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**IEEE P802.15  
Wireless Specialty Networks**

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<b>IEEE 802.15.7a</b>				
<b>TG7a July 2023 Plenary Meeting Minutes</b>				
<b>Date:</b> 2023-07-13				
<b>Author:</b>				
Name	Affiliation	Address	Phone	Email
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**Abstract**

This document contains the TG7a Optical Camera Communications meeting minutes during July 2023 Plenary Meeting.

**Tuesday, 11<sup>th</sup> July 2023, 08:00 (Berlin) AM#1 (Room 13, Virtual Rm. #3)**

## Attendance in-person :

- Yeong Min Jang (Kookmin University)
- Sang-Kyu Lim (ETRI)
- Jae Sang Cha
- Christy Bahn (IEEE SA)

## Attendance remotely by Webex :

- Huy Nguyen (Kookmin University)
- Ones (Kookmin University)
- Tuan Anh (Kookmin University)

1. The Vice-Chair, Sang-Kyu Lim (ETRI) supported the mixed-mode hybrid meeting by connecting the audio and video cables for the WebEx and testing its audio quality. Then, Sang-Kyu Lim shared his screen on his laptop-PC.
2. The IEEE 802.15.7a meeting was called to order by the Chair, Yeong Min Jang (Kookmin University). Sang-Kyu Lim (ETRI) recorded the minutes.
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 is reminded 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
  - TG7a officers and operating rules
4. The Chair brought the agenda document (15-23/0377r0) showing TG7a schedule for July Plenary meeting and he updated the agenda items while introducing the overall agenda for the meeting. The Chair uploaded the updated agenda document 15-23/0377r1 to the document server.
  - Agenda in doc. 15-23/0377r1
  - 3 slots for TG7a this week
    - TUE July 11, AM#1 08:00-10:00 a.m.
      - Meeting Objectives and Agenda Approval (377-00)
      - Approval of TG7a May 2023 Wireless Interim Meeting Minutes (291-00)
      - Comment Resolution for 802.15 Letter Ballot 2nd Recirculation (381-00)
      - Any of Business and Recess
    - WED July 12, AM#1 09:00-10:00 a.m.
      - Meeting Objectives and Agenda Approval (377-01)
      - Comment Resolution for 802.15 Letter Ballot 2nd Recirculation (381-00)
      - Discussion of TG and WG Motion

- Plan for Teleconference Schedule
  - Plan for September Meeting
  - Any of Business and Recess
- THUR July 13, AM#1 08:00-10:00 a.m.
- Meeting Objectives and Agenda Approval (377-02)
  - Any of Business and Adjourn
5. TG7a Motion to approve the agenda for July 2023 TG7a hybrid meeting:  
*Motion to approve the agenda for July 2023 hybrid meeting in doc. 15-23/0377r1*
- Moved by: Young Min Jang
  - Seconded by: Sang-Kyu Lim
  - Approved by unanimous consent
6. The Group reviewed and discussed May 2023 Wireless Interim TG7a meeting minutes (doc. 15-23-0291r0).
7. TG7a Motion to approve May 2023 Plenary TG7a meeting minutes:  
*Motion to approve March 2023 Wireless Interim Meeting Minutes of TG7a in IEEE P802.15-23-291-00-007a*
- Moved by: Yeong Min Jang
  - Seconded by: Sang-Kyu Lim
  - Approved by unanimous consent
8. The Group reviewed and discussed the document of comment resolutions for LB#196, which has not been uploaded to the document server. So, the Technical Editor said that the comment resolution document will be uploaded as the R0 version after this session.
9. The Group started to resolve the comments for WG LB#196.
10. 30 comments shown below were resolved.
- CID-1 to CID-9 : Accepted and see the doc. 15-23-0381/r0 for its resolution detail.
  - CID-13 : Accepted and see the doc. 15-23-0381/r0 for its resolution detail.
  - CID-18 to CID-20 : Accepted and see the doc. 15-23-0381/r0 for its resolution detail.
  - CID-22 and CID-23 : Accepted and see the doc. 15-23-0381/r0 for its resolution detail.
  - CID-25 to CID-27 : Accepted and see the doc. 15-23-0381/r0 for its resolution detail.
  - CID-31 : Accepted and see the doc. 15-23-0381/r0 for its resolution detail.
  - CID-34 and CID-35 : Accepted and see the doc. 15-23-0381/r0 for its resolution detail.
  - CID-38 to CID-40 : Accepted and see the doc. 15-23-0381/r0 for its resolution detail.
  - CID-45 to CID-48 : Accepted and see the doc. 15-23-0381/r0 for its resolution detail.
  - CID-50 and CID-51 : Accepted and see the doc. 15-23-0381/r0 for its resolution detail.

11. The Group recessed.

**Wednesday, 12<sup>th</sup> July 2023, 09:00 (Berlin) AM#1 (Room 13, Virtual Rm. #3)**

Attendance in-person :

- Yeong Min Jang (Kookmin University)
- Sang-Kyu Lim (ETRI)
- Jae Sang Cha
- Tero Kevinin (Self)
- Christy Bahn (IEEE SA)

Attendance remotely by Webex :

- Huy Nguyen (Kookmin University)
- Ones (Kookmin University)

12. The Vice-Chair, Sang-Kyu Lim (ETRI), and Tero supported the mixed-mode hybrid meeting. The Chair, Yeong Min Jang (Kookmin University) connected the audio and video cables for the WebEx and testing its audio quality. Then, the Chair shared his screen on his laptop-PC. This WebEx meeting was hosted by the Chair.

13. The IEEE 802.15.7a meeting was called to order by the Chair, Yeong Min Jang (Kookmin University). Sang-Kyu Lim (ETRI) recorded the minutes.

14. 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 is reminded 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
- TG7a officers and operating rules

15. The Chair brought the agenda document (15-23/0377r1) showing TG7a schedule for July Plenary meeting and he updated the agenda items while introducing the overall agenda for the meeting. The Chair uploaded the updated agenda document 15-23/0377r2 to the document server.

- Agenda in doc. 15-23/0377r0
- 3 slots for TG7a this week
  - TUE July 11, AM#1 08:00-10:00 a.m.
    - Meeting Objectives and Agenda Approval (377-01)
    - Approval of TG7a May 2023 Wireless Interim Meeting Minutes (291-00)
    - Comment Resolution for 802.15 Letter Ballot 2nd Recirculation (381-00)
    - Any of Business and Recess

- WED July 12, AM#1 09:00-10:00 a.m.
  - Meeting Objectives and Agenda Approval (377-01)
  - Comment Resolution for 802.15 Letter Ballot 2nd Recirculation (381-00)
  - Any of Business and Recess
  
- THUR July 13, AM#1 08:00-10:00 a.m.
  - Meeting Objectives and Agenda Approval (377-02)
  - Comment Resolution for 802.15 Letter Ballot 2nd Recirculation (381-01)
  - Discussion of TG and WG Motion
  - Plan for Teleconference Schedule
  - Plan for September Meeting
  - Any of Business and Adjourn

**16.** The Group decided to start the comment resolution on the comments from Tero because Tero was in the meeting.

**17.** The Technical Editor opened the comment resolution document (15-23-0381/r0) and then shared his screen. The Group continued to resolve the unfixed comments for WG LB#196.

**18.** 27 unfixed comments shown below were resolved.

- CID-10 : Revised and see the doc. 15-23-0381/r1 for its resolution detail.
- CID-11 : Revised and see the doc. 15-23-0381/r1 for its resolution detail.
- CID-12 : Revised and see the doc. 15-23-0381/r1 for its resolution detail.
- CID-14 : Revised and see the doc. 15-23-0381/r1 for its resolution detail.
- CID-52 : Revised and see the doc. 15-23-0381/r1 for its resolution detail.
- CID-53 and CID-54 : Accepted and see the doc. 15-23-0381/r1 for its resolution detail.
- CID-55 : Revised and see the doc. 15-23-0381/r1 for its resolution detail.
- CID-56 to CID-62 : Accepted and see the doc. 15-23-0381/r1 for its resolution detail.
- CID-63 : Revised and see the doc. 15-23-0381/r1 for its resolution detail.
- CID-64 : Revised and see the doc. 15-23-0381/r1 for its resolution detail.
- CID-65 : Revised and see the doc. 15-23-0381/r1 for its resolution detail.
- CID-66 : Revised and see the doc. 15-23-0381/r1 for its resolution detail.
- CID-67 : Revised and see the doc. 15-23-0381/r1 for its resolution detail.
- CID-68 to CID-71 : Accepted and see the doc. 15-23-0381/r1 for its resolution detail.
- CID-72 : Revised and see the doc. 15-23-0381/r1 for its resolution detail.
- CID-73 and CID-74 : Accepted and see the doc. 15-23-0381/r1 for its resolution detail.

**19.** The Group decided to complete the comment resolution next session tomorrow.

**20.** The Group recessed.

**Thursday, 13<sup>th</sup> July 2023, 08:00 (Berlin) AM#1 (Room 13, Virtual Rm. #3)**

Attendance in-person :

- Yeong Min Jang (Kookmin University)
- Sang-Kyu Lim (ETRI)
- Jae Sang Cha

Attendance remotely by Webex :

- Huy Nguyen (Kookmin University)
- Ida Bagus Krishna Yoga Utama (Kookmin University)
- Volker Jungnickel (Fraunhofer HHI)

21. The Vice-Chair, Sang-Kyu Lim (ETRI) supported the mixed-mode hybrid meeting. The Chair, Yeong Min Jang (Kookmin University) connected the audio and video cables for the WebEx and testing its audio quality. Then, the Chair shared his screen on his laptop-PC. This WebEx meeting was hosted by the Chair.

22. The IEEE 802.15.7a meeting was called to order by the Chair, Yeong Min Jang (Kookmin University). Sang-Kyu Lim (ETRI) recorded the minutes.

23. 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 is reminded 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
- TG7a officers and operating rules

24. The Chair brought the agenda document (15-23/0377r2) showing TG7a schedule for July Plenary meeting and he updated the agenda items while introducing the overall agenda for the meeting. The Chair uploaded the updated agenda document 15-23/0377r3 to the document server.

- Agenda in doc. 15-23/0377r3
- 3 slots for TG7a this week
  - TUE July 11, AM#1 08:00-10:00 a.m.
    - Meeting Objectives and Agenda Approval (377-01)
    - Approval of TG7a May 2023 Wireless Interim Meeting Minutes (291-00)
    - Comment Resolution for 802.15 Letter Ballot 2nd Recirculation (381-00)
    - Any of Business and Recess
  - WED July 12, AM#1 09:00-10:00 a.m.
    - Meeting Objectives and Agenda Approval (377-02)
    - Comment Resolution for 802.15 Letter Ballot 2nd Recirculation (381-00)

- Any of Business and Recess
- THUR July 13, AM#1 08:00-10:00 a.m.
  - Meeting Objectives and Agenda Approval (377-03)
  - Comment Resolution for 802.15 Letter Ballot 2nd Recirculation (381-01)
  - Discussion of TG and WG Motion
  - Plan for Teleconference Schedule
  - Plan for September Meeting
  - Any of Business and Adjourn

25. The Technical Editor opened the comment resolution document (15-23-0381/r1), in which all of the comments have been aggregated, to continue to resolve the unfixed comments and then shared his screen. The Group continued to resolve the unfixed comments for WG LB#196.

26. 17 unfixed comments shown below were resolved.

- CID-15 : Revised and see the doc. 15-23-0381/r2 for its resolution detail.
- CID-16 : Revised and see the doc. 15-23-0381/r2 for its resolution detail.
- CID-17 : Accepted and see the doc. 15-23-0381/r2 for its resolution detail.
- CID-21 : Revised and see the doc. 15-23-0381/r2 for its resolution detail.
- CID-24 : Revised and see the doc. 15-23-0381/r2 for its resolution detail.
- CID-28 : This comment has changed from “Revised” to “Accepted” and see the doc. 15-23-0381/r2 for its resolution detail.
- CID-29 : Revised and see the doc. 15-23-0381/r2 for its resolution detail.
- CID-30 : Revised and see the doc. 15-23-0381/r2 for its resolution detail.
- CID-32 : Revised and see the doc. 15-23-0381/r2 for its resolution detail.
- CID-33 : Revised and see the doc. 15-23-0381/r2 for its resolution detail.
- CID-36 : Revised and see the doc. 15-23-0381/r2 for its resolution detail.
- CID-37 : Revised and see the doc. 15-23-0381/r2 for its resolution detail.
- CID-41 : Revised and see the doc. 15-23-0381/r2 for its resolution detail.
- CID-42 : Revised and see the doc. 15-23-0381/r2 for its resolution detail.
- CID-43 : Accepted and see the doc. 15-23-0381/r2 for its resolution detail.
- CID-44 : Revised and see the doc. 15-23-0381/r2 for its resolution detail.
- CID-49 : Revised and see the doc. 15-23-0381/r2 for its resolution detail.

27. So, the group completed the comment resolution on WG LB#196, and the document for the comment resolution has been updated as the doc. 15-23-0381/r2. It has been uploaded to the document server.

28. TG7a Motion to approve the comment resolutions for LB#196:

*Move that the TG7a approve the comment resolutions for LB196 as described in document IEEE P802.15-23-0381-02-007a.*

- Moved by: Yeong Min Jang
- Seconded by: Sang-Kyu Lim
- Approved by unanimous consent

**29.** TG7a Motion to start the 3<sup>rd</sup> recirculation:

*Move that TG7a formally request that the 802.15 WG start recirculation WG Letter Ballot requesting approval of CA document [15-22-0292-r3] and document P802-15-7a\_D5 and to forward document P802-15-7a\_D5, to Standards Association ballot*

- Moved by: Yeong Min Jang
- Seconded by: Sang-Kyu Lim
- Approved by unanimous consent

**30.** TG7a Motion to approve the formation of CRG for the WG recirculation ballot:

*Move that 802.15.7a TG approve the formation of a Comment Resolution Group (CRG) for the WG balloting of the P802.15.7a\_D5 with the following membership: Yeong Min Jang(Chair), Sang-Kyu Lim, Ryuji Kohno, and Seongsoon Joo. The 802.15.7a CRG is authorized to approve comment resolutions, edit the draft according to the comment resolutions, and to approve the start of recirculation ballots of the revised draft on behalf of the 802.15 WG. Comment resolution on recirculation ballots between sessions will be conducted via reflector email and via teleconferences announced to the reflector as per the LMSC 802 WG P&P.*

- Moved by: Yeong Min Jang
- Seconded by: Sang-Kyu Lim
- Approved by unanimous consent

**31.** The Group prepared the WG Motion to start recirculation as follows:

*Move that 802.15 WG start a WG recirculation Letter Ballot requesting approval of CA document 15-22-0292-r3 and document P802.15.7a\_D5 (as edited in accordance with the instructions in document 15-23-0381-02-007a) and to forward document P802.15.7a\_D5, as edited in accordance with the instructions in document 15-23-0381-02-007a, and CA document 15-22-0292-r3 to Standards Association ballot pending the completion and inclusion of the edits in the draft.*

**32.** The Group prepared the WG Motion to confirm CRG formation for a WG Letter Ballot:

*Move that 802.15 WG approve the formation of a Comment Resolution Group (CRG) for the WG balloting of the P802.15.7a\_D5 with the following membership: Yeong Min Jang(Chair), Sang-Kyu Lim, Ryuji Kohno, and Seongsoon Joo. The 802.15.7a CRG is authorized to approve comment resolutions, edit the draft according to the comment resolutions, and to approve the start of recirculation ballots of the revised draft on behalf of the 802.15 WG. Comment resolution on recirculation ballots between sessions will be conducted via reflector email and via teleconferences announced to the reflector as per the LMSC 802 WG P&P.*

**33.** The Group discussed the future plan and the schedule for TG7a. Please see the doc. 15-23-0414r1.

**34.** In order to resolve the 3<sup>rd</sup> recirculation comments, prepare the D6 draft, the CRG teleconference schedule was discussed. The telco dates should be announced at least 10 days before the telco meeting.

- 2 times between August and September 2023



- August 23 Wednesday 21:00 EST (August 24 Thursday 10:00 KST)
- September 06 Wednesday 21:00 EST (September 07 Thursday 10:00 KST)

**35.** The Group discussed the plan for September Meeting.

- 3 slots (8:00 am on Tue., Wed., and Thur.)
  - Complete the comment resolution for WG LB4 (LB 3rd Recirculation)
  - Prepare the D6 document for initial SA Ballot

**36.** The Group discussed and completed the draft document for the Closing Report of TG7a this week. Please see the doc. 15-23-0414r1.

**37.** Motion to adjourn.

- Approved with unanimous consent

**38.** The meeting adjourned.

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