**IEEE 802.15**

**Wireless Specialty Networks (WSN)**

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| Project | IEEE 802.15 Working Group for Wireless Specialty Networks (WSN) |
| Title | **IEEE 802.15 TG 4ab (NG-UWB) minutes** |
| Date Submitted | [4 Apr, 2025] |
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| Re: | [March 802.15 Plenary Meeting held in Hybrid Mode] |
| Abstract | [IEEE 802.15 Task Group 4ab minutes] |
| Purpose | [Official minutes of IEEE 802.15 TG 4ab] |
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# Monday, 10 Mar, 2025 – PM1

**Opening**

**1:35 PM EST** Chair, Ben Rolfe (Blind Creek Associates), called the meeting to order and opened the TG Agenda.
(*15-25-0130-00-04ab*)

* >44 attendees joined the meeting

Chair introduced the hybrid meeting logistics.

Chair reminded the group of registration for 802 LMSC and wireless interim.

## Legal

Chair reminded the group of the following from the 802.15 opening meeting:

* IEEE-SA patent policy
* Submission of Letter(s) 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
* IEEE Anti-Trust statement
* IEEE Copyright Policy, including Code of Ethics

**Announcements**

Chair announced the agenda doc. *#15-25-0090-01-04ab* for the week. Chair reminded the group to submit comments to improve 802.15.4ab D2.0. There was two requests for time slots for presentations from Menzo (25/99), Youngwan (25/131). The agenda was updated to doc. *#15-25-0090-02-04ab.* There was no further discuss on the agenda. It was passed with unanimous consent.

Minute minutes approval is deferred to 11 March 2025 to give more time for review.

Chair reviewed the week’s agenda and noted an overlapping session with 802.18 in 11 March 2025 AM2 and suggested to make the session an ad-hoc session.

Chair reviewed the 802.15.4ab timeline.

Chair reviewed the objectives of this week and reviewed the commenting guideline using (*15-25-0130-00-04ab*). Some discussions regarding the scope of a recirculation.

**TG Meeting Activity**

Using the agenda *(doc. # 15-25-0090-02-04ab)* Chair proceeded with running the meeting.

**Presentation #1:**

Menzo Wentink (Qualcomm), presented “Multiple CCA for NB” (*doc. # 15-25-0099-00-04ab*)

Some discussions regarding where to find the ETSI documents that are referenced in 25/99r0. Opinion was expressed that this could be a good optional mode to further study.

Some discussions regarding the meaning of the last paragraph.

 10 Mar PM2 will be an ad-hoc session.

Chair reviewed the slots for breakout.

Chair recessed the mtg. @ 3:00PM EST, until Tue. AM1.

# Tuesday, 11 Mar, 2025, 2025 – AM1

## Opening

**8:00 AM ET** Chair, Ben Rolfe (Blind Creek Associates), called the meeting to order and opened the TG Agenda using *(doc. # 15-25-0130-00-04ab)*

>44 attendees joined the meeting

## Legal

Chair reminded the group of the following from the 802.15 opening meeting:

* IEEE-SA patent policy
* Submission of Letter(s) 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
* IEEE Anti-Trust statement
* IEEE Copyright Policy, including Code of Ethics

**TG Meeting Activity**

Using the agenda *(doc. # 15-25-0090-02-04ab)* Chair proceeded with running the meeting. Menzo requested agenda time for his contribution “Multiple CCA for NB” (*doc. # 15-25-0099-00-04ab*).

Group decided to cancel the AM2 session due to conflict with 802.18 session.

Chair raised the motion of minutes for Jan Interim *(doc. # 15-25-0127-01-04ab)* and telecons between Jan and Mar 2025 *(doc. # 15-25-0129-00-04ab)*. No discussion heard.

Documents 15-25-0127-01 and 15-25-0129-00 were approved by unanimous consent.

**Presentation #2:**

Youngwan So (Samsung) presented “Proposed Resolution for CIDs: 969, 970, 972, 1380” (*doc. # 15-25-0131-00-04ab*)

Suggestion to use 3 reserved bits for the NB PHY field in the NB Allocation IE Content field.

Discussion regarding 1380 and the need for an Address field. Youngwan will check offline.

**Presentation #3:**

Menzo Wentink (Qualcomm), presented “Multiple CCA for NB” (*doc. # 15-25-0099-00-04ab*)

Some discussions regarding CCA modes.

Some clarifications regarding the need for responder behavior, the number of failed CCA attempts.

Some discussions regarding usefulness of the scheme due to jitter in the pilot carrier estimation in the NB radio due to the fast channel switching and whether the tradeoffs involved with the added complexity is worth.

Opinion was expressed that the scheme is useful despite the added complexity.

Some discussion regarding whether ETSI mandates LBT.

Some discussion regarding alternate Contention based protocols (CBP) that does not use LBT.

Some editorial discussion regarding the correct term to use: device or radio?

Chair recessed the mtg. @ 09:51am EST, until Wed. AM1-9am.

# Wednesday, 12 March, 2025 – AM1 (9am)

## Opening

**9:00 AM ET** Chair, Ben Rolfe (Blind Creek Associates), called the meeting to order and opened the TG Agenda using *(doc. # 15-25-0130-00-04ab)*

>35 attendees joined the meeting

## Legal

Chair reminded the group of the following from the 802.15 opening meeting:

* IEEE-SA patent policy
* Submission of Letter(s) 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
* IEEE Anti-Trust statement
* IEEE Copyright Policy, including Code of Ethics

**TG Meeting Activity**

Using the agenda *(doc. # 15-25-0090-03-04ab)* Chair proceeded with running the meeting. Menzo requested agenda time for his contribution “Multiple CCA for NB” (*doc. # 15-25-0099-01-04ab*).

**Presentation #4:**

Menzo Wentink (Qualcomm), presented updates to “Multiple CCA for NB” (*doc. # 15-25-0099-01-04ab*).

Chair recessed the mtg. @ 10:00am EST, until Wed. PM1-1:30pm.

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# Wednesday, 12 March, 2025 – PM1 (1:30pm)

## Opening

**1:30 PM ET** Chair, Ben Rolfe (Blind Creek Associates), called the meeting to order and opened the TG Agenda using *(doc. # 15-25-0130-00-04ab)*

>35 attendees joined the meeting

## Legal

Chair reminded the group of the following from the 802.15 opening meeting:

* IEEE-SA patent policy
* Submission of Letter(s) 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
* IEEE Anti-Trust statement
* IEEE Copyright Policy, including Code of Ethics

**TG Meeting Activity**

Using the agenda *(doc. # 15-25-0090-03-04ab)* Chair proceeded with running the meeting. There were some changes of the agenda.

**Presentation #5:**

Jianlin Guo (Mitsubishi Electric), presented updates to “Group Association for IEEE 802.15.4” (*doc. # 15-25-0137-00-04ab*).

Group decided to cancel the PM2 session due to lack of request.

Chair recessed the mtg. @ 2:03pm EST, until Thurs. AM2-10:30am.

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# Thursday, 13 March, 2025 – AM2 (10:30pm)

## Opening

**10:30 AM ET** Chair, Ben Rolfe (Blind Creek Associates), called the meeting to order and opened the TG Agenda using *(doc. # 15-25-0130-00-04ab)*

>35 attendees joined the meeting

## Legal

Chair reminded the group of the following from the 802.15 opening meeting:

* IEEE-SA patent policy
* Submission of Letter(s) 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
* IEEE Anti-Trust statement
* IEEE Copyright Policy, including Code of Ethics

**TG Meeting Activity**

Using the agenda *(doc. # 15-25-0090-06-04ab)* Chair proceeded with running the meeting. There were some changes of the agenda. The agenda was updated to doc. *#15-25-0090-07-04ab.* There was no further discuss on the agenda. It was passed with unanimous consent.

Group decided to cancel the PM1 session due to lack of request.

Group talked about project plans, and teleconference plans.

Chair recessed the mtg. @ 11:15am EST.