**IEEE P802.15**

**Wireless Personal Area Networks**

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| Project | IEEE P802.15 Working Group for Wireless Personal Area Networks (WPANs) | |
| Title | September 2016 IEEE802.15.7r1 Minutes | |
| Date Submitted | September 2016 | |
| Source | Nikola Serafimovski (pureLiFi)  Yeong Min Jang (Kookmin University) | Voice: [ ] Fax: [ ] E-mail: [ ] |
| Re: | [If this is a proposed revision, cite the original document.]  [If this is a response to a Call for Contributions, cite the name and date of the Call for Contributions to which this document responds, as well as the relevant item number in the Call for Contributions.]  [Note: Contributions that are not responsive to this section of the template, and contributions which do not address the topic under which they are submitted, September be refused or consigned to the “General Contributions” area.] | |
| Abstract | [Minutes of September 2016 Interim Session] | |
| Purpose | [Description of what the author wants P802.15 to do with the information in the document.] | |
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**Task group 802.15.7r1 met for 12 sessions during the September 2016 meeting.**

**Session 1 (12 September 2016)**

**PM 1 (13:30 – 15:30)**

Yeong Min Jang (Kookmin University) – Chair

Attendees:

* Yeong Min Jang – Kookmin University
* Rick Roberts – Intel
* Nikola Serafimovski – pureLiFi
* Dobroslav Tsonev – pureLiFi
* Prof. Soo Young Chang – California State University Sacramento
* Li Qiang – Huawei Technologies
* Hideki Aoyama – Panasonic
* Prof. Oshima – Panasonic,
* Tomoyuki Hirota – Panasonic
* Trang Nguyen – Kookmin University
* Murat Uysal – Ozyegin University
* Tuncer Baykas – Mediopol University
* Pat Kenney – Kenney Consulting
* Bob Heile – Wi-Sun Alliance
* Prof. Jaesang Cha – Seoul National University of Science & Technology

Meeting called to order and the agenda for the meeting was discussed and agreed (**doc. 15-16-0582-r2**). The patent policy was briefly discussed.

The minutes from the July, 2016 (**doc. 16-0560-r0**) meeting were accepted.

The new designation of the **TG7r1** has been officially changed to be **TG7m** moving forward.

Rick Roberts is going through the comments submitted and consolidated in **doc. 16-0477r5** will be considered and updated as a live document **doc. 16-0477r6**. The comments are with respect to Draft D0 for the 802.15.7r1 standard (<http://grouper.ieee.org/groups/802/15/private/Draft/TG7r1/P802.15.7r1%20Draft%20D0.pdf>).

In the future, document numbers will be associated with **TG7m** instead of **TG7r1**.

Pat suggested that the committee should use a different coloumn for the “implemented” comments. There should be 3 colours, Red to mean “Reject”, Orange to mean “Revise” and Green to mean “Accept”. The “Accepted in principle” from earlier versions has now changed to “Revise”.

The committee would implement these changes in the future.

Meeting recessed until PM 2.

**PM 2 (16:00 – 18:00)**

Yeong Min Jang (Kookmin University) – Chair

Attendees:

* Yeong Min Jang – Kookmin University
* Rick Roberts – Intel
* Nikola Serafimovski – pureLiFi
* Dobroslav Tsonev – pureLiFi
* Prof. Soo Young Chang – California State University Sacramento
* Li Qiang – Huawei Technologies
* Hideki Aoyama – Panasonic
* Prof. Oshima – Panasonic,
* Tomoyuki Hirota – Panasonic
* Trang Nguyen – Kookmin University
* Murat Uysal – Ozyegin University
* Tuncer Baykas – Mediopol University
* Pat Kenney – Kenney Consulting
* Bob Heile – Wi-Sun Alliance
* Prof. Jaesang Cha – Seoul National University of Science & Technology

Meeting called to order.

Rick Roberts went through the comments submitted and consolidated in **doc. 16-0477r5** will be considered and updated as a live document **doc. 16-0477r6**. The comments are with respect to Draft D0 for the 802.15.7r1 standard (<http://grouper.ieee.org/groups/802/15/private/Draft/TG7r1/P802.15.7r1%20Draft%20D0.pdf>).

Meeting recessed until AM1 on Tuesday, 13 Sept.

**Session 2 (13 September 2016)**

**AM 1 (08:00 – 10:00)**

Yeong Min Jang (Kookmin University) – Chair

Attendees:

* Yeong Min Jang – Kookmin University
* Rick Roberts – Intel
* Nikola Serafimovski – pureLiFi
* Dobroslav Tsonev – pureLiFi
* Prof. Soo Young Chang – California State University Sacramento
* Hideki Aoyama – Panasonic
* Tomoyuki Hirota – Panasonic
* Trang Nguyen – Kookmin University
* Prof. Jaesang Cha – Seoul National University of Science & Technology
* Murat Uysal – Ozyegin University
* Li Qiang – Huawei Technologies

Meeting called to order.

Rick Roberts lead the discussion through the comments submitted and consolidated in **doc. 16-0477r5** will be considered and updated as a live document **doc. 16-0477r6**. The comments are with respect to Draft D0 for the 802.15.7r1 standard (<http://grouper.ieee.org/groups/802/15/private/Draft/TG7r1/P802.15.7r1%20Draft%20D0.pdf>).

Rick suggested that any committee member is allowed to present text to the committee and ask that their contribution is considered for inclusion into the document.

Prof. Cha suggests to include a specific table to highlight their contribution to the committee with a presentation tomorrow.

Hideki suggested that the comments would be processed in a first-in-first-out (FIFO) approach.

Rick suggested that as a procedure, after the document has been uploaded, then Prof. Cha can request time to present their contribution. The key reason is that “Table X2 – MHY Modes / RXs” that was presented by Hideki is missing the contribution from SNUST and should be updated.

Meeting in recess until AM2.

**AM 2 (10:30 – 12:30)**

Yeong Min Jang (Kookmin University) – Chair

Attendees:

* Yeong Min Jang – Kookmin University
* Rick Roberts – Intel
* Nikola Serafimovski – pureLiFi
* Dobroslav Tsonev – pureLiFi
* Prof. Soo Young Chang – California State University Sacramento
* Hideki Aoyama – Panasonic
* Tomoyuki Hirota – Panasonic
* Trang Nguyen – Kookmin University
* Prof. Jaesang Cha – Seoul National University of Science & Technology
* Murat Uysal – Ozyegin University
* Li Qiang – Huawei Technologies
* Bob Heile – Wi-Sun Alliance

Meeting called to order.

Rick Roberts lead the discussion through the comments submitted and consolidated in **doc. 16-0477r5** will be considered and updated as a live document **doc. 16-0477r6**. The comments are with respect to Draft D0 for the 802.15.7r1 standard (<http://grouper.ieee.org/groups/802/15/private/Draft/TG7r1/P802.15.7r1%20Draft%20D0.pdf>).

Meeting in recess until PM1.

**PM 1 (13:30 – 15:30)**

Yeong Min Jang (Kookmin University) – Chair

Attendees:

* Yeong Min Jang – Kookmin University
* Rick Roberts – Intel
* Nikola Serafimovski – pureLiFi
* Dobroslav Tsonev – pureLiFi
* Prof. Soo Young Chang – California State University Sacramento
* Hideki Aoyama – Panasonic
* Tomoyuki Hirota – Panasonic
* Trang Nguyen – Kookmin University
* Prof. Jaesang Cha – Seoul National University of Science & Technology
* Murat Uysal – Ozyegin University
* Li Qiang – Huawei Technologies
* Bob Heile – Wi-Sun Alliance
* Volker Jungnickel – Fraunhofer HHI

Meeting called to order.

Rick Roberts lead the discussion through the comments submitted and consolidated in **doc. 16-0477r5** will be considered and updated as a live document **doc. 16-0477r6**. The comments are with respect to Draft D0 for the 802.15.7r1 standard (<http://grouper.ieee.org/groups/802/15/private/Draft/TG7r1/P802.15.7r1%20Draft%20D0.pdf>).

The committee has decided to focus on the work from the LiFi sub-committee to review the comments and suggested resolutions in **doc. 16-0584r1**.

Meeting in recess until PM2.

**PM 2 (16:00 – 18:00)**

Yeong Min Jang (Kookmin University) – Chair

Attendees:

* Yeong Min Jang – Kookmin University
* Rick Roberts – Intel
* Nikola Serafimovski – pureLiFi
* Dobroslav Tsonev – pureLiFi
* Prof. Soo Young Chang – California State University Sacramento
* Hideki Aoyama – Panasonic
* Tomoyuki Hirota – Panasonic
* Trang Nguyen – Kookmin University
* Prof. Jaesang Cha – Seoul National University of Science & Technology
* Murat Uysal – Ozyegin University
* Li Qiang – Huawei Technologies
* Bob Heile – Wi-Sun Alliance
* Volker Jungnickel – Fraunhofer HHI

Meeting called to order.

Rick Roberts lead the discussion through the comments submitted and consolidated in **doc. 16-0477r5** will be considered and updated as a live document **doc. 16-0477r6**. The comments are with respect to Draft D0 for the 802.15.7r1 standard (<http://grouper.ieee.org/groups/802/15/private/Draft/TG7r1/P802.15.7r1%20Draft%20D0.pdf>).

The committee has decided to focus on the work from the LiFi sub-committee to review the comments and suggested resolutions in **doc. 16-0584r1**.

Meeting in recess until AM1, 14 Sept. 2016.

**Session 3 (14 September 2016)**

**AM 1 (08:00 – 10:00)**

Yeong Min Jang (Kookmin University) – Chair

Attendees:

* Yeong Min Jang – Kookmin University
* Rick Roberts – Intel
* Nikola Serafimovski – pureLiFi
* Dobroslav Tsonev – pureLiFi
* Prof. Soo Young Chang – California State University Sacramento
* Hideki Aoyama – Panasonic
* Tomoyuki Hirota – Panasonic
* Trang Nguyen – Kookmin University
* Prof. Jaesang Cha – Seoul National University of Science & Technology
* Murat Uysal – Ozyegin University
* Li Qiang – Huawei Technologies
* Bob Heile – Wi-Sun Alliance
* Volker Jungnickel – Fraunhofer HHI

Meeting called to order.

Rick Roberts lead the discussion through the comments submitted and consolidated in **doc. 16-0477r5** will be considered and updated as a live document **doc. 16-0477r6**. The comments are with respect to Draft D0 for the 802.15.7r1 standard (<http://grouper.ieee.org/groups/802/15/private/Draft/TG7r1/P802.15.7r1%20Draft%20D0.pdf>).

The committee has decided to focus on the work from the LiFi sub-committee to review the comments and suggested resolutions in **doc. 16-0584r1**.

Meeting in recess until PM1.

**PM 1 (13:30 – 15:30)**

Yeong Min Jang (Kookmin University) – Chair

Attendees:

* Yeong Min Jang – Kookmin University
* Rick Roberts – Intel
* Nikola Serafimovski – pureLiFi
* Dobroslav Tsonev – pureLiFi
* Prof. Soo Young Chang – California State University Sacramento
* Hideki Aoyama – Panasonic
* Tomoyuki Hirota – Panasonic
* Trang Nguyen – Kookmin University
* Prof. Jaesang Cha – Seoul National University of Science & Technology
* Murat Uysal – Ozyegin University
* Li Qiang – Huawei Technologies
* Bob Heile – Wi-Sun Alliance
* Volker Jungnickel – Fraunhofer HHI

Meeting called to order.

Dobroslav Tsonev lead the discussion through the comments submitted and consolidated in **doc. 16-0477r7** will be considered and updated as a live document **doc. 16-0477r8**. The comments are with respect to Draft D0 for the 802.15.7r1 standard (<http://grouper.ieee.org/groups/802/15/private/Draft/TG7r1/P802.15.7r1%20Draft%20D0.pdf>).

The committee has decided to focus on the work from the LiFi sub-committee to review the comments and suggested resolutions in **doc. 16-0584r1**.

Meeting in recess until PM2.

**PM 2 (16:00 – 18:00)**

Yeong Min Jang (Kookmin University) – Chair

Attendees:

* Yeong Min Jang – Kookmin University
* Rick Roberts – Intel
* Nikola Serafimovski – pureLiFi
* Dobroslav Tsonev – pureLiFi
* Prof. Soo Young Chang – California State University Sacramento
* Hideki Aoyama – Panasonic
* Tomoyuki Hirota – Panasonic
* Trang Nguyen – Kookmin University
* Prof. Jaesang Cha – Seoul National University of Science & Technology
* Murat Uysal – Ozyegin University
* Li Qiang – Huawei Technologies
* Bob Heile – Wi-Sun Alliance
* Volker Jungnickel – Fraunhofer HHI

Meeting called to order.

Dobroslav Tsonev lead the discussion through the comments submitted and consolidated in **doc. 16-0477r7** will be considered and updated as a live document **doc. 16-0477r8**. The comments are with respect to Draft D0 for the 802.15.7r1 standard (<http://grouper.ieee.org/groups/802/15/private/Draft/TG7r1/P802.15.7r1%20Draft%20D0.pdf>).

The committee has decided to focus on the work from the LiFi sub-committee to review the comments and suggested resolutions in **doc. 16-0584r1**.

Meeting in recess until AM1, 15 Sept. 2016.

**Session 4 (15 September 2016)**

**AM 1 (08:00 – 10:00)**

Yeong Min Jang (Kookmin University) – Chair

Attendees:

* Yeong Min Jang – Kookmin University
* Rick Roberts – Intel
* Nikola Serafimovski – pureLiFi
* Dobroslav Tsonev – pureLiFi
* Prof. Soo Young Chang – California State University Sacramento
* Hideki Aoyama – Panasonic
* Tomoyuki Hirota – Panasonic
* Trang Nguyen – Kookmin University
* Prof. Jaesang Cha – Seoul National University of Science & Technology
* Murat Uysal – Ozyegin University
* Li Qiang – Huawei Technologies
* Bob Heile – Wi-Sun Alliance
* Volker Jungnickel – Fraunhofer HHI

Meeting called to order.

Prof. Jaesang Cha discussed and presented **doc. 16-0647-r1** and **doc. 16-0680-r1.** The suggestion is to use the revised table in **doc. 16-0647-r1** instead of the **doc. 16-0540-r0**.

The committee had agreed to include an Appendix defined in **doc. 16-0540-r0** in draft D1, agreed in comment number 662 in **doc. 16-0477-r7**. The committee agreed that comments in **doc. 16-0647-r1** would be discussed as part of the draft D1 comment resolutions.

Volker and Rick suggested that there are too many types of PHY modes for the optical camera communication and they should be merged.

Dobroslav lead the discussion through the comments submitted and consolidated in **doc. 16-0477r8** considered and updated as a live document **doc. 16-0477r9**. The comments are with respect to Draft D0 for the 802.15.7r1 standard (<http://grouper.ieee.org/groups/802/15/private/Draft/TG7r1/P802.15.7r1%20Draft%20D0.pdf>).

Meeting recessed until PM1.

**PM 1 (13:30 – 15:30)**

Yeong Min Jang (Kookmin University) – Chair

Attendees:

* Yeong Min Jang – Kookmin University
* Rick Roberts – Intel
* Nikola Serafimovski – pureLiFi
* Dobroslav Tsonev – pureLiFi
* Prof. Soo Young Chang – California State University Sacramento
* Hideki Aoyama – Panasonic
* Tomoyuki Hirota – Panasonic
* Trang Nguyen – Kookmin University
* Prof. Jaesang Cha – Seoul National University of Science & Technology
* Murat Uysal – Ozyegin University
* Li Qiang – Huawei Technologies
* Bob Heile – Wi-Sun Alliance
* Volker Jungnickel – Fraunhofer HHI

Meeting called to order.

Dobroslav lead the discussion through the comments submitted and consolidated in **doc. 16-0477r8** considered and updated as a live document **doc. 16-0477r9**. The comments are with respect to Draft D0 for the 802.15.7r1 standard (<http://grouper.ieee.org/groups/802/15/private/Draft/TG7r1/P802.15.7r1%20Draft%20D0.pdf>).

Meeting in recess until PM2.

**PM 2 (16:00 – 18:00)**

Yeong Min Jang (Kookmin University) – Chair

Attendees:

* Yeong Min Jang – Kookmin University
* Rick Roberts – Intel
* Nikola Serafimovski – pureLiFi
* Dobroslav Tsonev – pureLiFi
* Prof. Soo Young Chang – California State University Sacramento
* Hideki Aoyama – Panasonic
* Tomoyuki Hirota – Panasonic
* Trang Nguyen – Kookmin University
* Prof. Jaesang Cha – Seoul National University of Science & Technology
* Li Qiang – Huawei Technologies
* Volker Jungnickel – Fraunhofer HHI
* Tuncer Baykas – Mediopol University

Meeting called to order.

The committee discussed and updated the schedule **doc. 15-0274-r4.**

The committee has agreed that draft D1 will be ready by Oct. 29. The comments shall be sent in by January 8, 2017 and the same format sheet shall be used again. Comments shall be uploaded on Mentor.

**MOTION**

Replace doc. 16-0540r0 by doc. 16-0647r2, therein delete the “Painting” column and provide detailed explanations regarding the column heading names.

Mover: Soo-Young Chang

Seconded: Jaesang CHA

Result:

**Y: 9** **N: 0 Abstain: 0**

Meeting adjourned until Nov. 2016.