IEEE P802.15

Working Group for Wireless Specialty Networks (WSNs)

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| IEEE 802.15  IG NG-OWC March 2025 Meeting Minutes | | | | |
| Date: 2025-07-31 | | | | |
| Author: | | | | |
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Abstract

# This document contains the IEEE 802.15 IG NG-OWC meeting minutes during July 2025.

**Wednesday, 30th July 2025, AM1(10:00 - 11:00)**

Attendance:

* Yeong Min Jang (Kookmin University)
* Lennart Yseboodt (Signify)
* Ryuji Kohno(YNU/YRP-IAI)
* Sang-Kyu Lim (ETRI)

Attendance remotely by Webex:

* Susumu Ishihara (Shizuoka Univ.)
* Robert Zhou (Apple)
* Xiliang Luo (Apple)
* Libra Xiao(NRT)
* Crristian Berger (NXP)
* Seong-Soon Joo(NHT)
* Md. Minhazur Rahman (Kookmin University)
* Herfandi (Kookmin University)
* Sianturi Patar Parlindungan(Kookmin University)
* Rafat Bin Mofidul (Kookmin University)
* Fadhila (Kookmin University)
* Rimu (Kookmin University)
* Izra (Kookmin University)
* Krishna (Kookmin University)
* Zaini Irzal (Kookmin University)
* Muhammad Ayaz (Kookmin University)
* Lai Yi Aung (Kookmin University)

**1.** Yeong Min Jang (Kookmin University) supported the mixed-mode hybrid meeting by connecting the audio and video cables for the Webex and testing its audio quality. Then, he shared his screen on the laptop-PC.

2. The IEEE 802.15 IG NG-OWC meeting was called to order by the Chair, Yeong Min Jang (Kookmin University).

3. The Chair reviewed the IEEE-SA patent policy, copyright policy, logistics, and reminders, including meeting guidelines and attendance recording procedures.

* + No essential patents are claimed.
  + It reminds all to record their attendance through the IMAT system.
  + Registration fee should be paid.
  + Deadbeat consequences in default of paying registration fee for a prior meeting
  + IG NG-OWC officers and operating rule

1. The Chair brought the agenda document (15-25-0334-00-07ma) showing IG NG-OWC schedule for November and he updated the agenda items while introducing the overall agenda for the meeting. The Chair will upload the updated agenda document (15-25-0109-01-07ma) to the document server.

* Agenda in doc. (15-25-0334-00-07ma) 2 slots for IG NG-OWC this week
* Wednesday. 30th July 2025, AM1 (10:00 - 11:00)
* Meeting Objectives and Agenda Approval (334-00)
* 2 presentations

1. AI Equalizer for signal processing in NG-OCC (372-0) [Kookmin University]
2. Medium Access Control (MAC) for IG-NG OWC (373-0) [Kookmin University]

* Meeting was recessed

**Thursday 31st July 2025, AM1(09:00 - 11:00)**

Attendance:

* Yeong Min Jang (Kookmin University)
* Youngwan So (Samsung)
* Robert Zhou (Apple)
* Christian Berger (NXP)
* Sang-Kyu Lim (ETRI)

Attendance remotely by Webex:

* Sang-Kyu Lim
* Libra Xiao(NRT)
* Xiliang Luo (Apple)
* Seong-Soon Joo(NHT)
* Sianturi Patar Parlindungan(Kookmin University)
* Rafat Bin Mofidul (Kookmin University)
* Mohammad Mahdi Biswas Rimu (Kookmin University)
* Irzal Zaini (Kookmin University)
* Muhammad Ayaz Khan (Kookmin University)
* Lai Yi Aung (Kookmin University)
* Fadhila (Kookmin University)
* Krishna (Kookmin University)
* Herfandi (Kookmin University)
* Thursday. 31st July 2025, AM1 (09:00 - 11:00)
* Meeting Objectives and Agenda Approval (334-00)
* 6 presentations

1. Optical Camera Communication System Using DMT Modulation (374-00) [Kookmin University]
2. Future directions of AMC for NG FSO Technologies (383-0) [Kookmin University]
3. Future Directions of ARQ & HARQ Assisted NOMA For NG FSO Technologies (384-0) [Kookmin University]
4. Improving Code Rate of Drone-FSO Communication Using Deep Learning Joint Source-Channel Coding (385-0) [Kookmin University]
5. Future Directions for Handover Mechanism in Hybrid FSO/OCC-RF Networks (386-0) [Kookmin University]
6. Smart and Secure Drones: A Next-Generation OWC-Enabled Framework for IoD Networks (393-0) [Kookmin University]

**Thursday 31st July 2025, PM1(02:30 - 04:30)**

Attendance:

* Yeong Min Jang (Kookmin University)
* Mohamed lslim (pureLiFi)
* Sang-Kyu Lim

Attendance remotely by Webex:

* Fadhila (Kookmin University)
* Krishna (Kookmin University)
* Lai Yi Aung (Kookmin University)
* Irzal Zaini (Kookmin University)
* Thursday. 31st July 2025, PM1 (02:30 - 04:30)
* Meeting Objectives and Agenda Approval (334-00)
* 1 presentation

1. Symmetric UAV-to-UAV FSO Communication with Dual-Mode QPD-Based ATP (394-0) [Kookmin University]

Meeting minutes document all discussions and decisions made during the meeting:

1. Presentation from Kookmin University University " AI Equalizer for signal processing in NG-OCC” (372-0) by Md. Minhazur Rahman,Yeong Min Jang
2. Presentation from Fraunhofer HHI " Medium Access Control (MAC) for IG-NG OWC” (373-0) by Herfandi, Nguyen Ngoc Huy, Yeong Min Jang
3. Presentation from Fraunhofer HHI " Optical Camera Communication System Using DMT Modulation” (374-0) by Sianturi Patar Parlindungan, Yeong Min Jang
4. Presentation from Fraunhofer HHI " Future directions of AMC for NG FSO Technologies” (383-0) by Rafat Bin Mofidul, Yeong Min Jang
5. Presentation from Fraunhofer HHI " Future Directions of ARQ & HARQ Assisted NOMA For NG FSO Technologies” (384-0) by Mohammad Mahdi Biswas Rimu, Yeong Min Jang
6. Presentation from Fraunhofer HHI " Improving Code Rate of Drone-FSO Communication Using Deep Learning Joint Source-Channel Coding” (385-0) by Irzal Zaini, Yeong Min Jang
7. Presentation from Fraunhofer HHI " Future Directions for Handover Mechanism in Hybrid FSO/OCC-RF Networks” (386-0) by Muhammad Ayaz Khan, Yeong Min Jang
8. Presentation from Fraunhofer HHI " Smart and Secure Drones: A Next-Generation OWC-Enabled Framework for IoD Networks” (393-0) by Lai Yi Aung, Yeong Min Jang
9. Presentation from Fraunhofer HHI " Symmetric UAV-to-UAV FSO Communication with Dual-Mode QPD-Based ATP” (394-0) by Fadhila Ahmad, Yeong Min Jang,(Kookmin University) Hyoung-Jun Park, Chan Il Yeo, Siwoong Park (ETRI)
10. The plan for the September 2025 and November 2025 Meeting were discussed as well.

* Plan for September and November Meeting

- In September there are two sessions

-Monday, Tuesday and Wednesday

* Plan for IG-NG-OWC Meeting

- Invite contributors from companies.

* Invite some experts from other countries

1. The meeting was adjourned.

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