IEEE P802.11  
Wireless LANs

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| TGbe 2019 December and January teleconference agendas | | | | | |
| Date: 2019-11-22 | | | | | |
| Author(s): | | | | | |
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Abstract

This document contains the draft agenda for December 2019 and January 2020 TGbe teleconferences.

Revisions:

* Rev 0: Initial version of the document.
* Rev 1: Specified that Webex meeting number is to be obtained from the meeting invites.
* Rev 2: Updated version of the document that includes modifications prior to the first call.
* Rev 3: Updated with changes after the first conf call. Added the list of technical submissions to be discussed in the second conf call.
* Rev 4: Updated with changes prior to the second conference call.
* Rev 5: Updated with changes after the second conference calls (both PHY and MAC).
* Rev 6: Updated agenda with addition of the list of technical submissions to be discussed in the third conference call.
* Rev 7: Fixed allocation for misallocated submissions for the MAC conf call.
* Rev 8: Accounted for two deferral requests and a re-allocation of a submission that was missed.
* Rev 9: Includes additional modifications to the agenda as per requests.
* Rev 10: Includes changes that were missed from requests in Rev 9.
* Rev 11: Updated agenda with the addition of technical submissions to be discussed in the last conference call.
* Rev 12: Includes additional modifications to the agenda as per requests.
* Rev 13: Updated with changes after the last conference call.

## Teleconferences Overview

TGbe will hold 4 teleconferences before the January 2020 F2F for discussing technical presentations:

* **December 5 (Thursday), 19:00-22:00 ET JOINT**
* **December 12 (Thursday), 10:00-13:00 ET MAC/PHY**
* **December 19 (Thursday), 19:00-22:00 ET MAC/PHY**
* **January 9 (Thursday), 10:00-13:00 ET MAC/PHY**

**We’ll use the following bridges:**

* join.me bridge for **JOINT and MAC**: <https://join.me/ieee802.11>,

see <http://grouper.ieee.org/groups/802/11/joinme.html> for more detailed instructions.

* Webex bridge for **PHY**: [Join](https://www.google.com/url?q=https://ieee802.my.webex.com/ieee802.my/j.php?MTID%3Dm00a99d0a1c5281f7990471ffa926a576&sa=D&usd=2&usg=AOvVaw0POP2t-u7A6bqPQqHOxxgr),
  + <https://ieee802.my.webex.com/ieee802.my/j.php?MTID=m00a99d0a1c5281f7990471ffa926a576>)
  + Meeting number: ***Refer to meeting invites.***
  + Meeting password: wireless
  + Join by phone: +1-510-338-9438 USA Toll; +44-20-3198-8144 UK Toll; Access code: 790 253 041.

## Technical Presentations’ List

* 80 submissions in the queue.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **DCN** | **Title** | **Author** | **Status** | **Topic** | **Session** |
| [1497r1](https://mentor.ieee.org/802.11/dcn/19/11-19-1497-01-00be-auto-detection-in-11be.pptx) | Auto-detection in 11be | Si-Chan Noh | DONE (F2F) | PHY | PHY |
| [1579r1](https://mentor.ieee.org/802.11/dcn/19/11-19-1579-01-00be-adapting-the-11be-channel-model-to-modern-doppler-use-cases.pptx) | Adapting be chan. Mod. to modern (Doppl.) use cases | Shimi Shilo | Presented | PHY | PHY |
| [1606r0](https://mentor.ieee.org/802.11/dcn/19/11-19-1606-00-00be-preamble-puncturing-and-sig-b-signaling.pptx) | Preamble Puncturing and SIG-B Signaling | John Son | Presented | PHY | PHY |
| [1867r0](https://mentor.ieee.org/802.11/dcn/19/11-19-1867-00-00be-performance-comparisons-for-ltf-designs-for-eht.pptx) | Performance Comparison of LTF Designs for EHT | Sameer Vermani | Presented | PHY | PHY |
| [1868r2](https://mentor.ieee.org/802.11/dcn/19/11-19-1868-02-00be-signaling-support-for-multi-ru-assignment.pptx) | Signaling support for multi-RU assignment | Lei Huang | Presented | PHY | PHY |
| [1869r0](https://mentor.ieee.org/802.11/dcn/19/11-19-1869-00-00be-preamble-puncturing-and-ru-aggregation.pptx) | Preamble puncturing and RU aggregation | Bin Tian | Presented | PHY | PHY |
| [1872r](https://mentor.ieee.org/802.11/dcn/19/11-19-1872-01-00be-joint-mu-analysis-simulations.pptx)1 | Joint MU Analysis & Simulations | Sudhir Srinivasa | Presented | PHY | PHY |
| [1890r0](https://mentor.ieee.org/802.11/dcn/19/11-19-1890-00-00be-phase-rotation-follow-up.pptx) | Phase Rotation Follow-up | Eunsung Park | Presented | PHY | PHY |
| [1907r0](https://mentor.ieee.org/802.11/dcn/19/11-19-1907-00-00be-multiple-ru-combinations-for-eht.pptx) | Multiple RU Combinations for EHT | Jianhan Liu | Presented | PHY | PHY |
| [1908r0](https://mentor.ieee.org/802.11/dcn/19/11-19-1908-00-00be-multi-ru-support.pptx) | Multi-Ru Support | Ron Porat | Presented | PHY | PHY |
| [1911r0](https://mentor.ieee.org/802.11/dcn/19/11-19-1911-00-00be-11be-channelization-discussion.pptx) | 11be channelization discussion | Si-Chan Noh | Presented | PHY | PHY |
| [1914](https://mentor.ieee.org/802.11/dcn/19/11-19-1914-01-00be-multiple-ru-discussion.pptx)[r1](https://mentor.ieee.org/802.11/dcn/19/11-19-1914-00-00be-multiple-ru-discussion.pptx) | Multiple RU discussion | Ross Jian Yu | Presented | PHY | PHY |
| [1925r0](https://mentor.ieee.org/802.11/dcn/19/11-19-1925-00-00be-consideration-of-eht-ltf.pptx) | Consideration of EHT-LTF | Jinmin Kim | Reschedule  Jan F2F | PHY | PHY |
| [1926r0](https://mentor.ieee.org/802.11/dcn/19/11-19-1926-00-00be-dynamic-thresholds-for-channel-bonding.pptx) | Dynamic thresholds for channel bonding | Leonardo Lanante Jr | Presented | PHY | PHY |
| [1934r0](https://mentor.ieee.org/802.11/dcn/19/11-19-1934-00-00be-precoding-performance-using-implicit-channel-estimation.pptx) | Precoding perf. using implicit channel estimation | Sigurd Schelstraete | Presented | PHY | PHY |
| [1981r0](https://mentor.ieee.org/802.11/dcn/19/11-19-1981-00-00be-phase-rotations-design-for-eht.pptx) | Phase Rotations Design for EHT | Dandan Liang | Presented | PHY | PHY |
|  | | | | | |
| [1652r1](https://mentor.ieee.org/802.11/dcn/19/11-19-1652-01-00be-multi-ap-transmission-procedure.pptx) | Multi-ap-transmission-procedure | Sang Sun | Presented | Multi AP | JOINT |
| [1779r3](https://mentor.ieee.org/802.11/dcn/19/11-19-1779-03-00be-downlink-spatial-reuse-parameter-framework-with-coordinated-beamforming-null-steering-for-802-11be.pptx) | Downlink spatial reuse parameter framework with coordinated beamforming/null steering for 11be | David Lopez-Perez | Reschedule  Jan F2F | Multi AP | JOINT |
| [1788r0](https://mentor.ieee.org/802.11/dcn/19/11-19-1788-00-00be-coordinated-ofdma-operation.pptx) | Coordinated-ofdma-operation | Yongho Seok | Presented | Multi AP | JOINT |
| [1879r0](https://mentor.ieee.org/802.11/dcn/19/11-19-1879-00-00be-coordinated-ap-time-and-frequency-sharing-gain-analysis.pptx) | Coord. AP Time & Frequency Sharing Gain Analysis | Lochan Verma | Presented | Multi AP | JOINT |
| [1895r0](https://mentor.ieee.org/802.11/dcn/19/11-19-1895-00-00be-setup-for-multi-ap-coordination.pptx) | Setup for Multi-AP coordination | Sungjin Park | Presented | Multi AP | JOINT |
| [1903r0](https://mentor.ieee.org/802.11/dcn/19/11-19-1903-00-00be-uplink-coordinated-multi-ap.pptx) | Uplink Coordinated Multi-AP | Roya Doostnejad | Pending | Multi AP | JOINT |
| [1909r0](https://mentor.ieee.org/802.11/dcn/19/11-19-1909-00-00be-performance-of-jt-with-wireless-backhaul.pptx) | Performance of JT with Wireless Backhaul | Ron Porat | Presented | Multi AP | JOINT |
| [1919r0](https://mentor.ieee.org/802.11/dcn/19/11-19-1919-00-00be-coordinated-ofdma.pptx) | Coordinated OFDMA | Liwen Chu | Pending | Multi AP | JOINT |
| [1931r0](https://mentor.ieee.org/802.11/dcn/19/11-19-1931-00-00be-multi-ap-group-formation-follow-up.pptx) | Multi-AP group formation follow-up | Cheng Chen | Pending | Multi AP | JOINT |
| [1961r0](https://mentor.ieee.org/802.11/dcn/19/11-19-1961-00-00be-multi-ap-group-establishment.pptx) | Multi-ap-group-establishment | SangSun | Pending | Multi AP | JOINT |
| [1972r1](https://mentor.ieee.org/802.11/dcn/19/11-19-1972-01-00be-operation-of-virtual-bss-architecture-for-multi-ap-coordination.pptx) | Operation of virtual BSS Arch. for Multi-AP Coord. | Guogang Huang | Pending | Multi AP | JOINT |
| 1979r0 | UL Coord. 4 Throughput Improvement and Interference Reduction | Genady Tsodik | Pending | Multi AP | JOINT |
|  | | | | | |
| [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 Lat | MAC |
| [1938r0](https://mentor.ieee.org/802.11/dcn/19/11-19-1938-00-00be-discussion-on-low-latency-capability-for-802-11be.pptx) | Discussion on low latency capability for 802.11be | Kazuyuki Sakoda | Pending | Low Lat | MAC |
| [1942r3](https://mentor.ieee.org/802.11/dcn/19/11-19-1942-03-00be-timing-measurement-for-low-latency-features.pptx) | Timing Measurement for Low Latency Features | Akira Kishida | Pending | Low Lat | MAC |
| [1960r1](https://mentor.ieee.org/802.11/dcn/19/11-19-1960-01-00be-reducing-channel-access-delay-for-rta-traffic.pptx) | Reducing Channel Access Delay for RTA Traffic | Mohamed Abouelseoud | Pending | Low Lat | MAC |
|  | | | | | |
| [1877r0](https://mentor.ieee.org/802.11/dcn/19/11-19-1877-00-00be-16-spatial-stream-support.pptx) | 16 Spatial Stream Support | Wook Bong Lee | Presented | MIMO | PHY |
| [1910r1](https://mentor.ieee.org/802.11/dcn/19/11-19-1910-01-00be-p-matrices-to-support-more-than-8-tx-chains.pptx) | P matrices to support more than 8 TX chains | Miguel López | Reschedule  Jan F2F | MIMO | PHY |
| [1939r0](https://mentor.ieee.org/802.11/dcn/19/11-19-1939-00-00be-calibration-of-implicit-sounding.pptx) | Calibration of Implicit Sounding | Lily Yunping Lyu | Presented | MIMO | PHY |
| [1980](https://mentor.ieee.org/802.11/dcn/19/11-19-1980-00-00be-eht-p-matrices-discussion.pptx)[r1](https://mentor.ieee.org/802.11/dcn/19/11-19-1980-01-00be-eht-p-matrices-discussion.pptx) | EHT P matrices Discussion | Dandan Liang | Presented | MIMO | PHY |
|  | | | | | |
| [1528r2](https://mentor.ieee.org/802.11/dcn/19/11-19-1528-02-00be-multi-link-operation-link-management.pptx) | Multi-Link Operation - Link Management | Abhishek Patil | Presented | Multi Link | MAC |
| [1532r1](https://mentor.ieee.org/802.11/dcn/19/11-19-1532-01-00be-discussion-on-multi-link-acknowledgement.pptx) | Discussion on Multi-link Acknowledgement | Ryuichi Hirata | Presented | Multi Link | MAC |
| [1541r1](https://mentor.ieee.org/802.11/dcn/19/11-19-1541-01-00be-performance-aspects-of-multi-link-operations-with-constraints.pptx) | Performance aspects of multi link op with constraints | Dmitry Akhmetov | Presented | Multi Link | MAC |
| [1544r0](https://mentor.ieee.org/802.11/dcn/19/11-19-1544-00-00be-multi-link-power-save-operation.pptx) | Multi-link power save operation | Minyoung Park | Presented | Multi Link | MAC |
| [1546r0](https://mentor.ieee.org/802.11/dcn/19/11-19-1546-00-00be-legacy-performance-impact-on-multi-link-operation.pptx) | Legacy Performance Impact on Multi-link Operation | Yongho Seok | Presented | Multi Link | MAC |
| [1548r1](https://mentor.ieee.org/802.11/dcn/19/11-19-1548-01-00be-channel-access-design-for-synchronized-multi-links.pptx) | Channel access design for synchronized multi-links | Yunbo Li | Presented | Multi Link | MAC |
| [1549r1](https://mentor.ieee.org/802.11/dcn/19/11-19-1549-01-00be-multi-link-association.pptx) | Multi-link association | Yunbo Li | Presented | Multi Link | MAC |
| [1568r2](https://mentor.ieee.org/802.11/dcn/19/11-19-1568-02-00be-further-discussion-on-multi-link-operations.pptx) | Further Discussion on Multi-link Operations | Xiaofei WANG | Presented | Multi Link | MAC |
| [1583r0](https://mentor.ieee.org/802.11/dcn/19/11-19-1583-00-00be-multi-link-bss-operations.pptx) | Multi-Link BSS Operations | Jarkko Kneckt | Presented | Multi Link | MAC |
| [1591r2](https://mentor.ieee.org/802.11/dcn/19/11-19-1591-02-00be-ba-setup-for-multi-link-aggregation.pptx) | BA setup for multi-link Aggregation | Jason Yuchen Guo | Presented | Multi Link | MAC |
| [1614r0](https://mentor.ieee.org/802.11/dcn/19/11-19-1614-00-00be-multi-link-setup-procedure.pptx) | Multi-link setup procedure | Hanseul Hong | Withdrawn | Multi Link | MAC |
| [1617r1](https://mentor.ieee.org/802.11/dcn/19/11-19-1617-01-00be-multi-link-power-save.pptx) | Multi-link power save | Liwen Chu | Presented | Multi Link | MAC |
| [1550r](https://mentor.ieee.org/802.11/dcn/19/11-19-1550-01-00be-simultaneous-tx-rx-capability-indication-for-multi-link-operation.pptx)1 | Simultaneous Tx/Rx Cap. indication 4 multi-link op. | Yifan Zhou | Presented | Multi Link | MAC |
| [1547r2](https://mentor.ieee.org/802.11/dcn/19/11-19-1547-02-00be-multi-link-operation-and-channel-access-discussion.pptx) | Multi-link-operation-and-channel-access-discussion | Kaiying Lu | Reschedule  Jan F2F | Multi Link | MAC |
| [1615r1](https://mentor.ieee.org/802.11/dcn/19/11-19-1615-01-00be-multi-band-multi-channel-operation-for-low-latency-and-jitter.pptx) | Multi-band/Multi-channel Op. for Low Lat. and Jitter | Liuming Lu | Presented | Multi Link | MAC |
| [1633r1](https://mentor.ieee.org/802.11/dcn/19/11-19-1633-01-00be-performance-and-fairness-of-multi-link-operations.pptx) | Performance and Fairness of Multi-link Operations | Wisnu Murti | Presented | Multi Link | MAC |
| [1678r0](https://mentor.ieee.org/802.11/dcn/19/11-19-1678-00-00be-multiple-links-asynchronous-and-synchronous-transmission.pptx) | Multiple-links-asynchronous-and-synchronous-tx | Alan Jauh | Presented | Multi Link | MAC |
| [1822r0](https://mentor.ieee.org/802.11/dcn/19/11-19-1822-00-00be-multi-link-security-consideration.pptx) | Multi-link security consideration | Po-Kai Huang | Presented | Multi Link | MAC |
| [1823r0](https://mentor.ieee.org/802.11/dcn/19/11-19-1823-00-00be-multi-link-setup-follow-up.pptx) | Multi-link setup follow up | Po-Kai Huang | Presented | Multi Link | MAC |
| [1836r0](https://mentor.ieee.org/802.11/dcn/19/11-19-1836-00-00be-multi-link-channel-access-follow-up.pptx) | Multi-link Channel Access Follow-up | Sharan Naribole | Reschedule  Jan F2F | Multi Link | MAC |
| [1856r0](https://mentor.ieee.org/802.11/dcn/19/11-19-1856-00-00be-a-mpdu-and-ba.pptx) | A-MPDU and BA | Liwen Chu | Presented | Multi Link | MAC |
| [1857r0](https://mentor.ieee.org/802.11/dcn/19/11-19-1857-00-00be-multilink-power-save-followup.pptx) | Multiple link power save followup | Liwen Chu | Presented | Multi Link | MAC |
| [1887r0](https://mentor.ieee.org/802.11/dcn/19/11-19-1887-00-00be-multi-link-acknowledgement.pptx) | Multi-link Acknowledgement | Taewon Song | Presented | Multi Link | MAC |
| [1899r1](https://mentor.ieee.org/802.11/dcn/19/11-19-1899-01-00be-mla-mac-addresses-considerations.pptx) | MLA MAC Addresses considerations | Duncan Ho | Pending | Multi Link | MAC |
| [1900r1](https://mentor.ieee.org/802.11/dcn/19/11-19-1900-01-00be-mla-security-considerations.pptx) | MLA-security-considerations | Duncan Ho | Pending | Multi Link | MAC |
| [1904r0](https://mentor.ieee.org/802.11/dcn/19/11-19-1904-00-00be-mlo-link-management-follow-up.pptx) | MLO: Link Management (follow-up) | Abhishek Patil | Pending | Multi Link | MAC |
| [1917r0](https://mentor.ieee.org/802.11/dcn/19/11-19-1917-00-00be-considerations-for-multi-link-channel-access-without-simultaneous-tx-rx-capability.pptx) | Considerations for multi-link channel access without simultaneous TX/RX capability | Insun Jang | Pending | Multi Link | MAC |
| [1918r0](https://mentor.ieee.org/802.11/dcn/19/11-19-1918-00-00be-ul-mu-efficiency-enhancement-using-multi-link.pptx) | UL MU effic. enhancement considering multi-link | Jeongki Kim | Pending | Multi Link | MAC |
| 1920r0 | Power Save for Multi-link | Ming Gan | Pending | Multi Link | MAC |
| [1921r0](https://mentor.ieee.org/802.11/dcn/19/11-19-1921-00-00be-multi-link-architecture.pptx) | Multi-link architecture | Ming Gan | Pending | Multi Link | MAC |
| [1924r0](https://mentor.ieee.org/802.11/dcn/19/11-19-1924-00-00be-multilink-steps-for-using-a-link.pptx) | Multilink – steps for using a link | Laurent Cariou | Pending | Multi Link | MAC |
| [1927r0](https://mentor.ieee.org/802.11/dcn/19/11-19-1927-00-00be-multi-link-operation-simulation-methodology.pptx) | Multi-link-operation-simulation-methodology | Yongho Seok | Pending | Multi Link | MAC |
| [1928r0](https://mentor.ieee.org/802.11/dcn/19/11-19-1928-00-00be-multi-link-operation-performance-evaluation.pptx) | Multi-link-operation-performance-evaluation | Yongho Seok | Pending | Multi Link | MAC |
| [1930r1](https://mentor.ieee.org/802.11/dcn/19/11-19-1930-01-00be-ap-assisted-multi-link-operation.pptx) | AP assisted Multi-link operation | Dibakar Das | Pending | Multi Link | MAC |
| [1932r0](https://mentor.ieee.org/802.11/dcn/19/11-19-1932-00-00be-multi-link-policy-framework.pptx) | Multi-link policy framework | Cheng Chen | Pending | Multi Link | MAC |
| [1943r0](https://mentor.ieee.org/802.11/dcn/19/11-19-1943-00-00be-multi-link-management.pptx) | Multi-link Management | Taewon Song | Pending | Multi Link | MAC |
| [1962r0](https://mentor.ieee.org/802.11/dcn/19/11-19-1962-00-00be-multi-link-upper-mac-entity-instance-new-frame-mac-header.pptx) | Multi-Link Upper-MAC Entity Instance & New Frame MAC Header | Huizhao Wang | Pending | Multi Link | MAC |
| [1963r0](https://mentor.ieee.org/802.11/dcn/19/11-19-1963-00-00be-multi-link-security-and-aggregation-operations.pptx) | Multi-Link Security And Aggregation Operations | Huizhao Wang | Pending | Multi Link | MAC |
| 1993r0 | Discussion about single and multiple primary channels in synchronous multi-link | Yunbo Li | Pending | Multi Link | MAC |
| [2071r0](https://mentor.ieee.org/802.11/dcn/19/11-19-2071-00-00be-performance-evaluation-of-multi-link-channel-access-schemes.pptx) | Perf. eval. of Multi-link channel access schemes | Sindhu Verma | Pending | Multi Link | MAC |
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| [1604r0](https://mentor.ieee.org/802.11/dcn/19/11-19-1604-00-00be-eht-direct-link-transmission.pptx) | EHT Direct Link Transmission | Dibakar Das | Pending | MAC | MAC |
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| [1858r0](https://mentor.ieee.org/802.11/dcn/19/11-19-1858-00-00be-harq-system-level-simulation-results.pptx) | HARQ System Level Simulation Results | Sebastian Max | Reschedule  Jan F2F | HARQ | JOINT |
| [1923r0](https://mentor.ieee.org/802.11/dcn/19/11-19-1923-00-00be-revisiting-harq-complexity.pptx) | Revisiting HARQ Complexity | Shimi Shilo | Presented | HARQ | JOINT |
| 1952r0 | HARQ performance | Wook Bong Lee | Withdrawn | HARQ | JOINT |
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## Teleconference Agendas

### 1st Conf. Call: December 5th (19:00–22:00 ET)–JOINT

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

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

* Attendance reminder.
  + Participation slide: <https://mentor.ieee.org/802-ec/dcn/16/ec-16-0180-05-00EC-ieee-802-participation-slide.pptx>
  + Please send an e-mail to Dennis Sundman ([dennis.sundman@ericsson.com](mailto:dennis.sundman@ericsson.com)) and Alfred Asterjadhi ([aasterja@qti.qualcomm.com](mailto:aasterja@qti.qualcomm.com))
* Announcements: Chair mentions that the rest of conf calls are split between PHY&MAC
* Technical Submissions:
  + [1923r0](https://mentor.ieee.org/802.11/dcn/19/11-19-1923-00-00be-revisiting-harq-complexity.pptx)- Revisiting HARQ Complexity (Shimi Shilo)
  + [1652r1](https://mentor.ieee.org/802.11/dcn/19/11-19-1652-01-00be-multi-ap-transmission-procedure.pptx)- Multi-ap-transmission-procedure (Sang Sun)
  + [1788r0](https://mentor.ieee.org/802.11/dcn/19/11-19-1788-00-00be-coordinated-ofdma-operation.pptx)- Coordinated-ofdma-operation (Yongho Seok)
  + [1879r0](https://mentor.ieee.org/802.11/dcn/19/11-19-1879-00-00be-coordinated-ap-time-and-frequency-sharing-gain-analysis.pptx)- Coord. AP Time & Frequency Sharing Gain Analysis (Lochan Verma)
  + [1895r0](https://mentor.ieee.org/802.11/dcn/19/11-19-1895-00-00be-setup-for-multi-ap-coordination.pptx)- Setup for Multi-AP coordination (Sungjin Park)
  + [1903r0](https://mentor.ieee.org/802.11/dcn/19/11-19-1903-00-00be-uplink-coordinated-multi-ap.pptx)- Uplink Coordinated Multi-AP (Roya Doostnejad)
  + [1909r0](https://mentor.ieee.org/802.11/dcn/19/11-19-1909-00-00be-performance-of-jt-with-wireless-backhaul.pptx)- Performance of JT with Wireless Backhaul (Ron Porat)

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* + [1919r0](https://mentor.ieee.org/802.11/dcn/19/11-19-1919-00-00be-coordinated-ofdma.pptx)- Coordinated OFDMA (Liwen Chu)
  + [1931r0](https://mentor.ieee.org/802.11/dcn/19/11-19-1931-00-00be-multi-ap-group-formation-follow-up.pptx)- Multi-AP group formation follow-up (Cheng Chen)
  + [1961r0](https://mentor.ieee.org/802.11/dcn/19/11-19-1961-00-00be-multi-ap-group-establishment.pptx)- Multi-ap-group-establishment (SangSun)
* AoB: None.
* Adjourn

### 2nd Conf. Call: December 12th (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](mailto:patcom@ieee.org)); or
    - Provide the chair of this group with the identity of the holder(s) of any and all such claims as soon as possible; or
    - Speak up now and respond to this Call for Potentially Essential Patents

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

* Attendance reminder.
  + Participation slide: <https://mentor.ieee.org/802-ec/dcn/16/ec-16-0180-05-00EC-ieee-802-participation-slide.pptx>
  + Please send an e-mail to Liwen Chu ([liwenchu@marvell.com](mailto:liwenchu@marvell.com)) and Jeongki Kim ([jeongki.kim@lge.com](mailto:jeongki.kim@lge.com))
* Announcements: None.
* Technical Submissions:
  + [1528r2](https://mentor.ieee.org/802.11/dcn/19/11-19-1528-02-00be-multi-link-operation-link-management.pptx)-Multi-Link Operation - Link Management (Abhishek Patil)
  + [1541r1](https://mentor.ieee.org/802.11/dcn/19/11-19-1541-01-00be-performance-aspects-of-multi-link-operations-with-constraints.pptx)-Performance aspects of multi link op with constraints (Dmitry Akhmetov)
  + [1544r0](https://mentor.ieee.org/802.11/dcn/19/11-19-1544-00-00be-multi-link-power-save-operation.pptx)-Multi-link power save operation (Minyoung Park)
  + [1546r0](https://mentor.ieee.org/802.11/dcn/19/11-19-1546-00-00be-legacy-performance-impact-on-multi-link-operation.pptx)-Legacy Performance Impact on Multi-link Operation (Yongho Seok)
  + [1548r1](https://mentor.ieee.org/802.11/dcn/19/11-19-1548-01-00be-channel-access-design-for-synchronized-multi-links.pptx)-Channel access design for synchronized multi-links (Yunbo Li)

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* + [1549r0](https://mentor.ieee.org/802.11/dcn/19/11-19-1549-00-00be-multi-link-association.pptx)-Multi-link association (Yunbo Li)
  + [1568r2](https://mentor.ieee.org/802.11/dcn/19/11-19-1568-02-00be-further-discussion-on-multi-link-operations.pptx)-Further Discussion on Multi-link Operations (Xiaofei WANG)
  + [1583r0](https://mentor.ieee.org/802.11/dcn/19/11-19-1583-00-00be-multi-link-bss-operations.pptx)-Multi-Link BSS Operations (Jarkko Kneckt)
  + [1591r1](https://mentor.ieee.org/802.11/dcn/19/11-19-1591-01-00be-ba-setup-for-multi-link-aggregation.pptx)-BA setup for multi-link Aggregation (Jason Yuchen Guo)
  + [1614r0](https://mentor.ieee.org/802.11/dcn/19/11-19-1614-00-00be-multi-link-setup-procedure.pptx)-Multi-link setup procedure (Hanseul Hong)
* AoB: None.
* Adjourn

### 2nd Conf. Call: December 12th (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](mailto:patcom@ieee.org)); or
    - Provide the chair of this group with the identity of the holder(s) of any and all such claims as soon as possible; or
    - Speak up now and respond to this Call for Potentially Essential Patents

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* Attendance reminder.
  + Participation slide: <https://mentor.ieee.org/802-ec/dcn/16/ec-16-0180-05-00EC-ieee-802-participation-slide.pptx>
  + Please send an e-mail to Sigurd Schelstraete ([sschelstraete@quantenna.com](mailto:sschelstraete@quantenna.com)) and Tianyu Wu ([tianyu@apple.com](mailto:tianyu@apple.com))
* Announcements: None.
* Technical Submissions:
  + [1911r0](https://mentor.ieee.org/802.11/dcn/19/11-19-1911-00-00be-11be-channelization-discussion.pptx)-11be channelization discussion (Si-Chan Noh)
  + [1579r1](https://mentor.ieee.org/802.11/dcn/19/11-19-1579-01-00be-adapting-the-11be-channel-model-to-modern-doppler-use-cases.pptx)-Adapting be chan. Mod. to modern (Doppl.) use cases (Shimi Shilo)
  + [1606r0](https://mentor.ieee.org/802.11/dcn/19/11-19-1606-00-00be-preamble-puncturing-and-sig-b-signaling.pptx)-Preamble Puncturing and SIG-B Signaling (John Son)
  + [1867r0](https://mentor.ieee.org/802.11/dcn/19/11-19-1867-00-00be-performance-comparisons-for-ltf-designs-for-eht.pptx)-Performance Comparison of LTF Designs for EHT (Sameer Vermani)
  + [1868r1](https://mentor.ieee.org/802.11/dcn/19/11-19-1868-01-00be-signaling-support-for-multi-ru-assignment.pptx)-Signaling support for multi-RU assignment (Lei Huang)
  + [1869r0](https://mentor.ieee.org/802.11/dcn/19/11-19-1869-00-00be-preamble-puncturing-and-ru-aggregation.pptx)-Preamble puncturing and RU aggregation (Bin Tian)
  + [1907r0](https://mentor.ieee.org/802.11/dcn/19/11-19-1907-00-00be-multiple-ru-combinations-for-eht.pptx)-Multiple RU Combinations for EHT (Jianhan Liu)
  + [1908r0](https://mentor.ieee.org/802.11/dcn/19/11-19-1908-00-00be-multi-ru-support.pptx)-Multi-Ru Support (Ron Porat)

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* + [1872r0](https://mentor.ieee.org/802.11/dcn/19/11-19-1872-00-00be-joint-mu-analysis-simulations.pptx)-Joint MU Analysis & Simulations (Sudhir Srinivasa)
  + [1890r0](https://mentor.ieee.org/802.11/dcn/19/11-19-1890-00-00be-phase-rotation-follow-up.pptx)-Phase Rotation Follow-up (Eunsung Park)
* AoB: None.
* Adjourn

### 3rd Conf. Call: December 19th (19:00–22:00 ET)–MAC

* Call the meeting to order
* IEEE 802 and 802.11 IPR policy and procedure
  + **Patent Policy: Ways to inform IEEE:**
    - Cause an LOA to be submitted to the IEEE-SA ([patcom@ieee.org](mailto:patcom@ieee.org)); or
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* Attendance reminder.
  + Participation slide: <https://mentor.ieee.org/802-ec/dcn/16/ec-16-0180-05-00EC-ieee-802-participation-slide.pptx>
  + Please send an e-mail to Liwen Chu ([liwenchu@marvell.com](mailto:liwenchu@marvell.com)) and Jeongki Kim ([jeongki.kim@lge.com](mailto:jeongki.kim@lge.com))
* Announcements: None.
* Technical Submissions:
  + [1532r1](https://mentor.ieee.org/802.11/dcn/19/11-19-1532-01-00be-discussion-on-multi-link-acknowledgement.pptx)-Discussion on Multi-link Acknowledgement (Ryuichi Hirata)
  + [1549r1](https://mentor.ieee.org/802.11/dcn/19/11-19-1549-01-00be-multi-link-association.pptx)-Multi-link association (Yunbo Li)
  + [1568r2](https://mentor.ieee.org/802.11/dcn/19/11-19-1568-02-00be-further-discussion-on-multi-link-operations.pptx)-Further Discussion on Multi-link Operations (Xiaofei WANG)
  + [1583r0](https://mentor.ieee.org/802.11/dcn/19/11-19-1583-00-00be-multi-link-bss-operations.pptx)-Multi-Link BSS Operations (Jarkko Kneckt)
  + [1591r2](https://mentor.ieee.org/802.11/dcn/19/11-19-1591-02-00be-ba-setup-for-multi-link-aggregation.pptx)-BA setup for multi-link Aggregation (Jason Yuchen Guo)
  + [1617r1](https://mentor.ieee.org/802.11/dcn/19/11-19-1617-01-00be-multi-link-power-save.pptx)-Multi-link power save (Liwen Chu)
  + [1550r1](https://mentor.ieee.org/802.11/dcn/19/11-19-1550-01-00be-simultaneous-tx-rx-capability-indication-for-multi-link-operation.pptx)-Simultaneous Tx/Rx Cap. indication 4 multi-link op. (Yifan Zhou)
  + [1547r2](https://mentor.ieee.org/802.11/dcn/19/11-19-1547-02-00be-multi-link-operation-and-channel-access-discussion.pptx)-Multi-link-operation-and-channel-access-discussion (Kaiying Lu)
  + [1615r1](https://mentor.ieee.org/802.11/dcn/19/11-19-1615-01-00be-multi-band-multi-channel-operation-for-low-latency-and-jitter.pptx)-Multi-band/Multi-channel Op. for Low Lat. and Jitter (Liuming Lu)

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* + [1633r1](https://mentor.ieee.org/802.11/dcn/19/11-19-1633-01-00be-performance-and-fairness-of-multi-link-operations.pptx)-Performance and Fairness of Multi-link Operations (Wisnu Murti)
* AoB: None.
* Adjourn

### 3rd Conf. Call: December 19th (19:00–22:00 ET)–PHY

* Call the meeting to order
* IEEE 802 and 802.11 IPR policy and procedure
  + **Patent Policy: Ways to inform IEEE:**
    - Cause an LOA to be submitted to the IEEE-SA ([patcom@ieee.org](mailto:patcom@ieee.org)); or
    - Provide the chair of this group with the identity of the holder(s) of any and all such claims as soon as possible; or
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* Attendance reminder.
  + Participation slide: <https://mentor.ieee.org/802-ec/dcn/16/ec-16-0180-05-00EC-ieee-802-participation-slide.pptx>
  + Please send an e-mail to Sigurd Schelstraete ([sschelstraete@quantenna.com](mailto:sschelstraete@quantenna.com)) and Tianyu Wu ([tianyu@apple.com](mailto:tianyu@apple.com))
* Announcements: None
* Technical Submissions:
  + [1872r](https://mentor.ieee.org/802.11/dcn/19/11-19-1872-01-00be-joint-mu-analysis-simulations.pptx)1-Joint MU Analysis & Simulations (Sudhir Srinivasa)
  + [1890r0](https://mentor.ieee.org/802.11/dcn/19/11-19-1890-00-00be-phase-rotation-follow-up.pptx)-Phase Rotation Follow-up (Eunsung Park)
  + [1981r0](https://mentor.ieee.org/802.11/dcn/19/11-19-1981-00-00be-phase-rotations-design-for-eht.pptx)-Phase Rotations Design for EHT (Dandan Liang)
  + [1914](https://mentor.ieee.org/802.11/dcn/19/11-19-1914-01-00be-multiple-ru-discussion.pptx)[r](https://mentor.ieee.org/802.11/dcn/19/11-19-1914-00-00be-multiple-ru-discussion.pptx)1-Multiple RU discussion (Ross Jian Yu)
  + [1926r0](https://mentor.ieee.org/802.11/dcn/19/11-19-1926-00-00be-dynamic-thresholds-for-channel-bonding.pptx)-Dynamic thresholds for channel bonding (Leonardo Lanante Jr)
  + [1934r0](https://mentor.ieee.org/802.11/dcn/19/11-19-1934-00-00be-precoding-performance-using-implicit-channel-estimation.pptx)-Precoding perf. using implicit channel estimation (Sigurd Schelstraete)
  + [1939r0](https://mentor.ieee.org/802.11/dcn/19/11-19-1939-00-00be-calibration-of-implicit-sounding.pptx)-Calibration of Implicit Sounding (Lily Yunping Lyu)
  + [1877r0](https://mentor.ieee.org/802.11/dcn/19/11-19-1877-00-00be-16-spatial-stream-support.pptx)-16 Spatial Stream Support (Wook Bong Lee)

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* + [1910r0](https://mentor.ieee.org/802.11/dcn/19/11-19-1910-00-00be-p-matrices-to-support-more-than-8-tx-chains.pptx)-P matrices to support more than 8 TX chains (Miguel López)
  + [1980r0](https://mentor.ieee.org/802.11/dcn/19/11-19-1980-00-00be-eht-p-matrices-discussion.pptx)-EHT P matrices Discussion (Dandan Liang)
* AoB: None.
* Adjourn

### 4th Conf. Call: January 9th (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](mailto:patcom@ieee.org)); or
    - Provide the chair of this group with the identity of the holder(s) of any and all such claims as soon as possible; or
    - Speak up now and respond to this Call for Potentially Essential Patents

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* Attendance reminder.
  + Participation slide: <https://mentor.ieee.org/802-ec/dcn/16/ec-16-0180-05-00EC-ieee-802-participation-slide.pptx>
  + Please send an e-mail to Liwen Chu ([liwenchu@marvell.com](mailto:liwenchu@marvell.com)) and Jeongki Kim ([jeongki.kim@lge.com](mailto:jeongki.kim@lge.com))
* Announcements: None.
* Technical Submissions:
  + [1633r1](https://mentor.ieee.org/802.11/dcn/19/11-19-1633-01-00be-performance-and-fairness-of-multi-link-operations.pptx)-Performance and Fairness of Multi-link Operations (Wisnu Murti)
  + [1678r0](https://mentor.ieee.org/802.11/dcn/19/11-19-1678-00-00be-multiple-links-asynchronous-and-synchronous-transmission.pptx)-Multiple-links-asynchronous-and-synchronous-tx (Alan Jauh)
  + [1822r](https://mentor.ieee.org/802.11/dcn/19/11-19-1822-01-00be-multi-link-security-consideration.pptx)1-Multi-link security consideration (Po-Kai Huang)
  + [1823r](https://mentor.ieee.org/802.11/dcn/19/11-19-1823-01-00be-multi-link-setup-follow-up.pptx)1-Multi-link setup follow up (Po-Kai Huang)
  + [1856r](https://mentor.ieee.org/802.11/dcn/19/11-19-1856-01-00be-a-mpdu-and-ba.pptx)1-A-MPDU and BA (Liwen Chu)
  + [1857r](https://mentor.ieee.org/802.11/dcn/19/11-19-1857-01-00be-multilink-power-save-followup.pptx)1-Multiple link power save followup (Liwen Chu)
  + [1887r0](https://mentor.ieee.org/802.11/dcn/19/11-19-1887-00-00be-multi-link-acknowledgement.pptx)-Multi-link Acknowledgement (Taewon Song)

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* + [1899r1](https://mentor.ieee.org/802.11/dcn/19/11-19-1899-01-00be-mla-mac-addresses-considerations.pptx)-MLA MAC Addresses considerations (Duncan Ho)
  + [1900r1](https://mentor.ieee.org/802.11/dcn/19/11-19-1900-01-00be-mla-security-considerations.pptx)-MLA-security-considerations (Duncan Ho)
* AoB: None
* Adjourn

### 4th Conf. Call: January 9th (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](mailto:patcom@ieee.org)); or
    - Provide the chair of this group with the identity of the holder(s) of any and all such claims as soon as possible; or
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* Attendance reminder.
  + Participation slide: <https://mentor.ieee.org/802-ec/dcn/16/ec-16-0180-05-00EC-ieee-802-participation-slide.pptx>
  + Please send an e-mail to Sigurd Schelstraete ([sschelstraete@quantenna.com](mailto:sschelstraete@quantenna.com)) and Tianyu Wu ([tianyu@apple.com](mailto:tianyu@apple.com))
* Announcements: None.
* Technical Submissions:
  + [1868r2](https://mentor.ieee.org/802.11/dcn/19/11-19-1868-02-00be-signaling-support-for-multi-ru-assignment.pptx)-Signaling support for multi-RU assignment (Lei Huang)
  + [1980r1](https://mentor.ieee.org/802.11/dcn/19/11-19-1980-01-00be-eht-p-matrices-discussion.pptx)-EHT P matrices Discussion (Dandan Liang)
* AoB: None.
* Adjourn

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## Teleconference Policies and Procedures

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

•       IEEE Code of Ethics

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

•       IEEE Standards Association (IEEE-SA) Affiliation FAQ

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

•       Antitrust and Competition Policy

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

•       IEEE-SA Patent Policy

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

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

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

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

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

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

•       Participation in IEEE 802 Meetings

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

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

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

## Guideline-Running StrawPolls

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

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

## References: