**IEEE P802.15**

**Wireless Personal Area Networks**

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| Project | IEEE P802.15 Working Group for Wireless Personal Area Networks (WPANs) | |
| Title |  | |
| Date Submitted | [2021-03-20] | |
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| Re: | [TG7a March 2021 Meeting Minutes] | |
| Abstract | [This document contains the TG7a Higher Rate, Longer Range Optical Camera Communications (OCC) meeting minutes for the March 2021 Electronic Plenary Session] | |
| Purpose | [To provide minutes of the meeting for TG7a] | |
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**Thursday, March 11, 2021, 8:00 AM ~ 10:00 AM (EST)**

**Attendees:**

* Yeong Min Jang (Kookmin University)
* Vinayagam Mariappan (SMR Automotive Modules Korea)
* Sangsung Choi (Kookmin University)
* Sang-Kyu Lim (ETRI)
* Huy Nguyen (Kookmin University)
* Volker Jungnickel (Fraunhofer HHI)
* Stefan Lemsitzer (NXP)
* Takashi Kiramochi (LAPIS)
* Around 21 Members.

**Meeting Activities:**

1. Meeting called to order by Chair.
2. Welcome \ Patent Policy presented by Chair.
3. Agenda document 15-21-0161-00-007a presented by Chair and Discussion on Agenda.
4. Call for Contributions and Agenda Approval (doc 15-21-0161-01-007a)

Moved : Vinayagam Mariappan

Second: Sangsung Choi

Result: Approved unanimously

1. Discussion and Updated the Technical Considerations Document (doc 15-21-065-01-007a).
2. Contribution Presentations:
3. Promising of OFDM waveform for OCC system based on rolling shutter effect (doc 15-21-160-02-007a) by Huy Nguyen.
4. Meeting recessed.

**Friday, March 12, 2021, 8:00 AM ~ 10:00 AM (EST)**

**Attendees:**

* Yeong Min Jang (Kookmin University)
* Vinayagam Mariappan (SMR Automotive Modules Korea)
* Sangsung Choi (Kookmin University)
* Sang-Kyu Lim (ETRI)
* Huy Nguyen (Kookmin University)
* Larry Zakaib (Spark Microsystems)
* Stefan Lemsitzer (NXP)
* Takashi Kiramochi (LAPIS)
* Around 37 Members.

**Meeting Activities:**

1. Meeting called to order by Chair.
2. Welcome \ Patent Policy presented by Chair.
3. Agenda document 15-21-0161-03-007a presented by Chair and Discussion on Agenda.
4. Call for Contributions and Agenda Approval (doc 15-21-0161-03-007a).

Moved : Vinayagam Mariappan

Second: Sangsung Choi

Result: Approved unanimously

1. Contribution Presentations:
2. Discussion on the Issues of Communication Range in TG7a TCD (doc 15-21-165-00-007a) by Sang-Kyu Lim.
3. Discussion and Updated the Technical Considerations Document (doc 15-21-065-03-007a).
4. Discussion and Updated the Call for Proposals Document (doc 15-21-166-00-007a).
5. Meeting recessed.

**Tuesday, March 16, 2021, 7:00 AM ~ 9:00 AM ET**

**Attendees:**

* Yeong Min Jang (Kookmin University)
* Vinayagam Mariappan (SMR Automotive Modules Korea)
* Sangsung Choi (Kookmin University)
* Sang-Kyu Lim (ETRI)
* Huy Nguyen (Kookmin University)
* Volker Jungnickel (Fraunhofer HHI)
* Larry Zakaib (Spark Microsystems)
* Stefan Lemsitzer (NXP)
* Takashi Kiramochi (LAPIS)
* Around 37 Members.

**Meeting Activities:**

1. Meeting called to order by Chair.
2. Welcome \ Patent Policy presented by Chair.
3. Agenda document 15-21-0161-04-007a presented by Chair and Discussion on Agenda.
4. Call for Contributions and Agenda Approval (doc 15-21-0161-05-007a).

Moved : Vinayagam Mariappan

Second: Sangsung Choi

Result: Approved unanimously

1. Contribution Presentations:
2. Data Collection from LED Matrix in Different Rotation of LED in Optical Camera Communication (doc 15-21-182-00-007a) by Md Faisal Ahmed.
3. Road curvature estimation from the rear LED shapes of the forwarding vehicle using OCC (doc 15-21-183-00-007a) by Md. Osman Ali.
4. Discussion on the Issues of Communication Range in TG7a TCD (doc 15-21-165-02-007a) by Sang-Kyu Lim.
5. Discussion and Updated the Technical Considerations Document (doc 15-21-065-04-007a).
6. Conditionally approved (to allow updates till May 2021 meeting) and Finalized the Technical Considerations Document (doc 15-21-065-06-007a).
7. Discussion and Updated the Call for Proposals Document (doc 15-21-166-01-007a).
8. Unanimously approved Finalized the Call for Proposals Document (doc 15-21-166-02-007a).
9. Discussion on TG7a Web Page Update and unanimously approved on updating TG7a Web Page.
10. Discussion for April 2021 online meeting and May 2021 Meeting.

* 1 slot on April 23, 2021, 7:00 AM ~ 9:00 AM (EST) to update Technical Considerations Documents (if possible).
* 4 slots on May Meeting (8:00 AM~10:00 AM (EST) on Monday, Tuesday, Wednesday and Thursday).

1. Meeting adjourned by Chair.