IEEE P802.15  
Wireless Specialty Networks

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| IEEE 802.15.13  January, 2019 Interim Meeting Minutes for St. Louis | | | | |
| Date: 2019-03-02 | | | | |
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Abstract

# This document contains the TG13 Multi-Gigabit/s Optical Wireless Communications Meeting minutes from the January meeting in St. Louis January 2019.

**Monday, January 14, 2019, PM1**

Attendance:

* Volker Jungnickel (Fraunhofer HHI)
* Kai Lennert Bober (Fraunhofer HHI)
* Nikola Serafimovski (pureLiFi)

1. The Chair Volker Jungnickel (Fraunhofer HHI) called the meeting to order.
2. The Chair presented the agenda doc. 15-19-0013-00-0013 and read the IP and patent policy.
3. TG13 **Motion** #31 to approve the agenda for the week in document 15-19-0013-00-0013.  
     
   Moved by Nikola  
   Seconded by Volker  
   Approved by unanimous consent MOTION PASSES
4. The meeting minutes for the meeting in Bangkok were presented in document 15-18-0564-03-0013.
5. TG13 **Motion** #32 to approve the meeting minutes from November 15-18-0564-03-0013.  
     
   Moved by Nikola  
   Seconded by Volker  
   Approved by unanimous consent MOTION PASSES
6. The meeting minutes for the telcos between November 18 and January 19 were presented in document 15-18-0564-03-0013.
7. **Motion** to approve the telco minutes between November 18 and January 19 in document 15-18-0617-02-0013.  
     
   Moved by Nikola  
   Seconded by Volker  
   Approved by unanimous consent MOTION PASSES
8. Volker Jungnickel (Fraunhofer HHI) presents changes in document 15-18-0273-04-0013.
   * The PHY header was added to the description of the HB-PHY.
   * It was discussed how to adapt the PHY header to be usable by IEEE P802.15.13.
   * A suggestion was to add a new frame type ID, compatible with the one in ITU-T G.hn.
   * The corresponding header will include all required PHY header information.
9. **Motion** to include the text in doc. 15-18-0273-04-0013 into the next draft as HB-PHY specification.  
     
   Moved by Nikola  
   Seconded by Volker  
   Approved by unanimous consent MOTION PASSES
10. Kai Lennert Bober (Fraunhofer HHI) presented doc. 15-18/0616r3 on updated MAC text for beacon-enabled MAC mode.   
    * Removal of the beacon period concept has been implemented now. It is not needed anymore because coordinated topology is no longer used for multiple optical frontends
    * All intervals in the superframe is defined in terms of multiples of *aSuperFrameDuration* rather than dependent on the OCR. It is discussed what the slot duration is.
    * 1 µs seems to be a reasonable value. One OFDM symbol lasts little more than 5µs in PM/HB-PHYs. To be discussed/confirmed.
    * Go again through the text and include the immediate changes, then upload again so it can be included in the next draft.
    * Make a note that SIFS is only needed in half duplex mode.
    * Remove that clock accuracy is out of scope.
11. The meeting recessed.

**Monday, January 14, 2019, PM2**

Attendance:

* Volker Jungnickel (Fraunhofer HHI)
* Kai Lennert Bober (Fraunhofer HHI)
* Nikola Serafimovski (pureLiFi)
* Marc Emmelmann (Koden-Ti)

1. The Chair Volker Jungnickel (Fraunhofer HHI) presented the agenda doc. 15-19-0013-00-0013 and read the IP and patent policy.
2. Comment resolution was started from the bottom with comments gathered in document 15-19-0017-00-0013.
   * Comment to remove Appendix L was accepted.
   * Comment to move Appendix K into section for LB-PHY was revised to use the latest text on mentor instead. It is suggested to remove Appendix K thereafter.
   * Comment to remove Appendix J was accepted.
   * Comment to remove Appendix I was accepted.
   * Comment to maintain the frame formats as a word document and delete appendix H was revised to use text from document 15-18-0393-02 and delete appendix H.
   * Comment to remove appendix G was accepted.
   * Comment to remove appendix F was accepted.
   * Comment to delete appendix D was accepted.
   * Comment to delete appendix C was accepted.
   * Comment to delete appendix A was rejected.
   * Comments to change details in the draft text were rejected in favor of a new mode of operation to include whole text proposals from mentor into the draft via comment in the upcoming sessions.
   * More comments were resolved in document 15-19-0017-00-0013.
   * There seems to be a mismatch of draft versions that the comments were done against. Some comments were done against draft 3.0, while other comments were made against draft 3.2.
3. The meeting recessed.

**Tuesday, January 14, 2019, AM1**

Attendance:

* Volker Jungnickel (Fraunhofer HHI)
* Kai Lennert Bober (Fraunhofer HHI)
* Nikola Serafimovski (pureLiFi)
* Matthias Wendt (Signify)

1. The Chair Volker Jungnickel (Fraunhofer HHI) presented the agenda doc. 15-19-0013-01-0013 and read the IP and patent policy.
2. It is planned for the end of the week to make a motion to integrate the text for the beacon enabled channel access into the draft.
3. **Motion** to approve the modified agenda presented in doc. 15-19-0013-01-0013  
   Moved by Nikola  
   Seconded by Volker  
   Approved by unanimous consent MOTION PASSES
4. The comment resolution was resumed from document 15-19-0017-00-0013. In that process, revision 1 of the same document will be created.
   1. In section 4.5.1, the text about superframe structure was found to be not suiting anymore. The text will be replaced by a future text proposal.
   2. Clause 4, providing descriptive overview over the standard, does in large parts not apply anymore. It must be rewritten in a concise
5. **Motion** to  
     
   *Include the resolution of comments against D3 as contained in doc. 15-19/0017r1 into the new TG13 draft D4.0. The technical editor is granted the right to correct the section numbering and make editorial changes.*  
     
   Moved by Nikola  
   Seconded by Volker  
   Approved by unanimous consent MOTION PASSES
6. The meeting recessed.

**Tuesday, January 14, 2019, PM2**

Attendance:

* Volker Jungnickel (Fraunhofer HHI)
* Kai Lennert Bober (Fraunhofer HHI)
* Nikola Serafimovski (pureLiFi)

1. The Chair Volker Jungnickel (Fraunhofer HHI) presented the agenda doc. 15-19-0013-02-0013 and read the IP and patent policy.
2. **Motion** to approve the updated agenda for this meeting  
     
   Moved by Nikola  
   Secondedby Volker  
   Approved by unanimous consent MOTION PASSES
3. The creation of additional comments on the current draft was started. The document is 15-19/0052r0.
4. **Motion** to  
     
   *Include the resolution of comments against D3.1 as contained in doc. 15-19/0052r0 into the new TG13 draft D4.0. The technical editor is granted the right to correct the section numbering and make editorial changes.*  
   Moved by Nikola  
   Seconded by Volker  
   Approved by unanimous consent MOTION PASSES
5. The meeting recessed.

**Wednesday, January 16, 2019, PM1**

Attendance:

* Volker Jungnickel (Fraunhofer HHI)
* Kai Lennert Bober (Fraunhofer HHI)
* Nikola Serafimovski (pureLiFi)

1. The Chair Volker Jungnickel (Fraunhofer HHI) presented the agenda doc. 15-19-0013-02-0013 and read the IP and patent policy.
2. **Motion** to approve the updated agenda.  
     
   Moved: Nikola  
   Seconded: Volker  
   Approved by unanimous consent MOTION PASSES
3. The TG will get help from security experts, currently involved in TG4y, in order to integrate modern security into the standard.
4. The inspection of the current draft 3\_2 and collection of comments was resumed. Comments are collected and collected.
5. The meeting recessed.

**Thursday, January 17, 2019, AM2**

Attendance:

* Volker Jungnickel (Fraunhofer HHI)
* Kai Lennert Bober (Fraunhofer HHI)
* Nikola Serafimovski (pureLiFi)

1. The Chair Volker Jungnickel (Fraunhofer HHI) called the meeting to order and, as there were no objections, closed it in favor of work to be done in 802.11 TGbb.
2. The meeting recessed.

**Thursday, January 17, 2019, PM1**

Attendance:

* Volker Jungnickel (Fraunhofer HHI)
* Kai Lennert Bober (Fraunhofer HHI)
* Nikola Serafimovski (pureLiFi)

1. The Chair Volker Jungnickel (Fraunhofer HHI) called the meeting to order and presented the agenda doc. 15-19-0013-03-0013 and read the IP and patent policy.
2. Kai Lennert Bober (Fraunhofer HHI) continued the discussion on the Draft D3\_2 document

* A table similar to Table55 would be needed but perhaps not the exact same values as currently defined.
  + Table should be removed and a new table should be created with the required parameters
* Section 6.3.5 should be left but additional input is required to assess if this should be kept, removed or revised
* Draft should be limited to only specify elements that are required for basic operations – therefore removing 6.3.6, 6.3.8
* Section 6.5 should be revised
* It is considered necessary that the MAC can support communications between devices with different optical clock rates using the same PHY
* Comments and actions are captured in doc. 15-19/0092r1

1. The meeting recessed until Thursday, PM2.

**Thursday, January 17, 2019, PM2**

Attendance:

* Volker Jungnickel (Fraunhofer HHI)
* Kai Lennert Bober (Fraunhofer HHI)
* Nikola Serafimovski (pureLiFi)
* Shoichi Kitazawa (ATR Wave Eng)
* IEEE Staff

1. The Chair Volker Jungnickel (Fraunhofer HHI) presented the agenda doc. 15-19-0013-03-0013 and read the IP and patent policy.
2. **Motion** to approve the updated agenda for this meeting  
     
   Moved: Shoichi Kitazawa  
   Seconded: Volker  
   Approved by unanimous consent MOTION PASSES
3. **Motion** to include the text contained in doc. 15-18-0616-03-0013 into the draft 4.0 as the beacon-enabled mode.   
     
   Moved: Shoichi Kitazawa  
   Seconded: Volker  
   Approved by unanimous consent MOTION PASSES
4. **Motion** with the following text:

*Include the resolution of additional comments against D3 as contained in doc. 15-19/0052r1 into the new TG13 Draft D4.0. The technical editor is granted the right to edit the section numbering and make editorial changes.*

Moved by Shoichi Kitazawa

Seconded by Volker Jungnickel

Approved by unanimous consent MOTION PASSES

1. The plans for finalizing the work in TG13 were discussed.

* **January:** Create draft 4.0 as pdf until 18 February 2019 and upload on members area (via Rick Alfvin)
* **February:** Provide comments against D4.0, work on missing text (focus on main definitions and procedures for MAC in Sections 5 and 6)
* **March meeting:** Resolve comments against D4.0, create D5.0 and submit for 1st WGLB
* **April:** Provide comments against 1st WGLB
* **Mai meeting:** Resolve comments from WGLB, create D6.0 and submit for 2nd WGLB request (to be passed with no comment)
* **May:** Prepare everything for sponsor ballot

1. The plans for the March meeting were discussed.

* 6 + 1 additional session requested
* Resolve comments from D4.0
* Revise draft accordingly
* Start WGLB

1. The next telco dates were discussed.

* Feb. 1 8:00-9:00 EST Review new text
* Feb. 15 8:00-9:00 EST Review new text
* March 7 8:00-9:00 EST Prepare March meeting

1. The suggested timeline was discussed in doc. 15-17-0288-08-0013.
2. **Motion** with the following text:

*Approve the new timeline in doc. 15-17-228r8s*

Moved by Nikola

Seconded by Shoichi Kitazawa

Approved by unanimous consent MOTION PASSES

1. The Chair asked for any other business. There was none.
2. The meeting adjourned.