**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 | [9 Sep, 2024] |
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| Re: | [Jul 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, 15 Jul, 2024 – PM1

**Opening**

**1:32 PM ET** Chair, Ben Rolfe (Blind Creek Associates), called the meeting to order and opened the TG Agenda.
(*15-24-0377-00-04ab*)

* ~50 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. *#15-24-0344-01-04ab* for the week. There was no further discuss on the agenda. It was passed with unanimous consent.

Chair raised the motion of minutes for May interim *(doc. # 15-24-0345-01-04ab)* and telecons between May and Jul 2024 *(doc. # 15-24-0366-00-04ab)*. No discussion heard.

Motion to approve minutes contained in documents 15-24-0345-01 and 15-24-0366-00

* Moved by: Billy Verso (Qorvo)
* Second by: Clint Chaplin (SRA)

No one objected to approve the motion. It was approved by unanimous consent.

Chair reviewed the objectives of this week.

**TG Meeting Activity**

Using the agenda *(doc. # 15-24-0344-01-04ab)* Chair proceeded with running the meeting.

Vice Chair Clint Chaplin (SRA) reviewed the consolidated comments and assigned comments to volunteers.

Chair recessed the mtg. @ 3:20PM ET, until Mon. PM2.

# Monday, 15 Jul, 2024 – PM2

**4:00 PM ET** Chair, Ben Rolfe (Blind Creek Associates), called the meeting to order and opened the TG Agenda.
(*15-24-0377-00-04ab*)

* ~50 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. # 15-24-0344-01-04ab)* Chair proceeded with running the meeting.

Vice chair Clint Chaplin (SRA) continued to review the consolidated comments and assigned comments to volunteers.

**Presentation #1:**

Rojan Chitrakar (Huawei) presented “Proposed Resolution for Verdor Specific Compact frame”

(*doc. # 15-24-0379-00-04ab*)

There was no objection to the comment resolutions as in *doc. # 15-24-0379-00-04ab.*

**Presentation #2:**

Rojan Chitrakar (Huawei) presented “Proposed Resolution for Advertising Poll Compact frame”

(*doc. # 15-24-0380-00-04ab*)

**Presentation #3:**

Rojan Chitrakar (Huawei) presented “Proposed Resolution for Security – PT data”

(*doc. # 15-24-0381-00-04ab*)

There was no objection to the comment resolutions as in *doc. # 15-24-0381-00-04ab.*

Chair recessed the mtg. @ 5:40pm ET, until 8:50am Tue. AM1.

# Tuesday, 16 Jul, 2024 – AM1

**8:00 AM ET** Chair, Ben Rolfe (Blind Creek Associates), called the meeting to order and opened the TG Agenda.
(*15-24-0377-00-04ab*)

* ~50 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. # 15-24-0344-01-04ab)* Chair proceeded with running the meeting.

Vice chair Clint Chaplin (SRA) continued to review the consolidated comments and assigned comments to volunteers.

**Presentation #4:**

Wenzheng Li (Calterah Semiconductor) presented “short term parameter negotiation in MMS”

(*doc. # 15-24-0363-00-04ab*)

**Presentation #5:**

Wenzheng Li (Calterah Semiconductor) presented “Consideration and Proposal on MMS in automotive use case”

(*doc. # 15-24-0362-01-04ab*)

**Presentation #6**:

Rojan Chitrakar (Huawei) updated his contribution “Proposed Resolution for Advertising Poll Compact frame”

(*doc. # 15-24-0380-01-04ab*)

There was no objection to the comment resolutions as in *doc. # 15-24-0380-01-04ab.*

**Presentation #7:**

Rojan Chitrakar (Huawei) presented “Proposed Resolution for Compact frame – Miscel-1”

(*doc. # 15-24-0401-00-04ab*)

Chair recessed the mtg. @ 9:20am ET, until Wed. PM1.

# Wednesday, 17 Jul, 2024 – AM1

**9:03 AM ET** Chair, Ben Rolfe (Blind Creek Associates), called the meeting to order and opened the TG Agenda.
(*15-24-0377-00-04ab*)

* ~50 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 updated agenda *(doc. # 15-24-0344-01-04ab)* Chair proceed with running the meeting.

Vice chair Clint Chaplin (SRA) continued to review the consolidated comments and assigned comments to volunteers.

**Presentation #8:**

Rojan Chitrakar (Huawei) updated his contribution “Proposed Resolution for Compact frame – Miscel-1”

(*doc. # 15-24-0401-01-04ab*)

There was no objection to the comment resolutions as in *doc. # 15-24-0401-01-04ab.*

**Presentation #9**

Carlos Aldana (Meta) presented “Proposed Resolution for CID 988”

 (*doc. # 15-24-0407-01-04ab*)

Chair recessed the mtg. @ 9:20am ET, until Wed. PM1.

# Wednesday, 17 Jul, 2024 – PM1

**1:32 PM ET** Chair, Ben Rolfe (Blind Creek Associates), called the meeting to order and opened the TG Agenda.
(*15-24-0377-00-04ab*)

* ~60 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 updated agenda *(doc. # 15-24-0344-01-04ab)* Chair proceed with running the meeting.

Vice chair Clint Chaplin (SRA) continued to review the consolidated comments and assigned comments to volunteers.

**Presentation #10:**

Riku Pirhonen (NXP) presented “Non-interleaved MMS”

(*doc. # 15-24-0409-00-04ab*)

Chair recessed the mtg. @ 2:00pm ET, until Thu. AM2.

# Thursday, July 18, 2024 – AM2

**10:33 AM ET** Chair, Ben Rolfe (Blind Creek Associates), called the meeting to order and opened the TG Agenda.
(*15-24-0377-00-04ab*)

* ~50 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**

Chair updated the agenda based on several presentation requests. Using the updated agenda *(doc. # 15-24-0344-02-04ab)* Chair proceed with running the meeting.

**Presentation #11:**

Xiliang Luo (Apple) presented “DS-TWR with UWB MMS Packets”

(*doc. # 15-24-0413-00-04ab*)

Billy Verso (Qorvo) reviewed comments and assign them as in *doc. # 15-24-371-02-04ab*.

**Presentation #12:**

Kangjin Yoon (Spark Microsystems) presented “Proposed resolution for Discovery”

(*doc. # 15-24-0411-00-04ab*)

Wenzheng Li (Calterah Semiconductor) presented his updates in “proposed resolution for UWB driven MMS and OOB assisted MMS”

(*doc. # 15-24-0403-01-04ab*)

**Presentation #13:**

Mickael Maman (ST) presented his updates in “Proposed resolution for comments on multiple RCMs and RSS”

(*doc. # 15-24-0415-03-04ab*)

There was no objection to the comment resolutions as in *doc. # 15-24-0415-03-04ab.*

Chair recessed the mtg. @ 12:31pm ET, until Thu. PM1.

# Thursday, July 18, 2024 – PM1

**1:32 PM ET** Chair, Ben Rolfe (Blind Creek Associates), called the meeting to order and opened the TG Agenda.
(*15-24-0377-01-04ab*)

* ~50 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 updated agenda *(doc. # 15-24-0344-02-04ab)* Chair proceed with running the meeting.

Kangjin Yoon (Spark Microsystems) presented his updates in “Proposed resolution for Discovery”

(*doc. # 15-24-0411-01-04ab*)

**Presentation #14:**

Benjamin A. Rolfe (BCA) presented “LB207 CAD Comments Work”

(*doc. # 15-24-0420-00-04ab*)

**Presentation #15:**

Alexander Krebs (Apple) presented “LB207 comment resolution - CAD - CIDs 10, 24, 26, 27, 28, 29”

(*doc. # 15-24-0410-01-04ab*)

Vice chair Clint Chaplin (Samsung) continued to review the consolidated comments.

Chair reviewed his plan on the telecons between July and September. There were two telecons each week. (*doc.* # *15-24-0377-01-04ab*)

Chair adjourned the mtg. @ 3:30pm ET.