IEEE P802.15  
Wireless Specialty Networks

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| IEEE 802.15.13  2023 January Wireless Interim Meeting Minutes | | | | |
| Date: 2023-01-19 | | | | |
| Author: | | | | |
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Abstract

# This document contains the TG13 Multi-Gigabit/s Optical Wireless Communications Meeting minutes during 2023 January Wireless Interim.

**Wednesday, 18th Jan. 2023, 16:00 (Baltimore) PM#2 (2nd FL Pickersgrill, Virtual Rm. #3)**

Attendance in-person :

* Volker Jungnickel (Fraunhofer HHI)
* Sang-Kyu Lim (ETRI)
* Tuncer Baykas (Ofinno)

Attendance remotely by Webex :

* Chong Han (pureLiFi)
* Mattias Wendt (Signify)
* Larry Zakaib

1. Volker Jungnickel (Fraunhofer HHI) tried to set up for the mixed-mode hybrid meeting by connecting the audio and video cables for the Webex sharing with his laptop-PC. There was a little problem in the process due to the WebEx host key issue. Chong Han and Mattias Wendt remotely joined the meeting by Webex.
2. The IEEE 802.15.13 meeting was called to order by the Chair, Volker Jungnickel (Fraunhofer HHI). Sang-Kyu Lim (ETRI) recorded the minutes.

1. 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
   * TG13 officers and operating rules
2. The Chair brought the agenda document (15-23/0030r1) showing TG13 schedule for January and he updated the agenda document while introducing the overall agenda for the meeting. The Chair will upload the updated agenda document 15-23/0030r2 to the document server.

* Agenda in doc. 15-23/0030r2
* 1 joint slot with 802.1/802.15 (There was a very good discussion in this joint session.)
* TUE Jan 17, PM#3 6:00-7:00 p.m.
* overview of IEEE P802.15.13\_D10 (<https://mentor.ieee.org/802.15/dcn/23/15-23-0063-00-0013-ieee-p802-15-13-architecture-overview.pptx>)
* suitability for wireless TSN operation
* 1 slot for TG13 this week
* WED Jan 18, PM#2 4:00-6:00 p.m.
* approve agenda and minutes
* discuss future plans
* Any of Business

1. The Chair said this is the last meeting, and the Group looked back on the long history of TG13 from the beginning to this final point for a while.
2. The Chair (Fraunhofer HHI) briefly reported the current status of TG13.

* TG13 has completed its work
  + D10 has no more unresolved comments
  + Draft is on the RevCom Agenda January 30, 2023

(https://standards.ieee.org/wp-content/uploads/import/governance/revcom/agenda.pdf)

* + Hopefully goes out for publication as IEEE Std 802.15.13-2023
  + Draft will be converted into Framemaker and maintained in the future in this way
  + Cross check to be made
  + Thanks to WG and all TG officers and many contributors
  + Talk with Clint and Dorothy about Tutorial in March

1. TG13 Motion to approve the agenda for January 2023 TG13 hybrid meeting

*Motion to approve the agenda for January 2023 hybrid meeting in doc. 15-23/0030r2.*

* + Moved by: Tuncer Baykas
  + Seconded by: Sang-Kyu Lim
  + Approved by unanimous consent

1. TG13 Motion to approve November 2022 meeting minutes

*Motion to approve the November 2022 meeting minutes of TG13 in* *doc. 15-22/0640r1.*

* + Moved by: Sang-Kyu Lim
  + Seconded by: Tuncer Baykas
  + Approved by unanimous consent

1. TG13 Motion to approve December 2022 CRG Teleconference minutes

*Motion to approve the minutes of December 2022 Teleconference of TG13 in doc. 15-22/0685r0.*

* + Moved by: Sang-Kyu Lim
  + Seconded by: Tuncer Baykas
  + Approved by unanimous consent

1. TG13 Motion to reconfirm CRG for the purpose of responding to the result of RevCom meeting

*Move to request that 802.15 WG approves the formation of a Comment Resolution Group (CRG) for the Standards Association balloting of the P802.15.13\_D10 with the following membership: Volker Jungnickel as Chair, Tuncer Baykas, Sang-Kyu Lim, Tero Kivinen. The 802.15.13 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: Tuncer Baykas
  + Seconded by: Sang-Kyu Lim
  + Approved by unanimous consent

1. The Group prepared the WG Motion to reconfirm CRG

*Move that 802.15 WG approves the formation of a Comment Resolution Group (CRG) for the Standards Association balloting of the P802.15.13\_D10 with the following membership: Volker Jungnickel as Chair, Tuncer Baykas, Sang-Kyu Lim, Tero Kivinen. The 802.15.13 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.*

1. For the purpose of responding to the result of RevCom meeting scheduled on January 30, the CRG teleconference schedule was discussed. The telco dates should be announced at least 10 days before the telco meeting.

* TG13 CRG Telco dates
  + 30 January 2023, 11:00-12:30 CET (5:00-6:30 ET, 18:00-19:30 KT)
  + 6 February 2023, 11:00-12.30 CET (5:00-6:30 ET, 18:00-19:30 KT)
  + Meetings to be cancelled if not needed

1. The Group discussed the future steps of IEEE 802.15.13 Standard as follows

* Implementation: Track ongoing activities by TG members
* IEEE Std. is not expected to contain any more serious error
* Bug fixes should be collected on the Mentor in a new comments list
* Formally resolved by a corrigendum (~1 year)
* Develop the market
* Medical/industrial/enterprise/home
* Consider open-source FPGA implementation
* Wireless TSN
* Continue the fruitful discussion with 802.1
* TSN is considered the mass market solution for future industrial networks
* 802.15.13 might be the first wireless standard outside 3GPP suitable for TSN
* Enabling features for wireless TSN were introduced by 802.15.13
* Adaptive bitloading (HB-PHY) and distributed MIMO for high reliability
* Slotted TDMA with variable beacon positions for low latency with zero jitter
* New Ecosystem
* Once volumes increase, engage a chipset vendor
* Test specification, certification, interoperability tests
* To be done by a forum outside IEEE (e.g., LCA)
* IEEE Std 802.15.13-2023 can be further developed
* Lower and higher bandwidth PHYs
* RF PHYs: e.g., THz may also need distributed MIMO
* MAC and PHY support for beamforming and –tracking
* MIMO
* Security
* …….
* Formally to be included by new amendment projects (~3-5 years)
* Corrections and amendments rolled into a revision (~10 years)
* This is beyond the horizon, of course

1. The Group decided to approve the January 2023 meeting minutes (doc. 15-23/0077r0) for TG13 in the WG Closing Plenary meeting because this is the last meeting.
2. Motion to adjourn.
   * Approved with unanimous consent
3. The meeting adjourned.

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