**IEEE 802.15**

**Wireless Specialty Networks (WSN)**

|  |  |  |
| --- | --- | --- |
| 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] | |
| Source | [David Xun Yang] [Huawei] [Bantian, Shenzhen, China] | Voice: [+86.159.1411.7462] Fax: [--] E-mail: [david.yangxun@huawei.com] |
| 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] | |
| Notice | This document has been prepared to assist the IEEE 802.15. It is offered as a basis for discussion and is not binding on the contributing individual(s) or organization(s). The material in this document is subject to change in form and content after further study. The contributor(s) reserve(s) the right to add, amend or withdraw material contained herein. | |
| Release | The contributor acknowledges and accepts that this contribution becomes the property of IEEE and may be made publicly available by 802.15. | |

# 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.