**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 Minutes November 2023 Plenary** | |
| Date Submitted | [November 2023] | |
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| Re: | [November 802.15 Session] | |
| Abstract | [IEEE 802.15 Working Group & CAC Minutes] | |
| Purpose | [Official minutes of the Working Group Opening/Mid-week/Closing/Joint and CAC Sessions] | |
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**146th IEEE 802.15 WSN SESSION**

**Hilton Hawaiian Village Waikiki -Honolulu, HI (all times in local)**

**November 12-17, 2023**

# 802.15 WG Opening

# Monday, 13th November 2023

**10:36AM** WG Chair, Clint Powell (HID), called the meeting to order and opened the WG Agenda ([*15-23-0531-00*](https://mentor.ieee.org/802.15/dcn/23/15-23-0531-00-0000-november-2023-802-15-agenda.xlsx))

## Announcements

Don’t forget to log in to IMAT, when you speak, state your name and affiliation

You must be registered to participate in any of these session meetings.

Registration for this session is required. If you do not, you are classified as a “dead-beat”.

* Using Direct Vote Live (DVL) for the mid-week and closing plenary.
* TG and SC chairs, get motions to the WG chairs as soon as possible and immediately after your TG closing meeting. Send to Phil Beecher and copy Clint
* 75% Attendance = 9 time slots (any 10 of the 12)

WG Chair asked for new participants to speak up;

## 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*](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 and the standard IEEE Copyright Policy, including Code of Ethics.

## Opening Report

WG Chair presented the WG Agenda: ([*15-23-0531-00*](https://mentor.ieee.org/802.15/dcn/23/15-23-0531-00-0000-november-2023-802-15-agenda.xlsx))

* Showed the graphic schedule
* Joint meeting with 802.1 is during the day (Monday)
* Closing on Thursday PM2

## WG Approvals

Motion to *approve the previous meeting minutes (*[*15-23-0473-02*](https://mentor.ieee.org/802.15/dcn/23/15-23-0473-02-0000-802-15-wg-cac-min-sept-2023-wireless-interim.docx)*)*

* Moved by:
* Seconded by:
* Discussion: none
* Approved by unanimous consent.

Motion to *approve the agenda (*[*15-23-0531-00*](https://mentor.ieee.org/802.15/dcn/23/15-23-0531-00-0000-november-2023-802-15-agenda.xlsx))

* Moved by:
* Seconded by:
* Discussion: none
* Approved by unanimous consent.

WG Chair presented the SASB dates, on a tab in the agenda *(*[*15-23-0531-00*](https://mentor.ieee.org/802.15/dcn/23/15-23-0531-00-0000-november-2023-802-15-agenda.xlsx)),

## General and Administrative

WG Chair presented the general meeting information:

* Voters: (voters: 134, nearly: 13, aspirant: 22)

Ben Rolfe (BCA) gave the treasurers report ([*EC-23-0003-06*](https://mentor.ieee.org/802-ec/dcn/23/ec-23-0003-06-WCSG-wireless-treasurer-report-2023.pptx)):

* Same document, but revised for each meeting.

The November 802.15 CAC meeting minutes are included in the WG minutes   
*(this document, 15-23-0553-00)*

The Wireless Chairs Steering Committee meeting minutes are contained in  
*(document #:*[*ec-23-0171-WCSG-minutes*](https://mentor.ieee.org/802-ec/dcn/23/ec-23-0171-00-WCSG-minutes-september-10-2023.docx)*)*

## Future Meetings and Polls

Reminder:

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

**TG 15.3mb Revision**:

**SC THz**:

**TG 4ab (NG-UWB)**:

**SC WNG**:

**TG 4ac (Privacy Amendment):**

**SC IETF:**

**TG 4me (Revision to 2020)**:

**TG 6ma (BAN/VAN)**:

**TG 7a (OCC)**:

**TG 14 & TG15** are still in hibernation

**TG 16t (802.16 Lic-NB Amendment)**:

**SG SUNPHYs (p.k.a. NG-OFDM)**:

**Joint 802.1/802.15 Mtg**. –

**SC (Maintenance& Rules)**:

## New Business

WG Chair asked if there was any new business. Nothing was raised.

## Any Other Business

WG Chair asked if there was any other business. Nothing was raised.

## WG Recess

**10:01 AM** WG Chair recessed the meeting

# 802.1 / 802.15 Joint Mtg.

# Tuesday 14th November, 2023

**1:30 pm EDT** 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 interim sessions with both chairs, 802.1 Glenn Parsons (Ericsson) and 802.15 Clint Powell (HID) attending.

802.1’s Jessy Rouyer (Nokia) went through the meeting introduction [slides](https://www.ieee802.org/1/files/public/templates/admin-TG-intro-0721-v01.pdf) (made available beforehand) and made the Call for Potential Essential Patents (there was no response to the Call). He continued with the [Agenda](https://1.ieee802.org/2023-09-interim-joint-1-15-agenda/) which was approved by unanimous consent. 802.15’s Ann Krieger (U.S. DoD) agreed to take the minutes.

**2:42pm EDT** Meeting adjournment

# 802.15 WG Mid-week

# Wednesday, 15th November 2023

**10:33 am** WG Chair, Clint Powell (HID) called the meeting to order displaying (document #[*15-23-0531-00*](https://mentor.ieee.org/802.15/dcn/23/15-23-0531-00-0000-november-2023-802-15-agenda.xlsx)

1. **Announcements**

This is

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## General and Administrative

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## Future Meetings and Polls

The

There were no polls

## All TG, SG and SC chair verbal status.

**TG 15.3mb Revision**:

**SC THz**:

**TG 4ab (NG-UWB)**:

**SC WNG**:

**TG 4ac (Privacy Amendment):**

**SC IETF:**

**TG 4me (Revision to 2020)**:

**TG 6ma (BAN/VAN)**:

**TG 7a (OCC)**:

**TG 14 & TG15** are still in hibernation

**TG 16t (802.16 Lic-NB Amendment)**:

**SG SUNPHYs (p.k.a. NG-OFDM)**:

**Joint 802.1/802.15 Mtg**.

**SC (Maintenance& Rules)**:

## New Business

WG Chair asked if there was any new business. Nothing was raised.

## Any Other Business

WG Chair asked if there was any other business. Nothing was raised.

## WG Recess

**11:20am** 802.15 Midweek recessed by WG Chair Clint Powell (HID) until Thursday 4:00.

**Wireless Next Generation (WNG)**

**11:22am** 802.15 WNG Called to order with

**Any other business**

**12:14pm** WNG Adjourned by

# 802.15 WG Closing

# Thursday, 16th November 2023

**4:04 PM** WG Chair, Clint Powell (HID) called the meeting to order displaying the closing agenda (document (document #[*15-23-0531-00*](https://mentor.ieee.org/802.15/dcn/23/15-23-0531-00-0000-november-2023-802-15-agenda.xlsx)

## Announcements

150th celebration

## General and Administrative

None

## Future Meetings and Polls

November P .

No Polls

## Sub-Groups and Committees Closing Reports

Reminder: Running a subgroup meeting, requires a Chair, Vice-Chair or some other office to be present. Please let 802.15 leadership know if there are any problems with this requirement.

**TG3mb Closing Report**: Phil Beecher (Wi-SUN Alliance) presented: [15-23-0489-01](https://mentor.ieee.org/802.15/dcn/23/15-23-0489-01-03ma-tg3mb-closing-plenary-slides-meeting-september-2023.pptx)

* 1 slot for Nov.

**SC THz Closing Report:** Did not meet

* 0 slots in Nov. meet again in Jan

**TG4ab Closing Report**: Ben Rolfe (BCA) presented[*15-23-0524-00*](https://mentor.ieee.org/802.15/dcn/23/15-23-0524-00-04ab-tg4ab-closing-report.pptx)

* 8 slots in Nov. with 7 teleconferences in between.
* Working on completing the draft (pre ballot draft 0 B)
* Q – Noticed that there is privacy in the draft, they should come to 4ac.
  + One hour in 4ab for 4ac and one 4ac session that does not conflict 4ab.

**WNG Closing Report**: James Gilb (GA-ASI) discussed verbally

* 1 slot in Nov
* James gave a Technical Editors tutorial.

**TG4ac Closing Report:** Tero Kivinen (self) presented [*15-23-0448-02*](https://mentor.ieee.org/802.15/dcn/23/15-23-0448-02-04ac-september-opening-and-closing.pptx)

* 2 slots in Nov. do not over lap with 802.11bh or .11bi or 802.15.4ab
* 1 hr joint meeting with 802.4ab.

**SC IETF Closing Report:** Did not meet

* 1 slot in Nov

**TG4me Closing Report**: Gary Steubing (Cisco) presented [*15-23-0386-06*](https://mentor.ieee.org/802.15/dcn/23/15-23-0386-06-04me-september-2023-ieee-802-15-4me-plenary-agenda-and-closing.pptx)

* 4 slots in Nov. do not compete with JTC1, no calls at this time.

**TG6ma Closing Report**: Ryuji Kohno (YNU/YRP-IAI) presented [*15-23-0512-00*](https://mentor.ieee.org/802.15/dcn/23/15-23-0512-00-006a-tg15-6ma-closing-report-for-september-2023.pptx)

* 4 slots in Nov. – Preferences PM2 preferred, PM1 acceptable.
* Joint session with 802.1 for PAR and CSD for TSN.
* Possible motion in November meeting.

**TG7a Closing Report:** Yeong Min Jang (Kookmin University) presented [*15-23-0522-00*](https://mentor.ieee.org/802.15/dcn/23/15-23-0522-00-007a-15-7a-higher-rate-longer-range-occ-tg-closing-report-sept-2023.pptx)

* + 3 slots in Nov, Preference PM2/ acceptable PM1 (TWR), with 3 teleconferences

**TG16t Closing Report:** Tim Godfrey (EPRI) presented [*15-23-0447-04*](https://mentor.ieee.org/802.15/dcn/23/15-23-0447-04-016t-sept-2023-tg16t-meeting-agenda-and-presentation.pptx)

* + 4 slots in Nov (same as Sept). with 3 teleconferences
  + Develop Draft 1.0, motion to start letter ballot in November

**SG SUN PHYs:** Thomas Almholt (TI) presented [*15-23-0478-02*](https://mentor.ieee.org/802.15/dcn/23/15-23-0478-02-04ad-ig-sun-phy-next-sep-23.pptx)

* + 3 slots in Nov. and 2 Webex calls before November.

**Joint Session 802.1/802.15** Phil Beecher (Wi-SUN) verbal.

* + 1 slot in Nov. between Tues 5:00pm and Wednesday 4:00pm
  + Worked on the PAR and CSD to include TG6a

**SC-Maintenance:** Phil Beecher (Wi-SUN) presented [*15-23-0450-01*](https://mentor.ieee.org/802.15/dcn/23/15-23-0450-01-0mag-scm-agenda-opening-and-closing-report-interim-sept-2023.pptx)

* + 4 slots in Nov. (before PM2 on Tuesday and after PM Wed)

**Liaison Reports**

**802.24 Liaison Report –** Tim Godfrey (EPRI) discussed [*24-23-0027-00*](https://mentor.ieee.org/802.24/dcn/23/24-23-0027-00-0000-september-2023-closing-report.pptx):

* Same meeting pattern in Nov. (Tues & Wed PM2)

**802.18 RRTAG Liaison Report –** Edward Au (Huawei) posted report: [15-23-0439-02](https://mentor.ieee.org/802.15/dcn/23/15-23-0439-02-0000-802-18-to-802-15-liaison-report-september-2023.pptx)

**802.19 Coexistence TAG Liaison Report –** Ben Rolfe (BCA) gave a verbal report.

**802.11 Liaison Report** – Al Petrick (Jones, Petrick, Associates) shared [15-23-0525-00](https://mentor.ieee.org/802.15/dcn/23/15-23-0525-00-0000-ieee802-11-liaison-report-september-2023.pptx)

## New Business

WG Chair asked if there was any new business. Nothing was raised.

## Any Other Business

WG Chair asked if there was any other business. Nothing was raised.

## Adjourn

**5:45 PM** The WG Chair adjourned the meeting

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

# 802.15 CAC Mtg.

# Sunday, 12th November 2023

## Attendance (11)

Clint Powell

Phil Beecher

Ann Krieger

Thomas Almholt

Ben Rolfe

Tero Kivinen

Gary Stuebing

Clint Chapman

Ryuji Kohno

Christy Bahn

James Glib

Yeong Min –absent

Tim Godfrey – absent

## Minutes

**5:46 pm**: WG Chair, Clint Powell (HID) called the mtg. to order and presented the Agenda ([*15-23-0430-01*](https://mentor.ieee.org/802.15https:/mentor.ieee.org/802.15/dcn/23/15-23-0430-01-0000-september-2023-802-15-agenda.xlsx/dcn/23/15-23-0301-01-0000-july-2023-802-15-agenda.xlsx))

General Announcements:

* Chair showed the opening slides and ask patent claim question, please show them at your TG opening.
* Update on NesCom and RevCom dates: Waiting for the approval of the TG3 amendment.
* TG/SC/SG chairs - you need to be here or have someone here at the AC meeting.

November Meetings:

* 802.15 Chairs Corner: 2pm to 3:00pm on Sun., Nov 12, 2023
* 802 Wireless Chairs (WCSC) meeting: 4pm to 5:30pm on Sun. Nov 12, 2023
* Opening 802.15 WG AC meeting: 5:30pm to 6:30pm on Sun. Nov 12, 2023
* Opening 802 LMSC: 8:00am to 10:00am on Mon. Nov 13, 2023
* Opening 802 Wireless: N/A
* Opening 802.15 WG meeting: 10:30 am to 12:30pm on Mon. Nov 13, 2023
* Mid-Week 802.15 WG AC meeting: 8:00am to 9:00am on Wed. Nov 15, 2023
* Mid-Week 802.15 WG meeting: 10:30am to 11:30am on Wed. Nov 15, 2023
* 802.15 WNG meeting: 11:30am to 12:30pm on Wed. Nov 15, 2023
* Closing 802.15 WG meeting: 4pm to 6pm on Thurs. Nov 16, 2023
* Closing 802 LMSC: 1:00pm to 6:00pm on Fri. Nov 17, 2023
* Joint meeting with 802.1/802.15 Tues. Nov 14, 2023

Subgroup Status and Objectives for November Plenary.

* **Task Group 3mb** –
* **Study Group THz** –
* **Task Group 4ab – NG-UWB**
* **Standing Committee WNG** –
* **Task Group 4ac Privacy Amendment** –
* **Standing Committee IETF** – not meeting.
* **Task Group 4me Revision to 2020** –
* **Task Group 6ma – BAN/VAN** –
* **Task Group 7a – OCC** –
* **Task Group 16t – 802.16 Lic-NB Amendment** –
* **SG SUN PHYs (p.k.a. NG-OFDM)** –
* **Joint 802.1/802.15 Mtg.**
* **Standing Committee – SC-M / Rules** –

Upcoming Meetings:

* Plans for November 2023 –
* Plans for January 2024 meeting in Panama City Panama

AOB:

* 802.1/802.15 Joint – Tuesday – PAR and CSD feedback for 802.15.6.
* TG 4ad Sun PHYs – PAR/CSD Comment Feedback

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

# 802.15 Mid-Week CAC Mtg.

# Wednesday, 15th Nov. 2023

## Attendance

Clint Powell

Phil Beecher

Ann Krieger

Thomas Almholt

Tero Kivinen

Gary Stuebing

Clint Chapman

Ryuji Kohno

Christy Bahn

Yeong Min

Tim Godfrey

Stuart Kerry

## Minutes

**8:07am**: WG Chair, Clint Powell (HID) called the mtg. to order and presented the agenda ([15-23-0430-02](https://mentor.ieee.org/802.15/dcn/23/15-23-0430-02-0000-september-2023-802-15-agenda.xlsx))

General Announcements:

* Chairs, show the Patent Policy, flip through the slides and make the call.

Mid-week motions: none

Subgroup Status and Objectives for November Plenary

* **Task Group 3mb** 
  + Closing motions – yes
* **Study Group THz** 
  + Not meeting
* **Task Group 4ab – NG-UWB** 
  + No motions
* **Standing Committee WNG** 
  + Technical Editor’s Tutorial.
* **Task Group 4ac Privacy Amendment**
  + No motions
* **Standing Committee IETF**
  + Not meeting.
* **Task Group 4me Revision to 2020**
  + Closing motions - yes
* **Task Group 6ma – BAN/VAN**
  + No motions
* **Task Group 7a – OCC** 
  + Checked drafts and should be ready for ballot recirculation.
* **Task Group 16t – 802.16 Lic-NB Amendment**
  + Possible Motion at Closing
* **SG SUN PHYs (p.k.a. NG-OFDM)**
  + PAR and CSD should be ready for closing.
* **Standing Committee – SC-M / Rules**
  + Closing Motions – yes.

Any Other Business:

* TG chairs
* .

**8:43am** WG chair adjourned the CAC meeting.