**IEEE P802.15**

**Wireless Personal Area Networks**

|  |  |  |
| --- | --- | --- |
| Project | IEEE P802.15 Working Group for Wireless Personal Area Networks (WPANs) | |
| Title | **<IEEE802.15 WG minutes>** | |
| Date Submitted | [13 November 2020] | |
| Source | [Clint Powell] [] [Chandler, AZ] | Voice: [+1.480.586.8457] Fax: [--] E-mail: [cpowell@ieee.org] |
| Re: | [802.15 Plenary Meeting held virtually] | |
| Abstract | [IEEE 802.15 Working Group & CAC Minutes] | |
| Purpose | [Official minutes of the Working Group and CAC Sessions] | |
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**129th IEEE 802.15 WSN MEETING**

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

**Nov 2-13, 2020**

# Monday, 2 November 2020

**Opening**

**9:00 AM** WG Chair, Pat Kinney (Kinney Consulting), called the meeting to order and opened the WG Agenda (*15-20-0283-06-0000*)

**Announcements**

WG Chair gave a heartwarming, tear jerking, remembrance of our esteemed past chair - Dr. Robert F. Heile’s life. He followed with a recognition of his everlasting contributions to IEEE 802.15, IEEE 802 in general, and the Wireless Internet of Everything.

To Bob, So Long and Thanks for all the Fish…

Don’t forget to announce your name and affiliation before you speak

Jodi Haasz (IEEE SA) presented the concept of live voting at virtual meetings via DirectVoteLive (DVL). She explained how the voting application works and how to register. DVL will only be used at the closing plenary meeting on Thursday, 12 November. She also noted that the motions would be loaded in advance of the meeting. This process will require that the TG chairs send Pat Kinney (WG Chair) the motions for the closing meeting by end of Wednesday. Jodi has sent links to information on DVL.

WG Chair asked for new participants to speak up. No new participants were identified.

## Legal

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

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.

There were no attendant responses to this call.

## WG Approvals

Rick Alfvin (LineSpeed) moved to *approve the agenda (document 15-20-0283-06-0000-nov-2020-agenda)* with Ben Rolfe (Blind Creek Associates) seconding the motion. Following no objection, the agenda was approved.

Rick Alfvin (LineSpeed) moved *to approve the previous meeting minutes (document 15-20-0259-01-0000)* and Ben Rolfe (Blind Creek Associates) 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:

* Voters: (voters: 105, nearly: 3, aspirant: 25)
* Webex and other tools will be used for sessions
* IMAT will be used for attendance
  + 100% Attendance is established as 1 mtg. on 8 different days  
    (Fri. Nov. 6 will count as an extra credit day)
  + 75% Attendance = 1 mtg. on 6 different days
* 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 Noon EST, Wed. 11/1 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.

Ben Rolfe gave the treasurers report *(document: ec-20-0170-00)*

* No income
* Still have some costs
* Still holding at a balance of ~$400k

WG Chair gave notice of the 802.15 CAC meeting mins  
*(minutes: 15-20-0298-00-0000)*

WG Chair gave notice of the Wireless Chairs Steering Committee meeting mins  
*(minutes: ec-20-0221-00-WCSG-october-28-2020-minutes)*

## Officer Election Status

WG Chair and WG Vice Chair are working on a process. This will be brought to the EC at the Jan. 2021 wireless session for approval, with elections anticipating competing at the March 2021 Plenary session.

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

802.15 Status and Activities for the Week

* Task Group 15.4 Cor2 (2 sessions)
  + Develop draft based upon the proposals heard
* Task Group 15.4y – SECN (2 sessions)
  + WG motion or start SA Ballot
  + Review comments from MEC review
  + Form a CRG
* Task Group 15.4aa – JRE (3 sessions)
  + Discuss any comments on PAR/CSD
  + Hear proposals
* Task Group 15.7a – VAT (3 sessions)
  + Take stock of submissions received from Call for Applications (Deadline: Nov 4, 2020)
  + Appoint officers
* Task Group 15.9ma – KMP (1 session)
  + Finish comment resolution and hopefully get draft ready for SA Ballot
* Task Group 12 – ULI (0 sessions)
  + Not meeting during Plenary
* Task Group 13 – Multi Gigabit/sec OWC (3 sessions)
  + Complete comment resolution in CRG
  + Work all comments from WG and MEC into D4.0
  + Start LB recirculation
  + Start approvals to go to SA Ballot
* Task Group 16t – 802.16 Amendment (2 sessions)
  + Discuss any comments on PAR mod/CSD
  + Work on systems requirement document
* Interest Group – DEP (3 sessions)
  + Looking to be focusing on an amendment to 802.15.6 (Body Area Networks)
* Standing Committee – THz (1 session)
  + Invited of 1 - 2 speakers on THz sensing
  + Brainstorming on future THz standards/amendments
* Standing Committee – IETF (1 session)
  + Discuss IETF activities
* Standing Committee – SC-M, Rules (1 session)
  + Discuss Operation Manual changes
* Standing Committee – WNG (1 session)
  + Invitations confirmed for 2 presentations

**Any Other Business**

Pat acknowledged and thanked Rick for his support over the weekend and the many hours on Sunday getting IMAT ready.

Clint Powell (PWC LLC) acknowledged and thanked Pat for his taking on the Chairs role, while at the same time dealing with a great personal loss. Mary Lou (Pat’s wife) will be greatly missed by all who knew her and spent time with her at the many IEEE meetings.

WG Chair asked 1 favor of the group - that no one else die this year.

**WG Recess**

**9:58 AM** WG Chair recessed the meeting

# Thursday, 12 November 2020

## Opening

**9:03 AM** WG chair, Pat Kinney (Kinney Consulting) called the meeting to order

**9:04 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:

* WG Chair expressed that Bob Heile's shoes are still extremely large and difficult to fill
* WG Chair then asked the group about lessons earned and solicited feedback regarding the virtual plenary.

## Closing Reports

**9:10 AM 802.15 WG** Closing Agenda by Pat Kinney (Kinney Consulting) (15-20-0283-07)

**9:44 AM TG Cor2** closing report by Kunal Shah (Itron) (15-20-0342-00)

**9:47 AM TG 4y** closing report by Don Sturek (Itron) (15-20-0304-01)

*MOTION: 802.15 has reviewed and approves the CSD [ec-18-0084-00-ACSD-802-15-4y]; and requests unconditional approval from the EC to submit P802.15.4y-D2 to Standards Association ballot.*

Moved by Don Sturek, Seconded by Tero Kivinen

Upon no discussion the vote was taken with the results of 29/0/1, motion carries.

*MOTION: Move that 802.15 WG approve the formation of a Comment Resolution Group (CRG) for the SA balloting of the P802.15.4y-D2 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 Tero Kivinen

Upon no discussion the vote was taken with the results of 32/0/1, motion carries.

**9:55 AM TG4aa** closing report by Takashi Kuramochi (Lapis) (15-20-0309-05)

*MOTION: Request that the PAR and CSD contained in documents [15-20-0202-04-802.15.4aa PAR for Japanese Rate Extension] and [15-20-0319-00-04aa-draft-csd-for-japanese-rate-extension], respectively, be approved by the IEEE 802.15 WG and that the 802 LMSC 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 Takashi Kuramochi, Seconded by Phil Beecher

Upon no discussion the vote was taken with the results of 26/1/1, motion carries.

**10:03 AM TG7a** closing report by Yeong Min Jang (Kookmin University) (15-20-0329-00)

Reported affirmation of TG7a officers as follows:

* + - Chair: Yeong Min Jang (Kookmin University)
    - Vice Chair: Sangsung Choi (ETRI)
    - Chief Technical Editor: TBD
    - Technical Editor: TBD
    - Secretaries: Vinayagam Mariappan, TBD

**10:11 AM TG9ma** closing report by Tero Kivinen (Self) (15-20-0302-01)

*MOTION: 802.15 has reviewed and approves the CSD 15-19-216-02 and requests unconditional approval from the EC to submit P802.15.9ma-D02 to Standards Association ballot.*

Moved by Tero Kivinen, Seconded by Don Sturek

Upon no discussion the vote was taken with the results of 29/0/0, 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-D02 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 Don Sturek

Upon no discussion the vote was taken with the results of 30/0/0, motion carries.

**10:18 AM TG13** closing report by Volker Jungnickel (Fraunhofer HHI) (15-20-0311-01)

*MOTION: 802.15 has reviewed and approves the CSD [15-17-0075-01]; and requests conditional approval from the EC to submit P802.15.1-D4 to Standards Association ballot.*

Moved by Volker Jungnickel, Seconded by San Kyu Lim

Upon no discussion the vote was taken with the results of 28/0/3, motion carries.

*MOTION: Move that 802.15 WG approves the formation of a Comment Resolution Group (CRG) for the Standards Association balloting of the P802.15.1-D4 with the following membership: Volker Jungnickel as Chair, Nikola Serafimovski, Tuncer Baykas, Sang-Kyu Lim, Jörg Robert, 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 Volker Jungnickel, Seconded by San Kyu Lim

Upon no discussion the vote was taken with the results of 28/0/4, motion carries.

*MOTION: Move that 802.15 WG approves the formation of a Comment Resolution Group (CRG) for the WG balloting of the P802.15.1-D4 with the following membership: Volker Jungnickel as Chair, Nikola Serafimovski, Tuncer Baykas, Sang-Kyu Lim, Jörg Robert, 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 Volker Jungnickel, Seconded by San Kyu Lim

Upon no discussion the vote was taken with the results of 28/0/4, motion carries.

**10:26 AM TG16t** closing report by Tim Godfrey (EPRI) (15-20-0358-1)

*MOTION: Move to request that the PAR and CSD contained in documents [15-20-0196-02-016t-licensed-narrowband-amendment-par] and [ec-19-0222-00-ACSD-p802-16t], respectively, be approved by the IEEE 802.15 WG and that the 802 LMSC 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 Tim Godfrey, Seconded by Rick Alfvin

Upon no discussion the vote was taken with the results of 27/0/5, motion carries.

**9:34 AM IGDEP** closing report by Ryuji Kohno (YNU/CWC U of Oulu) (15-20-0366-01)

WG Chair requested that the IGDEP Chair give a presentation at the Jan. WNG session, prior to requesting formation of a Study Group.

**9:42 AM SC THz** closing report by Thomas Kurner (TU Braunschweig) (15-20-0340-00)

**9:50 AM SC IETF** closing report by Tero Kivinen (Self) (15-20-0348-00)

**10:54 AM SC WNG** closing report by Ben Rolfe (BCA/UWBA) (15-20-0369-00)

WG Chair requested that the SC WNG Chair give an update at the Jan. WNG session of the progress of the 2 Interest Groups being formed.

* Explore 802.15.4 organization changes
* Next generation UWB

**11:04 AM SC M, Rules** verbal closing report by Pat Kinney (Kinney Consulting)

Reviewed that the 8902.15 operations manual changes w.r.t. virtual meetings and voting of officers in face-2-face meetings, virtual meetings, and via electronic ballot.

**11:14 AM 802.24** Liaison verbal report by Tim Godfrey (EPRI) (24-20-0016-00)

**11:17 AM 802.18** Liaison report by Jay Holcomb (Itron) (15-20-0363-00)

**11:19 AM 802.19** Liaison report by Ben Rolfe (BCA/UWBA)

A recirculation of the recommended coexistence practice has been started

802.19 will not be meeting in the Jan. Wireless Interim

**11:11 AM 802.11** Liaison report N/A

## Review of January Virtual Interim meeting plans

WG Chair noted that the 802 Wireless Interim Session had been planned for Jan 10 – 15.

Discussion ensued on actual dates for the 802.15 virtual interim session.

Decision by 802.15 WG is to hold a virtual interim meeting from Tues, Jan. 12 to Thurs, Jan. 21.

The CAC meeting will be held on Jan. 5.

Will be seeking WG approval of 802.15 Officer Elections process in CAC and at WG Closing Plenary.

## WG Adjourn

**11:33** WG Chair asked if there any objections to adjourning the meeting. Upon hearing no objections, the WG Chair adjourned the meeting.

## Summary

### Motions

TG4y

*MOTION: 802.15 has reviewed and approves the CSD [ec-18-0084-00-ACSD-802-15-4y]; and requests unconditional approval from the EC to submit P802.15.4y-D2 to Standards Association ballot.*

Moved by Don Sturek, Seconded by Kunal Shah

Upon no discussion the vote was taken with the results of 29/0/1, motion carries.

*MOTION: Move that 802.15 WG approve the formation of a Comment Resolution Group (CRG) for the SA balloting of the P802.15.4y-D2 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 Kunal Shah

Upon no discussion the vote was taken with the results of 32/0/1, motion carries.

TG4aa

*MOTION: Request that the PAR and CSD contained in documents [15-20-0202-04-802.15.4aa PAR for Japanese Rate Extension] and [15-20-0319-00-04aa-draft-csd-for-japanese-rate-extension], respectively, be approved by the IEEE 802.15 WG and that the 802 LMSC 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 Takashi Kuramochi, Seconded by Phil Beecher

Upon no discussion the vote was taken with the results of 26/1/1, motion carries.

TG9ma

*MOTION: 802.15 has reviewed and approves the CSD 15-19-216-02 and requests unconditional approval from the EC to submit P802.15.9ma-D02 to Standards Association ballot.*

Moved by Tero Kivinen, Seconded by Don Sturek

Upon no discussion the vote was taken with the results of 29/0/0, 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-D02 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 Don Sturek

Upon no discussion the vote was taken with the results of 30/0/0, motion carries.

TG13

*MOTION: 802.15 has reviewed and approves the CSD [15-17-0075-01]; and requests conditional approval from the EC to submit P802.15.1-D4 to Standards Association ballot.*

Moved by Volker Jungnickel, Seconded by San Kyu Lim

Upon no discussion the vote was taken with the results of 28/0/3, motion carries.

*MOTION: Move that 802.15 WG approves the formation of a Comment Resolution Group (CRG) for the Standards Association balloting of the P802.15.1-D4 with the following membership: Volker Jungnickel as Chair, Nikola Serafimovski, Tuncer Baykas, Sang-Kyu Lim, Jörg Robert, 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 Volker Jungnickel, Seconded by San Kyu Lim

Upon no discussion the vote was taken with the results of 28/0/4, motion carries.

*MOTION: Move that 802.15 WG approves the formation of a Comment Resolution Group (CRG) for the WG balloting of the P802.15.1-D4 with the following membership: Volker Jungnickel as Chair, Nikola Serafimovski, Tuncer Baykas, Sang-Kyu Lim, Jörg Robert, 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 Volker Jungnickel, Seconded by San Kyu Lim

Upon no discussion the vote was taken with the results of 28/0/4, motion carries.

TG16t

*MOTION: Move to request that the PAR and CSD contained in documents [15-20-0196-02-016t-licensed-narrowband-amendment-par] and [ec-19-0222-00-ACSD-p802-16t], respectively, be approved by the IEEE 802.15 WG and that the 802 LMSC 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 Tim Godfrey, Seconded by Rick Alfvin

Upon no discussion the vote was taken with the results of 27/0/5, motion carries.

### Straw Polls

Straw Poll #1

When do you expect the next in person 802.15 Session will be?

1. March 2021 4 8%
2. May 2021 1 2%
3. July 2021 8 16%
4. Sept 2021 10 20%
5. November 2021 10 20%
6. after 2021 6 12%
7. No Answer 5 10%

Did not respond 6 12%

**Total Participants 50**

Straw Poll #2:

Based upon your affiliation’s and other restrictions, as well as your personal comfort level, when is the earliest you expect to be able to attend an 802.x face-to-face meeting?

1. March 2021 5 10%
2. May 2021 3 6%
3. July 2021 6 12%
4. Sept 2021 8 16%
5. November 2021 11 22%
6. after 2021 12 24%
7. No Answer 3 6%

Did not respond 3 6%

**Total Participants 51**

### Action Items

NTR

# Annex A Virtual attendance = 96

|  |  |  |
| --- | --- | --- |
| **Last Name** | **First Name** | **Affiliation** |
| Alfvin | Richard | Linespeed Events LLC |
| Barras | David | 3db Access AG |
| Baykas | Tuncer | Istanbul Medipol University |
| Beecher | Philip E | Wi-SUN Alliance |
| Bims | Harry | Bims Laboratories, Inc. |
| Bober | Lennert | Fraunhofer Heinrich Hertz Institute |
| Calvert | Chris | Landis Gyr Group Worldwide |
| Chaplin | Clint | Self |
| Choi | Sangsung | Kookmin University |
| Clanney | Nathan | Siemens Mobility, Inc. |
| Connerley | Royce | Union Pacific Railroad |
| Danev | Boris | 3db Access AG |
| De Ruijter | Hendricus | Silicon Laboratories |
| Dolmans | Guido | Holst Centre / IMEC-NL |
| Dotlic | Igor | Qorvo |
| Ekrem | Ersen | Apple, Inc. |
| Fukui | Kiyoshi | Oki Electric Industry Co., Ltd. |
| Gilb | James | University of San Diego |
| Godfrey | Tim | Electric Power Research Institute, Inc. (EPRI) |
| Guo | Jianlin | Mitsubishi Electric Research Labs (MERL) |
| Haasz | Jodi | IEEE Standards Association (IEEE-SA) |
| Hafuka | Takamitsu | Lapis Technology Co., Ltd |
| Hammerschmidt | Joachim | Apple, Inc. |
| Han | Chong | pureLiFi |
| Harada | Hiroshi | National Institute of Information and Communications Tech. (NICT) |
| Henry | Jerome | Cisco Systems, Inc. |
| Hett | Christopher | Landis Gyr Group Worldwide |
| Holcomb | Jay | Itron Inc. |
| Holland | Oliver | Advanced Wireless Technology Group (AWTG), Ltd. |
| Hosaka | Iwao | National Institute of Information and Communications Tech. (NICT) |
| Ikegami | Tetsushi | Meiji University |
| Jang | Yeong Min | Kookmin University |
| Jiang | Jeng-Shiann | Vertexcom Technologies |
| Joo | Seong-Soon | Electronics and Telecommunications Research Institute (ETRI) |
| Jornet | Josep Miquel | University at Buffalo |
| Jungnickel | Volker | Fraunhofer Heinrich Hertz Institute |
| Juntunen | Juha | Meteor Communications Corp. |
| Kashiwagi | Yoshio | Nissin Systems |
| Kim | Jeong Gon | Korea Polytechnic University (KPU) |
| Kinney | Patrick | Kinney Consulting LLC |
| Kitazawa | Shoichi | Muroran IT |
| Kivinen | Tero | Self Employed |
| KOBAYASHI | Takumi | Yokohama National University |
| Kohno | Ryuji | YNU/CWC UofOulu |
| Krieger | Ann | US Department of Defense |
| Kuerner | Thomas | TU Braunschweig |
| Kuramochi | Takashi | LAPIS Technology Co., Ltd |
| Kuribayashi | Hideyuki | Rohm Co., Ltd |
| Li | Huan-Bang | National Institute of Information and Communications Tech. (NICT) |
| Li | Liang | Vinno Technologies Inc. |
| Lim | Sang-Kyu | Electronics and Telecommunications Research Institute (ETRI) |
| Luo | Xiliang | Apple, Inc. |
| Mariappan | Vinayagam | SMR Automotive Modules Korea Ltd |
| Matsumura | Yuki | Rohm Co., Ltd |
| Miele | Gianfranco | University of Cassino and Southern Lazio |
| Mody | Apurva | BAE Systems |
| Mueller | Robert | Technische Universitaet Ilmenau |
| Murray | Carl | Qorvo |
| Nagai | Yukimasa | Mitsubishi Electric Corporation |
| Naguib | Ayman | Apple, Inc. |
| Nakanishi | Seiji | Lapis |
| Nelson | Kathleen | Ondas Networks |
| Niewczas | Jaroslaw | Qorvo |
| Nikolich | Paul | YAS Broadband Ventures, LLC. |
| ODuinn | Marcas | Qorvo |
| Okumura | Ryota | Kyoto University |
| Orlik | Philip | Mitsubishi Electric Corporation |
| Paget | Martin | Ondas Networks |
| Palmer | Clark | Meteorcomm LLC |
| Pirhonen | Riku | NXP Semiconductors |
| Polland | Joe | Self |
| Powell | Clinton | Powell Wireless Commsulting, LLC |
| Robert | Joerg | University of Erlangen-Nuremberg |
| Rocha | Alessandra | Wimax forum |
| Rolfe | Benjamin | Blind Creek Associates |
| Salazar Cardozo | Ruben E | Landis+Gyr AG |
| Sand | Stephan | German Aerospace Center (DLR) |
| Sasoglu | Eren | Apple, Inc. |
| Sekine | Norihiko | National Institute of Information and Communications Tech. (NICT) |
| Serafimovski | Nikola | pureLiFi |
| Serang | Daoud | CML Microcircuits (USA) Inc. |
| Shah | Kunal | Itron Inc. |
| Shahar | Menashe | Ondas Networks |
| Simpson | Guy | Full Spectrum |
| Smith | William | BNSF Railway |
| Stuebing | Gary | Cisco Systems, Inc. |
| Sturek | Don | Itron Inc. |
| Sumi | Takenori | Mitsubishi Electric Corporation |
| Suzuki | Takafumi | National Institute of Information and Communications Tech. (NICT) |
| Tanaka | Hitoshi | LAPIS Semiconductor Co., Ltd |
| Thompson | Tom | IEEE Staff |
| Toda | Hiroyuki | LAPIS Semiconductor Co., Ltd |
| Verso | Billy | DecaWave / Qorvo |
| Wechsler | Johannes | Fraunhofer Institute for Integrated Circuits IIS |
| Yang | Shang-Te | Apple, Inc. |
| Yee | Peter | NSA-CSD |
|  |  |  |

**802.15 CAC Mtg.**

**Friday, 30 October 2020**

## Attendance

Rick Alfvin

Clint Chaplin

Tim Godfrey

Pat Kinney

Tero Kivinen

Takashi Kuramochi

Thomas Kurner

Clint Powell

Ben Rolfe

Kunal Shah

Don Sturek

## Minutes

* Reviewed individual high-level subgroup agendas and time slot needs
  + Some adjustments were made to the Agenda and a revision will be posted
  + Adjustments will also be made to the WG Opening Slides and a revision will be posted as well
  + TG, IG, SC Chairs may use online mtg. tools than Webex for virtual plenary sessions
* PARs, Drafts, CRGs
  + Discussed plans to approve PAR changes
    - See note above re: motions related to PARS
  + Discussed plans to approve drafts ready to go to SA ballot
  + Discussed plans to approve CRG formations
  + As the WG Closing is the 1st thing in the morning on Thurs. Nov. 12, the Chair will want all WG Closing Motions (especially those relating to PARS) in by Noon EST, Wed. 11/11
* Discussed plans for January 2021 Interim
  + CAC decided 802.15 WG will hold a virtual interim from Jan. 11 to Jan 18
  + 802.15 CAC for this interim will be held on Jan. 5, from 10am - Noon Eastern time