**IEEE P802.19**

**Wireless Coexistence**

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| Project | IEEE P802.19 Wireless Coexistence WG | |
| Title | **July 2024 WG and TG3a Meeting Minutes** | |
| Date Submitted | [August 1, 2024] | |
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| Re: | [] | |
| Abstract | July 2024 IEEE 802.19 Working Group and IEEE 802.19.3a Task Group Meeting Minutes in Montreal | |
| Purpose | [] | |
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**Monday July 15, 2024 – Working Group Opening**

* WG chair called the meeting to order at 4:02 PM in both Montreal and WebEx.
* The chair reviewed the agenda. No changed were needed. The WG unanimously approved the agenda, document 802.19-24/0023r1.  
  <https://mentor.ieee.org/802.19/dcn/24/19-24-0023-01-0000-july-2024-wg-agenda.xlsx>
* The chair read IEEE IPR statement and IEEE-SA participant behavior slide on the WG Opening report, document 802.19-24/0022r1. No objections and comments.  
  <https://mentor.ieee.org/802.19/dcn/24/19-24-0022-00-0000-july-2024-wg-opening-report.pptx>
* The motion to approve the minutes from the previous meeting, document 802.19-24/0021r0, passed unanimously.  
  <https://mentor.ieee.org/802.19/dcn/24/19-24-0021-00-0000-may-2024-wg-and-tg3a-minutes.docx>
* The chair reviewed the WG opening Report, document 802.19-24/0022r1.  
  <https://mentor.ieee.org/802.19/dcn/24/19-24-0022-00-0000-july-2024-wg-opening-report.pptx>
  + Voting member update: 53
  + IEEE 802 meeting schedule, number of TG sessions, and coexistence meeting of IEEE 802.11 group were announced.
  + WG organization introduction
    - WG Chair : Tuncer Baykas (Ofinno)
    - WG Vice Chair : Steve Shellhammer (Qualcomm)
    - WG Secretary : Yukimasa Nagai (Mitsubishi Electric)
    - TG3a Chair : Ben Rolfe (Blind Creek Associates)
    - Liaison To/From 802.11 : Tuncer Baykas (Ofinno)
    - Liaison To/From 802.15 : Ben Rolfe (Blind Creek Associates)
  + Coexistence Assessment documents
    - The 802.19 ballot on the approval of 802.15.4ab Coexistence closed on June 30. The results are Yes: 11, No: 10, Abstain 0. The CA document was not approved. 39 comments were received during the ballot.
  + Coexistence Meetings:
    - Announcement for coexistence meetings during this week, 3 meetings are scheduled during this meeting. The IEEE 802.11 Coex. SC chair, Mark Emmelmann checked the meeting schedule.
  + Liaison Report From 802.11
    - The 802.11 liaison provided a verbal liaison report from 802.11. Group status updates were introduced. Discussion items including narrowband frequency hopping blocking wideband. Status of all active task groups were introduced. IEEE and ITU will provide joint workshop. And video recoding for workshop is available on workshop page.
  + Liaison Report From 802.15
    - The 802.15 liaison provided a verbal liaison report from 802.15. Group status updates were introduced. Status of all active task groups and new activity at interest group were introduced. The working group chair created an interest group to actually look at channel access and specifically with a focus channel access to improve coexistence. IG is going to take some of the discussion to define scope. This activity may contact to existing projects, such as IEEE 802.11 and or IEEE 802.19, which might be an interesting place to do a coexistence project.
    - Questions:
      * Target of interest group was discussed. This interest group will focus on not just IEEE 802.15.4 but other systems. Some concerns that will not be discussed in existing task group focus will be focused. After discussion in interest group, some feedback to existing task group will be happened.
      * Spectrum access discussion for ultra-wideband and securing were also mentioned to clarify the difference from the interest group.
  + No other businesses discussed.
* The WG recessed at 4.36 PM and switched to TG3a opening.

**Monday July 15, 2024 – TG3a Opening**

* TG chair called the meeting to order at 4:38PM.
* The chair reviewed the agenda. The TG3aunanimously approved the agenda, document 802.19-24/0025r0. Joerg proposed to add the contribution on the agenda.   
  <https://mentor.ieee.org/802.19/dcn/24/19-24-0025-00-003a-task-group-agenda-and-meeting-slides.pptx>
* The TG chair reviewed project overview, officers, near term milestones and call for contributions for specific topics. Neither future discussion nor objection for agenda. No changed were needed.
* Kazuto Yano, ATR presented the contribution titled “Latest measured radio use over 920 MHz band in Kansai area of Japan”, document 802.19-24/0024r0.  
  <https://mentor.ieee.org/802.19/dcn/24/19-24-0024-00-003a-latest-measured-radio-use-over-920-mhz-band-in-kansai-area-of-japan.pptx>
  + Comments and questions:
    - The difference of measurement conditions for BPF between measurement place (1) (2) and (3) were checked. Measurement place (3) didn’t use band pass filter for both 2019 and 2024.
    - The difference of measurement results between 2019 and 2024 were discussed. Narrowband signal and chirp signal were observed in 2024, but signal source was unclear by this measurement.
    - Additional measurements in various region were proposed because smart meter systems are different between regions in Japan. Smart meter system un-using 920 MHz is also deployed in Japan.
    - Discussions of the results measured by the station A were given regarding the cause of the continuous noise. It was commented that noise from trains and other drive systems may be on the results, but the source of the signal has not been identified.
    - Measurement devices and conditions were commented. Measurement signal might be much lower than expected because of measurement device setup including HW loss, RBW, and VBW setting.
* The TG chair explained the next steps in the future meetings.
  + Ideas for September: Feature inventory:
    - Summarize relevant changes in 802.11 and 802.15.4 that introduce new features that may be to improve coexistence. MAC features and PHY features to use in recommendations.
  + The chair called the September meeting contributions for the new recommendation. Technologies, measurement result, and updating from IEEE 802.15.4 feature updates.
  + Comments and questions:
    - Coexistence techniques not only Sub-1 GHz, but also other frequency bands are good references, but primally Sub-1 GHz should be considered in this group.
* No other business discussed.
* The TG3a adjourned at 5:15 PM.

**Monday July 15, 2024 – Working Group Closing**

* The WG chair called the meeting to order at 6:15 PM in both Montreal and WebEx.
* The WG chair asked opinions about September meeting time schedule. Three options were presented for Monday meeting: Monday PM2, Monday PM3, and Thursday PM3 for working group. No objections and comments to select Monday PM3 (18:30) and Thursday PM2. If three meetings more than two meeting session is necessary, WG chair and TG chair will arrange.
* No other business discussed.
* The WG adjourned 6:17 PM this week.

**Attendance**

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| Yusuke Asai | Nippon Telegraph and Telephone Corporation |
| Tuncer Baykas | Ofinno |
| MARC EMMELMANN | Self |
| David Halasz | Morse Micro |
| Hiroshi Harada | National Institute of Information and Communications Technology (NICT) |
| Carl Kain | United Stated Department of Transportation |
| Richard Kennedy | Bluetooth SIG |
| Shoichi Kitazawa | Muroran IT |
| Hiroshi Mano | Koden Techno Info K.K. |
| Hitoshi Morioka | SRC Software |
| Yukimasa Nagai | Mitsubishi Electric Corporation |
| Pooria Pakrooh | Qualcomm Incorporated |
| Stephen Palm | Broadcom Corporation |
| Gaurav Patwardhan | Hewlett Packard Enterprise |
| Riku Pirhonen | NXP Semiconductors |
| Benjamin Rolfe | Blind Creek Associates |
| Stephan Sand | German Aerospace Center (DLR) |
| Stephen Shellhammer | Qualcomm Incorporated |
| Ian Sherlock | Texas Instruments Inc. |
| Takenori Sumi | Mitsubishi Electric Corporation |
| Pu Wang | Mitsubishi Electric Research Laboratories |
| Matthias Wendt | Signify |
| Menzo Wentink | Qualcomm Incorporated |
| Kazuto Yano | Advanced Telecommunications Research Institute International (ATR) |
| Rolf de Vegt | Qualcomm Incorporated |