IEEE P802.11  
Wireless LANs

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| TGbe 2020 February and March teleconference agendas | | | | | |
| Date: 2020-01-24 | | | | | |
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Abstract

This document contains the draft agenda for February 2020 and March 2020 TGbe teleconferences.

Revisions:

* Rev 0: Initial version of the document.
* Rev 1: Updated with requests and suggestions received from members, 4 requests for deferral to subsequent conf calls, two modifications for classification change, and replaced them with 4 submissions to the queue from ML-UL Mux, and ML-Link Mgmt.
* Rev 2: Removed a submission that was already presented at the F2F, and replaced it with another submission from ML-Link Mgmt.
* Rev 3: Updated with changes following the end of the first conf call.
* Rev 4: Updated with changes following the end of the second conf call and added submissions for the third conference call.
* Rev 5: Updated with requests and suggestions received from members for submissions listed for the 3rd conf call.
* Rev 6: Updated with request to re-schedule the submission that had the e-poll.
* Rev 7: Updated with the addition of submissions listed for the 4th and 5th conference calls.

## Teleconferences Overview

TGbe will hold 6 teleconferences before the March 2020 F2F for discussing technical presentations:

* **January 30 (Thursday) - MAC/PHY 19:00-22:00 ET**
* **February 6 (Thursday) - Joint 10:00-12:00 ET**
* **February 13 (Thursday) - Joint 19:00-22:00 ET**
* **February 20 (Thursday) - MAC/PHY 10:00-12:00 ET**
* **February 27 (Thursday) - Joint 19:00-22:00 ET**
* **March 5 (Thursday) - MAC/PHY 10:00-12:00 ET**

**We’ll use the following bridges:**

* Join.me bridge for **JOINT and MAC: Join.Me meeting:** [**Join**](https://www.google.com/url?q=https%3A%2F%2Fjoin.me%2FIEEE802.11&sa=D&ust=1580354899844000&usg=AFQjCNF6mJNaQCtDESuru_7AVJ0Eio7ubA)
* Webex bridge for **PHY:** [**Join**](https://www.google.com/url?q=https%3A%2F%2Fieee802.my.webex.com%2Fieee802.my%2Fj.php%3FMTID%3Dmedb33eb774c6787017117abffb4b4837&sa=D&ust=1580354899844000&usg=AFQjCNGpK8MsMGvZytkb5zAnGz_SmOy8bw)

## Technical Presentations’ List

* 76 submissions in the queue.

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| **DCN** | **Title** | **Author** | **Status** | **Topic** | **Session** |
| [1923r1](https://mentor.ieee.org/802.11/dcn/19/11-19-1923-01-00be-revisiting-harq-complexity.pptx) | Revisiting HARQ Complexity | Shimi Shilo | Presented | HARQ | Joint |
| [2120r0](https://mentor.ieee.org/802.11/dcn/19/11-19-2120-00-00be-link-adaptation-improvement.pptx) | Link Adaptation Improvement | Wook Bong Lee | Pending | Link Adaptation | Joint |
| [0032r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0032-00-00be-consideration-on-multi-ap-home-mesh-scenario.pptx) | Consideration on Multi-AP Home Mesh Scenario | Kosuke Aio | Presented | MAP-General | Joint |
| [0033r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0033-00-00be-coordinated-spatial-reuse-operation.pptx) | Coordinated spatial reuse operation | Jason Yuchen Guo | Presented | MAP-SR | Joint |
| [0035r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0035-00-00be-discussion-on-expansion-of-multi-link-aggregation-to-multi-ap.pptx) | Discussion on Expansion of Multi-Link Aggr. to Multi-AP | Yoshihisa Kondo | Presented | MAP-ML | Joint |
| [0047r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0047-00-00be-feedback-enhancement.pptx) | Feedback Enhancement | Wook Bong Lee | Pending | Link Adaptation | Joint |
| [0052r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0052-00-00be-multi-ap-sounding-discussion.pptx) | Multi-AP Sounding Discussion | Qichen Jia | Presented | MAP-Sounding | Joint |
| [0064r1](https://mentor.ieee.org/802.11/dcn/20/11-20-0064-01-00be-overview-of-multi-ap-operation-in-11be.pptx) | Overview of Multi-AP Operation in 11be | Chenhe Ji | Presented | MAP-General | Joint |
| [0068r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0068-00-00be-multi-link-and-multi-ap-reference-model-discussion.pptx) | Multi-link and multi-ap reference-model discussion | Yonggang Fang | Presented | ML-MAP | Joint |
| [0071r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0071-00-00be-joint-transmission-for-11be.pptx) | Joint Transmission for 11be | Ron Porat | Presented | MAP-Joint Tx | Joint |
| [0073r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0073-00-00be-on-coordinated-spatial-reuse-in-11be.pptx) | On Coordinated Spatial Reuse in 11be | Jianhan Liu | Presented | MAP-SR | Joint |
| [0083r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0083-00-00be-impacts-of-mcs-set-expansion-on-11be-link-adaptation.pptx) | Impacts of MCS set expansion on 11be link adaptation | Yan Zhang | Pending | Link Adaptation | Joint |
| [0086r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0086-00-00be-opportunistic-implicit-channel-sounding.pptx) | Opportunistic Implicit Channel Sounding | Roya Doostnejad | Pending | Sounding | Joint |
| [0091r1](https://mentor.ieee.org/802.11/dcn/20/11-20-0091-01-00be-performance-of-parameterized-spatial-reuse-psr-with-coordinated-beamforming-null-steering-for-802-11be.pptx) | Performance of parameterized spatial reuse (PSR) with coordinated beamforming/null steering | Adrian Garcia-Rodriguez | Reschedule | MAP-SR | Joint |
| [0099r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0099-00-00be-coordinated-beamforming-for-802-11be.pptx) | Multi-AP Coordinated BF in IEEE 802.11be | Roya Doostnejad | Reschedule | MAP | Joint |
| [0101r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0101-00-00be-11be-harq-discussions.pptx) | 11be HARQ Discussions | Li-Hsiang Sun | Pending | HARQ | Joint |
| [0107r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0107-00-00be-multi-ap-coordination-for-spatial-reuse.pptx) | Multi-AP coordination for spatial reuse | Dmitry Akhmetov | Presented | MAP-SR | Joint |
| [0123r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0123-00-00be-channel-sounding-for-multi-ap-cbf.pptx) | Channel Sounding for Multi-AP CBF | Feng Jiang | Presented | MAP-Sounding | Joint |
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| [1547r3](https://mentor.ieee.org/802.11/dcn/19/11-19-1547-03-00be-multi-link-operation-and-channel-access-discussion.pptx) | Multi-link-operation-and-channel-access-discussion | Kaiying Lu | Presented (F2F) | ML-Med. Access | MAC |
| [1604r1](https://mentor.ieee.org/802.11/dcn/19/11-19-1604-01-00be-eht-direct-link-transmission.pptx) | EHT Direct Link Transmission | Dibakar Das | Pending | Medium Access | MAC |
| [1622r0](https://mentor.ieee.org/802.11/dcn/19/11-19-1622-00-00be-use-auto-repetition-in-low-latency-queue.pptx) | Use Auto Repetition in low latency queue | Tony Zeng | Pending | Low Latency | MAC |
| [1918r0](https://mentor.ieee.org/802.11/dcn/19/11-19-1918-00-00be-ul-mu-efficiency-enhancement-using-multi-link.pptx) | UL MU effic. enhancement considering multi-link | Jeongki Kim | Presented | ML-UL Mux | MAC |
| 1920r0 | Power Save for Multi-link | Ming Gan | Pending | ML-Power Save | MAC |
| [1927r0](https://mentor.ieee.org/802.11/dcn/19/11-19-1927-00-00be-multi-link-operation-simulation-methodology.pptx) | Multi-link-operation-simulation-methodology | Yongho Seok | Presented | ML-General | MAC |
| [1928r0](https://mentor.ieee.org/802.11/dcn/19/11-19-1928-00-00be-multi-link-operation-performance-evaluation.pptx) | Multi-link-operation-performance-evaluation | Yongho Seok | Presented | ML-General | MAC |
| [1930r1](https://mentor.ieee.org/802.11/dcn/19/11-19-1930-01-00be-ap-assisted-multi-link-operation.pptx) | AP assisted Multi-link operation | Dibakar Das | Pending | ML-Link Mgmt | MAC |
| [1932r1](https://mentor.ieee.org/802.11/dcn/19/11-19-1932-01-00be-multi-link-policy-framework.pptx) | Multi-link policy framework | Cheng Chen | Pending | ML-Link Mgmt | MAC |
| [1943r2](https://mentor.ieee.org/802.11/dcn/19/11-19-1943-02-00be-multi-link-management.pptx) | Multi-link Management | Taewon Song | Pending | ML-Link Mgmt | MAC |
| [1962r](https://mentor.ieee.org/802.11/dcn/19/11-19-1962-01-00be-multi-link-upper-mac-entity-instance-new-frame-mac-header.pptx)1 | ML Upper-MAC Entity Inst. & New Frame MAC Header | Huizhao Wang | Pending | ML-Architecture | MAC |
| [1963r1](https://mentor.ieee.org/802.11/dcn/19/11-19-1963-01-00be-multi-link-security-and-aggregation-operations.pptx) | Multi-Link Security And Aggregation Operations | Huizhao Wang | Pending | ML-Architecture | MAC |
| [1993r1](https://mentor.ieee.org/802.11/dcn/19/11-19-1993-01-00be-discussion-about-single-and-multiple-primary-channels-in-synchronous-multi-link.pptx) | Discussion about single and multiple primary channels in synchronous multi-link | Yunbo Li | Pending | ML-Sync TX/RX | MAC |
| [1305r0](https://mentor.ieee.org/802.11/dcn/19/11-19-1305-00-00be-synchronous-multi-link-operation.pptx) | Synchronous multi-link transmission | Yongho Seok | Pending | ML-Sync TX/RX | MAC |
| [1955r0](https://mentor.ieee.org/802.11/dcn/19/11-19-1955-00-00be-multi-link-operation-per-link-aid.pptx) | Multi-link Operation: Per-link AID | Abhishek Patil | Pending | ML-Power Save | MAC |
| [2071r1](https://mentor.ieee.org/802.11/dcn/19/11-19-2071-01-00be-performance-evaluation-of-multi-link-channel-access-schemes.pptx) | Performance evaluation of Multi-link channel access schemes | Sindhu Verma | Presented | ML-Med. Access | MAC |
| [2125r0](https://mentor.ieee.org/802.11/dcn/19/11-19-2125-00-00be-eht-rts-and-cts-procedure.pptx) | EHT RTS and CTS procedure | Yongho Seok | Pending | Medium Access | MAC |
| [0003r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0003-00-00be-discussion-on-latency-metric.pptx) | Discussion on latency metric | Suhwook Kim | Pending | Low Latency | MAC |
| [0005r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0005-00-00be-proposals-on-latency-reduction.pptx) | Proposals on Latency Reduction | Shubhodeep Adhikari | Pending | Low Latency | MAC |
| [0006r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0006-00-00be-proposed-corrections-to-channel-access-issues-in-802-11.pptx) | Proposed Corrections to Channel Access Issues in 802.11 | Shubhodeep Adhikari | Pending | Medium Access | MAC |
| [0012r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0012-00-00be-multi-link-acknowledgement-follow-up.pptx) | Multi-link Acknowledgement Follow Up | Taewon Song | Pending | ML-Block Ack | MAC |
| [0014r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0014-00-00be-operation-of-non-ap-mld-with-constraints.pptx) | Operation of Non-AP MLD with Constraints | Insun Jang | Presented | ML-Med. Access | MAC |
| [0024r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0024-00-00be-mlo-acknowledgement-procedure.pptx) | MLO: Acknowledgement procedure | Abhishek Patil | Pending | ML-Block Ack | MAC |
| [0026r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0026-00-00be-mlo-sync-ppdus.pptx) | MLA Support for Constrained Devices | Duncan Ho | Pending | ML-Sync TX/RX | MAC |
| [0027r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0027-00-00be-mlo-sn-space-expansion.pptx) | Expansion of SN Space | Duncan Ho | Pending | MAC-Block Ack | MAC |
| [0028r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0028-00-00be-indication-of-multi-link-information.pptx) | Indication of Multi-link Information | Insun Jang | Pending | ML-Link Mgmt | MAC |
| [0030r2](https://mentor.ieee.org/802.11/dcn/20/11-20-0030-02-00be-multi-link-association-follow-up.pptx) | Multi-link Association Follow Up | Guogang Huang | Pending | ML- Link Mgmt | MAC |
| 0034r0 | Multi-link grouping | Jason Yuchen Guo | Pending | ML- Link Mgmt | MAC |
| [0037r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0037-00-00be-power-saving-considering-non-ap-without-str-capability.pptx) | Power Saving Considering non-AP without STR Capability | Namyeong Kim | Pending | ML-Power Save | MAC |
| [0053r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0053-00-00be-multi-link-ba.pptx) | Multi-link BA | Po-Kai Huang | Pending | ML-Block Ack | MAC |
| [0054r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0054-00-00be-mld-mac-address-and-wm-address.pptx) | MLD MAC address and WM address | Po-Kai Huang | Pending | ML-Architecture | MAC |
| [0055r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0055-00-00be-multi-link-block-ack-architecture.pptx) | Multi-link block ack architecture | Rojan Chitrakar | Pending | ML-Architecture | MAC |
| [0061r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0061-00-00be-ba-consideration.pptx) | BA Consideration | Liwen Chu | Pending | ML-Block Ack | MAC |
| [0062r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0062-00-00be-protection-with-more-than-160mhz-ppdu-and-puncture-operation.pptx) | Protection with more than 160MHz PPDU and puncture operation | Liwen Chu | Pending | Medium Access | MAC |
| [0063r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0063-00-00be-sta-mld-link-address.pptx) | STA MLD link address | Liwen Chu | Pending | ML-Architecture | MAC |
| [0066r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0066-00-00be-multi-link-tim.pptx) | Multi-link TIM | Young Hoon Kwon | Pending | ML-Power Save | MAC |
| [0069r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0069-00-00be-multi-link-communication-mode-definition.pptx) | Multi-link communication mode definition | Yonggang Fang | Reschedule | ML-General | MAC |
| [0070r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0070-00-00be-multi-link-power-saving-operation.pptx) | Multi-link power saving operation | Yonggang Fang | Pending | ML-Power Save | MAC |
| [0081r1](https://mentor.ieee.org/802.11/dcn/20/11-20-0081-01-00be-mlo-synch-transmission.pptx) | MLO-Sync-TX | Matthew Fischer | Pending | ML-Sync TX/RX | MAC |
| [0082r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0082-00-00be-synchronous-transmitter-medium-state-information.pptx) | Synchronous-Transmitter-Medium-State-Information | Matthew Fischer | Pending | ML-Sync TX/RX | MAC |
| [0084r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0084-00-00be-multi-link-tim-design.pptx) | Multi-link TIM design | Minyoung Park | Pending | ML-Power Save | MAC |
| [0085r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0085-00-00be-multi-link-power-save-link-bitmap.pptx) | Multi-link power save - link bitmap | Minyoung Park | Pending | ML-Power Save | MAC |
| [0093r1](https://mentor.ieee.org/802.11/dcn/20/11-20-0093-01-00be-multi-link-for-low-latency.pptx) | Multi-link for Low Latency | Adrian Garcia-Rodriguez | Reschedule | ML-Operation | MAC |
| [0105r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0105-00-00be-link-latency-statistics-of-multi-band-operations-in-eht.pptx) | Link Latency Statistics of Multi-band Operations in EHT | Frank Hsu | Reschedule | ML-General | MAC |
| [0106r1](https://mentor.ieee.org/802.11/dcn/20/11-20-0106-01-00be-follow-up-on-performance-aspects-of-mlink-ops-with-constrains.pptx) | Follow up on performance aspects of multi link operations with constrains | Dmitry Akhmetov | Pending | ML-Sync TX/RX | MAC |
| [0114r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0114-00-00be-block-ack-window-extension.pptx) | Block Ack Window extension | Yongho Seok | Pending | MAC-Block Ack | MAC |
| [0119r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0119-00-00be-follow-up-discussion-on-multi-link-operations.pptx) | Follow Up Discussion on Multi-link Operations | Xiaofei Wang | Reschedule | ML-Operation | MAC |
| [0122r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0122-00-00be-a-bar-variant-for-multi-link-operation.pptx) | A BAR Variant For Multi-Link Operation | Chunyu Hu | Pending | ML-Block Ack | MAC |
| [0134r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0134-00-00be-multilink-channel-access-considering-str-capability.pptx) | Multilink channel access considering STR capability | Hanseul Hong | Pending | ML-Sync TX/RX | MAC |
| [0136r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0136-00-00be-virtual-carrier-sense-in-multi-link.pptx) | Virtual Carrier Sense in Multi-Link | Thomas Handte | Reschedule | ML-Med. Access | MAC |
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| [1579r2](https://mentor.ieee.org/802.11/dcn/19/11-19-1579-02-00be-adapting-the-11be-channel-model-to-modern-doppler-use-cases.pptx) | Adapting the 11be channel model to modern (Doppler) use cases | Shimi Shilo | Presented | Channel Model | PHY |
| [0065r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0065-00-00be-implicit-sounding-scheme.pptx) | Implicit sounding scheme | Lily Yunping Lyu | Presented | Sounding | PHY |
| [0072r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0072-00-00be-performance-and-evm-evaluation-on-4096-qam-in-11be.pptx) | Performance and EVM Evaluation on 4096-QAM in 11be | Jianhan Liu | Presented | 4K QAM | PHY |
| [0076r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0076-00-00be-simulation-results-of-4k-qam.pptx) | Simulation results of 4K QAM | Ron Porat | Presented | 4K QAM | PHY |
| [0089r1](https://mentor.ieee.org/802.11/dcn/20/11-20-0089-01-00be-multi-ap-implicit-channel-sounding.pptx) | Multi-AP Implicit Channel Sounding | Roya Doostnejad | Presented | MAP-Sounding | PHY |
| [0090r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0090-00-00be-implicit-feedback-feasibility-and-gains-update.pptx) | Implicit Feedback, Feasibility and Gains | Roya Doostnejad | Presented | Sounding | PHY |
| [0111r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0111-00-00be-4096-qam-definition.docx) | 4096 QAM definition | Sigurd Schelstraete | Presented | 4K QAM | PHY |
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## Teleconference Agendas

### 1st Conf. Call: January 30th (19:00–22:00 ET)–MAC

* Call the meeting to order
* IEEE 802 and 802.11 IPR policy and procedure
  + **Patent Policy: Ways to inform IEEE:**
    - Cause an LOA to be submitted to the IEEE-SA ([patcom@ieee.org](mailto:patcom@ieee.org)); or
    - Provide the chair of this group with the identity of the holder(s) of any and all such claims as soon as possible; or
    - Speak up now and respond to this Call for Potentially Essential Patents

If anyone in this meeting is personally aware of the holder of any patent claims that are potentially essential to implementation of the proposed standard(s) under consideration by this group and that are not already the subject of an Accepted Letter of Assurance, please respond at this time by providing relevant information to the WG Chair

* Attendance reminder.
  + Participation slide: <https://mentor.ieee.org/802-ec/dcn/16/ec-16-0180-05-00EC-ieee-802-participation-slide.pptx>
  + Please send an e-mail to Jeongki Kim ([jeongki.kim@lge.com](mailto:jeongki.kim@lge.com)) and Liwen Chu ([liwen.chu@nxp.com](mailto:liwen.chu@nxp.com))
* Announcements: None.
* Technical Submissions:
  + [~~1547r3~~](https://mentor.ieee.org/802.11/dcn/19/11-19-1547-03-00be-multi-link-operation-and-channel-access-discussion.pptx)~~–Multi link operation and channel access discussion (Kaiying Lu)~~
  + [2071r1](https://mentor.ieee.org/802.11/dcn/19/11-19-2071-01-00be-performance-evaluation-of-multi-link-channel-access-schemes.pptx)–Performance eval. of Multi-link chan. access schemes (Sindhu Verma)
  + [0014r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0014-00-00be-operation-of-non-ap-mld-with-constraints.pptx)–Operation of Non-AP MLD with Constraints (Insun Jang)
  + [~~0136r0~~](https://mentor.ieee.org/802.11/dcn/20/11-20-0136-00-00be-virtual-carrier-sense-in-multi-link.pptx)~~–Virtual Carrier Sense in Multi-Link (Thomas Handte)~~
  + [1927r0](https://mentor.ieee.org/802.11/dcn/19/11-19-1927-00-00be-multi-link-operation-simulation-methodology.pptx)–Multi link operation-simulation methodology (Yongho Seok)
  + [1928r0](https://mentor.ieee.org/802.11/dcn/19/11-19-1928-00-00be-multi-link-operation-performance-evaluation.pptx)–Multi link operation-performance evaluation (Yongho Seok)
  + [~~0069r0~~](https://mentor.ieee.org/802.11/dcn/20/11-20-0069-00-00be-multi-link-communication-mode-definition.pptx)~~–Multi link communication mode definition (Yonggang Fang)~~
  + [0105r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0105-00-00be-link-latency-statistics-of-multi-band-operations-in-eht.pptx)–Link Latency Statistics of Multi-band Operations in EHT (Frank Hsu)
  + [~~0093r1~~](https://mentor.ieee.org/802.11/dcn/20/11-20-0093-01-00be-multi-link-for-low-latency.pptx)~~–Multi-link for Low Latency (Adrian Garcia-Rodriguez)~~
  + [~~0119r0~~](https://mentor.ieee.org/802.11/dcn/20/11-20-0119-00-00be-follow-up-discussion-on-multi-link-operations.pptx)~~–Follow Up Discussion on Multi-link Operations (Xiaofei Wang)~~
  + [1918r0](https://mentor.ieee.org/802.11/dcn/19/11-19-1918-00-00be-ul-mu-efficiency-enhancement-using-multi-link.pptx)–UL MU effic. enhancement considering multi-link (Jeongki Kim)

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* + [1930r1](https://mentor.ieee.org/802.11/dcn/19/11-19-1930-01-00be-ap-assisted-multi-link-operation.pptx)–AP assisted Multi-link operation (Dibakar Das)
  + [1932r1](https://mentor.ieee.org/802.11/dcn/19/11-19-1932-01-00be-multi-link-policy-framework.pptx)–Multi-link policy framework (Cheng Chen)
  + [1943r2](https://mentor.ieee.org/802.11/dcn/19/11-19-1943-02-00be-multi-link-management.pptx)–Multi-link Management (Taewon Song)
  + [0028r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0028-00-00be-indication-of-multi-link-information.pptx)–Indication of Multi-link Information (Insun Jang)
* AoB: None.
* Adjourn

### 1st Conf. Call: January 30th (19:00–22:00 ET)–PHY

* Call the meeting to order
* IEEE 802 and 802.11 IPR policy and procedure
  + **Patent Policy: Ways to inform IEEE:**
    - Cause an LOA to be submitted to the IEEE-SA ([patcom@ieee.org](mailto:patcom@ieee.org)); or
    - Provide the chair of this group with the identity of the holder(s) of any and all such claims as soon as possible; or
    - Speak up now and respond to this Call for Potentially Essential Patents

If anyone in this meeting is personally aware of the holder of any patent claims that are potentially essential to implementation of the proposed standard(s) under consideration by this group and that are not already the subject of an Accepted Letter of Assurance, please respond at this time by providing relevant information to the WG Chair

* Attendance reminder.
  + Participation slide: <https://mentor.ieee.org/802-ec/dcn/16/ec-16-0180-05-00EC-ieee-802-participation-slide.pptx>
  + Please send an e-mail to Tianyu Wu ([tianyu@apple.com](mailto:tianyu@apple.com)) and Sigurd Schelstraete ([sschelstraete@quantenna.com](mailto:sschelstraete@quantenna.com))
* Announcements: None.
* Technical Submissions:
  + [1579r2](https://mentor.ieee.org/802.11/dcn/19/11-19-1579-02-00be-adapting-the-11be-channel-model-to-modern-doppler-use-cases.pptx)–Adapting 11be chan. mod. to modern (Doppler) use cases (Shimi Shilo)
  + [0065r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0065-00-00be-implicit-sounding-scheme.pptx)–Implicit sounding scheme (Lily Yunping Lyu)
  + [0090r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0090-00-00be-implicit-feedback-feasibility-and-gains-update.pptx)–Implicit Feedback, Feasibility and Gains (Roya Doostnejad)
  + [0089r1](https://mentor.ieee.org/802.11/dcn/20/11-20-0089-01-00be-multi-ap-implicit-channel-sounding.pptx)–Multi-AP Implicit Channel Sounding (Roya Doostnejad)
  + [0072r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0072-00-00be-performance-and-evm-evaluation-on-4096-qam-in-11be.pptx)–Perf. and EVM Evaluation on 4096-QAM in 11be (Jianhan Liu)
  + [0076r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0076-00-00be-simulation-results-of-4k-qam.pptx)–Simulation results of 4K QAM (Ron Porat)
  + [0111r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0111-00-00be-4096-qam-definition.docx)–4096 QAM definition (Sigurd Schelstraete)
* AoB: None.
* Adjourn

### 2nd Conf. Call: February 6th (10:00–12:00 ET)–JOINT

* Call the meeting to order
* IEEE 802 and 802.11 IPR policy and procedure
  + **Patent Policy: Ways to inform IEEE:**
    - Cause an LOA to be submitted to the IEEE-SA ([patcom@ieee.org](mailto:patcom@ieee.org)); or
    - Provide the chair of this group with the identity of the holder(s) of any and all such claims as soon as possible; or
    - Speak up now and respond to this Call for Potentially Essential Patents

If anyone in this meeting is personally aware of the holder of any patent claims that are potentially essential to implementation of the proposed standard(s) under consideration by this group and that are not already the subject of an Accepted Letter of Assurance, please respond at this time by providing relevant information to the WG Chair

* Attendance reminder.
  + Participation slide: <https://mentor.ieee.org/802-ec/dcn/16/ec-16-0180-05-00EC-ieee-802-participation-slide.pptx>
  + Please send an e-mail to Dennis Sundman ([dennis.sundman@ericsson.com](mailto:dennis.sundman@ericsson.com)) and Alfred Asterjadhi ([aasterja@qti.qualcomm.com](mailto:aasterja@qti.qualcomm.com))
* Announcements:
  + TGbe chair updated the group on the status of the corona virus outbreak. WG leadership is monitoring the situation very closely. No schedule changes for the March meetings, will keep posted if any changes occur. Members that cannot travel will be able to join the MAC ad-hoc meeting online (WebEx instructions to be sent in advance).
  + TGbe chair confirms that MAC ad-hoc meeting to be held in Intel’s Santa Clara offices with a proposed start time of 8:00am and end time of 5:00pm (PT). Received suggestions to start at 9:00am and end at 6:00pm which will be checked with hosts. If possible then updated schedule to be announced in subsequent e-mail.
* Technical Submissions:
  + [0035r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0035-00-00be-discussion-on-expansion-of-multi-link-aggregation-to-multi-ap.pptx)–Discussion on Expansion of Multi-Link Aggr. to Multi-AP (Yoshihisa Kondo)
  + [0068r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0068-00-00be-multi-link-and-multi-ap-reference-model-discussion.pptx)–Multi-link and multi-ap reference-model discussion (Yonggang Fang)
  + [0032r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0032-00-00be-consideration-on-multi-ap-home-mesh-scenario.pptx)–Consideration on Multi-AP Home Mesh Scenario (Kosuke Aio)
  + [0064r1](https://mentor.ieee.org/802.11/dcn/20/11-20-0064-01-00be-overview-of-multi-ap-operation-in-11be.pptx)–Overview of Multi-AP Operation in 11be (Chenhe Ji)
  + [0033r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0033-00-00be-coordinated-spatial-reuse-operation.pptx)–Coordinated spatial reuse operation (Jason Yuchen Guo)

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* + [0073r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0073-00-00be-on-coordinated-spatial-reuse-in-11be.pptx)–On Coordinated Spatial Reuse in 11be (Jianhan Liu)
  + [0091r1](https://mentor.ieee.org/802.11/dcn/20/11-20-0091-01-00be-performance-of-parameterized-spatial-reuse-psr-with-coordinated-beamforming-null-steering-for-802-11be.pptx)–Performance of parameterized spatial reuse (PSR) with coordinated beamforming/null steering (Adrian Garcia-Rodriguez)
  + [0107r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0107-00-00be-multi-ap-coordination-for-spatial-reuse.pptx)–Multi-AP coordination for spatial reuse (Dmitry Akhmetov)
* AoB: None.
* Adjourn

### 3rd Conf. Call: February 13th (19:00–22:00 ET)–JOINT

* Call the meeting to order
* IEEE 802 and 802.11 IPR policy and procedure
  + **Patent Policy: Ways to inform IEEE:**
    - Cause an LOA to be submitted to the IEEE-SA ([patcom@ieee.org](mailto:patcom@ieee.org)); or
    - Provide the chair of this group with the identity of the holder(s) of any and all such claims as soon as possible; or
    - Speak up now and respond to this Call for Potentially Essential Patents

If anyone in this meeting is personally aware of the holder of any patent claims that are potentially essential to implementation of the proposed standard(s) under consideration by this group and that are not already the subject of an Accepted Letter of Assurance, please respond at this time by providing relevant information to the WG Chair

* Attendance reminder.
  + Participation slide: <https://mentor.ieee.org/802-ec/dcn/16/ec-16-0180-05-00EC-ieee-802-participation-slide.pptx>
  + Please send an e-mail to Dennis Sundman ([dennis.sundman@ericsson.com](mailto:dennis.sundman@ericsson.com)) and Alfred Asterjadhi ([aasterja@qti.qualcomm.com](mailto:aasterja@qti.qualcomm.com))
* Announcements: TGbe chair announces that the MAC ad-hoc meeting in Santa Clara, CA, USA is confirmed and reminds members to check for any travel restrictions that may be in place due to COVID 19 outbreak. WebEx link will be available to join the meeting online.
* Technical Submissions:
  + [0073r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0073-00-00be-on-coordinated-spatial-reuse-in-11be.pptx)–On Coordinated Spatial Reuse in 11be (Jianhan Liu)
  + [~~0091r2~~](https://mentor.ieee.org/802.11/dcn/20/11-20-0091-02-00be-performance-of-parameterized-spatial-reuse-psr-with-coordinated-beamforming-null-steering-for-802-11be.pptx)~~–Performance of parameterized spatial reuse (PSR) with coordinated beamforming/null steering (Adrian Garcia-Rodriguez)~~
  + [0107r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0107-00-00be-multi-ap-coordination-for-spatial-reuse.pptx)–Multi-AP coordination for spatial reuse (Dmitry Akhmetov)
  + [0052r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0052-00-00be-multi-ap-sounding-discussion.pptx)–Multi-AP Sounding Discussion (Qichen Jia)
  + [0123r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0123-00-00be-channel-sounding-for-multi-ap-cbf.pptx)–Channel Sounding for Multi-AP CBF (Feng Jiang)
  + [~~0099r0~~](https://mentor.ieee.org/802.11/dcn/20/11-20-0099-00-00be-coordinated-beamforming-for-802-11be.pptx)~~–Multi-AP Coordinated BF in IEEE 802.11be (Roya Doostnejad)[E-SPoll]~~
  + [0071r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0071-00-00be-joint-transmission-for-11be.pptx)–Joint Transmission for 11be (Ron Porat)
  + [1923r1](https://mentor.ieee.org/802.11/dcn/19/11-19-1923-01-00be-revisiting-harq-complexity.pptx)–Revisiting HARQ Complexity (Shimi Shilo)

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* + [0101r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0101-00-00be-11be-harq-discussions.pptx)–11be HARQ Discussions (Li-Hsiang Sun)
  + [2120r0](https://mentor.ieee.org/802.11/dcn/19/11-19-2120-00-00be-link-adaptation-improvement.pptx)–Link Adaptation Improvement (Wook Bong Lee)
  + [0047r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0047-00-00be-feedback-enhancement.pptx)–Feedback Enhancement (Wook Bong Lee)
  + [0083r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0083-00-00be-impacts-of-mcs-set-expansion-on-11be-link-adaptation.pptx)–Impacts of MCS set expansion on 11be link adaptation (Yan Zhang)
* AoB: None.
* Adjourn

### 4th Conf. Call: February 20th (10:00–12:00 ET)–MAC

* Call the meeting to order
* IEEE 802 and 802.11 IPR policy and procedure
  + **Patent Policy: Ways to inform IEEE:**
    - Cause an LOA to be submitted to the IEEE-SA ([patcom@ieee.org](mailto:patcom@ieee.org)); or
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    - Speak up now and respond to this Call for Potentially Essential Patents

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* Attendance reminder.
  + Participation slide: <https://mentor.ieee.org/802-ec/dcn/16/ec-16-0180-05-00EC-ieee-802-participation-slide.pptx>
  + Please send an e-mail to Jeongki Kim ([jeongki.kim@lge.com](mailto:jeongki.kim@lge.com)) and Liwen Chu ([liwen.chu@nxp.com](mailto:liwen.chu@nxp.com))
* Announcements:
* Technical Submissions:
  + [0136r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0136-00-00be-virtual-carrier-sense-in-multi-link.pptx)–Virtual Carrier Sense in Multi-Link (Thomas Handte)
  + [0069r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0069-00-00be-multi-link-communication-mode-definition.pptx)–Multi link communication mode definition (Yonggang Fang)
  + [0105r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0105-00-00be-link-latency-statistics-of-multi-band-operations-in-eht.pptx)–Link Latency Statistics of Multi-band Operations in EHT (Frank Hsu)
  + [0093r2](https://mentor.ieee.org/802.11/dcn/20/11-20-0093-02-00be-multi-link-for-low-latency.pptx)–Multi-link for Low Latency (Adrian Garcia-Rodriguez)
  + [0119r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0119-00-00be-follow-up-discussion-on-multi-link-operations.pptx)–Follow Up Discussion on Multi-link Operations (Xiaofei Wang)
  + [1930r1](https://mentor.ieee.org/802.11/dcn/19/11-19-1930-02-00be-ap-assisted-multi-link-operation.pptx)–AP assisted Multi-link operation (Dibakar Das)
  + [1932r1](https://mentor.ieee.org/802.11/dcn/19/11-19-1932-01-00be-multi-link-policy-framework.pptx)–Multi-link policy framework (Cheng Chen)
  + [1943r2](https://mentor.ieee.org/802.11/dcn/19/11-19-1943-02-00be-multi-link-management.pptx)–Multi-link Management (Taewon Song)
  + [0028r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0028-00-00be-indication-of-multi-link-information.pptx)–Indication of Multi-link Information (Insun Jang)
  + [0030r2](https://mentor.ieee.org/802.11/dcn/20/11-20-0030-02-00be-multi-link-association-follow-up.pptx)–Multi-link Association Follow Up (Guogang Huang)
* AoB:
* Adjourn

### 4th Conf. Call: February 20th (10:00–12:00 ET)–PHY

* Call the meeting to order
* IEEE 802 and 802.11 IPR policy and procedure
  + **Patent Policy: Ways to inform IEEE:**
    - Cause an LOA to be submitted to the IEEE-SA ([patcom@ieee.org](mailto:patcom@ieee.org)); or
    - Provide the chair of this group with the identity of the holder(s) of any and all such claims as soon as possible; or
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* Attendance reminder.
  + Participation slide: <https://mentor.ieee.org/802-ec/dcn/16/ec-16-0180-05-00EC-ieee-802-participation-slide.pptx>
  + Please send an e-mail to Tianyu Wu ([tianyu@apple.com](mailto:tianyu@apple.com)) and Sigurd Schelstraete ([sschelstraete@quantenna.com](mailto:sschelstraete@quantenna.com))
* Announcements:
* Technical Submissions: (all submissions in back-logged queue were presented)
  + Call for new submissions.
* AoB:
* Adjourn

### 5th Conf. Call: February 27th (19:00–22:00 ET)–JOINT

* Call the meeting to order
* IEEE 802 and 802.11 IPR policy and procedure
  + **Patent Policy: Ways to inform IEEE:**
    - Cause an LOA to be submitted to the IEEE-SA ([patcom@ieee.org](mailto:patcom@ieee.org)); or
    - Provide the chair of this group with the identity of the holder(s) of any and all such claims as soon as possible; or
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* Attendance reminder.
  + Participation slide: <https://mentor.ieee.org/802-ec/dcn/16/ec-16-0180-05-00EC-ieee-802-participation-slide.pptx>
  + Please send an e-mail to Dennis Sundman ([dennis.sundman@ericsson.com](mailto:dennis.sundman@ericsson.com)) and Alfred Asterjadhi ([aasterja@qti.qualcomm.com](mailto:aasterja@qti.qualcomm.com))
* Announcements:
* Technical Submissions:
  + [0091r2](https://mentor.ieee.org/802.11/dcn/20/11-20-0091-02-00be-performance-of-parameterized-spatial-reuse-psr-with-coordinated-beamforming-null-steering-for-802-11be.pptx)–Performance of parameterized spatial reuse (PSR) with coordinated beamforming/null steering (Adrian Garcia-Rodriguez)
  + [0099r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0099-00-00be-coordinated-beamforming-for-802-11be.pptx)–Multi-AP Coordinated BF in IEEE 802.11be (Roya Doostnejad)
  + [0101r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0101-00-00be-11be-harq-discussions.pptx)–11be HARQ Discussions (Li-Hsiang Sun)
  + [2120r0](https://mentor.ieee.org/802.11/dcn/19/11-19-2120-00-00be-link-adaptation-improvement.pptx)–Link Adaptation Improvement (Wook Bong Lee)
  + [0047r1](https://mentor.ieee.org/802.11/dcn/20/11-20-0047-01-00be-feedback-enhancement.pptx)–Feedback Enhancement (Wook Bong Lee)
  + [0083r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0083-00-00be-impacts-of-mcs-set-expansion-on-11be-link-adaptation.pptx)–Impacts of MCS set expansion on 11be link adaptation (Yan Zhang)
  + [0086r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0086-00-00be-opportunistic-implicit-channel-sounding.pptx)-Opportunistic Implicit Channel Sounding (Roya Doostnejad)
* AoB:
* Adjourn

### 6th Conf. Call: March 5th (10:00–12:00 ET)–MAC

* Call the meeting to order
* IEEE 802 and 802.11 IPR policy and procedure
  + **Patent Policy: Ways to inform IEEE:**
    - Cause an LOA to be submitted to the IEEE-SA ([patcom@ieee.org](mailto:patcom@ieee.org)); or
    - Provide the chair of this group with the identity of the holder(s) of any and all such claims as soon as possible; or
    - Speak up now and respond to this Call for Potentially Essential Patents

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* Attendance reminder.
  + Participation slide: <https://mentor.ieee.org/802-ec/dcn/16/ec-16-0180-05-00EC-ieee-802-participation-slide.pptx>
  + Please send an e-mail to Jeongki Kim ([jeongki.kim@lge.com](mailto:jeongki.kim@lge.com)) and Liwen Chu ([liwen.chu@nxp.com](mailto:liwen.chu@nxp.com))
* Announcements:
* Technical Submissions:
* AoB:
* Adjourn

### 6th Conf. Call: March 5th (10:00–12:00 ET)–PHY

* Call the meeting to order
* IEEE 802 and 802.11 IPR policy and procedure
  + **Patent Policy: Ways to inform IEEE:**
    - Cause an LOA to be submitted to the IEEE-SA ([patcom@ieee.org](mailto:patcom@ieee.org)); or
    - Provide the chair of this group with the identity of the holder(s) of any and all such claims as soon as possible; or
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* Attendance reminder.
  + Participation slide: <https://mentor.ieee.org/802-ec/dcn/16/ec-16-0180-05-00EC-ieee-802-participation-slide.pptx>
  + Please send an e-mail to Tianyu Wu ([tianyu@apple.com](mailto:tianyu@apple.com)) and Sigurd Schelstraete ([sschelstraete@quantenna.com](mailto:sschelstraete@quantenna.com))
* Announcements:
* Technical Submissions:
* AoB:
* Adjourn

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## Teleconference Policies and Procedures

Teleconferences are subject to applicable policies and procedures, see below.

•       IEEE Code of Ethics

–       <https://www.ieee.org/about/corporate/governance/p7-8.html>

•       IEEE Standards Association (IEEE-SA) Affiliation FAQ

–       <https://standards.ieee.org/faqs/affiliation.html>

•       Antitrust and Competition Policy

–       <https://standards.ieee.org/content/dam/ieee-standards/standards/web/documents/other/antitrust.pdf>

•       IEEE-SA Patent Policy

–       <http://standards.ieee.org/develop/policies/bylaws/sect6-7.html>

–       <https://standards.ieee.org/about/sasb/patcom/>

 •       IEEE 802 Working Group Policies &Procedures (29 Jul 2016)

–       <http://www.ieee802.org/PNP/approved/IEEE_802_WG_PandP_v19.pdf>

•       IEEE 802 LMSC Chair's Guidelines (Approved 13 Jul 2018)

–       <https://mentor.ieee.org/802-ec/dcn/17/ec-17-0120-27-0PNP-ieee-802-lmsc-chairs-guidelines.pdf>

•       Participation in IEEE 802 Meetings

–       <https://mentor.ieee.org/802-ec/dcn/16/ec-16-0180-05-00EC-ieee-802-participation-slide.pptx>

•       IEEE 802.11 WG OM: (Approved 10 Nov 2017)

–       <https://mentor.ieee.org/802.11/dcn/14/11-14-0629-22-0000-802-11-operations-manual.docx>

## Guideline-Running StrawPolls

1. Use ePoll system; Finalize SP wording.
   * Approve (YES)/Disapprove (NO)/Abstain are the only options
2. Link to poll will be put in chat window at time of SP
3. Members on call indicate their preference
4. Poll closed after 2 minute window (or so)
5. Must have internet access and be on the call to participate
6. Results reported

Note: This is the first time that such a system is being used for this purpose and as such we will learn/adjust as we go.

## References: