**IEEE P802.15 TG13**

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| Project | IEEE P802.15 TG13 | |
| Title | **July 2018 Minutes from San Diego Meeting** | |
| Date Submitted | July 14, 2018 | |
| Source | Tuncer Baykas Istanbul Medipol University | Voice:  E-mail: tbaykas@ieee.org |
| Re: | [] | |
| Abstract | [] | |
| Purpose | [] | |
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**Attendance**

Volker Jungnickel (Fraunhofer HHI)

Tuncer Baykas (IMU)

Nikola Seramovski (PureLifi)

Chong Han (Purelifi)

Ryan Mennecke (JHUAPL)

John Li (Huawei)

Jerome Arokkiam (Osram)

Vinayagam Mariaddan (SNUST)

**Tuesday July 10, 2018 AM1**

TG13 Chair, Volker Jungnickel, called the meeting to order at 8:15 PM.

Chair reviewed the agenda and opening report. The WG unanimously approved the agenda, document 802.15-18/0313r1.

Chair read the IEEE Patent Policy slides. There were no responses to the call for potentially essential patent claims.

Chair read the IEEE 802 Participation slides.

Motion to approve the minutes from the previous meeting and teleconferences, documents 802.15-18/0216r3, 802.15-18/0276r0, 802.15-18/0277r1, 802.15-18/0278r1, 802.15-18/02312r1, passed without opposition.

Tuncer Baykas started working as acting Vice Chair.

Volker Jungnickel presented 802.15-18/0288r0.

Group should have another meeting to decide which base sequence should be used in the preamble.

The WG recessed at 10:05 PM.

**Tuesday July 10, 2018 AM2**

Acting Chair Tuncer Baykas called meeting to order at 10:31 AM.

**Motion**

Make necessary arrangements in 802.15.13 Draft 3.0, so that PM PHY will use 48 samples and 6 repetitions as preamble sequence for the 8b10b mode.

Moved by: Volker Jungnickel (Fraunhofer HHI)

Seconded by: Chong Han (Purelifi)

Yes 2 No 0 Abstain 0

Motion passed

Volker Jungnickel presented 802.15-18/0339r0.

John Li (Huawei) asked about the complexity at the receiver. Volker Jungnickel indicated that it is an implementation issue. As an advantage this method enables both low complexity and high complexity receiver at different rates.

Group expecting comments from ETRI and VLNCOMM about the complexity of single carrier systems.

Chong Han presented 802.15-18/0267r2

The WG recessed at 12:30 PM.

**Tuesday July 10, 2018, PM1**

Chair called meeting to order at 1:50.

Chong Han presented 802.15-18/0267r2

The group indicated that the modulation schemes, FEC, subcarriers for OFDM and descriptions for DC OFDM and EU-OFDM should be added to the text.

Volker Jungnickel presented 802.15-18/0273r0.

The WG recessed at 3:30.

**Wednesday July 10, 2018 PM1**

Chair called meeting to order at 1:30 PM.

Chair reviewed the agenda document 802.15-18/0313r2.

Group discussed when to start with comment resolution.

Volker Jungnickel updated agenda to include comment resolutions in document 802.15-18/0313r3.

Motion to approve new agenda. New agenda approved with unanimous consent.

Volker Jungnickel continued the presentation of 802.15-18/0273r0.

Q: The group discussed if there is copyright on some parts of 802.15-18/0273r0.

A: It could be.

Q: What should be the next steps?

A: Group members will discuss with Bob Heile to see how to go forward.

C: Few patents may be involved in this part as well.

Q: Section 1.5 Does PHY payload have only PSDU.

A : Yes.

Q: Why is PHY header TBD

A: It will be revised by September

Motion:

The Technical Editor shall make necessary arrangements to update PM PHY (docs. 15-18/003r8,), LB PHY (15-18/267r4) texts and add them to D3.

Moved by: Nicola Seramovski (pureLiFi)

Seconded by John Li (Huawei)

Yes: 5

No: 0

Abstain: 0

Group recessed

**Wednesday July 11, 2018 PM2**

Chair called meeting to order at 4:00 PM.

Group reviewed 802.15-18/0313r0

Volker Jungnickel suggested to have performance results for all PHYs. So far concise results are available only for PN PHY. LB and HB OFDM PHY have had performance results as part of the proposals when they were initially submitted to 802.15.7r1 project 2 years ago. But this was limited to the payload.

John Li started comment resolution 802.15-18/088r3

Comment 51 is resolved with the resolution stated in 802.15-18/088r4.

Comment 52 is resolved with the resolution stated in 802.15-18/088r4.

Comment 53 is resolved with the resolution stated in 802.15-18/088r4.

Comment 54 is resolved with the resolution stated in 802.15-18/088r4.

Comment 55 is rejected with the resolution stated in 802.15-18/088r4.

Comment 56 is resolved with the resolution stated in 802.15-18/088r4.

Comment 57 is resolved with the resolution stated in 802.15-18/088r4.

**Thursday July 12, 2018 AM2**

Chair called meeting to order at 10:30 AM.

John Li started comment resolution 802.15-18/088r3

Comment 58 is resolved with the resolution stated in 802.15-18/088r5.

Comment 59 is resolved with the resolution stated in 802.15-18/088r5.

Comment 60 is resolved with the resolution stated in 802.15-18/088r5.

Motion to approve 60 technical comments in doc. 0088/r5 and update TG13 draft accordingly. The technical editor is granted the right to work in editorial comments. D3 will be made available until August 18.

Moved by John Li (Huawei)

Seconded by Nikola Seramovski (pureLiFi)

Yes 7

No 0

Abstain 0

John Li presented 802.15-17/579r3

Group discussed which types of frames should stay in the document.

Chong Han presented 802.15-18/270r4

Group discussed if ACK is required for control frames.

The decision is that they are.

Volker Jungnickel presented 802.15-15/288r5

**Thursday July 12, 2018 PM1**

Chair called meeting to order at 1:30 PM.

Volker Jungnickel presented 802.15-18/313r3

Teleconferences are arranged at 8:00 AM-9:00 AM EDT

31 July 2018

14 August 2018

28 August 2018

The Agenda for the Teleconferences are:

* Finalize HB PHY text
* Look at evaluation results
* Discussion on MAC

Volker Jungnickel presented 802.15-18/190r1

The results are found acceptable by the group.

Motion to adjourn

Motion passed with unanimous consent.