**IEEE 802.15**

**Wireless Specialty Networks (WSN)**

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| Project | IEEE P802.15 Working Group for Wireless Specialty Networks (WSN) | |
| Title | **802.15 WG & CAC & WNG & Joint 1/15 Minutes March 2025** | |
| Date Submitted | [23 April 2025] | |
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| Re: | [] | |
| Abstract | [IEEE 802.15 Working Group & CAC & WNG Minutes] | |
| Purpose | [Official minutes of the Working Group Opening/Mid-week/Closing/Joint and CAC Sessions] | |
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**155th IEEE 802.15 WSN SESSION**

**Atlanta Hilton, Atlanta, GA (all times in local)**

**March 09-13, 2025**

# 802.15 WG Opening

# Monday, 10th March 2025

**10:30AM** WG Chair, Clint Powell (PWC LLC), calls the meeting to order and opens the WG Agenda (doc #[*15-25-0077-03*](https://mentor.ieee.org/802.15/dcn/25/15-25-0077-03-0000-march-2025-802-15-agenda.xlsx))

## Announcements

* Welcome to the 155th session.
* Do not forget to log in to IMAT to record your attendance. Do not log attendance if you do not attend.
* Use the microphone when you speak, stating your name and affiliation when you speak the first time.
* You must be registered to participate in any of these session meetings. If you do not, you are classified as a “dead-beat”.
* This is a mixed mode meeting. You can either attend online or in person.
* Direct Vote Live (DVL) will be used during the closing Plenary.
* >= 75% Attendance = min 12 time slots (of 16) is needed to get attendance credit.
* For updates on meetings please write Ann Krieger an e-mail and cc. Clint Powell.
* Motions for the closing plenary shall be send to Phil Beecher and Ann Krieger as soon as possible.
* There are currently some problems with the e-mail reflector, as some e-mail providers do not allow to send e-mails to listserv. This may also mean that people get removed from listserv automatically.
* WG Chair asks for new participants to speak up: One new attendee in the room and one online.

## Legal

* WG Chair informs the group of and displays the IEEE-SA patent policy presentation slides 0-5 ([*http://standards.ieee.org/board/pat/pat-slideset.ppt*](http://standards.ieee.org/board/pat/pat-slideset.ppt)).
* The WG Chair asks the participants who wishes 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 are brought forth.
* The WG Chair displays and reads the standard IEEE Anti-Trust statement and the standard IEEE Copyright Policy, including Code of Ethics.
* The WG Chair reminds the TG/SG/SC chair that they must show the policies at every session, but they do not need to reread through them all.
* The question for patent claims has to be done at every single session.
* Q: Is there any liaison with Bluetooth SIG.
* A: There is currently no liaison.

## WG Approvals

Motion to *approve the agenda* (doc #[*15-25-0077-03*](https://mentor.ieee.org/802.15/dcn/25/15-25-0077-03-0000-march-2025-802-15-agenda.xlsx))

* Moved by: Ben Rolfe (BCA)
* Seconded by: Joerg Robert (FAU Erlangen-Nuernberg)
* Discussion: none
* Approved by unanimous consent.

Motion to approve the previous meeting minutes *(*doc #[*15-25-0093-00*](https://mentor.ieee.org/802.15/dcn/25/15-25-0093-00-0000-802-15-wg-cac-wng-minutes-january-2025.docx)*)*

* Moved by: Joerg Robert (FAU Erlangen-Nuernberg)
* Seconded by: Ann T Krieger (U.S. DoD)
* Discussion: none
* Approved by unanimous consent.

WG Chair presents the SASB dates (doc #[*15-25-0077-03*](https://mentor.ieee.org/802.15/dcn/25/15-25-0077-03-0000-march-2025-802-15-agenda.xlsx))

* Exact dates are given on the sheet “2025 SASB Dates”

## General and Administrative

WG Vice-Chair presents the general meeting information:

* 802.15 Voters:
  + Voters: 116
  + Nearly: 17
  + Aspirant: 23
* For questions regarding voting rights contact Ann Krieger

Chair reminds everybody to reply on Letter Ballots, otherwise voting rights may be lost!

The social is on Wednesday. Registration is required for the social. Few tickets are left.

Chair shows opening report (doc #[*15-25-0078-02*](https://mentor.ieee.org/802.15/dcn/25/15-25-0078-02-0000-march-2025-802-15-opening-report.pptx))

* Discussion on the future of 802.15.14 and 802.15.15 in WNG and leadership.
* 802.15.4ab requires PAR extension at the end of the year.

Ben Rolfe (BCA) presents the treasurer report (doc #[ec-25-0001-01](https://mentor.ieee.org/802-ec/dcn/25/ec-25-0001-01-WCSG-wireless-treasurer-report-2025.pptx))

At least one person from every group working on a standard has to attend the Technical Editor meeting.

## Future Meetings and Polls

Future Meetings:

* Next meeting will be held in Warsaw, Poland
* Registration is open
* In-Hotel stay discount available on registration fees

Polls:

* No polls today

## 802.15 Status Reports (Goals/Objectives for the Week)

**TG 4ab (NG-UWB)**: Ben Rolfe (BCA)

* Review of the draft, drafting new comments
* Still some controversial comments

**SC WNG**: Ben Rolfe (BCA)

* Two presentations planned

**IG Access:** Ben Rolfe (BCA)

* One meeting planned

**Joint .15/.11 Mtg:** Ben Rolfe (BCA)

* Not meeting in Atlanta

**TG 4ac (Privacy Amendment):** Tero Kivinen (Wi-SUN)

* First letter ballot completed, approx. 100 comments
* Work will focus on comment resolution

**SC IETF:** Tero Kivinen (Wi-SUN)

* Short presentation during the mid-week

**TG 4ae Ascon Cryptographic Algorithms Amendment:** Tero Kivinen (Wi-SUN)

* Review of NIST comments
* Discussion of test vectors

**TG 9a EDHOC KMP Amendment:** Tero Kivinen (Wi-SUN)

* Discussion of pre-ballot comments
* Start of letter ballot planned during closing

**WG15 Editors:** Tero Kivinen (Wi-SUN)

* Technical editors shall attend the session

**TG 4ad**: Phil Beecher (Wi-SUN)

* Review of proposals and simulation results

**SC (Maintenance& Rules)**: Phil Beecher (Wi-SUN)

* 802.15 security related topics
* PAR related topics

**TG 6ma (BAN/VAN)**: Ryuji Kohno (YNU/YRP-IAI)

* Four meetings, several presentations
* Still working on draft for recirculation, 2 no votes, 254 comments

**IG NG OWC:** Yeong Min Jang (Kookmin University)

* Two sessions
* Different presentations

**TG 16t Lic NB Amendment**: Tim Godfrey (EPRI)

* Motion to proceed to RevCom

**TG 16me Lic Revision**: Tim Godfrey (EPRI)

* PAR has been approved
* Roll in 16t into base standard

## New Business

* Chair reminds everybody of the IEEE LinkedIn activities
* Update on FCC Petition by NextNav, NextNav has submitted coexistence assessment document
* Additional topic raised is on wireless energy transfer in 900MHz band
* Chair wants to push 802.15 for IEEE milestone

## AOB

* No AOB

## WG Recess

**11:49 AM** WG Chair recessed the meeting until the mid-week on Wednesday.

# 802.15 WG Mid-week

# Wednesday, 12th March 2025

**10:05 am** WG Chair, Clint Powell (PWC LLC) calls the session to order. He displays the agenda (doc #[*15-25-0077-04*](https://mentor.ieee.org/802.15/dcn/25/15-25-0077-04-0000-march-2025-802-15-agenda.xlsx)).

1. **Announcements**

* Registration is required to attend this session. State your name and affiliation when you speak for the first time. IMAT is used to record attendance.
* Please do not register to IMAT if you are not participating to the meeting.
* People attending AdHoc meetings will not be granted Attendance Credit.
* Direct Vote Live will be using for the voting during Closing Plenary.

## General and Administrative

* Remember the social tonight. The busses leave at 6:00pm from the hotel.
* The new voting right system will be in operation soon. Please do not forget to vote on Letter Ballots. Otherwise voting rights may be lost.
* Chair asks if people have received messages on reflectors, as there is currently an issue with some e-mail providers.

## Future Meetings and Polls

* Do not forget to register for the Atlanta meeting in March. Registration is open.
* There is a discount for staying at the meeting hotel.
* The future venue meeting AdHoc is on Thursday at 7:30am.

## Midweek Subgroup Status Updates

**TG 4ab**:

* Making progress

**SC WNG**:

* Two presentations today

**IG Access**:

* One presentation
* Will continue as IG, want to stark to work on PAR in May

**TG 4ac:**

* Processed all comments, LB recirculation motion during the closing

**TG 9a:**

* Already adjourned, all comments addressed

**TG4ae:**

* Working on draft
* Pre-LB comments collection will start soon

**SC IETF:**

* Tero Kivinen (Wi-SUN Alliance) shows doc. #[15-25-0146-00](https://mentor.ieee.org/802.15/dcn/25/15-25-0146-00-IETF-sc-ietf-march-slides.pptx)
* Only few groups currently active on IoT: 6lo, Lake, Suit

**TG 4ad:**

* Presentation of simulation results

**Joint .15/.1 Mtg:**

* Presentation of security activities in 802.15

**SC Maintenance/Rules:**

* PAR reviews of other groups
* Discussion of received comments for corrigendum PAR
* Updates required for corrigendum PAR

**TG 6ma**:

* Work focuses on comment resolution
* Recirculation and CRG motion required during the closing

**IG NG-OWC**:

* Multiple presentations
* Drafting call for applications
* Next meeting in July

**TG 16t**:

* Completed comment resolution
* Motion to forward 16t to RevCom, required packet created
* Work is complete unless unexpected happens

**TG 16me**:

* Will work on integration of 16t

## New Business

* No topics are raised

## Any Other Business

* Discussion of WiFi connection problems in the room

## WG Recess

**11:05am** 802.15 Midweek recessed by Chair until Thursday 4:00pm.

# 802.15 WNG

# Wednesday, 12th March 2025

**11:16 am** SC WNG Chair, Ben Rolfe (BCA) calls the session to order. He displays the agenda (doc #[*15-25-0114-00*](https://mentor.ieee.org/802.15/dcn/25/15-25-0114-00-wng0-wireless-next-generation-meeting-slides-march-2025.pptx)).

1. **Announcements and Agenda**

* Registration is required to attend this session. State your name and affiliation when you speak for the first time. IMAT is used to record attendance.
* The chair reminds everybody of the meeting policies.
* The chair presents the agenda. The group agrees on the agenda.

## Group Association for IEEE 802.15.4

* + Jianlin Guo (Mitsubishi Electric) presents doc. #[15-25-0137-00](https://mentor.ieee.org/802.15/dcn/25/15-25-0137-00-wng0-group-association-for-ieee-802-15-4.pptx)
  + Q: Fast association may be very complicated. What are the boundary conditions assumed?
  + A: Up to now 4ab not in focus.
  + Q: How will the proposal compare to 802.11?
  + A: Did not take a look at 802.11.
  + Chair suggests to give this presentation also in 15.4ab.

## Waveform compression and its rule in Lower Power Network security and efficiency

* Planned presenter is not in the meeting. Presentation cancelled.

## AoB

* No topics are raised.

## SC WNG Adjourn

* The SC WNG Chair adjourns the meeting at 11:49am.

# 802.15 WG Closing

# Thursday, 13th March 2025

**4:06 PM** WG Chair, Clint Powell (PWC LLC) calls the session to order and displays the closing agenda document (doc #[*15-25-0077-04*](https://mentor.ieee.org/802.15/dcn/25/15-25-0077-04-0000-march-2025-802-15-agenda.xlsx))

## Announcements

* The Vice-Chair reminds everybody of the meeting policies.
* Registration is required to attend this meeting.
* Check the attendance for the meeting, as 75% is required for the voting rights.
* Please log into DVL now. If you have not received an email, please contact the vice chair.

## General and Administrative

* No topics are discussed

## Future Meetings and Polls

* Registration for the May interim in Warsaw is open. 300$ discount if you stay at the conference hotel.
* Strawpoll on the Atlanta meeting:
  + Strawpoll: Did you like the venue? 6;
  + Strawpoll: Did you go to the social? 35
  + Strawpoll: How many people liked the social? 21
  + Strawpoll: Dou you want the same social again next time? 0
* Strawpoll on yearly plenary meeting locations:
  + Do you like to have one meeting in North America, Europe, and APAC: 39
  + Dou you want to have only a single meeting outside North America: 8

## Sub-Groups and Committees Closing Reports

**TG16t Closing Report**:

* Tim Godfrey (EPRI) oral report
* Document packet for RevCom was created and submitted
* Closing report is in doc. #[15-25-0163-00](https://mentor.ieee.org/802.15/dcn/25/15-25-0163-00-016t-tg16t-march-2025-plenary-closing-report.pptx)
* **TG16t Motion: TG16t to Revcom**
  + Move that 802.15 WG has reviewed and approves the CSD [802.24-19-0030r1] and requests unconditional approval from the IEEE 802 LMSC to submit P802.16t-D7.0 to RevCom.
  + Moved by: Tim Godfrey
  + Seconded by: Phil Beecher
  + Discussion: None
  + Result: Y 37; N 0; A 2
  + Motion passes
* **TG16t Motion: TG16t CRG Formation**
  + Move that 802.15 WG approve the formation of a Comment Resolution Group (CRG) with the following membership: Tim Godfrey (Chair), Vishal Kalkundrikar, Harry Bims, Tero Kivinen, and Joerg Robert. The 802.15.16 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.
  + Move: Tim Godfrey
  + Second: Phil Beecher
  + Discussion: None
  + Result: Y 40; N 0; A 0
  + Motion passes

**TG16me Closing Report**:

* Tim Godfrey (EPRI) gives oral closing report
* Discussion of the next steps for revision
* Closing report is in doc. #[15-25-0121-01](https://mentor.ieee.org/802.15/dcn/25/15-25-0121-01-16me-tg16-me-revision-march-2025-agenda-and-presentation.pptx)

**TG6ma Closing Report**:

* Ryuji Kohno (YNU/YRP-IAI) presents the TG6ma closing report (doc. #[15-25-0151-01](https://mentor.ieee.org/802.15/dcn/25/15-25-0151-01-006a-tg15-6ma-closing-report-for-march-2025.pptx))
* Finished work to start recirculation
* Q: Are all CRG members voting members
* A: Yes
* Q: Only a single affiliation in the pool
* A: Yes
* **TG6ma Motion: TG6ma - CRG formation for Letter Ballot**
  + Move that 802.15 WG approves the formation of a Comment Resolution Group (CRG) for the WG balloting of P802.15.6ma\_D05 with the following membership: Ryuji Kohno (YNU/YRP-IAI), Huan-Bang Li (NICT), Takumi Kobayashi (Nitech), Marco Hernandez, Seong-Soon Joo (NHT). The 802.15.6ma 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: Ryuji Kohno
  + Seconded By: Phil Beecher
  + Discussion: None
  + Result: Y 33; N 0; A 0
  + Motion passes
* **TG6ma Motion: TG6ma - Motion to start Recirculation Letter Ballot**
  + Move that 802.15 WG start a WG Letter Ballot requesting approval of CA document 15-24-0348-04 and document P802-15-6ma\_D04 (as edited in accordance with the instructions in document 15-25-0138-04) and to forward document P802-15-6ma\_D05, as edited in accordance with the instructions in document 15-25-0138-04, and CA document 15-24-0348-04 to Standards Association ballot pending the completion and inclusion of the edits in the draft.
  + Moved by: Ryuji Kohno
  + Seconded by: Phil Beecher
  + Discussion: None
  + Result: Y 38; N 0; A 0
  + Motion passes

**TG4ac Closing Report:**

* Tero Kivinen (Wi-SUN Alliance) presents the TG4ac closing report (doc. #[*15-25-0118-02*](https://mentor.ieee.org/802.15/dcn/25/15-25-0118-02-04ac-march-opening-and-closing.pptx)*)*
* Project task list updated
* Finished comment resolution for letter ballot
* Updated timeline is presented
* **TG4ac motion: TG4ac - Motion to start recirculation letter ballot**
  + Move that 802.15 WG start a WG recirculation requesting approval of document P802.15.4ac\_D01 and to forward document P802.15.4ac\_D01, to Standards Association ballot.
  + Moved: Tero Kivinen
  + Second: Phil Beecher
  + Discussion: None
  + Result: Y 33; N 2; A 1
  + Motion passes
* **TG4ac Motion: TG4ac - CRG formation for Letter Ballot**
  + Move that 802.15 WG approve the formation of a Comment Resolution Group (CRG) for the WG balloting of the P802.15.4ac\_D01 with the following membership: Tero Kivinen (Chair), Ann Krieger, Alex Krebs, and Peter Yee. The 802.15.4ac 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: Tero Kivinen
  + Second: Phil Beecher
  + Discussion: None
  + Result: Y 38; N 0; A 1
  + Motion passes
* SA ballot pool collection has to start soon

**TG4ae Closing Report:**

* Tero Kivinen (Wi-SUN Alliance) presents the TG4ae closing report (doc. #[15-25-0119-00](https://mentor.ieee.org/802.15/dcn/25/15-25-0119-00-04ae-march-opening-and-closing.pptx))
* Went through NIST comments
* Test vectors prepared
* Finished initial draft
* Updated timeline is presented
* Letter ballot will start depending on progress in NIST

**TG9a Closing Report:**

* Tero Kivinen (Wi-SUN Alliance) presents the TG4ae closing report (doc. #[*15-25-0117-01*](https://mentor.ieee.org/802.15/dcn/25/15-25-0117-01-009a-march-opening-and-closing.pptx)*)*
* Finished work on initial draft
* **TG9a Motion: TG9a - Start Letter Ballot**
  + Move that 802.15 WG start a WG Letter Ballot requesting approval of document P802-15-9a\_D00 and to forward document P802-15-9a\_D00, to Standards Association ballot.
  + Moved: Tero Kivinen
  + Second: Phil Beecher
  + Discussion: None
  + Result: Y 33; N 0; A 1
  + Motion passes
* Updated timeline is presented

**TG4ab Closing Report**:

* Ben Rolfe (BCA) gives the TG4ab closing report (doc. #[*15-25-0165-00*](https://mentor.ieee.org/802.15/dcn/25/15-25-0165-00-04ab-tg4ab-closing-report.pptx)*)*
* Updated timeline is presented
* Review and improved draft and worked on outstanding issues
* Q: Are the planned calls CRG calls?
* A: Calls are announced as CRG call if the CRG is formed.
* Q: Does the group want to do the motion on the CRG?
* A: TG chair wants to do the motion.
* **TG4ab Motion: Motion to approve the formation of CRG**
  + Move that 802.15 WG approve the formation of a Comment Resolution Group (CRG) for the WG balloting of P802.15.4ab with the following amembership: Ben Rolfe (chair), Billy Verso, Clint Chaplin, Riku Pirhonen, Mickael Maman, Bin Qian, Alex Krebs, Tero Kivinen, Pooria Pakrooh, Carlos Aldana, Sven Zeisberg and Li-Hsiang Sun. The 802.15.4ab 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: Ben Rolfe
  + Seconded By: Phil Beecher
  + Discussion:
    - Q: The motion is in effect until the next interim?
    - A: Yes
  + Result: Y 39; N 0; A 2
  + Motion passes

**WNG Closing Report:**

* Ben Rolfe (BCA) gives an oral closing report
* One presentation during WNG

**IG Access Closing Report:**

* Ben Rolfe (BCA) gives an oral closing report
* One presentation
* Request to start creation of a PAR

**Joint .15/.1 Mtg. Closing Report**:

* Phil Beecher (Wi-SUN Alliance) gives an oral closing report
* Multiple presentations

**TG4ad Closing Report**:

* Phil Beecher (Wi-SUN Alliance) presents the TG4ad closing report (doc. #[*15-25-0116-01*](https://mentor.ieee.org/802.15/dcn/25/15-25-0116-01-04ad-tg4ad-agenda-opening-and-closing-report-march-2025.pptx))
* Follow up presentation of the proposers
* Minutes are already posted
* Agreed on conference goals
* Task group chair will prepare checklist against items in technical guidance document
* Timeline is presented

**SC-Maintenance Closing Report:**

* + Phil Beecher (Wi-SUN Alliance) presents the SC-Maintenance closing report (doc. #[*15-25-0120-01*](https://mentor.ieee.org/802.15/dcn/25/15-25-0120-01-0mag-scm-agenda-opening-and-closing-report-march-2025.pptx))
  + Reviewed PAR/CSD comments
  + Resolved comments on 802.15.4 Corrigendum PAR
  + **SCM Motion: Motion to Approve 802.15.4-2024 Corrigendum PAR**
    - Move that the PAR contained in document 15-25-0054-02-0mag-par-for-802-15-4-2024-corrigendum-1.pdf be approved by the IEEE 802.15 WG and that the LMSC 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 LMSC discussion at its closing meeting.
    - Moved: Phil Beecher
    - Second: Tero Kivinen
    - Discussion: None
    - Result: Y 39; N 0; A 1
    - Motion passes
  + **SCM Motion: SCM - Approval to forward IEEE 802.15.7a standard to ISO/IEC JTC1/SC6 for information.**
    - Motion: Approve submission of the following standard to ISO/IEC JTC1/SC6 for information under the PSDO agreement: • IEEE Std 802.15.7a-2024 - IEEE Standard for Local and Metropolitan Area Networks - Part 15.7: Short-Range Optical Wireless Communications Amendments 1: Higher Rate, Longer Range Optical Camera Communication (OCC)
    - Moved: Phil Beecher
    - Second: Ann Krieger
    - Discussion: None
    - Result: Y 33; N 0; A 0
    - Motion passes
  + **SCM Motion: SCM - Approve submission of the following standard to ISO/IEC JTC1/SC6 for adoption under the PSDO agreement:**
    - IEEE Std 802.15.7a-2024 - IEEE Standard for Local and Metropolitan Area Networks - Part 15.7: Short-Range Optical Wireless Communications Amendments 1: Higher Rate, Longer Range Optical Camera Communication (OCC)
    - Move: Phil Beecher
    - Second: Ann Krieger
    - Discussion: None
    - Result: Y 32; N 0; A 0
    - Motion passes
  + **SCM Motion: SCM - Approve submission of the following standard to ISO/IEC JTC1/SC6 for adoption under the PSDO agreement:**
    - IEEE Std 802.15.13-2023 - IEEE Standard for Multi-Gigabit per Second Optical Wireless Communications (OWC), with Ranges up to 200m, for Both Stationary and Mobile Devices
    - Move: Phil Beecher
    - Second: Ann Krieger
    - Discussion: None
    - Result: Y 33; N 0; A 0
    - Motion passes

**TG7a/IG NG-OWC Closing Report:**

* + Yeong Min Jang (Kookmin University) presents the TG7a/IG NG-OWC closing report (doc. #[15-25-0164-00](https://mentor.ieee.org/802.15/dcn/25/15-25-0164-00-07ma-ieee-802-15-ig-ng-owc-closing-report-march-2025.pptx))
  + Review submissions
  + Prepared call for contributions
  + No meeting in May
  + Chair wants to see more presence of industry in the optical group
  + C: There will be a new task-group in 802.11 on optical wireless. The new TG will most likely start in May.

**Liaison Reports**

**802.24 Liaison Report:**

* Tim Godfrey (EPRI) gives an oral liaison report
* Work on three white papers
* One telephone conference scheduled

**802.19 Coexistence TAG Liaison Report**

* Ben Rolfe (BCA) gives an oral liaison report
* Not closed yet, still some technical contributions
* There is an on-going ballot on the CA for 15.4ab

**802.11 Liaison Report**

* None

**802.18 Liaison Report**

* None

## New Business

* Nothing raised

## Any Other Business

* Some people register attendance when not in the meeting. The chair advised everybody that this is not acceptable.
* The chairs shall not forget to post the agenda for the next meeting on time.

## Adjourn

**6:00 PM** The WG Chair adjourns the meeting.

# 802.1 / 802.15 Joint Mtg.

# Tuesday 11th March, 2025

802.1 and 802.15 joint activity is looking at 802.1 features/concepts that can be applied to the various 802.15 standards. This meeting is a joint mixed mode meeting between 802.1 and 802.15 as part of their respective sessions.

**6:15 PM** The 802.1 WG chair Glenn Parsons (Ericsson) calls the meeting to order. He presents the [Agenda](https://1.ieee802.org/2025-03-plenary-joint-802-1-15-agenda/).

1. Meeting introduction and other administrative items
   * The agenda is approved
   * The meeting introduction [slides](https://www.ieee802.org/1/files/public/templates/admin-TG-intro-0721-v01.pdf) (made available beforehand) are presented
   * The 802.1 WG chair makes the Call for Potential Essential Patents. There is no response to this call.
2. 802.15 update
   * Tero Kivinen (Wi-SUN Alliance) presents document doc. #[15-25-0098-00](https://mentor.ieee.org/802.15/dcn/25/15-25-0098-00-0000-wg15-security-project-summary.pptx)
   * C: Please double check if XYZ bits on slide 9 are correct
   * Q: Privacy attacks are also possible with devices not carried by persons, e.g., light switches. Is this the real problem?
   * A: These things are difficult to solve, as the device would have to transmit in regular intervals.
   * Q: If you change the address all the time, can this be tracked?
   * A: This is solved by assigned multiple addresses to one device. In general, you can never prevent tracking, but you can make it more costly.
3. P802.1ACea
   * Mark Hantel (Rockwell Automation) gives an oral update
   * Plan to go for WG ballot soon
   * More coordination with 802.15.6ma required on long term for SA ballot to align details
4. 802.15 Bridging

* Chair of .1 asks if more joint work is required
* Chair of .15 responds yes, next steps to be figured out

1. 802.15 Physical Interface

* No updates

1. Wireless TSN
   * Janos Farkas (Ericson) presents a [document](https://www.ieee802.org/1/files/public/docs2025/new-farkas-control-plane-extensions-for-wireless-aware-TE-0325-v02.pdf) on deterministic 6G
2. Next steps and next meetings
   * Next joint meeting in July
3. Any other business
   * There is no AoB

**7:15pm** The meeting is adjourned

# 802.15 CAC Mtg.

# Sunday, 9th March 2025

## Attendance

Clint Powell

Phil Beecher

Ann Krieger

Ben Rolfe

Tero Kivinen

Gary Stuebing

Clint Chapman

Ryuji Kohno

~~Christy Bahn~~

~~Yeong Min Jang~~

Tim Godfrey

James Gilb

Joerg Robert

~~Thomas Kürner~~

Harry Bims

## Minutes

**5:41 pm**: WG Chair, Clint Powel (PWC) calls the meeting to order and presented the WG Agenda (doc. #[*15-25-0077-02*](https://mentor.ieee.org/802.15/dcn/25/15-25-0077-02-0000-march-2025-802-15-agenda.xlsx))

* + Vice-Chair reminds everybody to check the agenda. Agenda will be updated by Ann Krieger.

1. Attendance Requirements and Chair Reminders
   * Chair reminds everybody of the IEEE policy. The patent slides must be shown in every session. The patent question must be asked in every session and the answer must be documented in the minutes.
   * Chair reminds everybody to pay registration fees.
   * Every group has to ensure that at least one officer is present in the meeting to setup the audio.
   * Attendance of social requires social ticket.
   * The NesCom/RevCom meetings and the January meeting are listed in on the “2025 SASB Dates” table in doc. #[15-25-0077-02](https://mentor.ieee.org/802.15/dcn/25/15-25-0077-02-0000-march-2025-802-15-agenda.xlsx)
   * Chair reminds everybody to inform him in case of any agenda topics relevant for the LMSC closing.
   * Motions have to be submitted to Phil Beecher before the start of the WG15 closing plenary.
2. Subgroup Status and Objectives for September Interim:
   * SC WNG – Two presentations on the agenda
   * TG 4ab UWB-NG Amendment – Working on comment resolution and coex issues
   * IG Access – No request for presentations
   * Joint .11/.15: No meeting planned
   * TG 4ac Privacy Amendment – Letter ballot finished, received approx. 100 comments, plan t resolve comments this week, start of SA ballot pool formation, work for ANA required
   * TG 4ae Ascon Cryptographic Algorithms Amendment – Review of NIST comments, work on test vectors, plan to have first draft for pre-letter ballot
   * TG 9a EDHOC KMP Amendment – Review of pre-letter ballot comments, start of letter ballot at the end of the week
   * SC IETF – IETF will meet next week, plan to go through the agenda
   * TG 4ad NG-SUN PHYs Amendment – Presentation of proposals and simulation results
   * SC MAINT/RULES – PAR Review
   * TG 6ma BAN/VAN Revision – Four sessions, many new participants expected
   * Joint 802.1 / 802.15 – One session related to joint topics
   * TG 6ma BAN/VAN Revision – Review of comment database, 250 comments, work on comment resolution
   * TG 7a OCC Amendment – Published in February
   * IG **NG-OWC** – Six presentation planned
   * **TG** 16t **Lic-NB Amendment** – Completed 3rd SA recirculation, unconditional to RevCom
   * **TG 16me Lic-NB Revision** – Discussion of required activities
   * **Editors Group**: One meeting in Monday PM3, Technical Editors should attend the session
3. AOB:
   * NextNAV will be handled in the WG opening
   * Designated Experts do not have to pay meeting fees, but LMSC chair has to be informed to avoid experts getting deadbeats.
   * Proposal to collect meeting room requirements during the Wednesday CAC
   * The treasurer reminds everybody to register for the meeting as early as possible to ease the meeting planning

**6:30pm** WG chair recessed until Wednesday (8:00-9:00am)

# 802.15 Mid-Week CAC Mtg.

# Wednesday, 12th March 2025

## Attendance

Clint Powell

Phil Beecher

Ann Krieger

Ben Rolfe

Tero Kivinen

Gary Stuebing

Clint Chapman

Ryuji Kohno

Christy Bahn

Yeong Min Jang

Tim Godfrey

~~James Gilb~~

Joerg Robert

~~Thomas Kürner~~

## Minutes

**8:05am**: WG Chair, Clint Powel (PWC LLC) calls the meeting to order.

1. Attendance Requirements and Chair Reminders:
   * Please keep in mind to show the patent policy slide at the beginning of each session and call for essential patents
   * Remind people that they have to register to attend the session
   * If comments are shifted from LB to SA ballot, the WG will upload them if the person is not SA member
   * Social tonight, ticket required
   * Chair reminds everybody to send motions for closing and LMSC as soon as possible to the leadership.
2. Midweek Subgroup Status Updates
   * TG 4ab UWB-NG Amendment – Debates on contentious issues
   * SC WNG – Two presentations
   * Joint .11/.15 – No meeting, potentially not useful to continue these meetings
   * IG Access – One presentation
   * TG 4ac – Motion for recirculation, set up of SA pool required
   * TG 4ae – No motions at the end of the week, waiting for NIST
   * TG 9a – Motion to start letter ballot
   * SC IETF – During midweek
   * TG 4ad – Presentation of proposals
   * SC Maintenance – Two motions during closing, corrigendum will be changed to a revision
   * TG 6ma BAN/VAN Revision – Many comments resolved already, plan it to complete comment resolution, CRG motion and recirculation motion
   * IG NG OWC – Several presentations, call for applications, no meeting in May, chair sees need for more industry participation
   * TG 16t – Work is complete and package for LMSC is prepared, motion during closing, also CRG motion
   * TG 16me Lic-NB Revision – First session today
3. Any Other Business:
   * Christy Bahn introduces her colleague Sandra

**8:40am** WG chair adjourned the CAC meeting.

# Annex A Total attendance (in-person + remote) =

|  |  |  |
| --- | --- | --- |
| Last Name | First Name | Affiliation |
| Adakeja | olubukola | Teradyne; Inc. |
| Aldana | Carlos | Meta Platforms Inc. |
| Al-kadi | Ghiath | STMicroelectronics |
| Almholt | Thomas | Texas Instruments Inc. |
| Amezawa | Yasuharu | Mobile Techno Corp. |
| Andre | Jean-Marie | ST micro |
| Anzai | Daisuke | Nagoya Institute of Technology |
| Au | Kwok Shum | Huawei Technologies Co.; Ltd |
| Bahn | Christy | IEEE STAFF |
| Baik | Eugene | Qualcomm Technologies; Inc. |
| Bansal | Ankur | SAMSUNG |
| BEECHER | PHILIP E | Wi-SUN Alliance |
| Berger | Christian | NXP Semiconductors |
| Bettesh | Ido | Apple Inc |
| Bims | Harry | Bims Laboratories; Inc. |
| Calvert | Chris | Landis Gyr Group Worldwide |
| Canchi | Radhakrishna | Kyocera International Inc |
| Chaplin | Clint | SAMSUNG ELECTRONICS |
| Chen | Jinzhu | General Motors Company |
| Chen | Run | New Radio Technology Co.; Ltd. |
| CHERIAN | GEORGE | Qualcomm Technologies Inc |
| Chitrakar | Rojan | Huawei International Pte Ltd |
| Choi | Sangsung | A2UICT |
| Chou | Tzu-Hsuan | Qualcomm |
| Di Taranto | Rocco | Ericsson AB |
| dolmans | guido | Holst Centre / IMEC-NL |
| Dolmans | Guido | Holst Centre / IMEC-NL |
| Dunna | Manideep | Qualcomm Incorporated; Qualcomm Technologies; Inc |
| Gan | Ming | Huawei Technologies Co.; Ltd |
| Gilb | James | General Atomics Aeronautical Systems; Inc. |
| Godfrey | Tim | Electric Power Research Institute; Inc. (EPRI) |
| Golshan | Robert | Apple Inc |
| Grosswindhager | Bernhard | NXP Semiconductors |
| Gruber | Josef | Infineon Technologies |
| Guimond | Raphael | SPARK Microsystems |
| Gulati | Kapil | NXP Semiconductors |
| Guo | Jianlin | Mitsubishi Electric Research Laboratories (MERL) |
| Ha | Taeyoung | Samsung Electronics Co.; Ltd. |
| HAN | DONG | Apple Inc. |
| Harada | Hiroshi | National Institute of Information and Communications Technology (NICT) |
| Hartman | James | Landis Gyr Group Worldwide |
| Helmy | Ahmed | Apple Inc. |
| Helwa | Sherief | Qualcomm Technologies Inc. |
| Hernandez | Marco | National Institute of Information and Communications Technology (NICT) |
| Hett | Christopher | Landis Gyr Group Worldwide |
| Hirata | Masayuki | Osaka University Graduate School of Medicine; Dept of Neurological Diagnosis and Restoration |
| Ichapurapu | Ravi | Amazon Lab126 |
| Ikegami | Tetsushi | Meiji University |
| Ishihara | Susumu | Shizuoka Univesity; Ministry of Internal Affairs and Communications; Japan |
| Jang | Yeong Min | Kookmin University |
| Jiang | Jinjing | Apple Inc |
| Jones | Vincent Knowles IV | Qualcomm Incorporated; Qualcomm Technologies; Inc |
| JOO | SEONG-SOON | Nano HiTech (NHT) |
| Jungnickel | Volker | Fraunhofer Heinrich Hertz Institute |
| Kadampot | Ishaque Ashar | Qualcomm Technologies; Inc. |
| KAJITA | SHUGO | Space-Time Engineering Japan; Inc. |
| Kalamkar | Sanket | Qualcomm Technologies Inc. |
| Kalkundrikar | Vishal | Ondas Networks |
| Kato | Arata | Space-Time Engineering Japan; Inc. |
| Kawashima | Yuki | Mitsubishi Electric Corporation |
| Kim | Youhan | Qualcomm Technologies; Inc. |
| Kitazawa | Shoichi | Muroran IT |
| Kivinen | Tero | Wi-SUN Alliance |
| KOBAYASHI | Takumi | YRP International Alliance Institute |
| Kohno | Ryuji | YNU/YRP-IAI |
| Krieger | Ann | US Department of Defense |
| kristem | vinod | Apple Inc |
| Kumar | Manish | NXP |
| Lee | Hong Won | LG ELECTRONICS |
| Lee | Jaegook | SAMSUNG ELECTRONICS |
| Leong | Frank | NXP Semiconductors |
| Li | Huan-Bang | National Institute of Information and Communications Technology (NICT) |
| Li | Jialing | Qualcomm Technologies; Inc |
| Li | Wenzheng | Calterah Semiconductor Technology (Shanghai) Co.; Ltd. |
| LIU | CHENCHEN | Huawei Technologies Co.; Ltd |
| Liu | Yong | Apple Inc |
| Lou | Hui-Ling | NXP Semiconductors |
| Luo | Xiliang | Apple Inc |
| Ma | Li | MediaTek Inc. |
| Maru | Sandra | IEEE SA |
| Mohamed Hassan Salem | Nedime Pelin | Cisco Systems; Inc. |
| Murali | Sriram | Texas Instruments Inc. |
| Murray | Carl | Qorvo |
| Nagai | Yukimasa | Mitsubishi Electric Corporation |
| Neirynck | Dries | Ultra Radio Ltd |
| Nogami | Toshizo | SHARP CORPORATION |
| Nomura | Tetsuya | DENSO TEN |
| Ogawa | Masakatsu | Sophia University |
| Pakrooh | Pooria | Qualcomm Technologies; Inc. |
| Patil | Abhishek | Qualcomm Incorporated |
| Pirhonen | Riku | NXP Semiconductors |
| Portier | Fabrice | Silicon Laboratories |
| Powell | Clinton | PWC; LLC |
| QIAN | BIN | Huawei Technologies Co.; Ltd |
| Rahmani | Mohammad | SPARK Microsystems |
| Redlich | Oded | Huawei Technologies Co.; Ltd |
| Robert | Joerg | FAU Erlangen-Nuernberg / Fraunhofer IIS |
| Rodine | Craig | Sandia National Laboratories |
| Rolfe | Benjamin | Blind Creek Associates |
| Sand | Stephan | German Aerospace Center (DLR) |
| Sayrafian | Kamran | National Institute of Standards and Technology |
| Schmidt | Reinhold | Infineon Technologies |
| Seok | Yongho | Apple Inc. |
| SHAHAR | MENASHE | Ondas Networks |
| Shilo | Shimi | Huawei Technologies Co.; Ltd |
| So | Youngwan | Samsung Electronics Co.; Ltd. |
| Stuebing | Gary | Cisco Systems; Inc. |
| Sumi | Takenori | Mitsubishi Electric Corporation |
| Sun | Li-Hsiang | MediaTek Inc. |
| Suzuki | Takafumi | NICT |
| Takabayashi | Kento | Toyo University |
| Takai | Mineo | Space-Time Engineering |
| TAKEWA | TOMOAKI | Mitsubishi Electric Corporation |
| Tang | Weidong | NewRadio Techologies Co.; Ltd. |
| Tian | Bin | Qualcomm Incorporated |
| Umeda | Shusaku | Mitsubishi Electric Corporation |
| Uno | Masanori | e-trees.Japan;inc |
| Verma | Lochan | Apple Inc |
| Verso | Billy | Qorvo |
| Wang | Pu | Mitsubishi Electric Research Laboratories (MERL) |
| Wei | Xizixiang | Apple Inc. |
| Wendt | Matthias | Signify |
| Wentink | Menzo | Qualcomm |
| Xiao | Libra | NewRadio Technology Co.; Ltd. |
| Xu | Luzhou | Apple Inc. |
| Yang | Shang-Te | Apple Inc |
| YE | ZHENZHEN | Red Point Positioning |
| Yee | Peter | NSA-CSD |
| Yong | Su Khiong | Apple Inc |
| Yoshitake | Hiroaki | DENSO TEN Limited |
| Zakaib | Larry | SPARK Microsystems |
| Zhang | Hongyuan | NXP Semiconductors |
| Zhou | Chengzhi | Apple Inc. |
| Zuniga | Juan Carlos | Cisco Systems; Inc. |