**IEEE P802.19**

**Wireless Coexistence**

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| Project | IEEE P802.19 Wireless Coexistence WG | |
| Title | **May 2025 WG and TG3a Meeting Minutes** | |
| Date Submitted | [July 19, 2025] | |
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| Re: | [] | |
| Abstract | May 2025 IEEE 802.19 Working Group and IEEE 802.19.3a Task Group Meeting Minutes in Warsaw | |
| Purpose | [] | |
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**Monday May 12, 2025 – Working Group Opening**

* WG chair called the meeting to order at 6:30 PM in both Warsaw and WebEx.
* The chair reviewed the agenda. No changed were needed. The WG unanimously approved the agenda, document 802.19-25/0028r0.  
  <https://mentor.ieee.org/802.19/dcn/25/19-25-0028-00-0000-may-2025-wg-agenda.xlsx>
* The chair read IEEE IPR statement and IEEE-SA participant behavior slide on the WG Opening report, document 802.19-25/0026r1. No objections and comments. The following items were discussed.  
  <https://mentor.ieee.org/802.19/dcn/25/19-25-0026-01-0000-may-2025-opening-report.pptx>
  + Registration information
  + The motion to approve the minutes from the previous meeting, document 802.19-25/0024r0, and 802.19-25/0025r0, passed unanimously. Moved by Ben Rolfe (BCA), Seconded by Shoichi Kitazawa (Muroran-IT).  
    <https://mentor.ieee.org/802.19/dcn/25/19-25-0024-00-0000-march-2025-wg-and-tg3a-minutes.docx>,  
    <https://mentor.ieee.org/802.19/dcn/25/19-25-0025-00-0000-march-2025-teleconference-minutes.docx>
  + Overview
    - IEEE 802.19 group reviews coexistence assessment documents (CAD) produced by working groups developing new wireless standards for unlicensed devices.
    - IEEE 802.19 develops standards for coexistence between wireless standards of unlicensed devices.
    - IEEE 802.19 WG has 53 voting members
  + Working Group Leadership
    - WG Chair : Tuncer Baykas (self)
    - WG Vice Chair : Steve Shellhammer (Qualcomm)
    - WG Secretary : Yukimasa Nagai (Mitsubishi Electric)
    - TG3a Chair : Ben Rolfe (Blind Creek Associates)
  + Coexistence Assessment Document Letter Ballots:
    - The chair reported the results of two letter ballots.
      * IEEE 802.15.4ab CAD
        + Y:23, N:20, A:1 🡪 LB failed
      * IEEE 802.15.6ma CAD
        + Y:21, N:4, A:2 🡪 LB Passed
  + FCC Consultation on Sub 1-GHz bands
    - The chair reported the topic on conference call from March meeting.
  + 802.19.3a Task Group status update
  + Meeting schedule
    - Two meetings are scheduled this week: Monday 12, 6:30 PM, Thursday 14, 6:30 PM
  + IEEE SA Standards Awards Nomination
    - Schedule was announced.
  + Announcement of IEEE conference
    - The chair introduced the IEEE conference on Standards for Communications and Networking on 15-17 September 2025, Bologna, Italy.
  + No questions and comments.
* No other business discussed.
* The WG recessed at 6:40 PM and switched to TG3a opening.

**Monday May 12, 2025 – TG3a Opening**

* TG chair called the meeting to order at 6:41 PM.
* The chair reviewed the agenda, document 802.19-25/0027r2.  
  <https://mentor.ieee.org/802.19/dcn/25/19-25-0027-02-003a-task-group-3a-meeting-slides.pptx>
  + TG chair reviewed project overview, the proposed focus for May, officers, and discission on agenda.
  + Tech Editor, Shoichi Kiatazawa, Muroran-IT proposed to discuss preparation for drafting document, and requested one presentation time on Thursday for clarification of the status. TG chair also prepared the overview document for the future work. Tech Editor, Shoichi Kitazawa, Muroran-IT will discuss more details for drafting document. Presentation time on Thursday PM3 was assigned.
  + The TG3a unanimously approved the revised agenda without objection.
* The motion to approve the minutes from the previous meeting, document 802.19-25/0024r0 and 802.19-25/0025r0, passed unanimously.  
  <https://mentor.ieee.org/802.19/dcn/25/19-25-0024-00-0000-march-2025-wg-and-tg3a-minutes.docx>,  
  <https://mentor.ieee.org/802.19/dcn/25/19-25-0025-00-0000-march-2025-teleconference-minutes.docx>
* The chair Ben Rolfe, BCA presented the contribution titled “802.15.4 Coexistence Feature Update TG 19.3a Contribution,” document 802.19-25/0021r0. CSMA/CA types and feature were introduced with use cases.  
  <https://mentor.ieee.org/802.19/dcn/25/19-25-0021-00-003a-802-15-4-coexistence-feature-update.pptx>
  + Comments and Questions:
    - The Backoff mechanism related backoff exponential increase was clarified with flow chart.
* The chair Ben Rolfe, BAC presented the contribution titled “Preparation for Drafting,” document 802.19-25/0029r1.  
  <https://mentor.ieee.org/802.19/dcn/25/19-25-0029-01-003a-preparation-for-drafting.pptx>
  + Comments and Questions:
    - TG Editor also planned to prepare contributions in the same direction as the TG chair presentation. TG Editor would like to have the subclauses for making a new document, and changes based on both IEEE 802.11ah side and IEEE 802.15.4g side. These should be updated based on IEEE 802.15.4-2024. IEEE 802.11 released new roll up with IEEE 802.11-2024. The drafting process for the document were discussed as follow:
      * Mapping contributions to different sections of the draft
      * Creating a skeleton document with headlines for different sections
      * Identifying and assigning volunteered members for specific clauses
      * The key goal was to divide the drafting work among participants and start preparing the document for July.
    - Requested to clarify the skeleton document for making draft.
* No other business discussed.
* Don’t forget attendance
* The TG3a recessed at 7:25 PM.

**Thursday May 15, 2025 – TG3a Closing**

* The TG chair called the meeting to order at 6:32 PM in both Warsaw and WebEx.
* The chair reviewed the agenda, document 802.19-25/0027r3.  
  <https://mentor.ieee.org/802.19/dcn/25/19-25-0027-03-003a-task-group-3a-meeting-slides.pptx>
  + The TG chair read IEEE IPR statement and IEEE-SA participant behavior slide.
  + TG chair called to inform the IEEE of the identity of each holder of any potential essential patent claims. No response for potential essential patent information to TG Chair and WG Chair.
  + Kazuno Yano, ATR, requested the order of presentation today. The TG3a unanimously approved to swap the order of presentations from Kazuto Yano and Takenori Sumi.
  + The TG3a unanimously approved the modified agenda, document 802.19-25/0027r4.  
    <https://mentor.ieee.org/802.19/dcn/25/19-25-0027-04-003a-task-group-3a-meeting-slides.pptx>
* Takenori Sumi, Mitsubishi Electric, presented the contribution titled “Summary of Coexistence Simulation Evaluation for IEEE 802.11ah and IEEE 802.15.4g,” document 802.19-25/0033r0.  
  <https://mentor.ieee.org/802.19/dcn/25/19-25-0033-00-003a-summary-of-coexistence-simulation-evaluation-for-ieee-802-11ah-and-ieee-802-15-4g.pptx>
  + Comments and Questions:
    - The condition of interference 802.11ah 4 MHz bandwidth, 802.15.4g 400 KHz bandwidth were discussed. The center of frequency of IEEE 802.11ah (4MHz bandwidth) and IEEE 802.15.4g (400 KHz bandwidth) were confirmed in relation to one. IEEE 802.15.4g (400 KHz) is placed in the center of frequency of IEEE 802.11ah (4MHz) was confirmed. Furthermore, curiosity of frequency shift from center was informed for additional evaluation.
* Kazuto Yano, ATR, presented the contribution titled “Plan of coexistence experiment between IEEE 802.15.4g and IEEE 802.11ah system,” document 802.19-25/0031r1.  
  <https://mentor.ieee.org/802.19/dcn/25/19-25-0031-01-003a-plan-of-coexistence-experiment-between-ieee-802-15-4g-and-ieee-802-11ah-systems.pptx>
  + Comments and Questions:
    - Plan of channel configuration was discussion. Furthermore, curiosity of frequency shift from center was informed.
    - Layout plan for experiment was discussed. Especially the distances between nodes. Cumber size for test environment is restricted up to 10 meters. Additional attenuator inserts were requested to see the impact of distance relationship.
    - Some suggestion was raised that the configuration tends to lead worst cases for coexistence, but specific setting values were not provided. Therefore, future test will be conducted within the presenter’s test environment.
    - The condition of IEEE 802.11ah test device was discussed whether those already on the market or test bed. The IEEE 802.11ah device on the market will be used, but the type of device on the market is limited.
* Shoichi Kitazawa, Muroran IT, presented the contribution titled “List of TG 19.3a Contribution for Drafting,” document 802.19-25/0034r0 with “Table of Contents of 19.3a Draft,” document 802.19-25/0005r1.   
  <https://mentor.ieee.org/802.19/dcn/25/19-25-0034-00-003a-list-of-tg-19-3a-contribution-for-drafting.xls>,  
  <https://mentor.ieee.org/802.19/dcn/25/19-25-0005-01-003a-table-of-contents-of-19-3a-draft.docx>
  + Comments and Questions:
    - In addition to modify the structure of clause/sub-clause, but also new clause/sub-clause were discussed as starting point. Reorganization of clause/sub-clause were also accepted, if necessary.
    - The chair called the volunteers for making draft.
* Near Term Milestones
  + Develop technical contents
* No other business discussed.
* The TG adjourned 19:30 PM this week and switched to WG closing.

**Thursday May 15, 2025 – Working Group Closing**

* The WG chair called the meeting to order at 19:32 PM in both Atlanta and WebEx, document 802.19-25/0028r0. No objections and comments for agenda.  
  <https://mentor.ieee.org/802.19/dcn/25/19-25-0028-00-0000-may-2025-wg-agenda.xlsx>
  + Teleconference Schedule discussion
    - PAR review for IEEE 802.11 and IEEE 802.15 was discussed.
    - To review the PAR to input comments from IEEE 802.19 WG, several ideas were discussed: (1) individual teleconference schedule set up, (2) Set up e-poll during the meeting week.
    - New action item for WG chair to check the new PAR coming was added.
  + Liaison report from 802.11
    - The 802.11 liaison provided a verbal liaison report from 802.11. Group status updates were introduced. The status motions at IEEE 802.11 were also reported.
  + Liaison report from 802.15
    - The 802.15 liaison provided a verbal liaison report from 802.15. Group status updates were introduced referring document 802.11-25/0977r0.
* The WG chair summarized the meeting achievement for this week, document 802.19-25/0032r0.  
  <https://mentor.ieee.org/802.19/dcn/25/19-25-0032-00-0000-may-2025-wg-closing-report.pptx>
  + Voting Member
  + Working Group Leadership
* SPs (Straw Polls) for Warsaw meeting:
  + 1. How many people would like to come back to this venue?
    - Yes: 13, N 0
  + 2. Dis you go to the Social?
    - Yes 12, No 1
  + 3. If you attended the Social, did you like the social?
    - Yes 11, No 1
  + No other business discussed.
* The WG adjourned 7:54 PM this week.

**Attendance**

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| --- | --- |
| Thomas Almholt | Texas Instruments, Inc. |
| Tuncer Baykas | Self |
| Harry Bims | Bims Laboratories, Inc. |
| MARC EMMELMANN | Self |
| Jianlin Guo | Mitsubishi Electric Research Laboratories (MERL) |
| Tetsushi Ikegami | Meiji University |
| Susumu Ishihara | Shizuoka University; Ministry of Internal Affairs and Communications, Japan |
| SHUGO KAJITA | Space-Time Engineering Japan, Inc. |
| Arata Kato | Space-Time Engineering Japan, Inc. |
| Youhan Kim | Qualcomm Incorporated |
| Shoichi Kitazawa | Muroran IT |
| Alexander Krebs | Apple Inc. |
| James Lansford | Farafir, SRL |
| Frank Leong | NXP Semiconductors |
| Sebastian Max | Ericsson AB |
| Hitoshi Morioka | SRC Software |
| Yukimasa Nagai | Mitsubishi Electric Corporation |
| Toshizo Nogami | SHARP CORPORATION |
| Gaurav Patwardhan | Hewlett Packard Enterprise |
| Charlie Pettersson | Ericsson AB |
| Riku Pirhonen | NXP Semiconductors |
| Fabrice Portier | Silicon Laboratories |
| Haneya Qureshi | GM |
| Raquel Renno | Article 19 |
| Joerg Robert | FAU Erlangen-Nuernberg / Fraunhofer IIS |
| Benjamin Rolfe | Blind Creek Associates |
| Stephan Sand | German Aerospace Center (DLR) |
| Stephen Shellhammer | Qualcomm Incorporated |
| Ian Sherlock | Texas Instruments Inc. |
| Stuart Strickland | Hewlett Packard Enterprise |
| Takenori Sumi | Mitsubishi Electric Corporation |
| Masanori Uno | e-trees.Japan,inc |
| Leif Wilhelmsson | Ericsson AB |
| Kazuto Yano | Advanced Telecommunications Research Institute International (ATR) |
| Su Khiong Yong | Apple Inc. |