IEEE P802.11
Wireless LANs

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| TGbe 2020 March to May teleconference agendas |
| Date: 2020-03-10 |
| Author(s): |
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Abstract

This document contains the draft agenda for March to May 2020 TGbe teleconferences.

Revisions:

* Rev 0: Initial version of the document.
* Rev 1: Contains suggestions received after the agenda was posted. Fixed some ordering issues with DCNs with 4 digits. Updated the dial-in instructions for PHY to use WebEx as well.
* Rev 2: Some more requests added to the lists.
* Rev 3: Added submissions to the agenda for second and third conf calls. Added received requests. And TG leadership information as per suggestion. E-mails for sending attendance e.t.c., can be found in each conf call agenda.
* Rev 4: Added a submission in the deferred SPs list. Updated some links.
* Rev 5: Added additional requests, updated today’s agenda for MAC call and updated SP guidelines with additional information.
* Rev 6: Stable version for 2nd conf call.
* Rev 7: Updated MAC and PHY sessions from second conf call.
* Rev 8: Updated submissions lists and agendas after third conf call and based on feedback received from PHY ad-hoc chairs.
* Rev 9: Incorporated a topic move from one contribution and added AI for MAC ad-hoc chair to organize submissions on ML-Constrained Ops on a similarity basis. Moved some contributions around as per suggestions received via e-mail.
* Rev 10: Updated with progress from 4th conf call and includes submissions list to agenda for fifth conf call. Also added additional requests/mods received from members.
* Rev 11: Fixes and additions as per requrests (those that are received as new requests, after the call for submissions deadline are placed in the row below the one in yellow).
* Rev 12: Added imat information for members to record attendance for each conf call. Added teleconference plan for May to July and an additional 5 MAC conf calls (replaces MAC ad-hoc time reduction and accounts for number of pending MAC submissions). Announcement will be sent out to reflector in the next couple of days.
* Rev 13: Updated with progress from 5th conf call and included submissions list to agenda for sixth conf call.
* Rev 14: Updated with progress from 6th conf call and updated lists based on received requests.
* Rev 15: Updated with announcement for Joint call and added received submission request.
* Rev 16: Updated with progress from 7th conf call and updated lists based on received requests.
* Rev 17: Updated with new received requests (note that submissions received after the end of the call for submissions are being placed in a separate row, bordered by yellow row).

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| **TG Chair:** Alfred Asterjadhi (Qualcomm Inc) |
| **1st Vice Chair:** Laurent Cariou (Intel) | **2nd Vice Chair:** Matthew Fischer (Broadcom) |
| **Secretary:** Dennis Sundman (Ericsson) | **Technical Editor:** Edward Au (Huawei) |
| **PHY Ad-Hoc Chair:**Sigurd Schelstraete (Quantenna)**PHY Ad-Hoc Chair:**Tianyu Wu (Apple) | **MAC Ad-Hoc Chair:**Jeongki Kim (LGE)**MAC Ad-Hoc Chair:**Liwen Chu (NXP) |

## Teleconferences Overview

TGbe will hold 17 teleconferences before the May 2020 F2F for discussing technical presentations:

* **March 16 (Monday) – MAC/PHY 19:00-22:00 ET**
* **March 18 (Wednesday) – MAC/PHY 19:00-22:00 ET**
* **March 19 (Thursday) – Joint 10:00-13:00 ET**
* **March 23 (Monday) – MAC/PHY 10:00-13:00 ET**
* **March 26 (Thursday) – MAC/PHY 19:00-22:00 ET**
* **March 30 (Monday) – MAC/PHY 19:00-22:00 ET**
* **April 2 (Thursday) – Joint 10:00-13:00 ET**
* **April 6 (Monday) – MAC/PHY 10:00-13:00 ET**
* **April 9 (Thursday) – MAC/PHY 19:00-22:00 ET**
* **April 10 (Friday) – MAC 10:00-13:00 ET**
* **April 13 (Monday) – MAC/PHY 19:00-22:00 ET**
* **April 16 (Thursday) – Joint 10:00-13:00 ET**
* **April 17 (Friday) – MAC 10:00-13:00 ET**
* **April 20 (Monday) – MAC/PHY 10:00-13:00 ET**
* **April 23 (Thursday) – MAC/PHY 19:00-22:00 ET**
* **April 24 (Friday) – MAC 10:00-13:00 ET**
* **April 27 (Monday) – MAC/PHY 19:00-22:00 ET**
* **April 30 (Thursday) – Joint 10:00-13:00 ET**
* **May 1 (Friday) – MAC 10:00-13:00 ET**
* **May 4 (Monday) – MAC/PHY 10:00-13:00 ET**
* **May 7 (Thursday) – MAC/PHY 19:00-22:00 ET**
* **May 8 (Friday) – MAC 10:00-13:00 ET**

## Teleconferences Plan for May to July

* **May 11 (Monday) – MAC/PHY 19:00-22:00 ET**
* **May 14 (Thursday) – Joint 10:00-13:00 ET**
* **May 18 (Monday) – MAC/PHY 10:00-13:00 ET**
* **May 21 (Thursday) – MAC/PHY 19:00-22:00 ET**
* **May 25 (Monday) – MAC/PHY 19:00-22:00 ET**
* **May 28 (Thursday) – Joint 10:00-13:00 ET**
* **June 1 (Monday) – MAC/PHY 10:00-13:00 ET**
* **June 4 (Thursday) – MAC/PHY 19:00-22:00 ET**
* **June 8 (Monday) – MAC/PHY 19:00-22:00 ET**
* **June 11 (Thursday) – Joint 10:00-13:00 ET**
* **June 15 (Monday) – MAC/PHY 10:00-13:00 ET**
* **June 18 (Thursday) – MAC/PHY 19:00-22:00 ET**
* **June 22 (Monday) – MAC/PHY 19:00-22:00 ET**
* **June 25 (Thursday) – Joint 10:00-13:00 ET**
* **June 29 (Monday) – MAC/PHY 10:00-13:00 ET**
* **July 2 (Thursday) – MAC/PHY 19:00-22:00 ET**
* **July 6 (Monday) – MAC/PHY 19:00-22:00 ET**
* **July 9 (Thursday) – Joint 10:00-13:00 ET**

**We’ll use the following bridges:**

* Bridge for **JOINT and MAC: Webex meeting (802 Seat 3):** See *e-mail sent to reflector*
	+ Meeting number: *Please refer to e-mail sent to reflector.*
	+ Meeting password: wireless
* Bridge for **PHY:** **Webex meeting (802 Seat 4):** See *e-mail sent to reflector.*
	+ Meeting number: *Please refer to e-mail sent to reflector.*
	+ Meeting password: wireless

## Back-Logged Technical Presentations’ List

* 33 submissions in the queue.

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| **DCN** | **Title** | **Author** | **Status** | **Topic** | **Session** |
| [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 | Presented | 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 |
| 1920r0 | Power Save for Multi-link | Ming Gan | Pending | ML-Power Save | 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 | Presented | 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 | Presented | ML-Constrained ops. | 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 | Presented | ML-Constrained ops. | 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 |
| [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 | Presented | 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 | Presented | 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 |
| [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~~ | ~~Duplicate~~ | ~~ML-Constrained ops.~~ | ~~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 |
| [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 | Presented | 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-Block Ack | MAC |
| [0061r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0061-00-00be-ba-consideration.pptx) | BA Consideration | Liwen Chu | Pending | MAC-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 | Presented | 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 | Presented | 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 |
| [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 | Presented | ML-Constrained ops. | 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 | Presented | ML-Constrained ops. | 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 |
| [0106r](https://mentor.ieee.org/802.11/dcn/20/11-20-0106-03-00be-follow-up-on-performance-aspects-of-mlink-ops-with-constrains.pptx)3 | Follow up on performance aspects of multi link operations with constrains | Dmitry Akhmetov | Presented | ML-Constrained ops. | 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 |
| [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 | Presented | ML-Constrained ops. | MAC |
| [0408r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0408-00-00be-prioritized-edca-channel-access-over-latency-sensitive-links-in-mlo.pptx) | Prioritized EDCA Channel Access Over Latency Sensitive Links in MLO | Chunyu Hu | Pending | ML-Med Access | MAC |
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## Deferred SPs List

* 21 submissions in the queue.

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| **DCN** | **Title** | **Author** | **Status** | **Topic** | **Session** |
| [1582r2](https://mentor.ieee.org/802.11/dcn/19/11-19-1582-02-00be-coordinated-ap-time-and-frequency-sharing-in-a-transmit-opportunity-in-11be.pptx) | coordinated-ap-time-and-frequency-sharing | George Cherian | Done | MAP-Operation | Joint |
| [1961r3](https://mentor.ieee.org/802.11/dcn/19/11-19-1961-03-00be-multi-ap-group-establishment.pptx) | Multi-ap-group-establishment | Yonggang Fang | Done | MAP-General | Joint |
| [033r1](https://mentor.ieee.org/802.11/dcn/20/11-20-0033-01-00be-coordinated-spatial-reuse-operation.pptx) | Coordinated-spatial-reuse-operation | Jason Yuchen Guo | Done | MAP-SR | Joint |
| [056r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0056-00-00be-preparations-for-coordinated-ofdma.pptx) | Preparations for coordinated OFDMA | Rojan Chitrakar | Done | MAP-OFDMA | Joint |
| [071r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0071-00-00be-joint-transmission-for-11be.pptx) | Joint Transmission | Ron Porat | Done | MAP-JT | Joint |
| [073r0](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 | Covered by 33r1 | MAP-SR | Joint |
| [099r0](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 | Pending (1 SP) | MAP-CBF | Joint |
| [123r0](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 | Pending (3 SPs) | 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 | Pending (2 SPs) | ML-Med Access | MAC |
| [1822r4](https://mentor.ieee.org/802.11/dcn/19/11-19-1822-04-00be-multi-link-security-consideration.pptx) | Multi-link security consideration | Po-Kai Huang | Done (1 SP) | ML-Security | MAC |
| [1930r3](https://mentor.ieee.org/802.11/dcn/19/11-19-1930-03-00be-ap-assisted-multi-link-operation.pptx) | AP-assisted ML operation | Dibakar Das | Pending (1 SP) | ML-Operation | MAC |
| [1943r4](https://mentor.ieee.org/802.11/dcn/19/11-19-1943-03-00be-multi-link-management.pptx) | Multi-link Management | Taewon Song | Pending (2 SPs) | ML-Mgmt. | 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 (2 SPs) | ML-Mgmt. | MAC |
| [0030r4](https://mentor.ieee.org/802.11/dcn/20/11-20-0030-04-00be-multi-link-association-follow-up.pptx) | Multi-link Association Follow UP | Guogang Huang | Pending (2 SPs) | ML-Mgmt. | MAC |
| [069r2](https://mentor.ieee.org/802.11/dcn/20/11-20-0069-02-00be-multi-link-communication-mode-definition.pptx) | Multi-link communication mode definition | Yonggang Fang | Pending (2 SPs) | ML-General | MAC |
| [119r0](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 Operation | Xiaofei Wang | Pending (2 SPs) | ML-Operation | MAC |
| [0136r1](https://mentor.ieee.org/802.11/dcn/20/11-20-0136-01-00be-virtual-carrier-sense-in-multi-link.pptx) | Virtual Carrier Sense in Multi-Link | Thomas Handte | Pending (1 SP) | ML-Med. Access | MAC |
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| [1495r2](https://mentor.ieee.org/802.11/dcn/19/11-19-1495-02-00be-further-discussion-on-feedback-overhead-reduction.pptx) | Further Discussion on Feedback Overhead Reduction | Wook Bong Lee | Pending (2 SPs) | MIMO Feedback | PHY |
| [019r2](https://mentor.ieee.org/802.11/dcn/20/11-20-0019-02-00be-11be-ppdu-format.pptx) | 11be PPDU format | Dongguk Lim | Pending (3 SPs) | PPDU format | PHY |
| [020r1](https://mentor.ieee.org/802.11/dcn/20/11-20-0020-01-00be-consideration-for-eht-sig-transmission.pptx) | Consideration for EHT-SIG transmission | Dongguk Lim | Pending (3 SPs) | SIG | PHY |
| [065r1](https://mentor.ieee.org/802.11/dcn/20/11-20-0065-01-00be-implicit-sounding-scheme.pptx) | Implicit Sounding Scheme | Lily Yunping Lyu | Pending (2 SPs) | Sounding | PHY |
| New Deferred SP requests received after the call for submissions phase. |
| [105r3](https://mentor.ieee.org/802.11/dcn/20/11-20-0105-03-00be-link-latency-statistics-of-multi-band-operations-in-eht.pptx) | Link Latency Statistics of Multi-band Operations in EHT | Frank Hsu | Pending (2 SPs) | ML-General | MAC |

## New Technical Presentations’ List

* 94 submissions in the queue.

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| **DCN** | **Title** | **Author** | **Status** | **Topic** | **Session** |
| [005r1](https://mentor.ieee.org/802.11/dcn/20/11-20-0005-01-00be-proposals-on-latency-reduction.pptx) | Proposals on Latency Reduction | Shubhodeep Adhikari | Pending | Low Lat | Joint |
| [277r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0277-00-00be-coordinated-ofdma-protocol.pptx) | Shared TXOP Operation | Sharan Naribole | Presented | MAP-General | Joint |
| [410r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0410-00-00be-coordinated-spatial-reuse-procedure.pptx) | Coordinated Spatial Reuse Procedure | Sungjin Park | Pending | MAP-SR | Joint |
| [413r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0413-00-00be-discussion-on-eht-trigger-based-ul-mu.pptx) | Discussion on EHT Trigger based UL MU | Insun Jang | Pending | Multi-RU | Joint |
| [416r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0416-00-00be-mru-signaling-in-trigger-frame.pptx) | Mru-signaling-in-trigger-frame | Ross Jian Yu | Pending | Multi-RU | Joint |
| [424r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0424-00-00be-coordinated-ap-spatial-sharing-in-a-txop.pptx) | Coordinated AP Spatial Sharing in a TXOP | Dennis Sundman | Pending | MAP-SR | Joint |
| [457r1](https://mentor.ieee.org/802.11/dcn/20/11-20-0457-01-00be-discussion-on-coordinated-spatial-reuse-operation.pptx) | Discussion on Coordinated Spatial Reuse Operation | Kosuke Aio | Pending | MAP-SR | Joint |
| [466r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0466-00-00be-harq-feedback.pptx) | HARQ feedback | Li-Hsiang Sun | Pending | HARQ | Joint |
| [475r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0475-00-00be-coordinated-txop-sharing-in-ul.pptx) | Coordinated TXOP Sharing in UL | Miguel Lopez | Presented | MAP-General | Joint |
| [481r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0481-00-00be-impact-of-harq-on-latency-system-level-simulation-analysis.pptx) | Impact of HARQ on Latency-System Level Simulation Analysis | Shimi Shilo | Pending | HARQ | Joint |
| [482r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0482-00-00be-discussion-on-harq-unit.pptx) | Discussion on HARQ Unit | Shimi Shilo | Pending | HARQ | Joint |
| [502r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0502-00-00be-multi-ap-sounding-discussion-follow-up.pptx) | Multi-ap-sounding-discussion-follow-up | Qichen Jia | Pending | MAP-Sounding | Joint |
| New Joint requests received after the call for submissions phase. |
| 0548r0 | Discussion On Coordinated UL MU-MIMO | Genadiy Tsodik | Pending | MAP-MU MIMO | Joint |
| [560r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0560-00-00be-multi-ap-configuration-and-resource-allocation.pptx) | Multi-AP Configuration and Resource Allocation | Po-Kai Huang | Pending | MAP-General | Joint |
| 574r0 | C-TDMA definition | Laurent Cariou | Pending | MAP-TDMA | Joint |
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| [1959r0](https://mentor.ieee.org/802.11/dcn/19/11-19-1959-00-00be-constrained-multi-link-operation.pptx) | Constrained Multi-Link Operation | Yongho Seok | Presented | ML-Constrained ops. | MAC |
| [0026r1](https://mentor.ieee.org/802.11/dcn/20/11-20-0026-01-00be-mlo-sync-ppdus.pptx) | MLO: Sync PPDUs | Duncan Ho | Presented | ML-Constrained ops. | MAC |
| [0095r1](https://mentor.ieee.org/802.11/dcn/20/11-20-0095-01-00be-triggered-p2p-transmissions.pptx) | Triggered p2p transmissions | Stephane Baron | Presented | Medium Access | MAC |
| [115r3](https://mentor.ieee.org/802.11/dcn/20/11-20-0115-03-00be-multi-link-feature-candidates-for-r1.pptx) | Multilink Feature Candidates For Release 1 | Huizhao Wang | Pending | ML-General | MAC |
| [188r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0188-00-00be-multi-link-triggered-uplink-access.pptx) | Multi-link Triggered Uplink Access | Yongho Seok | Presented | ML-Constrained ops. | MAC |
| [226r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0226-00-00be-mlo-constraint-indication-and-operating-mode.pptx) | MLO Constraint Indication and Operating Mode | Sharan Naribole | Presented | ML-Constrained ops. | MAC |
| [275r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0275-00-00be-need-for-sync-ppdu.pptx) | Need for Sync PPDUs | Abhishek Patil | Pending | ML-Constrained ops. | MAC |
| [289r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0289-00-00be-on-multi-link-power-save-and-link-management.pptx) | On multi-link power save and link management | Sindhu Verma | Pending | ML-Power Save | MAC |
| [291r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0291-00-00be-mlo-async-and-sync-operation-discussion.pptx) | MLO Async. and Sync. Operation Discussion | Zhou Lan | Pending | ML-Constrained ops. | MAC |
| [292r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0292-00-00be-mlo-typical-operating-scenarios-and-sub-feature-prioritization.pptx) | MLO Typical Operating Scenarios and Sub-feature prioritization | Zhou Lan | Pending | ML-General | MAC |
| [314r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0314-00-00be-mlo-bss-color.pptx) | MLO: BSS Color | Abhishek Patil | Pending | ML-Operation | MAC |
| [329r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0329-00-00be-group-addressed-frame-transmission-in-constrained-multi-link-operation.pptx) | Group addressed frame transmission in constrained multi-link operation | Yongho Seok | Pending | ML-Constrained ops. | MAC |
| [337r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0337-00-00be-multi-link-bss-parameter-update.pptx) | Multi-link BSS Parameter Update | Yongho Seok | Pending | ML-Mgmt. | MAC |
| [356r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0356-00-00be-mlo-discovery-and-beacon-bloating.pptx) | MLO: Discovery and beacon-bloating | Abhishek Patil | Pending | ML-Mgmt. | MAC |
| [358r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0358-00-00be-multi-bssid-operation-with-mlo.pptx) | Multi-BSSID Operation with MLO | Abhishek Patil | Pending | ML-Operation | MAC |
| [362r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0362-00-00be-proposals-on-ampdu-ba-mechanisms.pptx) | Proposals on AMPDU-BA mechanisms | Sindhu Verma | Pending | MAC-BlockAck | MAC |
| [363r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0363-00-00be-proposals-on-unused-bandwidth-utilizations.pptx) | Proposals on unused bandwidth utilizations | Sindhu Verma | Re-Schedule | General | MAC |
| [370r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0370-00-00be-multi-link-power-save-discussion.pptx) | Multi-link Power Save Discussion | Sharan Naribole | Pending | ML-Power Save | MAC |
| [384r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0384-00-00be-320-mhz-bss-configuration.pptx) | 320 MHz BSS Configuration | Po-Kai Huang | Presented | General | MAC |
| [386r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0386-00-00be-multi-link-association-follow-up.pptx) | Multi link association follow up | Young Hoon Kwon | Pending | ML-Mgmt. | MAC |
| [387r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0387-00-00be-multi-link-setup-follow-up-ii.pptx) | Multi-link setup follow up II | Po-Kai Huang | Pending | ML-Mgmt. | MAC |
| [389r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0389-00-00be-multi-link-discovery-part-1.pptx) | Multi-link Discovery part 1 | Laurent Cariou | Pending | ML-Mgmt. | MAC |
| [390r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0390-00-00be-multi-link-discovery-part-2.pptx) | Multi-link Discovery part 2 | Laurent Cariou | Pending | ML-Mgmt. | MAC |
| [391r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0391-00-00be-multi-link-power-save-state-after-enablement.pptx) | Power save state after enablement | Laurent Cariou | Pending | ML-Power Save | MAC |
| [392r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0392-00-00be-mld-max-bss-idle-period.pptx) | MLD Max Idle period | Laurent Cariou | Pending | ML-Mgmt. | MAC |
| 393r0 | BSS parameters update for multi-link | Laurent Cariou | Pending | ML-Mgmt. | MAC |
| [395r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0395-00-00be-multi-link-beaconing-capability-operation-parameter.pptx) | Beaconing, capability, operation parameter | Liwen Chu | Pending | ML-Mgmt. | MAC |
| [396r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0396-00-00be-mlo-bss-information-transmission-and-multiple-bssid-support.pptx) | MLO BSS Information Transmission and Multiple BSSID Support | Liwen Chu | Pending | ML-Mgmt. | MAC |
| [397r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0397-00-00be-sequence-number-and-ba-operation-with-large-ba-buffer-size.pptx) | Sequence number and BA operation with large BA buffer size | Liwen Chu | Pending | MAC-BlockAck | MAC |
| [398r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0398-00-00be-eht-bss-with-wider-bandwidth.pptx) | EHT BSS with wider bandwidth | Liwen Chu | Presented | General | MAC |
| [399r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0399-00-00be-bw-negotiation-protection-with-more-than-160mhz-ppdu-and-puncture-operation.pptx) | BW negotiation, protection with more than 160MHz PPDU and puncture operation | Liwen Chu | Deferred | MAC-Protection | MAC |
| [411r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0411-00-00be-mlo-information-exchange-for-link-switching.pptx) | MLO: Link Switching Method | Namyeong Kim | Pending | ML-Mgmt. | MAC |
| 412r0 | MLO: Information Exchange for Link Switching | Namyeong Kim | Pending | ML-Mgmt. | MAC |
| [414r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0414-00-00be-method-for-handling-constrained-mld.pptx) | Method for Handling Constrained MLD | Insun Jang | Pending | ML-Constrained ops. | MAC |
| [415r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0415-00-00be-multi-link-aggregation-synchronized-ppdus-on-multiple-links.pptx) | Multi-link Aggregation: Synchronized PPDUs on Multiple Links | Insun Jang | Pending | ML-Constrained ops. | MAC |
| [418r1](https://mentor.ieee.org/802.11/dcn/20/11-20-0418-01-00be-low-latency-service-in-802-11be.pptx) | Low latency service in 802.11be | Dave Cavalcanti | Pending | Low Lat | MAC |
| [426r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0426-00-00be-multi-link-tsf-discussion.pptx) | Multi-Link TSF Discussion | Minyoung Park | Pending | ML-Mgmt. | MAC |
| [430r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0430-00-00be-rts-cts-for-multi-link.pptx) | RTS/CTS for multi-link | Taewon Song | Pending | ML-Operation | MAC |
| [432r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0432-00-00be-bug-fix-for-acknowledgement-rule-in-multi-link.pptx) | Bug fix for Acknowledgement rule in multi-link | Yunbo Li | Pending | ML-Ack procedure | MAC |
| [433r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0433-00-00be-ppdu-alignment-in-str-constrained-multi-link.pptx) | PPDU alignment in STR constrained multi-link | Yunbo Li | Pending | ML-Constrained ops. | MAC |
| [434r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0434-00-00be-multi-link-secured-retransmissions.pptx) | Multi-link Secured Retransmissions | Rojan Chitrakar | Pending | ML-General | MAC |
| [441r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0441-00-00be-mla-ba-format.pptx) | MLA: BA Format | Duncan Ho | Pending | ML-BlockAck | MAC |
| 442r0 | MLA: Group addressed frames delivery | Duncan Ho | Pending | ML-Operation | MAC |
| [443r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0443-00-00be-mla-ssid-handling.pptx) | MLA: SSID Handling | Duncan Ho | Pending | ML-Mgmt. | MAC |
| [444r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0444-00-00be-mla-non-str-sta-edca-rules-after-self-interference.pptx) | MLA: Non-STR STA EDCA rules after self-interference | Duncan Ho | Pending | ML-Constrained ops. | MAC |
| 448r0 | Multi-Link-BA-Bitmap-Parsing-Rule | Jason Yuchen Guo | Pending | ML-BlockAck | MAC |
| [455r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0455-00-00be-async-mlo-with-non-str-sta.pptx) | Async multi-link operation for non-STR STA | Dmitry Akhmetov | Pending | ML-Constrained ops. | MAC |
| [460r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0460-00-00be-multi-link-ba-clarification.pptx) | Multi-link BA Clarification | Yongho Seok | Pending | ML-BlockAck | MAC |
| 462r0 | 11be BA Indication | Po-Kai Huang | Pending | MAC-BlockAck | MAC |
| [463r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0463-00-00be-priority-access-support-options-for-ns-ep-serveices.pptx) | Priority Access Support Options for NS/EP Services | Subir Das | Pending | Priority Services | MAC |
| [468r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0468-00-00be-channel-access-category.pptx) | Access-category | Yonggang Fang | Pending | General | MAC |
| [469r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0469-00-00be-multi-link-channel-sensing.pptx) | Multi-link channel sensing | Yonggang Fang | Pending | ML-Med Access | MAC |
| [472r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0472-00-00be-discussion-of-more-data-subfield-for-multi-link.pptx) | Discussion of More Data subfield for multi-link | Yunbo Li | Pending | ML-General | MAC |
| [484r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0484-00-00be-latency-measurement-for-low-latency-applications.pptx) | Latency Measurement for Low Latency Applications | Liuming Lu | Pending | Low Lat | MAC |
| [487r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0487-00-00be-multiple-link-operation-follow-up.pptx) | Multiple link operation follow up | Liwen Chu | Pending | ML-Constrained ops. | MAC |
| 488r0 | Multi-link group addressed data delivery | Po-Kai Huang | Pending | ML-Operation | MAC |
| 489r0 | Applied Case Study of Multi-link Framework and Operation | Yoshihisa Kondo | Pending | ML-Operation | MAC |
| [490r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0490-00-00be-multi-link-hidden-terminal.pptx) | Impact\_of\_channel\_blindness\_ML\_txrx | Dibakar Das | Pending | ML-Constrained ops. | MAC |
| 429r0 | Discussion on Partial Bandwidth Transmission Opportunities | Kaiying Lu | Pending | Medium Access | MAC |
| New MAC requests received after the call for submissions phase. |
| [151r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0151-00-00be-target-sta-announcement-in-dl-txop-for-synchronous-mode-stas-of-mlo.pptx) | Target STA Announcement in DL TXOP for Synchronous Mode STAs of MLO | Frank Hsu | Pending | ML-Constrained ops. | MAC |
| [280r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0280-00-00be-link-enablement-considerations.pptx) | Link Enablement Considerations | Frank Hsu | Pending | ML-Mgmt. | MAC |
| [292r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0292-00-00be-mlo-typical-operating-scenarios-and-sub-feature-prioritization.pptx) | MLO typical operating scenarios and sub-feature prioritization | Zhou Lan | Pending | ML-General | MAC |
| 427r0 | Synchronous multi link operation | Young Hoon Kwon | Pending | ML-Constrained ops. | MAC |
| [512r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0512-00-00be-mld-address-management-discussion.pptx) | MLD address management discussion | Harry Wang | Pending | ML-Architecture | MAC |
| 562r0 | Enhanced multi-link single radio operation | Minyoung Park | Pending | ML-General | MAC |
| 569r0 | 11be-txop-protection-coexistence-11ax | Chunyu Hu | Pending | MAC-General | MAC |
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| [279r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0279-00-00be-considerations-on-eht-sig-compression-modes.pptx) | Considerations on EHT-SIG compression modes | Lei Huang | Presented | SIG | PHY |
| [285r1](https://mentor.ieee.org/802.11/dcn/20/11-20-0285-01-00be-su-ppdu-sig-contents-considerations.pptx) | SU PPDU SIG Contents Consideration | Wook Bong Lee | Presented | SIG | PHY |
| [373r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0373-00-00be-ru-allocation-subfield-design-for-multi-ru-support.pptx) | RU Allocation Subfield Design for Multi-RU Support | Myeongjin Kim | Presented | SIG | PHY |
| [380r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0380-00-00be-u-sig-structure-and-preamble-processing.pptx) | U-SIG Structure and Preamble Processing | Sameer Vermani | Presented | SIG | PHY |
| [382r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0382-00-00be-p-matrix-based-ltfs-for-eht.pptx) | P-matrix based LTFs for EHT | Sameer Vermani | Presented | Preamble | PHY |
| [394r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0394-00-00be-thoughts-on-ru-aggregation-and-interleaving.pptx) | Thoughts on RU Aggregation and Interleaving | Bin Tian | Presented | RU Aggregation | PHY |
| [400r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0400-00-00be-multi-ru-combination-and-signaling-for-ofdma-transmission.pptx) | Multi-ru-combination-and-signaling-for-ofdma-transmission | Ross Jian Yu | Presented | Multi-RU | PHY |
| [401r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0401-00-00be-preamble-puncture-signaling-for-non-ofdma-transmission.pptx) | Preamble-puncture-signaling-for-non-ofdma-transmission | Ross Jian Yu | Presented | Puncturing | PHY |
| [402r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0402-00-00be-u-sig-and-eht-sig-contents-discussion.pptx) | U-sig-and-eht-sig-contents-discussion | Ross Jian Yu | Presented | SIG | PHY |
| [403r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0403-00-00be-signaling-of-multiple-ru-aggregation-in-ofdma.pptx) | Signaling of Multiple RU aggregation in OFDMA | Dongguk Lim | Presented | SIG | PHY |
| [404r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0404-00-00be-further-proposals-for-multiple-ru-aggregation.pptx) | Further Proposals for Multiple RU Aggregation | Eunsung Park | Presented | RU Aggregation | PHY |
| [405r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0405-00-00be-ldpc-tone-mapper-for-multiple-ru-aggregation.pptx) | LDPC Tone Mapper for Multiple RU Aggregation | Eunsung Park | Presented | RU Aggregation | PHY |
| [406r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0406-00-00be-phase-rotation-proposal.pptx) | Phase Rotation Proposal | Eunsung Park | Presented | Preamble | PHY |
| [439r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0439-00-00be-efficient-eht-preamble-design.pptx) | Efficient EHT Preamble Design | Jianhan Liu | Presented | Preamble | PHY |
| [440r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0440-00-00be-segment-parser-and-tone-interleaver-for-11be.pptx) | Segment Parser and Tone Interleaver for 11be | Jianhan Liu | Presented | RU Aggregation | PHY |
| [456r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0456-00-00be-tx-evm-requirement-for-4k-qam.pptx) | Tx EVM Requirement for 4k QAM | Qinghua Li | Pending | 4K QAM | PHY |
| [470r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0470-00-00be-small-size-mru-with-different-mcs-and-bcc.pptx) | Small Size MRU with Different MCS and BCC | Junghoon Suh | Presented | General | PHY |
| [473r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0473-00-00be-impact-of-multiple-ru-allocation-on-papr.pptx) | Impact of Multiple RU Allocation on PAPR | Genadiy Tsodik | Presented | RU Aggregation | PHY |
| [474r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0474-00-00be-1-remarks-on-the-content-channels.pptx) | Remarks on the content channels | Miguel Lopez | Presented | SIG | PHY |
| [478r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0478-00-00be-segment-parsing-for-punctured-transmissions.pptx) | Segment parsing for punctured transmissions | Sigurd Schelstraete | Presented | Puncturing | PHY |
| [479r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0479-00-00be-240-mhz-channelization.pptx) | 240 MHz channelization | Sigurd Schelstraete | Pending | Channelization | PHY |
| [480r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0480-00-00be-4096-qam-straw-polls.pptx) | 4096 QAM Straw Polls | Sigurd Schelstraete | Pending | 4K QAM | PHY |
| [483r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0483-00-00be-preamble-puncturing-for-ppdus-transmitted-to-multiple-stas.pptx) | Preamble Puncturing for PPDUs Transmitted to Multiple STAs  | Oded Redlich | Pending | Puncturing | PHY |
| [486r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0486-00-00be-decoupling-channel-training-from-nsts.pptx) | Decoupling Channel Training from NSTS | Abhishek Agrawal | Presented | General | PHY |
| [495r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0495-00-00be-discussions-on-multi-ru-aggregation.pptx) | Discussions on multi-RU aggregation | Tianyu Wu | Presented | RU Aggregation | PHY |
| New PHY requests received after the call for submissions phase. |
| [524r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0524-00-00be-signaling-of-preamble-puncturing-in-su-transmission.pptx) | Signaling-of-preamble-puncturing-in-su-transmission | Dongguk Lim | Pending | Puncturing | PHY |
| [545r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0545-00-00be-multi-segment-eht-sig-design-discussion.pptx) | Multi-segment EHT-SIG design discussion | Ross Yu | Pending | SIG | PHY |
| 563r0 | EHT-PPDU-Scrambler | Xiaogang Chen | Pending | General | PHY |
| 565r0 | Smoothing Indication in 11be | Shimi Shilo | Pending | General | PHY |

## Teleconference Agendas

### 1st Conf. Call: March 16 (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); 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 Liwen Chu (liwen.chu@nxp.com) and Jeongki Kim (jeongki.kim@lge.com)
* Announcements:
* Topics from which submissions are obtained:
	+ ML Architecture, Medium Access, General, MAC Protection.
* Technical Submissions:
	+ [1822r4](https://mentor.ieee.org/802.11/dcn/19/11-19-1822-04-00be-multi-link-security-consideration.pptx)–Multi-link security consideration (Po-Kai Huang) [1 SP]
	+ [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)
	+ [0054r1](https://mentor.ieee.org/802.11/dcn/20/11-20-0054-01-00be-mld-mac-address-and-wm-address.pptx)–MLD MAC address and WM address (Po-Kai Huang)
	+ [0063r1](https://mentor.ieee.org/802.11/dcn/20/11-20-0063-01-00be-sta-mld-link-address.pptx)–STA MLD link address (Liwen Chu)
	+ [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)

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* + [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)
	+ [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)
	+ [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)
	+ [~~363r0~~](https://mentor.ieee.org/802.11/dcn/20/11-20-0363-00-00be-proposals-on-unused-bandwidth-utilizations.pptx)~~–Proposals on unused bandwidth utilizations (Sindhu Verma)~~
	+ [384r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0384-00-00be-320-mhz-bss-configuration.pptx)–320 MHz BSS Configuration (Po-Kai Huang)
	+ [398r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0398-00-00be-eht-bss-with-wider-bandwidth.pptx)–EHT BSS with wider bandwidth (Liwen Chu)
	+ [399r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0399-00-00be-bw-negotiation-protection-with-more-than-160mhz-ppdu-and-puncture-operation.pptx)–BW negotiation, protection with more than 160MHz PPDU and puncture operation (Liwen Chu)
* AoB:
* Adjourn

### 1st Conf. Call: March 16 (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); 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 Sigurd Schelstraete (sschelstraete@quantenna.com) and Tianyu Wu (tianyu@apple.com)
* Announcements:
* Topics from which submissions are obtained:
	+ SIG, Preamble, General
* Technical Submissions:
	+ [020r1](https://mentor.ieee.org/802.11/dcn/20/11-20-0020-01-00be-consideration-for-eht-sig-transmission.pptx) Consideration for EHT-SIG transmission (Dongguk Lim) [3 SPs]
	+ [279r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0279-00-00be-considerations-on-eht-sig-compression-modes.pptx) Considerations on EHT-SIG compression modes (Lei Huang)
	+ [285r1](https://mentor.ieee.org/802.11/dcn/20/11-20-0285-01-00be-su-ppdu-sig-contents-considerations.pptx) SU PPDU SIG Contents Consideration (Wook Bong Lee)
	+ [373r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0373-00-00be-ru-allocation-subfield-design-for-multi-ru-support.pptx) RU Allocation Subfield Design for Multi-RU Support (Myeongjin Kim)
	+ [400r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0400-00-00be-multi-ru-combination-and-signaling-for-ofdma-transmission.pptx) Multi-RU combination and signalling for OFDMA transmission (Ross Yu)
	+ [401r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0401-00-00be-preamble-puncture-signaling-for-non-ofdma-transmission.pptx) Preamble puncture signalling for non-OFDMA transmission (Ross Yu)

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* + [380r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0380-00-00be-u-sig-structure-and-preamble-processing.pptx) U-SIG Structure and Preamble Processing (Sameer Vermani)
	+ [402r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0402-00-00be-u-sig-and-eht-sig-contents-discussion.pptx) U-sig-and-eht-sig-contents-discussion (Ross Jian Yu)
	+ [474r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0474-00-00be-1-remarks-on-the-content-channels.pptx) Remarks on the content channels (Miguel Lopez)
	+ [382r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0382-00-00be-p-matrix-based-ltfs-for-eht.pptx) P-matrix based LTFs for EHT (Sameer Vermani)
	+ [439r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0439-00-00be-efficient-eht-preamble-design.pptx) Efficient EHT Preamble Design (Jianhan Liu)
	+ [406r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0406-00-00be-phase-rotation-proposal.pptx) Phase Rotation Proposal (Eunsung Park)
	+ [440r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0440-00-00be-segment-parser-and-tone-interleaver-for-11be.pptx) Segment Parser and Tone Interleaver for 11be (Jianhan Liu)
	+ [470r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0470-00-00be-small-size-mru-with-different-mcs-and-bcc.pptx) Small Size MRU with Different MCS and BCC (Junghoon Suh)
	+ [486r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0486-00-00be-decoupling-channel-training-from-nsts.pptx) Decoupling Channel Training from NSTS (Abhishek Agrawal)
* AoB:
* Adjourn

### 2nd Conf. Call: March 18 (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); 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 Liwen Chu (liwen.chu@nxp.com) and Jeongki Kim (jeongki.kim@lge.com)
* Announcements:
* Topics from which submissions are obtained:
	+ Medium Access, General, MAC Protection, ML-Constrained ops.
* Technical Submissions:
	+ [0095r1](https://mentor.ieee.org/802.11/dcn/20/11-20-0095-01-00be-triggered-p2p-transmissions.pptx)–Triggered p2p transmissions (Stephane Baron)
	+ [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)
	+ [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)
	+ [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)
	+ [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)

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* + [~~363r0~~](https://mentor.ieee.org/802.11/dcn/20/11-20-0363-00-00be-proposals-on-unused-bandwidth-utilizations.pptx)~~–Proposals on unused bandwidth utilizations (Sindhu Verma)~~
	+ [384r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0384-00-00be-320-mhz-bss-configuration.pptx)–320 MHz BSS Configuration (Po-Kai Huang)
	+ [398r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0398-00-00be-eht-bss-with-wider-bandwidth.pptx)–EHT BSS with wider bandwidth (Liwen Chu)
	+ [399r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0399-00-00be-bw-negotiation-protection-with-more-than-160mhz-ppdu-and-puncture-operation.pptx)–BW negotiation, protection with more than 160MHz PPDU and puncture operation (Liwen Chu)
	+ [1959r0](https://mentor.ieee.org/802.11/dcn/19/11-19-1959-00-00be-constrained-multi-link-operation.pptx) Constrained Multi-Link Operation (Yongho Seok)
	+ [226r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0226-00-00be-mlo-constraint-indication-and-operating-mode.pptx) MLO Constraint Indication and Operating Mode (Sharan Naribole)
	+ [275r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0275-00-00be-need-for-sync-ppdu.pptx) Need for Sync PPDUs (Abhishek Patil)
* AoB:
* Adjourn

### 2nd Conf. Call: March 18 (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); 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 Sigurd Schelstraete (sschelstraete@quantenna.com) and Tianyu Wu (tianyu@apple.com)
* Announcements:
* Topics from which submissions are obtained:
	+ SIG, Preamble, General
* Technical Submissions:
	+ [403r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0403-00-00be-signaling-of-multiple-ru-aggregation-in-ofdma.pptx) Signaling of Multiple RU aggregation in OFDMA (Dongguk Lim)
	+ [404r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0404-00-00be-further-proposals-for-multiple-ru-aggregation.pptx) Further proposals for multiple RU aggregation (Eunsung Park)
	+ [380r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0380-00-00be-u-sig-structure-and-preamble-processing.pptx) U-SIG Structure and Preamble Processing (Sameer Vermani)

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* + [402r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0402-00-00be-u-sig-and-eht-sig-contents-discussion.pptx) U-sig-and-eht-sig-contents-discussion (Ross Jian Yu)
	+ [474r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0474-00-00be-1-remarks-on-the-content-channels.pptx) Remarks on the content channels (Miguel Lopez)
	+ [382r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0382-00-00be-p-matrix-based-ltfs-for-eht.pptx) P-matrix based LTFs for EHT (Sameer Vermani)
	+ [439r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0439-00-00be-efficient-eht-preamble-design.pptx) Efficient EHT Preamble Design (Jianhan Liu)
	+ [406r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0406-00-00be-phase-rotation-proposal.pptx) Phase Rotation Proposal (Eunsung Park)
	+ [394r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0394-00-00be-thoughts-on-ru-aggregation-and-interleaving.pptx) Thoughts on RU Aggregation and Interleaving (Bin Tian)
	+ [405r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0405-00-00be-ldpc-tone-mapper-for-multiple-ru-aggregation.pptx) LDPC tone mapper for Multiple RU aggregation (Eunsung Park)
	+ [440r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0440-00-00be-segment-parser-and-tone-interleaver-for-11be.pptx) Segment Parser and Tone Interleaver for 11be (Jianhan Liu)
	+ [470r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0470-00-00be-small-size-mru-with-different-mcs-and-bcc.pptx) Small Size MRU with Different MCS and BCC (Junghoon Suh)
	+ [478r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0478-00-00be-segment-parsing-for-punctured-transmissions.pptx) Segment parsing for punctured transmissions (Sigurd Schelstraete)
	+ [495r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0495-00-00be-discussions-on-multi-ru-aggregation.pptx) Discussions on multi-RU aggregation (Tianyu Wu)
	+ [486r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0486-00-00be-decoupling-channel-training-from-nsts.pptx) Decoupling Channel Training from NSTS (Abhishek Agrawal)
* AoB:
* Adjourn

### 3rd Conf. Call: March 19 (10:00–13:00 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); 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) and Alfred Asterjadhi (aasterja@qti.qualcomm.com)
* Announcements: Chair appreciates the members participation on the conference calls and voting with the new polling system.
* Teleconference schedules
	+ Clustering/Concentrating conference calls in one or more weeks, instead of weekly.
* Topics from which submissions are obtained:
	+ MAP-Operation, MAP-General, MAP-SR
* Technical Submissions:
	+ [1582r2](https://mentor.ieee.org/802.11/dcn/19/11-19-1582-02-00be-coordinated-ap-time-and-frequency-sharing-in-a-transmit-opportunity-in-11be.pptx) Coordinated-ap-time-and-frequency-sharing (George Cherian)
	+ [1961r3](https://mentor.ieee.org/802.11/dcn/19/11-19-1961-03-00be-multi-ap-group-establishment.pptx) Multi-ap-group-establishment (Yonggang Fang)
	+ [033r1](https://mentor.ieee.org/802.11/dcn/20/11-20-0033-01-00be-coordinated-spatial-reuse-operation.pptx) Coordinated-spatial-reuse-operation (Jason Yuchen Guo)
	+ [~~073r0~~](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)~~
	+ [277r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0277-00-00be-coordinated-ofdma-protocol.pptx) Shared TXOP Operation (Sharan Naribole)

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* + [475r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0475-00-00be-coordinated-txop-sharing-in-ul.pptx) Coordinated TXOP Sharing in UL (Miguel Lopez)
	+ [410r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0410-00-00be-coordinated-spatial-reuse-procedure.pptx) Coordinated Spatial Reuse Procedure (Sungjin Park)
	+ [424r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0424-00-00be-coordinated-ap-spatial-sharing-in-a-txop.pptx) Coordinated AP Spatial Sharing in a TXOP (Dennis Sundman)
	+ ~~457r0 Discussion on Coordinated Spatial Reuse Operation (Kosuke Aio)~~
* AoB: None.
* Adjourn

### 4th Conf. Call: March 23 (10:00–13:00 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); 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 Liwen Chu (liwen.chu@nxp.com) and Jeongki Kim (jeongki.kim@lge.com)
* Announcements: None.
* Topics from which submissions are obtained:
	+ General, MAC Protection, ML-Constrained ops.
		- AI prior to approving the agenda: Order submissions under ML-Constrained Ops. so that similar submissions are grouped together (i.e., subcategorize).
* Technical Submissions:
	+ [384r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0384-00-00be-320-mhz-bss-configuration.pptx)–320 MHz BSS Configuration (Po-Kai Huang)
	+ [398r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0398-00-00be-eht-bss-with-wider-bandwidth.pptx)–EHT BSS with wider bandwidth (Liwen Chu)
	+ [~~399r0~~](https://mentor.ieee.org/802.11/dcn/20/11-20-0399-00-00be-bw-negotiation-protection-with-more-than-160mhz-ppdu-and-puncture-operation.pptx)~~–BW negotiation, protection with more than 160MHz PPDU and puncture operation (Liwen Chu)~~
	+ [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)
	+ [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)

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* + [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)
	+ [0081r1](https://mentor.ieee.org/802.11/dcn/20/11-20-0081-01-00be-mlo-synch-transmission.pptx) MLO-Sync-TX (Matthew Fischer)
	+ [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)
	+ [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)
	+ [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)
	+ [1959r0](https://mentor.ieee.org/802.11/dcn/19/11-19-1959-00-00be-constrained-multi-link-operation.pptx) Constrained Multi-Link Operation (Yongho Seok)
	+ [0026r1](https://mentor.ieee.org/802.11/dcn/20/11-20-0026-01-00be-mlo-sync-ppdus.pptx) MLO: Sync PPDUs (Duncan Ho)
	+ [188r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0188-00-00be-multi-link-triggered-uplink-access.pptx) Multi-link Triggered Uplink Access (Yongho Seok)
	+ [226r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0226-00-00be-mlo-constraint-indication-and-operating-mode.pptx) MLO Constraint Indication and Operating Mode (Sharan Naribole)
	+ [275r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0275-00-00be-need-for-sync-ppdu.pptx) Need for Sync PPDUs (Abhishek Patil)
	+ [291r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0291-00-00be-mlo-async-and-sync-operation-discussion.pptx) MLO Async. and Sync. Operation Discussion (Zhou Lan)
	+ [329r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0329-00-00be-group-addressed-frame-transmission-in-constrained-multi-link-operation.pptx) Group addressed frame transmission in constrained multi-link operation (Yongho Seok)
	+ [414r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0414-00-00be-method-for-handling-constrained-mld.pptx) Method for Handling Constrained MLD (Insun Jang)
	+ [415r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0415-00-00be-multi-link-aggregation-synchronized-ppdus-on-multiple-links.pptx) Multi-link Aggregation: Synchronized PPDUs on Multiple Links (Insun Jang)
	+ [433r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0433-00-00be-ppdu-alignment-in-str-constrained-multi-link.pptx) PPDU alignment in STR constrained multi-link (Yunbo Li)
	+ [444r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0444-00-00be-mla-non-str-sta-edca-rules-after-self-interference.pptx) MLA: Non-STR STA EDCA rules after self-interference (Duncan Ho)
	+ [455r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0455-00-00be-async-mlo-with-non-str-sta.pptx) Async multi-link operation for non-STR STA (Dmitry Akhmetov)
	+ [487r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0487-00-00be-multiple-link-operation-follow-up.pptx) Multiple link operation follow up (Liwen Chu)
	+ [490r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0490-00-00be-multi-link-hidden-terminal.pptx) Impact\_of\_channel\_blindness\_ML\_txrx (Dibakar Das)
* AoB: None.
* Adjourn

### 4th Conf. Call: March 23 (10:00–13:00 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); 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 Sigurd Schelstraete (sschelstraete@quantenna.com) and Tianyu Wu (tianyu@apple.com)
* Announcements:
* Topics from which submissions are obtained:
	+ SIG, Preamble, RU Aggregation, General, Puncturing
* Technical Submissions:
	+ [439r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0439-00-00be-efficient-eht-preamble-design.pptx) Efficient EHT Preamble Design (Jianhan Liu)
	+ [402r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0402-00-00be-u-sig-and-eht-sig-contents-discussion.pptx) U-sig-and-eht-sig-contents-discussion (Ross Jian Yu)
	+ [474r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0474-00-00be-1-remarks-on-the-content-channels.pptx) Remarks on the content channels (Miguel Lopez)
	+ [382r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0382-00-00be-p-matrix-based-ltfs-for-eht.pptx) P-matrix based LTFs for EHT (Sameer Vermani)
	+ [406r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0406-00-00be-phase-rotation-proposal.pptx) Phase Rotation Proposal (Eunsung Park)
	+ [486r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0486-00-00be-decoupling-channel-training-from-nsts.pptx) Decoupling Channel Training from NSTS (Abhishek Agrawal)

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* + [394r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0394-00-00be-thoughts-on-ru-aggregation-and-interleaving.pptx) Thoughts on RU Aggregation and Interleaving (Bin Tian)
	+ [405r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0405-00-00be-ldpc-tone-mapper-for-multiple-ru-aggregation.pptx) LDPC tone mapper for Multiple RU aggregation (Eunsung Park)
	+ [440r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0440-00-00be-segment-parser-and-tone-interleaver-for-11be.pptx) Segment Parser and Tone Interleaver for 11be (Jianhan Liu)
	+ [470r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0470-00-00be-small-size-mru-with-different-mcs-and-bcc.pptx) Small Size MRU with Different MCS and BCC (Junghoon Suh)
	+ [478r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0478-00-00be-segment-parsing-for-punctured-transmissions.pptx) Segment parsing for punctured transmissions (Sigurd Schelstraete)
	+ [495r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0495-00-00be-discussions-on-multi-ru-aggregation.pptx) Discussions on multi-RU aggregation (Tianyu Wu)
	+ *Note: SPs in 439, 380, 285 will be considered after presentation of 483.*
* AoB:
* Adjourn

### 5th Conf. Call: March 26 (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); 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 record your attendance during the conference call by using the IMAT system:
		- 1) login to [imat](https://imat.ieee.org/attendance), 2) select “802.11 Telecons (<Month>)” entry, 3) select “C/LM/WG802.11 Attendance” entry, 4) click “TGbe <MAC/PHY/Joint> conference call that you are attending.
	+ If you are unable to record the attendance via [IMAT](https://imat.ieee.org/attendance) then please send an e-mail to Liwen Chu (liwen.chu@nxp.com) and Jeongki Kim (jeongki.kim@lge.com)
* Announcements:
	+ TGbe Chair gives an overview of the proposed future telcos.
* Topics from which submissions are obtained:
	+ ML-Constrained ops
* Technical Submissions:
	+ [~~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)~~
	+ [1305r1](https://mentor.ieee.org/802.11/dcn/19/11-19-1305-00-00be-synchronous-multi-link-operation.pptx) Synchronous multi-link transmission (Yongho Seok)
		- Straw poll only
	+ [0026r1](https://mentor.ieee.org/802.11/dcn/20/11-20-0026-01-00be-mlo-sync-ppdus.pptx) MLO: Sync PPDUs (Duncan Ho)
	+ [0081r1](https://mentor.ieee.org/802.11/dcn/20/11-20-0081-01-00be-mlo-synch-transmission.pptx) MLO-Sync-TX (Matthew Fischer)
	+ [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)

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* + [0106r3](https://mentor.ieee.org/802.11/dcn/20/11-20-0106-03-00be-follow-up-on-performance-aspects-of-mlink-ops-with-constrains.pptx) Follow up on performance aspects of multi link operations with constrains (Dmitry Akhmetov)
	+ [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)
	+ [1959r0](https://mentor.ieee.org/802.11/dcn/19/11-19-1959-00-00be-constrained-multi-link-operation.pptx) Constrained Multi-Link Operation (Yongho Seok)
	+ [~~0026r1~~](https://mentor.ieee.org/802.11/dcn/20/11-20-0026-01-00be-mlo-sync-ppdus.pptx) ~~MLO: Sync PPDUs (Duncan Ho)~~
	+ [188r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0188-00-00be-multi-link-triggered-uplink-access.pptx) Multi-link Triggered Uplink Access (Yongho Seok)
	+ [226r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0226-00-00be-mlo-constraint-indication-and-operating-mode.pptx) MLO Constraint Indication and Operating Mode (Sharan Naribole)
	+ [275r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0275-00-00be-need-for-sync-ppdu.pptx) Need for Sync PPDUs (Abhishek Patil)
	+ [291r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0291-00-00be-mlo-async-and-sync-operation-discussion.pptx) MLO Async. and Sync. Operation Discussion (Zhou Lan)
	+ [329r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0329-00-00be-group-addressed-frame-transmission-in-constrained-multi-link-operation.pptx) Group addressed frame transmission in constrained multi-link operation (Yongho Seok)
	+ [414r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0414-00-00be-method-for-handling-constrained-mld.pptx) Method for Handling Constrained MLD (Insun Jang)
	+ [415r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0415-00-00be-multi-link-aggregation-synchronized-ppdus-on-multiple-links.pptx) Multi-link Aggregation: Synchronized PPDUs on Multiple Links (Insun Jang)
	+ [433r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0433-00-00be-ppdu-alignment-in-str-constrained-multi-link.pptx) PPDU alignment in STR constrained multi-link (Yunbo Li)
	+ [444r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0444-00-00be-mla-non-str-sta-edca-rules-after-self-interference.pptx) MLA: Non-STR STA EDCA rules after self-interference (Duncan Ho)
	+ [455r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0455-00-00be-async-mlo-with-non-str-sta.pptx) Async multi-link operation for non-STR STA (Dmitry Akhmetov)
	+ [487r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0487-00-00be-multiple-link-operation-follow-up.pptx) Multiple link operation follow up (Liwen Chu)
	+ [490r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0490-00-00be-multi-link-hidden-terminal.pptx) Impact\_of\_channel\_blindness\_ML\_txrx (Dibakar Das)
* AoB: None.
* Adjourn

### 5th Conf. Call: March 26 (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); 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.
	+ Please record your attendance during the conference call by using the IMAT system:
		- 1) login to [imat](https://imat.ieee.org/attendance), 2) select “802.11 Telecons (<Month>)” entry, 3) select “C/LM/WG802.11 Attendance” entry, 4) click “TGbe <MAC/PHY/Joint> conference call that you are attending.
	+ If you are unable to record the attendance via [IMAT](https://imat.ieee.org/attendance) then please send an e-mail to Sigurd Schelstraete (sschelstraete@quantenna.com) and Tianyu Wu (tianyu@apple.com)
* Announcements:
* Topics from which submissions are obtained:
	+ RU Aggregation, General, Puncturing, Channelization
* Technical Submissions:
	+ [394r](https://mentor.ieee.org/802.11/dcn/20/11-20-0394-01-00be-thoughts-on-ru-aggregation-and-interleaving.pptx)1 Thoughts on RU Aggregation and Interleaving (Bin Tian)
	+ [405r1](https://mentor.ieee.org/802.11/dcn/20/11-20-0405-01-00be-ldpc-tone-mapper-for-multiple-ru-aggregation.pptx) LDPC tone mapper for Multiple RU aggregation (Eunsung Park)

* + [440r1](https://mentor.ieee.org/802.11/dcn/20/11-20-0440-01-00be-segment-parser-and-tone-interleaver-for-11be.pptx) Segment Parser and Tone Interleaver for 11be (Jianhan Liu)
	+ [470r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0470-00-00be-small-size-mru-with-different-mcs-and-bcc.pptx) Small Size MRU with Different MCS and BCC (Junghoon Suh)
	+ [478r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0478-00-00be-segment-parsing-for-punctured-transmissions.pptx) Segment parsing for punctured transmissions (Sigurd Schelstraete)
	+ [473r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0473-00-00be-impact-of-multiple-ru-allocation-on-papr.pptx) Impact of Multiple RU Allocation on PAPR Genadiy Tsodik
	+ [495r](https://mentor.ieee.org/802.11/dcn/20/11-20-0495-01-00be-discussions-on-multi-ru-aggregation.pptx)1 Discussions on multi-RU aggregation (Tianyu Wu)

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* + [524r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0524-00-00be-signaling-of-preamble-puncturing-in-su-transmission.pptx) Signaling-of-preamble-puncturing-in-su-transmission (Dongguk Lim)
	+ [479r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0479-00-00be-240-mhz-channelization.pptx) 240 MHz channelization (Sigurd Schelstraete)
* AoB: None.
* Adjourn

### 6th Conf. Call: March 30 (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); 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 record your attendance during the conference call by using the IMAT system:
		- 1) login to [imat](https://imat.ieee.org/attendance), 2) select “802.11 Telecons (<Month>)” entry, 3) select “C/LM/WG802.11 Attendance” entry, 4) click “TGbe <MAC/PHY/Joint> conference call that you are attending.
	+ If you are unable to record the attendance via [IMAT](https://imat.ieee.org/attendance) then please send an e-mail to Liwen Chu (liwen.chu@nxp.com) and Jeongki Kim (jeongki.kim@lge.com)
* Announcements: None.
* Technical Submissions:
	+ [0106r4](https://mentor.ieee.org/802.11/dcn/20/11-20-0106-04-00be-follow-up-on-performance-aspects-of-mlink-ops-with-constrains.pptx) Follow up on performance aspects of multi link operations with constrains (Dmitry Akhmetov)
	+ [0134r4](https://mentor.ieee.org/802.11/dcn/20/11-20-0134-04-00be-multilink-channel-access-considering-str-capability.pptx) Multilink channel access considering STR capability (Hanseul Hong)
	+ [1959r0](https://mentor.ieee.org/802.11/dcn/19/11-19-1959-00-00be-constrained-multi-link-operation.pptx) Constrained Multi-Link Operation (Yongho Seok)
	+ [188r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0188-00-00be-multi-link-triggered-uplink-access.pptx) Multi-link Triggered Uplink Access (Yongho Seok)
	+ [226r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0226-00-00be-mlo-constraint-indication-and-operating-mode.pptx) MLO Constraint Indication and Operating Mode (Sharan Naribole)

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* + [275r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0275-00-00be-need-for-sync-ppdu.pptx) Need for Sync PPDUs (Abhishek Patil)
	+ [291r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0291-00-00be-mlo-async-and-sync-operation-discussion.pptx) MLO Async. and Sync. Operation Discussion (Zhou Lan)
	+ [329r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0329-00-00be-group-addressed-frame-transmission-in-constrained-multi-link-operation.pptx) Group addressed frame transmission in constrained multi-link operation (Yongho Seok)
	+ [414r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0414-00-00be-method-for-handling-constrained-mld.pptx) Method for Handling Constrained MLD (Insun Jang)
	+ [415r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0415-00-00be-multi-link-aggregation-synchronized-ppdus-on-multiple-links.pptx) Multi-link Aggregation: Synchronized PPDUs on Multiple Links (Insun Jang)
	+ [433r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0433-00-00be-ppdu-alignment-in-str-constrained-multi-link.pptx) PPDU alignment in STR constrained multi-link (Yunbo Li)
	+ [444r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0444-00-00be-mla-non-str-sta-edca-rules-after-self-interference.pptx) MLA: Non-STR STA EDCA rules after self-interference (Duncan Ho)
	+ [455r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0455-00-00be-async-mlo-with-non-str-sta.pptx) Async multi-link operation for non-STR STA (Dmitry Akhmetov)
	+ [487r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0487-00-00be-multiple-link-operation-follow-up.pptx) Multiple link operation follow up (Liwen Chu)
	+ [490r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0490-00-00be-multi-link-hidden-terminal.pptx) Impact\_of\_channel\_blindness\_ML\_txrx (Dibakar Das)
* AoB: None.
* Adjourn

### 6th Conf. Call: March 30 (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); 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 record your attendance during the conference call by using the IMAT system:
		- 1) login to [imat](https://imat.ieee.org/attendance), 2) select “802.11 Telecons (<Month>)” entry, 3) select “C/LM/WG802.11 Attendance” entry, 4) click “TGbe <MAC/PHY/Joint> conference call that you are attending.
	+ If you are unable to record the attendance via [IMAT](https://imat.ieee.org/attendance) then please send an e-mail to Sigurd Schelstraete (sschelstraete@quantenna.com) and Tianyu Wu (tianyu@apple.com)
* Announcements: None.
* Technical Submissions:
	+ StrawPolls on segment parsing/tone mapper/interleaver for multi-RU
	+ [473r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0473-00-00be-impact-of-multiple-ru-allocation-on-papr.pptx) Impact of Multiple RU Allocation on PAPR (Genadiy Tsodik)
	+ [402r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0402-00-00be-u-sig-and-eht-sig-contents-discussion.pptx) U-sig-and-eht-sig-contents-discussion (Ross Jian Yu)

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* + [524r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0524-00-00be-signaling-of-preamble-puncturing-in-su-transmission.pptx) Signaling-of-preamble-puncturing-in-su-transmission (Dongguk Lim)
	+ [483r](https://mentor.ieee.org/802.11/dcn/20/11-20-0483-01-00be-preamble-puncturing-for-ppdus-transmitted-to-multiple-stas.pptx)1 Preamble Puncturing for PPDUs Transmitted to Multiple STAs (Oded Redlich)
	+ [545r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0545-00-00be-multi-segment-eht-sig-design-discussion.pptx) Multi-segment EHT-SIG design discussion (Ross Yu)
	+ StrawPolls on preamble, multi-RU allocation (439, 380, 285, 524)
	+ [479r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0479-00-00be-240-mhz-channelization.pptx) 240 MHz channelization (Sigurd Schelstraete)
	+ [456r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0456-00-00be-tx-evm-requirement-for-4k-qam.pptx) Tx EVM Requirement for 4k QAM (Qinghua Li)
	+ [480r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0480-00-00be-4096-qam-straw-polls.pptx) 4096 QAM Straw Polls (Sigurd Schelstraete)
* AoB: None.
* Adjourn

### 7th Conf. Call: April 2 (10:00–13:00 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); 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 record your attendance during the conference call by using the IMAT system:
		- 1) login to [imat](https://imat.ieee.org/attendance), 2) select “802.11 Telecons (<Month>)” entry, 3) select “C/LM/WG802.11 Attendance” entry, 4) click “TGbe <MAC/PHY/Joint> conference call that you are attending.
	+ If you are unable to record the attendance via [IMAT](https://imat.ieee.org/attendance) then please send an e-mail to Dennis Sundman (dennis.sundman@ericsson.com) and Alfred Asterjadhi (aasterja@qti.qualcomm.com)
* Announcements:
	+ Document recording Straw Polls ran during the conf. calls will be available soon.
		- Reminder: Members are encouraged to read the SP guidelines at the end of the doc.
		- Feedback/suggestions?
			* We benefit from having the document organized as an SFD-like document. Identifying those SPs that pass 75% threshold so that members focus on consensus. Have them as separate subclauses.
				+ AI: Edward to account for suggestion in the document being prepared.
			* We may want to think of a temporary change in process, in terms of SFD update since we don’t have motions. E.g., have a call once a month that approves the progress made during the month.
				+ AI: Check with WG leadership on status of discussions regarding the motion absence.
			* Nice to have the SP results within 24 hours of the meeting so that group determines the progress.
				+ AI: Sync up with ad-hoc chairs to have documents timely available so that informaiton is available asap. ETA of 48-hours.
			* Ensure that the “confirmatory” SPs are ran in such a way that members from anywhere can express their opinion (independently of location).
			* Rules are under consideration at IEEE802 level to amend the way we run motions. Hopefully this will be addressed within the next couple of weeks.
			* Concern on “confirmatory” SPs, which are essentially Motions, but without the membership requirement. We do have tools to run motions (electronically). Quoting from Chat:
				+ The rules we operate under do not allow motions on the telecon until we are in CRC mode for SA Ballot processingPlease refer to the P&P: <http://www.ieee802.org/11/Rules/rules.shtml>
				+ All Motions would need to be done by WG Ballot -- 50% of the membership would need to respond and 75% of those responding would need for concensus.
			* We can ask WG chair to run these by e-poll.
			* Same comment as above on the “confirmatory” SPs.
			* Mention in the document how the 75% threshold is calculated.
			* How can attendants obtain membership if there are no F2F meetings?
				+ Please refer to new participant orientation: <https://mentor.ieee.org/802.11/dcn/20/11-20-0007-01-0000-802-11-new-participant-introduction.pptx>
				+ There are also discussions on how to achieve voting rights electronically.
			* Suggest that members upload most recent version of the document containing the SP.
* Topics from which submissions are obtained:
	+ MAP-Operation, MAP-General, MAP-SR, MAP OFDMA, MAP-JT, MAP-CBF, MAP-Sounding
* Technical Submissions:
	+ [056r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0056-00-00be-preparations-for-coordinated-ofdma.pptx) Preparations for coordinated OFDMA (Rojan Chitrakar) [1 SP]
	+ [071r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0071-00-00be-joint-transmission-for-11be.pptx) Joint Transmission (Ron Porat) [1 SP]
	+ [277r1](https://mentor.ieee.org/802.11/dcn/20/11-20-0277-01-00be-coordinated-ofdma-protocol.pptx) Shared TXOP Operation (Sharan Naribole) [Q&A and SPs] [Run SPs]
	+ [475r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0475-00-00be-coordinated-txop-sharing-in-ul.pptx) Coordinated TXOP Sharing in UL (Miguel Lopez)

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* + [410r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0410-00-00be-coordinated-spatial-reuse-procedure.pptx) Coordinated Spatial Reuse Procedure (Sungjin Park)
	+ [424r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0424-00-00be-coordinated-ap-spatial-sharing-in-a-txop.pptx) Coordinated AP Spatial Sharing in a TXOP (Dennis Sundman)
	+ [457r1](https://mentor.ieee.org/802.11/dcn/20/11-20-0457-01-00be-discussion-on-coordinated-spatial-reuse-operation.pptx) Discussion on Coordinated Spatial Reuse Operation (Kosuke Aio)
	+ [099r0](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) [1 SP]
	+ [123r0](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) [3 SPs]
* AoB:
* Adjourn

### 8th Conf. Call: April 6 (10:00–13:00 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); 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 record your attendance during the conference call by using the IMAT system:
		- 1) login to [imat](https://imat.ieee.org/attendance), 2) select “802.11 Telecons (<Month>)” entry, 3) select “C/LM/WG802.11 Attendance” entry, 4) click “TGbe <MAC/PHY/Joint> conference call that you are attending.
	+ If you are unable to record the attendance via [IMAT](https://imat.ieee.org/attendance) then please send an e-mail to Liwen Chu (liwen.chu@nxp.com) and Jeongki Kim (jeongki.kim@lge.com)
* Announcements:
* Technical Submissions:
	+ [226r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0226-00-00be-mlo-constraint-indication-and-operating-mode.pptx) MLO Constraint Indication and Operating Mode (Sharan Naribole) [Q&A]
	+ [275r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0275-00-00be-need-for-sync-ppdu.pptx) Need for Sync PPDUs (Abhishek Patil)
	+ [291r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0291-00-00be-mlo-async-and-sync-operation-discussion.pptx) MLO Async. and Sync. Operation Discussion (Zhou Lan)
	+ [329r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0329-00-00be-group-addressed-frame-transmission-in-constrained-multi-link-operation.pptx) Group addressed frame transmission in constrained multi-link operation (Yongho Seok)
	+ [414r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0414-00-00be-method-for-handling-constrained-mld.pptx) Method for Handling Constrained MLD (Insun Jang)
	+ [415r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0415-00-00be-multi-link-aggregation-synchronized-ppdus-on-multiple-links.pptx) Multi-link Aggregation: Synchronized PPDUs on Multiple Links (Insun Jang)
	+ [433r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0433-00-00be-ppdu-alignment-in-str-constrained-multi-link.pptx) PPDU alignment in STR constrained multi-link (Yunbo Li)
	+ [444r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0444-00-00be-mla-non-str-sta-edca-rules-after-self-interference.pptx) MLA: Non-STR STA EDCA rules after self-interference (Duncan Ho)
	+ [455r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0455-00-00be-async-mlo-with-non-str-sta.pptx) Async multi-link operation for non-STR STA (Dmitry Akhmetov)
	+ [487r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0487-00-00be-multiple-link-operation-follow-up.pptx) Multiple link operation follow up (Liwen Chu)
	+ [490r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0490-00-00be-multi-link-hidden-terminal.pptx) Impact\_of\_channel\_blindness\_ML\_txrx (Dibakar Das)
* AoB:
* Adjourn

### 8th Conf. Call: April 6 (10:00–13:00 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); 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 record your attendance during the conference call by using the IMAT system:
		- 1) login to [imat](https://imat.ieee.org/attendance), 2) select “802.11 Telecons (<Month>)” entry, 3) select “C/LM/WG802.11 Attendance” entry, 4) click “TGbe <MAC/PHY/Joint> conference call that you are attending.
	+ If you are unable to record the attendance via [IMAT](https://imat.ieee.org/attendance) then please send an e-mail to Sigurd Schelstraete (sschelstraete@quantenna.com) and Tianyu Wu (tianyu@apple.com)
* Announcements:
* Technical Submissions:
	+ [524r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0524-00-00be-signaling-of-preamble-puncturing-in-su-transmission.pptx) Signaling-of-preamble-puncturing-in-su-transmission (Dongguk Lim)
	+ [483r](https://mentor.ieee.org/802.11/dcn/20/11-20-0483-01-00be-preamble-puncturing-for-ppdus-transmitted-to-multiple-stas.pptx)1 Preamble Puncturing for PPDUs Transmitted to Multiple STAs (Oded Redlich)
	+ [545r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0545-00-00be-multi-segment-eht-sig-design-discussion.pptx) Multi-segment EHT-SIG design discussion (Ross Yu)
	+ StrawPolls on preamble, multi-RU allocation (439, 380, 285, 524)
	+ [479r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0479-00-00be-240-mhz-channelization.pptx) 240 MHz channelization (Sigurd Schelstraete)
	+ [456r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0456-00-00be-tx-evm-requirement-for-4k-qam.pptx) Tx EVM Requirement for 4k QAM (Qinghua Li)
	+ [480r0](https://mentor.ieee.org/802.11/dcn/20/11-20-0480-00-00be-4096-qam-straw-polls.pptx) 4096 QAM Straw Polls (Sigurd Schelstraete)
* AoB:
* Adjourn

### 9th Conf. Call: April 9 (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); 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 record your attendance during the conference call by using the IMAT system:
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	+ If you are unable to record the attendance via [IMAT](https://imat.ieee.org/attendance) then please send an e-mail to Liwen Chu (liwen.chu@nxp.com) and Jeongki Kim (jeongki.kim@lge.com)
* Announcements:
* Technical Submissions:
* AoB:
* Adjourn

### 9th Conf. Call: April 9 (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); 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 record your attendance during the conference call by using the IMAT system:
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* Announcements:
* Technical Submissions:
* AoB:
* Adjourn

### 10th Conf. Call: April 13 (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); 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 record your attendance during the conference call by using the IMAT system:
		- 1) login to [imat](https://imat.ieee.org/attendance), 2) select “802.11 Telecons (<Month>)” entry, 3) select “C/LM/WG802.11 Attendance” entry, 4) click “TGbe <MAC/PHY/Joint> conference call that you are attending.
	+ If you are unable to record the attendance via [IMAT](https://imat.ieee.org/attendance) then please send an e-mail to Liwen Chu (liwen.chu@nxp.com) and Jeongki Kim (jeongki.kim@lge.com)
* Announcements:
* Technical Submissions:
* AoB:
* Adjourn

### 10th Conf. Call: April 13 (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); 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>
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* Announcements:
* Technical Submissions:
* AoB:
* Adjourn

### 11th Conf. Call: April 16 (10:00–13:00 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); 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 record your attendance during the conference call by using the IMAT system:
		- 1) login to [imat](https://imat.ieee.org/attendance), 2) select “802.11 Telecons (<Month>)” entry, 3) select “C/LM/WG802.11 Attendance” entry, 4) click “TGbe <MAC/PHY/Joint> conference call that you are attending.
	+ If you are unable to record the attendance via [IMAT](https://imat.ieee.org/attendance) then please send an e-mail to Dennis Sundman (dennis.sundman@ericsson.com) and Alfred Asterjadhi (aasterja@qti.qualcomm.com)
* Announcements:
* Technical Submissions:
* AoB:
* Adjourn

### 12th Conf. Call: April 20 (10:00–13:00 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); 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 record your attendance during the conference call by using the IMAT system:
		- 1) login to [imat](https://imat.ieee.org/attendance), 2) select “802.11 Telecons (<Month>)” entry, 3) select “C/LM/WG802.11 Attendance” entry, 4) click “TGbe <MAC/PHY/Joint> conference call that you are attending.
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* Announcements:
* Technical Submissions:
* AoB:
* Adjourn

### 12th Conf. Call: April 20 (10:00–13:00 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); or
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* Announcements:
* Technical Submissions:
* AoB:
* Adjourn

### 13th Conf. Call: April 23 (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); or
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* Attendance reminder.
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		- 1) login to [imat](https://imat.ieee.org/attendance), 2) select “802.11 Telecons (<Month>)” entry, 3) select “C/LM/WG802.11 Attendance” entry, 4) click “TGbe <MAC/PHY/Joint> conference call that you are attending.
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* Announcements:
* Technical Submissions:
* AoB:
* Adjourn

### 13th Conf. Call: April 23 (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); or
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		- 1) login to [imat](https://imat.ieee.org/attendance), 2) select “802.11 Telecons (<Month>)” entry, 3) select “C/LM/WG802.11 Attendance” entry, 4) click “TGbe <MAC/PHY/Joint> conference call that you are attending.
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* Announcements:
* Technical Submissions:
* AoB:
* Adjourn

### 14th Conf. Call: April 27 (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); 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 record your attendance during the conference call by using the IMAT system:
		- 1) login to [imat](https://imat.ieee.org/attendance), 2) select “802.11 Telecons (<Month>)” entry, 3) select “C/LM/WG802.11 Attendance” entry, 4) click “TGbe <MAC/PHY/Joint> conference call that you are attending.
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* Announcements:
* Technical Submissions:
* AoB:
* Adjourn

### 14th Conf. Call: April 27 (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); or
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* Announcements:
* Technical Submissions:
* AoB:
* Adjourn

### 15th Conf. Call: April 30 (10:00–13:00 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); 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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	+ If you are unable to record the attendance via [IMAT](https://imat.ieee.org/attendance) then please send an e-mail to Dennis Sundman (dennis.sundman@ericsson.com) and Alfred Asterjadhi (aasterja@qti.qualcomm.com)
* Announcements:
* Technical Submissions:
* AoB:
* Adjourn

### 16th Conf. Call: May 4 (10:00–13:00 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); 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 record your attendance during the conference call by using the IMAT system:
		- 1) login to [imat](https://imat.ieee.org/attendance), 2) select “802.11 Telecons (<Month>)” entry, 3) select “C/LM/WG802.11 Attendance” entry, 4) click “TGbe <MAC/PHY/Joint> conference call that you are attending.
	+ If you are unable to record the attendance via [IMAT](https://imat.ieee.org/attendance) then please send an e-mail to Liwen Chu (liwen.chu@nxp.com) and Jeongki Kim (jeongki.kim@lge.com)
* Announcements:
* Technical Submissions:
* AoB:
* Adjourn

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### 17th Conf. Call: May 7 (19:00–22:00 ET)–MAC

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## Policies and Procedures

Teleconferences (and ad-hocs) are subject to applicable policies and procedures, see below.

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**IEEE Code of Ethics**

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

**IEEE Standards Association (IEEE-SA) Affiliation FAQ**

<http://standards.ieee.org/faqs/affiliation.html>

**Antitrust and Competition Policy**

<http://standards.ieee.org/resources/antitrust-guidelines.pdf>

**Letter of Assurance Form**

[http://standards.ieee.org/develop/policies/bylaws/sect6-7.html#loa](http://standards.ieee.org/develop/policies/bylaws/sect6-7.html)

[https://development.standards.ieee.org/myproject/Public//mytools/mob/loa.pdf](http://standards.ieee.org/board/pat/pat-slideset.ppt)

**IEEE-SA Patent Committee FAQ & Patent slides**

<http://standards.ieee.org/board/pat/faq.pdf> and <http://standards.ieee.org/board/pat/pat-slideset.ppt>

**The current version of the IEEE-SA Standards Board Bylaws is available at:**

<http://standards.ieee.org/develop/policies/bylaws/sb_bylaws.pdf> (PDF version)

**The current version of the IEEE-SA Standards Board Operations Manual is available at:**

<http://standards.ieee.org/develop/policies/opman/sb_om.pdf> (PDF version)

**IEEE 802 Policies & Procedures (Approved June 2014)**

<http://standards.ieee.org/board/aud/LMSC.pdf>

**IEEE 802 Operations Manual (Approved 13 July 2018)**

<https://mentor.ieee.org/802-ec/dcn/17/ec-17-0090-22-0PNP-ieee-802-lmsc-operations-manual.pdf>

**IEEE 802 Working Group Policies & Procedures (29 July 2016)**

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

**IEEE 802 LMSC Chair's Guidelines (Approved 13 July 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 Operations Manual (Approved 13 July 2018):**

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

* **The** [**IEEE-SA Standards Board Bylaws**](http://standards.ieee.org/develop/policies/bylaws/sb_bylaws.pdf) **require that “participants in the IEEE standards development individual process shall act based on their qualifications and experience”**
* **This means participants:**
	+ **Shall act & vote** based on their personal & independent opinions derived from their expertise, knowledge, and qualifications
	+ **Shall not act or vote** based on any obligation to or any direction from any other person or organization, including an employer or client, regardless of any external commitments, agreements, contracts, or orders
	+ **Shall not direct** the actions or votes of other participants or retaliate against other participants for fulfilling their responsibility to act & vote based on their personal & independently developed opinions
* **By participating in standards activities using the “*individual process*”, you are deemed to accept these requirements; if you are unable to satisfy these requirements then you shall immediately cease any participation**

## Guideline-Running StrawPolls Online (Currently for WebEx Only)

1. Reminder: Members will be placed on mute upon joining the call to reduce background noise. Hence, in order to speak, please unmute yourself.
2. Each member that intends to join the conference call and vote needs to:
	* Ensure that their name and affiliation is listed in the participants list
		1. If you are not properly identified in the participants list, your vote will be removed from the straw polls results
		2. If your employer uses WebEx as well, then you need to update the identification details on the internal profile.
	* Ensure that they join the conference call online before dialing in, in order to ensure that name and affiliation appear in the participants list
		1. Audio connection via cellphone or landline can be achieved by having WebEx calling the phone number or by dialing in using the identification numbers provided when joining online
3. One or more Straw Polls can be run for each presentation (no motions allowed)
	* Straw Poll will first be shown on the screen (after discussions as usual))
	* Chair will then copy the straw poll and display it via the conference call’s polling system
		1. A straw poll can allow either a single choice response or multiple choice responses (e.g., vote for as many as you like); single choice will be used by default unless presenter indicates otherwise
	* A Pop-Up window with the SP will appear for each member that is online
		1. The Chair will remind members to cast their vote and will announce the end of the vote, after which no more voting can take place
		2. Members are invited to cast their vote in a timely fashion, othwerise they will miss the window of vote and be unable to cast their vote
		3. Choose carefully! The system will not allow a vote to be changed once the vote has been submitted, even if the SP is still open for voting
		4. After a reasonable time (1 min or so) the chair will close the poll
	* The Outcome of the SP is reported to the group and will be noted in the meeting minutes, as usual
		1. Note 1: Votes cast by unidentified members may be removed, so please ensure that name and affiliation are correct
		2. Note 2: Voting results will be provided in the minutes. Individual votes will be included in the minutes if a member calls for a roll call, although such information will be traced, whenever possible, by the chair so that it can be shared with the WG leadership upon request. Members can send an e-mail to the chair to request for a copy of the individual votes.

Note 1: Note that where a group of individuals is attending in common through a single dial in, there is only one vote available and therefore, all participants who wish to vote need to individually sign into the meeting to be included in the participant list.

Note 2: 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: