**IEEE P802.19**

**Wireless Coexistence**

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| Project | IEEE P802.19 Wireless Coexistence WG | |
| Title | **May 2024 WG and TG3a Meeting Minutes** | |
| Date Submitted | [May 21, 2024] | |
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| Re: | [] | |
| Abstract | May 2024 IEEE 802.19 Working Group and IEEE 802.19.3a Task Group Meeting Minutes in Warsaw | |
| Purpose | [] | |
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**Monday May 13, 2024 – Working Group Opening**

* WG chair called the meeting to order at 6:31 PM in both Warsaw and WebEx.
* The chair reviewed the agenda. No changed were needed. The WG unanimously approved the agenda, document 802.19-24/0014r0.   
  <https://mentor.ieee.org/802.19/dcn/24/19-24-0014-00-0000-may-2024-wg-agenda.xlsx>
* The chair read IEEE IPR statement and IEEE-SA participant behavior slide on the WG Opening report, document 802.19-24/0015r1. No objections and comments.  
  <https://mentor.ieee.org/802.19/dcn/24/19-24-0015-01-0000-may-2024-wg-opening-report.pptx>
* The motion to approve the minutes from the previous meeting, document 802.19-24/12r0, passed unanimously.   
  <https://mentor.ieee.org/802.19/dcn/24/19-24-0012-00-0000-march-2024-wg-minutes.docx>
* The chair reviewed the WG Opening Report, document 802.19-24/0015r1. <https://mentor.ieee.org/802.19/dcn/24/19-24-0015-01-0000-may-2024-wg-opening-report.pptx>
  + Voting member update: 53
  + WG organization introduction:
    - WG Chair : Tuncer Baykas (Ofinno)
    - WG Vice Chair : Steve Shellhammer (Qualcomm)
    - 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 Meetings introduction:
    - The IEEE 802.11 Coex. SC chair, Mark Emmelmann introduced the discussion on March meeting, and plan for May meeting. Tusuday PM3 meeting was announced.
  + WG Secretary approval:
    - Motion:
      * Confirm Yukimasa Nagai as the IEEE 802.19 Working Group Secretary
      * Move by Mark Emmelmann
      * Seconded by Kazuto Yano
      * No objections for motion. The motion to approve the WG secretary, passed unanimously.
  + Liaison Report from 802.11
    - The 802.11 liaison provided a verbal liaison report from 802.11. Some group status updates were introduced. TIG AIML changed to AIML SC, and 1st meeting at Warsaw meeting.
  + Liaison Report from 802.15
    - The 802.15 liaison provided a verbal liaison report from 802.15. Some group status updates were introduced.
* No other businesses discussed.
* The WG recessed at 6:48 PM and switched to TG3a opening.

**Monday May 13, 2024 – TG3a Opening**

* TG chair called the meeting to order at 6:50 PM.
* The chair reviewed the agenda. Two technical contributions from Shoichi Kitazawa, Muroran-IT and Yukimasa Nagai, Mitsubishi Electric were added on agenda on Thursday. The TG3a unanimously approved the revised agenda, document 802.19-24/0017r2.  
  <https://mentor.ieee.org/802.19/dcn/24/19-24-0017-02-003a-19-3a-agenda-and-meeting-slides-may-2024.pptx>
* The TG chair reviewed project overview, officers, near term milestones and call for contributions for specific topics.
* Joerg Robert, TU Ilmenau / Fraunhofer IIS presented the contribution titled “Interference Spectrum Measurements”, document 802.19-24/0016r0.  
  <https://mentor.ieee.org/802.19/dcn/24/19-24-0016-00-003a-interference-spectrum-measurements.pptx>
  + Comments and questions:
    - The availability of software to perform the analysis was confirmed. The SW can be provided by SDR HW vender (RSPduo Software).
    - Presenter, Joerg called additional measurement data with time difference, location, countries and so on.
    - Measurement conditions for height differences in consideration of installed equipment (e.g. smart meter is installed in a few meter from ground, the interference varies by measurement height.) were discussed.
    - Type of filter for SDR was confirmed. SAW filter bandwidth of 5 MHz is used.
    - Status of AGC and the reason to switch off the AGC was confirmed.
    - Importance of further information with various condition was shared as conclusion.
* Agenda change was proposed to move Thursday presentations to Monday, but not ready yet. So the revised agenda on document 802.19-24/0017r2 was kept.
* No other business discussed.
* The TG3a recessed at 7:26 PM.

**Thursday May 16, 2024 – TG3a Session and Closing**

* TG chair called the meeting to order at 6:32 PM in both Warsaw and WebEx.
* The chair reviewed the agenda, document 802.19-24/0017r2.  
  <https://mentor.ieee.org/802.19/dcn/24/19-24-0017-02-003a-19-3a-agenda-and-meeting-slides-may-2024.pptx>
  + Comments and Questions
    - Meeting agenda for TG3a was confirmed whether other business before TG3a adjourned or not. WG chair will answer the question at WG session.
  + No changed were needed. The WG unanimously approved the agenda, document 802.19-24/0017r2.
* Shoichi Kitazawa, Muroran-IT presented the contribution titled “Update of 920MHz band Radio Environment in the Tokyo Area“, document 802.19-24/0019r0.  
  <https://mentor.ieee.org/802.19/dcn/24/19-24-0019-00-003a-update-of-920mhz-band-radio-environment-in-the-tokyo-area.pdf>
  + Comments and Questions
    - Measurement conditions and results were discussed.
    - Signal threshold for measurement and the bandwidth of this threshold were confirmed. Threshold for channel occupancy was set to – 90 dBm. The detection level for bandwidth was less than 19 MHz. Different setting for measurement is future work.
    - Why was the signal not observed around 924 MHz compared to 920 MHz – 924 MHz on page 8? No specific reason was given.
    - Measurement procedure was confirmed whether the data was given from the spectrum analyzer or from original IQ data. The data was given from the spectrum analyzer this time. IQ data may be future work because the spectrum analyzer supports IQ data.
    - How do you consider the results from the obtained graph results? The graph on page 8 showed channel congestion already. Many terminals such as smart meters might be deployed in the area. Required error level for reception on the system was checked, but no specific number was given.
* Yukimasa Nagai, Mitsubishi Electric presented the contribution titled “Simulation Parameter Update for S1G Bands OFDM Systems “, document 802.19-24/0018r0.  
  <https://mentor.ieee.org/802.19/dcn/24/19-24-0018-00-003a-simulation-parameter-update-for-s1g-bands-ofdm-systems.pptx>
  + Comments and Questions
    - Transmission rates condition for IEEE 802.15.4g-OFDM PHY, which will be newly considered in this study, was confirmed. IEEE 802.15.4g-OFDM PHY data rates were selected to have same receive sensitivity as IEEE 802.15.4g-FSK PHY.
    - Transmission time limitation (e.g., 10 % rule) for specific regions, such as Japan and Europe, was checked for simulation parameters. 10 % transmission rules are considered for simulation parameter with traffic offered loads for the future simulation.
* Near Term Milestones and call for contributions
  + TG3a chair reviewed near term milestones including meeting schedule.
  + Meetings this week were scheduled on Monday PM2 and Thursday PM3. Future meeting schedule will be discussed in WG and other WGs (802.11 and 802.15) in consideration with tutorials. Part of the objective is to have at least one of TG3a meetings each session.
  + TG3a will plan to discuss use cases update from TG3 in July to cover various use cases. TG3a has got a very solid foundation for simulations and some, so far.
  + TG3a chair calls contributions, foundation, additional practical studies, usage scenarios and specific technical contributions on how to improve coexistence for July meeting.
  + The descriptions of the futures standard, that may have changed underlying standards, may have changed, or add new ideas on.
* Next Steps
  + TG3a issued call for contributions for July plenary session.
* TG3a chair asked if there’s any other business for the Task Group at this time. No other business discussed.
* The TG3a adjourned at 7:10 PM and switched to Working Group Closing.

**Thursday May 16, 2024 – Working Group Closing**

* WG chair called the meeting to order at 7:10 PM in both Warsaw and WebEx.
* The chair reviewed the agenda. No changed were needed. The WG unanimously approved the agenda, document 802.19-24/0020r0.   
  <https://mentor.ieee.org/802.19/dcn/24/19-24-0020-00-0000-may-2024-wg-closing-report.pptx>
* Coexistence Assessment documents
  + There were no ballots on Coexistence Assessment documents since the March session.
* TG3a Report
  + TG3a chair reported the activity this week. Two sessions were held on Monday PM3 and Thursday PM3. Three presentations were presented. Called contributions for the Next July meeting.
* Possible Schedule
  + WG chair proposed the possible schedule for the future meetings in consideration of attendees who are also attending other WG meeting.
  + Two possible schedules were proposed.
    - Monday PM2 (if there are no tutorials PM3)
    - Thursday PM3
  + The WG unanimously approved the proposed schedules
* Strawpolls
  + WG chair ran strawpolles for meeting venue and social.
    - How many people would like to come back to this venue?
      * Yes – 12
      * No – 0
    - Did you go to the social?
      * Yes – 11
      * No – 1
    - If you attended the Social, did you like the transportation?
      * Yes – 9
      * No – 2
    - If you attended the Social, did you like the dinner?
      * Yes – 11
      * No – 0
  + The results has been posted on Mentor, document 802.19-24/0020r1  
    <https://mentor.ieee.org/802.19/dcn/24/19-24-0020-01-0000-may-2024-wg-closing-report.pptx>
* No other business discussed.
* The WG adjourned at 7:17 PM.