**IEEE P802.15**

**Wireless Personal Area Networks**

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| Project | IEEE P802.15 Working Group for Wireless Personal Area Networks (WPANs) |
| Title | **<802.15 TG4ab (NG-UWB) Conf. Call Mins. Jan. to Mar. 2023>** |
| Date Submitted | [10 Mar, 2023] |
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| Re: | [802.15 TG4ab Conf. Call Mins] |
| Abstract | [Official Minutes of the Call] |
| Purpose | [Record the main points of the call] |
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**802.15 TG4ab (NG-UWB) Conf. Call Minutes**

**between Jan. and Mar. 2023 Mtgs.**

# Tuesday, 31 Jan 2023

**Opening**

**9:10 AM ET** 802.15 TG4ab Chair, Ben Rolfe (BCA), called the meeting to order

**Minutes**

~30 participants were noted during the duration of the call

Utilizing the meeting and agenda doc. # 15-23-0086-00, the Chair conducted the following business:

* Opening
* Reviewed IEEE Patent Policy
	+ Made call for claims with no responses
* Reviewed IEEE SA Participation Policy
* Reviewed IEEE SA Copyright Policy
* Reviewed 802 Rules

**Announcement**

Chair reviewed the proposed agenda. There was no objection to the agenda. It passed with unanimous consent.

Chair reminded people to Feeding draft text to the TG4ab Technical Editor (Billy Verso) to build baseline draft in prep for March mtg.

Chair went over TFD Status w.r.t. topic areas list.



* Additional sub bullets yet to be added
* This list is used to identify the major topic areas and those stewarding them, and the sub areas so that the contributors know whom to work with in getting their draft text submitted

Discussions on TG4ab calls.

* Topic of next call (interim call on 2/7) will be Sensing
* Call will also include assessment of the status of each of the topic areas w.r.t. the baseline draft and area in which there are either multiple approaches and which the group would support a multiplicity and which might/would require a choice to be made

Chair asked if there is any other business to discuss.

* Discussed TG6ma request for a joint call.
* TG4ab proposes using any slot of weekly TG4ab call/time except for 2/7
* WG15 Chair asked for anyone on the call and their colleagues that are knowledgeable in the UWB MAC, and also participate in CCC, to contact him directly (at cpowell@ieee.org) if they can help with writing the UWB MAC Test Cases for the CCC UWB MAC Spec.

Chair adjourned the call @7:03am ET.

# Tuesday, 7 Feb 2023

**Opening**

**9:03 AM ET** 802.15 TG4ab Chair, Ben Rolfe (BCA), called the ad-hoc meeting to order

**Minutes**

~40 participants were noted during the duration of the call

Utilizing the meeting and agenda doc. # 15-23-0087-01, the vice chair conducted the following business:

* Opening
* Reviewed IEEE Patent Policy
	+ Made call for claims with no responses
* Reviewed IEEE SA Participation Policy
* Reviewed IEEE SA Copyright Policy
* Reviewed 802 Rules

**Announcement**

Chair reviewed the proposed agenda. There was no objection to the agenda. It passed with unanimous consent.

Alexander Krebs (Apple) presented “NBA-UWB ranging text proposal for 15.4ab TFD”

(*doc. # 15-22-0381-01*)

This presentation introduces the MAC part of NBA-UWB ranging.

Questions/comments raised include

* measurement in-band or out-band
* details of interval between adjacent RIFs
* LBT channel bandwidth misalignment
* How to support non NBA-UWB mode
* Default values of parameters
* Compressed PSDU format indication and the method to reject frames
* Details of discovery process

Chair reminded people to prepare text for each topic area.

Chair reminded that a joint call with TG6a will be held in Mar. 7.

Chair adjourned the call @10:18am ET.

# Tuesday, 14 Feb 2023

**Opening**

**9:02 AM ET** 802.15 TG4ab Chair, Ben Rolfe (BCA), called the meeting to order.

**Minutes**

~40 participants were noted during the duration of the call

Utilizing the meeting and agenda doc. # 15-23-0096-00, the Chair conducted the following business:

* Opening
* Reviewed IEEE Patent Policy
	+ Made call for claims with no responses
* Reviewed IEEE SA Participation Policy
* Reviewed IEEE SA Copyright Policy
* Reviewed 802 Rules

**Announcement**

Chair reviewed the proposed agenda. There was no further discussion. There was no objection to the agenda. It passed with unanimous consent.

Alexander Krebs (Apple) reviewed “NBA-UWB ranging text proposal for 15.4ab TFD”

(*doc. # 15-22-0381-02*)

This presentation introduces the updated MAC part of NBA-UWB ranging.

Questions/comments raised include

* the relation of RSF X and coherent time in PHY layer
* details of message POLL2

Chair reviewed the general status and ask everybody with the following questions:

* Any areas that appear “stuck”?
* Any crossroads ahead?
* Straw poll or motions to bring?
* Areas ready to integrate?
* Any questions for the TE, Chair, Vice Chairs?

No answers heard.

Editor Billy Verso (Qorvo) introduced that he would put the text together into a draft. Any comments were welcome.

Chair asked for candidate to work next week. He will cancel the meeting in case that there is no request by next Monday morning.

Chair introduced the timeslot for the joint session with TG6a:

* 6am PT/9am ET Tuesday March 7th

Chair asked if there is any other business to discuss. No request heard.

Chair adjourned the call @10:02am ET.

# Tuesday, 21 Feb 2023

**Opening**

**9:03 AM PT** 802.15 TG4ab Chair, Ben Rolfe (BCA), called the ad hoc meeting to order.

**Minutes**

>30 participants were noted during the duration of the call

Utilizing the meeting and agenda doc. # 15-23-0105-00, the Chair conducted the following business:

* Opening
* Reviewed IEEE Patent Policy
	+ Made call for claims with no responses
* Reviewed IEEE SA Participation Policy
* Reviewed IEEE SA Copyright Policy
* Reviewed 802 Rules

**Announcement**

Chair reviewed the proposed agenda. There was no objection to the agenda. It passed with unanimous consent.

Chair reviewed the schedule milestones.

Chair asked if there is any request to further modify the document of NBA-UWB ranging (*doc. # 15-22-0381-02*). No request heard.

Chair asked if there is any request to do SP or motion. No request heard.

Chair asked if there is question for Billy Verso (Qorvo). No question heard. Billy introduced his observations on the progress of technical discussions and convergence.

Chair introduced the next meetings, including the next call, the joint call with TG6a, and the F2Fmeeting in March.

WG chair Clint Powell (Meta) reminded people to

1. register May meeting as early as possible,
2. attend the 802.18 meeting related to UWB frequency bands in Mar F2F.

Chair asked if there is any other business to discuss. No request heard.

Chair adjourned the call @09:27am ET.