions, and to approve the start of recirculation ballots of the revised draft on behalf of the 802.15 WG. Comment resolution on recirculation ballots between sessions will be conducted via reflector email and via teleconferences announced to the reflector as per the LMSC 802 WG P&P.”*

Moved by Tero Kivinen, Seconded by Ben Rolfe

40 out of 52 on DVL voted

Upon no discussion the vote was taken with the results of 39/0/1, motion carries.

**10:00 AM TG13** closing report by Kai Lennert Bober (Fraunhofer HHI) (15-21-0198-00)

Work on comment resolution.

Will go out for recirc next.

*MOTION: “Move that 802.15 WG approves the formation of a Comment Resolution Group (CRG) for the Standards Association balloting of the P802.15.13\_D5 with the following membership: Volker Jungnickel as Chair, Nikola Serafimovski, Tuncer Baykas, Sang-Kyu Lim, and Tero Kivinen. The 802.15.13 CRG is authorized to approve comment resolutions, edit the draft according to the comment resolutions, and to approve the start of recirculation ballots of the revised draft on behalf of the 802.15 WG. Comment resolution on recirculation ballots between sessions will be conducted via reflector email and via teleconferences announced to the reflector as per the LMSC 802 WG P&P.”*

Moved by Lennert Bober, Seconded by Clint Chaplin

38 out of 52 on DVL voted

Upon no discussion the vote was taken with the results of 36/0/2, motion carries.

**10:05 AM TG16t** closing report by Tim Godfrey (EPRI) (15-21-0184-1)

Completed SRD approval.

Will begin to work on draft.

**10:12 AM IG DEP** closing report by Ryuji Kohno (YNU/CWC U of Oulu) (15-21-0189-01)

*MOTION: “Motion: that the 802.15 Working Group seeks approval from the 802 EC to form a study group in 802.15 to develop the PAR and CSD documents for SG15.6a, an amendment to IEEE Std 802.15.6 for enhanced dependability, and additionally authorize the 802.15 WG Chair to make any necessary changes to these docs required to support the submission.”*

Moved by Ryuji Kohno, Seconded by Clint Powell

41 out of 52 on DVL voted

Upon no discussion the vote was taken with the results of 35/1/5, motion carries.

**10:08 AM IG NG-UWB** closing report by Ben Rolfe (BCA/UWBA/et al) (15-21-0186-00)

Heard a few presentations and began taking next steps.

*MOTION: “Move that the 802.15 Working Group seeks approval from the 802 EC to form a study group in 802.15 to develop the PAR and CSD documents for SG15.4ab, an amendment to IEEE Std 802.15.4 for enhanced Ultra Wideband (UWB) features, and additionally authorize the 802.15 WG Chair to make any necessary changes to these docs required to support the submission.”*

Moved by Ben Rolfe, Seconded by Clint Powell

44 out of 52 on DVL voted

Upon no discussion the vote was taken with the results of 43/0/1, motion carries.

*MOTION: “Request that the PAR and CSD contained in documents [15-21-0126-01] and [15-21-0047-05], respectively, be approved for submission to the WG for its approval and that the EC be requested to forward the PAR to NesCom.  The 802.15 working group chair and technical editor are authorized to make additional modifications to the PAR and CSD as needed to reflect EC discussion at its closing meeting.”*

Moved by Ben Rolfe, Seconded by Clint Powell

Question raised on calling out specific PAR and CSD in the 2nd used by Ruben Salizar. This will be an item for future changes to the 802.15 P&P discussion.

43 out of 53 on DVL voted

Upon no further discussion the vote was taken with the results of 40/0/3, motion carries.

**10:12 AM IG NS-UWB** closing report by Clint Powell (Facebook) (15-21-0192-00)

Heard 1 presentation.

Discussed IG NG-UWB / IG NS-UWB / IG NS-NB differences, coordination, and next steps

There were 56 people attending the session.

*MOTION: “Move that the 802.15 Working Group seeks approval from the 802 EC to form a study group in 802.15 to develop the PAR and CSD documents for SG15.14, a new standard focused only on UWB devices, and additionally authorize the 802.15 WG Chair to make any necessary changes to these docs required to support the submission.”*

Moved by Clint Powell, Seconded by Clint Chaplin

45 out of 52 on DVL voted

Upon no discussion the vote was taken with the results of 41/2/2, motion carries.

**10:12 AM IG NS-NB** closing report by Phil Beecher (Wi-SUN Alliance) (verbal rpt.)

*MOTION: “Move that the 802.15 Working Group seeks approval from the 802 EC to form a study group in 802.15 to develop the PAR and CSD documents for SG15.15, a new IEEE 802.15 standard focused only on Narrow Band (NB) types of devices, and additionally authorize the 802.15 WG Chair to make any necessary changes to these docs required to support the submission.”*

Moved by Phil Beecher, Seconded by Clint Powell

40 out of 52 on DVL voted

Upon no discussion the vote was taken with the results of 38/0/2, motion carries.

**10:20 AM SC THz** closing report by Thomas Kurner (TU Braunschweig) (15-21-0176-01)

Heard 1 contribution.

Discussed potentially launching a Study Group at the May mtg.

*MOTION: “Request that the text proposal contained in 15-21-0122-03-0thz-ieee-802-15-tag-thzliaison-statement-to-itu-r-wp5a be approved by the WG and submitted to 802.18.”*

Moved by Thomas Kurner, Seconded by Cint Powell

38 out of 53 on DVL voted

Upon no discussion the vote was taken with the results of 34/0/4, motion carries.

**10:22 AM SC IETF** closing report by Tero Kivinen (Self) (verbal rpt.)

IETF mtg. was 3/8 - 3/12 (overlapped with this 802 Mtg.)

Discussed some of the IETF activities.

**10:18 AM SC WNG** closing report by Ben Rolfe (BCA/UWBA) (15-21-00199-00)

Heard 2 presentations.

**10:24 AM SC M, Rules** verbal closing report by Pat Kinney (Kinney Consulting) (15-21-0156-00)

*MOTION: “Move that the IEEE 802.15 WG approves the IEEE 802.15 operation manual document 15-10-0235-27 as its Operations Manual following the conclusion of this March 2021 Plenary session.”*

Moved by Pat Kinney

31 out of 53 on DVL voted

Upon no discussion the vote was taken with the results of 29/0/2, motion carries.

**10:25 AM 802.24** Liaison verbal report by Tim Godfrey (EPRI) (verbal rpt.)

Session to occur after 802.15 closing.

Will hear 3 presentations.

**10:26 AM 802.18** Liaison report by Jay Holcomb (Itron) (15-21-0155-00)

1 session so far, 2nd session to occur after 802.15 closing.

802 is having a series of Tech Talks.

**10:30 AM 802.19** Liaison report by Ben Rolfe (BCA/UWBA) (verbal rpt.)

Worked on coexistence assessment document.

802.19 had a successful coexistence assessment document ballot - off to EC for approval

**10:31 AM 802.11** Liaison report Clint Chaplin (verbal rpt.)

NTR

## Review of May Virtual Interim Meeting Plans

WG Chair reviewed the May 802 Wireless Interim Session Dates

* The plan for in person was May 9-14, 2021
* 802.15 WG will hold its Sessions 5/11 - 5/20
* 802.15 CAC (a.k.a. AC - Advisory Committee) on 5/5, 10:00 am - Noon Eastern
* Fixed slots will be used for the TG, SG, IG chairs to select from

## Open Discussion / Next Steps

Happy St. Patricks Day!

Straw polls being collected from all WG w.r.t. next actual F2F 802 Mtg. There are many changing factors to consider, including:

* Personal
* Company
* Country
* Venue
* State (in the case of HI)

A Virtual Mtg. Registration Fee is being looked at for the July Plenary (this will be small w.r.t. to the normal registration fee)

## WG Adjourn

**11:25** Upon hearing no objections, the WG Chair adjourned the meeting.

## Summary of all Motions

### Motions

TG4y

*MOTION: “Move that 802.15 WG has reviewed and approves the CSD [EC-18-0084-00] and requests unconditional approval from the EC to submit P802.15.4y-D4 to RevCom.”*

Moved by Don Sturek, Seconded by Rick Alfvin

37 out of 52 on DVL voted

Upon no discussion the vote was taken with the results of 36/0/1, motion carries.

*MOTION: “Move that TG4y requests 802.15 WG approve the formation of a Comment Resolution Group (CRG) for the SA balloting of the P802.15.4y-D4 with the following membership: Don Sturek (As Chair), Tero Kivinen, Peter Yee, Ruben Salazar. The 802.15.4y CRG is authorized to approve comment resolutions and to approve the start of recirculation ballots of the revised draft on behalf of 802.15 WG. Comment resolution on ballots between sessions will be conducted via reflector email and via teleconferences announced to the reflector as per the LMSC 802 WG P&P.”*

Moved by Don Sturek, Seconded by Clint Powell

40 out of 52 on DVL voted

Upon no discussion the vote was taken with the results of 38/0/2, motion carries.

TG4aa

*MOTION: “Move that 802.15 WG start a WG Letter Ballot requesting approval of Coexistence Assessment (CA) document [15-21-0083-06-04aa] and draft document P802-15-4aa\_D6 and to forward document P802-15-4aa\_D6, to Standards Association ballot.”*

Moved by Takashi Kuramochi, Seconded by Rick Alfvin

44 out of 52 on DVL voted

Upon no discussion the vote was taken with the results of 41/0/3, motion carries.

*MOTION: “Move that 802.15 WG approve the formation of a Comment Resolution Group (CRG) for the WG balloting of the P802.15.4aa\_D6 with the following membership: Takashi Kuramochi (Chair), Kunal Shah (ITRON), Hiroshi Harada (Kyoto University), Kiyoshi Fukui (OKI), and Henk de Ruijter (Silicon Labs). The 802.15.4aa CRG is authorized to approve comment resolutions, edit the draft according to the comment resolutions, and to approve the start of recirculation ballots of the revised draft on behalf of the 802.15 WG. Comment resolution on recirculation ballots between sessions will be conducted via reflector email and via teleconferences announced to the reflector as per the LMSC 802 WG P&P.”*

Moved by Takashi Kuramochi, Seconded by Clint Powell

42 out of 52 on DVL voted

Upon no discussion the vote was taken with the results of 41/0/1, motion carries.

TG9ma

*MOTION: “Move that 802.15 WG has reviewed and approves the CSD [ec-20-0250-00-ACSD-p802-15-9-revision-1] and requests unconditional approval from the EC to submit P802.15.9ma-D05 to RevCom.”*

Moved by Tero Kivinen, Seconded by Ben Rolfe

38 out of 52 on DVL voted

Upon no discussion the vote was taken with the results of 36/0/2, motion carries.

*MOTION: “Move that 802.15 WG approve the formation of a Comment Resolution Group (CRG) for the Standards Association balloting of the P802.15.9ma-D05 with the following membership: Tero Kivinen (Chair), Ben Rolfe, Don Sturek, Pat Kinney, and Peter Yee. The 802.15.9ma CRG is authorized to approve comment resolutions, edit the draft according to the comment resolutions, and to approve the start of recirculation ballots of the revised draft on behalf of the 802.15 WG. Comment resolution on recirculation ballots between sessions will be conducted via reflector email and via teleconferences announced to the reflector as per the LMSC 802 WG P&P.”*

Moved by Tero Kivinen, Seconded by Ben Rolfe

40 out of 52 on DVL voted

Upon no discussion the vote was taken with the results of 39/0/1, motion carries.

TG13

*MOTION: “Move that 802.15 WG approves the formation of a Comment Resolution Group (CRG) for the Standards Association balloting of the P802.15.13\_D5 with the following membership: Volker Jungnickel as Chair, Nikola Serafimovski, Tuncer Baykas, Sang-Kyu Lim, and Tero Kivinen. The 802.15.13 CRG is authorized to approve comment resolutions, edit the draft according to the comment resolutions, and to approve the start of recirculation ballots of the revised draft on behalf of the 802.15 WG. Comment resolution on recirculation ballots between sessions will be conducted via reflector email and via teleconferences announced to the reflector as per the LMSC 802 WG P&P.”*

Moved by Lennert Bober, Seconded by Clint Chaplin

38 out of 52 on DVL voted

Upon no discussion the vote was taken with the results of 36/0/2, motion carries.

IG-DEP

*MOTION: “Motion: that the 802.15 Working Group seeks approval from the 802 EC to form a study group in 802.15 to develop the PAR and CSD documents for SG15.6a, an amendment to IEEE Std 802.15.6 for enhanced dependability, and additionally authorize the 802.15 WG Chair to make any necessary changes to these docs required to support the submission.”*

Moved by Ryuji Kohno, Seconded by Clint Powell

41 out of 52 on DVL voted

Upon no discussion the vote was taken with the results of 35/1/5, motion carries.

IG NG-UWB

*MOTION: “Move that the 802.15 Working Group seeks approval from the 802 EC to form a study group in 802.15 to develop the PAR and CSD documents for SG15.4ab, an amendment to IEEE Std 802.15.4 for enhanced Ultra Wideband (UWB) features, and additionally authorize the 802.15 WG Chair to make any necessary changes to these docs required to support the submission.”*

Moved by Ben Rolfe, Seconded by Clint Powell

44 out of 52 on DVL voted

Upon no discussion the vote was taken with the results of 43/0/1, motion carries.

*MOTION: “Request that the PAR and CSD contained in documents [15-21-0126-01] and [15-21-0047-05], respectively, be approved for submission to the WG for its approval and that the EC be requested to forward the PAR to NesCom.  The 802.15 working group chair and technical editor are authorized to make additional modifications to the PAR and CSD as needed to reflect EC discussion at its closing meeting.”*

Moved by Ben Rolfe, Seconded by Clint Powell

Question raised on calling out specific PAR and CSD in the 2nd used by Ruben Salizar. This will be an item for future changes to the 802.15 P&P discussion.

43 out of 53 on DVL voted

Upon no further discussion the vote was taken with the results of 40/0/3, motion carries.

IG NS-UWB

*MOTION: “Move that the 802.15 Working Group seeks approval from the 802 EC to form a study group in 802.15 to develop the PAR and CSD documents for SG15.14, a new standard focused only on UWB devices, and additionally authorize the 802.15 WG Chair to make any necessary changes to these docs required to support the submission.”*

Moved by Clint Powell, Seconded by Clint Chaplin

45 out of 52 on DVL voted

Upon no discussion the vote was taken with the results of 41/2/2, motion carries.

IG NS-NB

*MOTION: “Move that the 802.15 Working Group seeks approval from the 802 EC to form a study group in 802.15 to develop the PAR and CSD documents for SG15.15, a new IEEE 802.15 standard focused only on Narrow Band (NB) types of devices, and additionally authorize the 802.15 WG Chair to make any necessary changes to these docs required to support the submission.”*

Moved by Phil Beecher, Seconded by Clint Powell

40 out of 52 on DVL voted

Upon no discussion the vote was taken with the results of 38/0/2, motion carries.

SC THz

*MOTION: “Request that the text proposal contained in 15-21-0122-03-0thz-ieee-802-15-tag-thzliaison-statement-to-itu-r-wp5a be approved by the WG and submitted to 802.18.”*

Moved by Thomas Kurner, Seconded by Cint Powell

38 out of 53 on DVL voted

Upon no discussion the vote was taken with the results of 34/0/4, motion carries.

SC M, Rules

*MOTION: “Move that the IEEE 802.15 WG approves the IEEE 802.15 operation manual document 15-10-0235-27 as its Operations Manual following the conclusion of this March 2021 Plenary session.”*

Moved by Pat Kinney

31 out of 53 on DVL voted

Upon no discussion the vote was taken with the results of 29/0/2, motion carries.

## Action Items and Other Info

### PARS

NTR

# Annex A Virtual attendance = xxx

**802.15 CAC Mtg.**

**Wednesday, 5 May 2021**

## Attendance

Clint Powell

Pat Kinney

Kunal Shah

Christy Bahn

Jay Holcomb

Kai Lennert Bober

Marco Hernandez

Phil Beecher

Rick Alfvin

Ryuji Kohno

Takashi Kuramochi

Tero Kivinen

Thomas Kurner

## Minutes

* 802.15 WG May Agenda is now at r3:  
  <https://mentor.ieee.org/802.15/dcn/21/15-21-0167-03-0000-may-2021-agenda.xlsx>
* Attendance for 802.15 was discussed ad nauseum
  + For the May Session the following 16 time slots are defined as required
    - AM1, excepting Thurs. 5/13 (6)
    - AM2, excepting Thurs. 5/13 (5)
    - PM1, excepting Thurs. 5/13 (5)
    - The remaining time slots are deemed extra credit, and will be counted towards the 12 minimum needed
  + To meet the 5% attendance requirement, attendance would be needed at 12 time slots

**A/I: Chair and Vice Chairs will explain attendance terminology** - something along the lines of (as suggested by Tero):

Required meeting slot == only used to count the number of slots required to get voting rights, i.e., 75% of number of required slots needed. There is 16 required slots so you need 12 credits, and you can get them by attending required or extra credit slots.

* Voting will again be done using DirectVoteLive (DVL) in the closing plenary
  + Motions are due to Chair by the end of the EV2 time slot on Tues. May 18th.
* Study Group requests? PAR approvals, RevCom submissions?
* 802.9ma was approved by EC and is on RevCom agenda
* 802.15 July Plenary Session
  + July 13 – 21
    - Opening Plenary: 7/13, 9-11am Eastern
    - Closing Plenary: 7/21, 9-11am Eastern
  + CAC July 7 @ 10 am Eastern
* PAR Reminders
  + 802.15Cor1 will have a PAR change
  + 802.4ab, 802.14, 802.15, and 802.6a will possibly have PARs
  + 802.4ab, 802.14, 802.15, and 802.6a SGs will need SG extensions, regardless, to keep SGs active
  + 1 SG Request from SC THz
  + Important Dates
    - June 8 Pre-circulation of PARs to all WGs
    - July 14 802.15 SC Maintenance submits 802.15 comments on other  
      PARs (SC Maint. Chair will need to setup a couple of interim telco’s to rvw.)
    - July 21 802.15 response to other WG comments
    - July 23 EC approval Study Groups to be proposed to EC
* IEEE SA Dates
  + May 6 Submittal date for NesCom & RevCom (next date is Aug 13)
  + June 15 NesCom/RevCom teleconference (next meeting is Sept 22-23)
* Next Wireless Chairs Webex meeting
  + 5 May, 15:00 - 16:30 ET
  + <https://ieeesa.webex.com/ieeesa/j.php?MTID=mb88e4dd899ccf0f952693f6e770587d8>
* Special Notes
  + Kunal: schedule time and TG motions for an amended PAR to be submitted in July
  + Tero: schedule time for TG motion to approve draft and CSD and form CRG
  + Volker: need timeline to determine when we need the RevCom package ready
  + Ben: reaffirm PAR and CSD in TG and again request WG to forward PAR to NesCom in July
  + Ryuji: determine/setup some joint time slot(s) in July with 802.1 for TSN effort
  + Ryuji, Clint, and Phil: decide if more time is needed than is available by trying to get PAR and CSDs for July, and therefore ask for an extension to November  
    or  
    Prepare PAR and CSD for May WG Closing
* Subgroup Status and Plenary Plans
  + TG4 2020 Cor1
    - 3 sessions
    - Will work on PAR modification and draft text
  + TG4aa
    - 3 sessions
    - LB183 closes today, will work on comments and prepare motion for LB recric
  + TG7a
    - 4 sessions
    - NTR
  + TG9ma
    - 1 session
    - Need to form a CRG
    - Tero requested a (virtual meeting) private area be setup to host draft
  + A temporary private are pwd may be requested of the Chair and Vice-Chairs to access normally accessible docs at face-2-face meetings

**A/I: Vice Chair (Rick) will work on making this happen**

* + TG13
    - 3 sessions
    - Work on CR’s
  + TG16t
    - 2 sessions
    - NTR
  + SG6a
    - 3 sessions
    - Work on catching up schedule, and finalizing draft PAR and CSD for submission
  + SG4ab NG-UWB
    - 3 sessions + 1 Joint 15.4ab, 15.14, 15.15
    - Hearing presentations
    - Work on TGD
  + SG14 NS-UWB
    - 3 sessions + 1 Joint 15.4ab, 15.14, 15.15
    - Work on PAR, CSD, and motions
    - Hear any presentations
  + SG15 NS-NB
    - 3 sessions + 1 Joint 15.4ab, 15.14, 15.15
    - Work on PAR, CSD, and motions
    - Hear any presentations
  + SC THz
    - 1 session
    - Work on frequency bands
    - Hear 1 contribution
    - SC Chair has been working with 802.11 Chair (Dorothy Stanley) has been seeking guidance on what to say during 802.11 openings w.r.t. this topic, and on ITU-R issues
  + SC WNG
    - 1 session
    - No presentations currently scheduled
  + SC IETF
    - 1 session
  + SC Main
    - 1 session
    - No issues currently scheduled to discuss
    - Chair email address needs to change
* AOB
  + Question by Rick w.r.t. 15.4 2020 Corr and in SA system it is names Corr2, where as 802.15 is using Corr2.
    - Chair responded that Corr1 is the correct name and that it needs to be fixed on the SA side