IEEE P802.11
Wireless LANs

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| TGbn November to January 2023 teleconference agendas |
| Date: 2023-11-26 |
| Author(s): |
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Abstract

This document contains the draft agenda for November 2023 to January 2024 TGbn teleconferences.

Revisions:

* Rev 0: Initial version of the document.
* Rev 1-2: Updated after 1st conf call, including new submissions requests and updated agenda for 2nd and 3rd conf calls.

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| **TG Chair:** Alfred Asterjadhi (Qualcomm Inc) |
| **1st Vice Chair:** Laurent Cariou (Intel) | **2nd Vice Chair:** Jianhan Liu (Mediatek) | **3rd Vice Chair:** Kiseon Ryu (NXP) |
| **Secretary:** Yusuke Asai (NTT) | **Technical Editor:** Ross Jian Yu (Huawei) |
| **PHY Ad-Hoc Chair: TBD****PHY Ad-Hoc Chair: TBD****PHY Ad-Hoc Chair: TBD** | **MAC Ad-Hoc Chair: TBD****MAC Ad-Hoc Chair: TBD****MAC Ad-Hoc Chair: TBD** |

## TGbn uses WebEx for its Telecons:

* Please identify yourself when Joining, by filling in your name and affiliation:
	+ Also please precede your name and affiliation with your voting status:
		- (V=Voter, N= Non-Voter, P=Potential Voter, A=Aspirant Voter)
	+ Format for overall participant’s detail: “[V] John Doe (Affiliation)”

## Teleconferences Overview

**Nov 27 (Monday) – Joint 19:00-21:00 ET**

**Nov 30 (Thursday) – Joint 10:00-12:00 ET**

**Dec 04 (Monday) – Joint 19:00-21:00 ET**

**Dec 07 (Thursday) – Joint 10:00-12:00 ET**

**Dec 11 (Monday) – Joint 19:00-21:00 ET**

**Dec 14 (Thursday) – Joint 10:00-12:00 ET**

**Dec 18 (Monday) – Joint 19:00-21:00 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

## Technical Submissions Queues

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **DCN** | **Title** | **Author** | **Status** | **Topic** | **Session** |
| [1888](https://mentor.ieee.org/802.11/dcn/23/11-23-1888-00-00bn-mac-header-protection-follow-up.pptx) | MAC Header Protection - follow-up | Abhishek Patil | Presented Pending SP | Security | Joint |
| [1908](https://mentor.ieee.org/802.11/dcn/23/11-23-1908-00-00bn-seamless-roaming-procedure.pptx) | Seamless Roaming Procedure | Yelin Yoon | PresentedPending SP | Roaming | Joint |
| 1914 | Enhanced Security Considerations in UHR | SunHee Baek | PresentedPending SP | Security | Joint |
| [1953](https://mentor.ieee.org/802.11/dcn/23/11-23-1953-00-00bn-two-dimensional-resource-allocation.pptx) | Two Dimensional Resource Allocation | Srinivas Kandala | PresentedPending SP | Preemption | Joint |
| [1954](https://mentor.ieee.org/802.11/dcn/23/11-23-1954-00-00bn-two-dimensional-a-ppdu.pptx) | Two Dimensional A-PPDU | Srini Kandala | PresentedPending SP | Preemption | Joint |
| [1832](https://mentor.ieee.org/802.11/dcn/23/11-23-1832-00-00bn-multi-ap-coordinated-spatial-reuse.pptx) | Multi-ap-coordinated-spatial-reuse | Hassan Omar | Presented | C-SR | Joint |
| [1834](https://mentor.ieee.org/802.11/dcn/23/11-23-1834-00-00bn-high-criticality-use-cases-and-requirements.pptx) | High Criticality Use Cases and Requirements | Iñaki Val Beitia | PendingDec/Thur | Use and Req. | Joint |
| [1836](https://mentor.ieee.org/802.11/dcn/23/11-23-1836-00-00bn-map-security-consideration.pptx) | MAP security consideration | Jay Yang | Pending | MAP-Security | Joint |
| [1837](https://mentor.ieee.org/802.11/dcn/23/11-23-1837-00-00bn-map-group-set-up-operation-discussion.pptx) | MAP group set-up operation discussion | Jay Yang | Pending | MAP-Grouping | Joint |
| [1840](https://mentor.ieee.org/802.11/dcn/23/11-23-1840-00-00bn-relay-for-11bn.pptx) | Relay for 11bn | Dongguk Lim | Pending | Relay | Joint |
| [1841](https://mentor.ieee.org/802.11/dcn/23/11-23-1841-00-00bn-considerations-on-bss-color-for-multi-ap.pptx) | Considerations on BSS color for Multi-AP | Hirohiko Inohiza | Pending | MAP-Grouping | Joint |
| [1843](https://mentor.ieee.org/802.11/dcn/23/11-23-1843-00-00bn-multi-ap-joint-transmission-simulations-with-impairments.pptx) | Multi-AP Joint Transmission Simulations with Impairments | Rainer Strobel | Pending | MAP-JT | Joint |
| [1844](https://mentor.ieee.org/802.11/dcn/23/11-23-1844-00-00bn-bsr-in-multi-ap.pptx) | BSR in Multi-AP | Pei Zhou | Pending | MAP-Feedback | Joint |
| [1846](https://mentor.ieee.org/802.11/dcn/23/11-23-1846-00-00bn-protection-of-extended-txop-sharing.pptx) | Protection of Extended TXOP Sharing | Si-Chan Noh | Pending | TXOP sharing | Joint |
| [1847](https://mentor.ieee.org/802.11/dcn/23/11-23-1847-00-00bn-non-ap-initiated-txop-sharing-follow-up.pptx) | Non-AP initiated TXOP sharing follow-up | Shawn Kim | Pending | TXOP sharing | Joint |
| [1865](https://mentor.ieee.org/802.11/dcn/23/11-23-1865-00-00bn-discussion-on-sst-and-a-ppdu.pptx) | Discussion on SST and A-PPDU | Ross Jian Yu | Pending | A-PPDU | Joint |
| [1868](https://mentor.ieee.org/802.11/dcn/23/11-23-1868-00-00bn-coordinated-spatial-reuse-design.pptx) | Coordinated-Spatial-Reuse-Design | Jason Yuchen Guo | Presented | C-SR | Joint |
| [1871](https://mentor.ieee.org/802.11/dcn/23/11-23-1871-00-00bn-m-ap-coordinated-transmission-framework.pptx) | M-AP Coordinated Transmission framework | Arik Klein | Pending | MAP | Joint |
| 1873 | Post-FCS MAC Padding | Sindhu Verma | Pending | Padding | Joint |
| 1874 | Reverse TXOP Sharing | Sindhu Verma | Pending | TXOP sharing | Joint |
| 1875 | Power save proposal for non-AP/mobile-AP | Shubhodeep Adhikari | Pending | Power Save | Joint |
| [1877](https://mentor.ieee.org/802.11/dcn/23/11-23-1877-00-00bn-analysis-on-the-ldpc-rate-matching.pptx) | Analysis on the LDPC rate matching | Xiaogang Chen | Pending | LDPC | Joint |
| 1884 | Seamless Roaming | Duncan Ho | Pending | Roaming | Joint |
| 1885 | End-to-end QoS with SCS | Duncan Ho | Pending(after 1958) | QoS | Joint |
| 1886 | Preemption techniques to meet low-latency (LL) targets | Duncan Ho | Pending | Preemption | Joint |
| 1887 |  Coordinated Medium Access for Multi-AP Deployments | Duncan Ho | Pending | MAP-CMA | Joint |
| 1889 | Considerations for Relay Operation in Next Generation Wi-Fi Networks | Peshal Nayak | Pending | Relay | Joint |
| 1891 | Nonprimary channel access – follow up | Gaurang Naik | Pending | SCA | Joint |
| 1892 | Thoughts on Dynamic Subchannel Operation | Gaurang Naik | Pending | SCA | Joint |
| 1897 | thoughts-on-improving-roaming-under-existing-architecture | Guogang Huang | Pending | Roaming | Joint |
| 1898 | signaling-details-for-non-colocated-ap-mld | Guogang Huang | Pending | NC-AP MLD | Joint |
| 1899 | relay-operation-for-11bn | Guogang Huang | Pending | Relay | Joint |
| [1906](https://mentor.ieee.org/802.11/dcn/23/11-23-1906-00-00bn-channel-information-feedback-for-smooth-beamforming-follow-up.pptx) | Channel Information Feedback for Smooth Beamforming - Follow Up | Eunsung Jeon | Pending | Beamforming | Joint |
| [1908](https://mentor.ieee.org/802.11/dcn/23/11-23-1908-00-00bn-seamless-roaming-procedure.pptx) | Seamless Roaming for 11bn | Yelin Yoon | Pending | Roaming | Joint |
| [1909](https://mentor.ieee.org/802.11/dcn/23/11-23-1909-00-00bn-transmission-method-of-low-latency-traffic.pptx) | Transmission Method of Low Latency Traffic | Insun Jang | Pending | Preemption | Joint |
| [1912](https://mentor.ieee.org/802.11/dcn/23/11-23-1912-00-00bn-coordinated-tdma-procedure.pptx) | Coordinated TDMA Procedure | GeonHwan Kim | Pending | C-TDMA | Joint |
| [1913](https://mentor.ieee.org/802.11/dcn/23/11-23-1913-00-00bn-secondary-channel-access-operation.pptx) | Secondary Channel Access Operation | Dongju Cha | Pending | SCA | Joint |
| [1915](https://mentor.ieee.org/802.11/dcn/23/11-23-1915-00-00bn-enhanced-security-for-control-frame-in-11bn.pptx) | Enhanced Security for Control frame in 11bn | SunHee Baek | Pending | Control Security | Joint |
| [1916](https://mentor.ieee.org/802.11/dcn/23/11-23-1916-00-00bn-r-twt-coordination-in-multi-bss.pptx) | R-TWT Coordination in Multi-BSS | SunHee Baek | Pending | C-RTWT | Joint |
| [1917](https://mentor.ieee.org/802.11/dcn/23/11-23-1917-00-00bn-coordinated-spatial-reuse.pptx) | Coordinated Spatial Reuse | Jinyoung Chun | Pending | C-SR | Joint |
| [1919](https://mentor.ieee.org/802.11/dcn/23/11-23-1919-00-00bn-dru-proposal.pptx) | dRU Proposal | Eunsung Park | Pending | DRU | Joint |
| [1920](https://mentor.ieee.org/802.11/dcn/23/11-23-1920-01-00bn-managed-networks-under-highly-congested-scenarios.pptx) | Managed Networks under highly congested scenarios | Iñaki Val Beitia | Pending | MAP | Joint |
| [1922](https://mentor.ieee.org/802.11/dcn/23/11-23-1922-00-00bn-multi-link-sm-power-save-mode.pptx) | Multi-Link-SM-Power-Save-Mode | Jason Yuchen Guo | Pending | Power Save | Joint |
| [1927](https://mentor.ieee.org/802.11/dcn/23/11-23-1927-00-00bn-update-of-the-spatial-modulation.pptx) | Update of the Spatial Modulation | Junghoon Suh | Pending | MIMO | Joint |
| 1928 | Considerations for Relay Operation in Next Generation Wi-Fi Networks - part 2 | Peshal Nayak | Pending | Relay | Joint |
| [1929](https://mentor.ieee.org/802.11/dcn/23/11-23-1929-00-00bn-peer-to-peer-p2p-resource-management.pptx) | Further considerations on coordinated TWT | Rubayet Shafin | Pending | C-RTWT | Joint |
| [1930](https://mentor.ieee.org/802.11/dcn/23/11-23-1930-00-00bn-a-non-collocated-ap-mld-framework-further-discussion.pptx) | A non-collocated AP MLD framework further discussion | Jay Yang | Pending | NC-AP MLD | Joint |
| 1933 | security enhancement follow up | Liwen Chu | Pending | Control Security | Joint |
| 1934 | in-device interference mitigation follow up | Liwen Chu | Pending | Coexistence | Joint |
| 1935 | secondary channel usage follow up | Liwen Chu | Pending | SCA | Joint |
| 1936 | AP MLD power save follow up | Liwen Chu | Pending | Power Save | Joint |
| [1937](https://mentor.ieee.org/802.11/dcn/23/11-23-1937-00-00bn-smooth-roaming-follow-up-1.pptx) | smooth roaming follow up 1 | Liwen Chu | Pending | Roaming | Joint |
| 1938 | Beacon design with and without multiple BSSID support | Liwen Chu | Pending | Passive Scanning | Joint |
| [1939](https://mentor.ieee.org/802.11/dcn/23/11-23-1939-00-00bn-priority-based-preemption-method.pptx) | Priority Based Preemption Method | Ronny Yongho Kim | Pending | Preemption | Joint |
| [1943](https://mentor.ieee.org/802.11/dcn/23/11-23-1943-01-00bn-physical-layer-reliability-improvements-follow-up.pptx) | Physical Layer Reliability Improvements - Follow Up | Shimi Shilo | Pending | PHY-Misc | Joint |
| 1944 | Impact of Tx EVM on MIMO Detection | Genadiy Tsodik | Pending | MIMO | Joint |
| [1945](https://mentor.ieee.org/802.11/dcn/23/11-23-1945-00-00bn-thoughts-on-information-sharing-between-layers.pptx) | Thoughts on information sharing between layers | Atsushi Shirakawa | Pending | Cross Layer | Joint |
| [1947](https://mentor.ieee.org/802.11/dcn/23/11-23-1947-00-00bn-consideration-of-industrial-automation-scenarios-follow-up.pptx) | Consideration of Industrial Automation Scenarios - Follow Up | Akira Kishida | Pending | Use and Req. | Joint |
| [1948](https://mentor.ieee.org/802.11/dcn/23/11-23-1948-00-00bn-txop-sharing-based-ul-relaying.pptx) | TXOP Sharing based UL Relaying | Serhat Erkucuk | Pending | Relay | Joint |
| [1950](https://mentor.ieee.org/802.11/dcn/23/11-23-1950-00-00bn-considerations-on-preemption-request.pptx) | Considerations on Preemption Request | Leonardo Lanante | Pending | Preemption | Joint |
| [1951](https://mentor.ieee.org/802.11/dcn/23/11-23-1951-00-00bn-concurrent-cca-for-non-primary-channel-access.pptx) | Concurrent CCA for Non-Primary Channel Access | Leonardo Lanante | Pending | SCA | Joint |
| [1952](https://mentor.ieee.org/802.11/dcn/23/11-23-1952-00-00bn-coordinated-r-twt-for-multi-ap-scenarios-follow-up.pptx) | Coordinated R-TWT for Multi-AP scenarios - Follow up | Liuming Lu | Pending | CR-TWT | Joint |
| 1955 | Considerations for Relay Operation in Next Generation Wi-Fi Networks - part 3 | Yue Qi | Pending | Relay | Joint |
| 1956 | C-TDMA TXOP protection | Kiseon Ryu | Pending | C-TDMA | Joint |
| [1958](https://mentor.ieee.org/802.11/dcn/23/11-23-1958-00-00bn-proxy-qos-management-for-xr-use-cases.pptx) | QoS Proxy for XR Use Cases | Guoqing Li | Pending | QoS | Joint |
| [1962](https://mentor.ieee.org/802.11/dcn/23/11-23-1962-00-00bn-gain-analysis-for-coordinated-ap-transmissions.pptx) | Gain analysis for coordinated AP transmissions | Abhishek Patil | Pending | C-TDMA/RTWT | Joint |
| [1963](https://mentor.ieee.org/802.11/dcn/23/11-23-1963-00-00bn-periodical-nss-adjustment-for-an-mld.pptx) | Periodical NSS Adjustment for an MLD | Yunbo Li | Pending | Parameter Update | Joint |
| [1964](https://mentor.ieee.org/802.11/dcn/23/11-23-1964-00-00bn-coexistence-protocols-for-uhr.pptx) | Coexistence Protocols for UHR | Alfred Asterjadhi | Pending | Coexistence | Joint |
| [1965](https://mentor.ieee.org/802.11/dcn/23/11-23-1965-00-00bn-dynamic-power-save-follow-up.pptx) | Dynamic power save\_follow up | Alfred Asterjadhi | Pending | Power Save | Joint |
| 1967 | Trigger based uplink adapted transmission | Ming Gan | Pending |  | Joint |
| [1971](https://mentor.ieee.org/802.11/dcn/23/11-23-1971-00-00bn-further-thoughts-on-seamless-roaming.pptx) | Further thoughts on seamless roaming | Ryuichi Hirata | Pending | Roaming | Joint |
| [1973](https://mentor.ieee.org/802.11/dcn/23/11-23-1973-00-00bn-discussion-on-uhr-enhanced-channel-access.pptx) | Discussion on UHR enhanced channel access | Yanchun Li | Pending | MAP-CMA | Joint |
| [1975](https://mentor.ieee.org/802.11/dcn/23/11-23-1975-00-00bn-coordinated-spatial-re-use-for-uhr.pptx) | Coordinated spatial re-use for UHR | Rainer Strobel | Presented | C-SR | Joint |
| [1976](https://mentor.ieee.org/802.11/dcn/23/11-23-1976-00-00bn-uhr-seamless-roaming-for-multi-link-device.pptx) | UHR-Seamless-Roaming-for-Multi-link-Device | Hui Che | Pending | Roaming | Joint |
| [1980](https://mentor.ieee.org/802.11/dcn/23/11-23-1980-00-00bn-coordinated-ap-assisted-medium-synchronization-recovery.pptx) | Coordinated AP-assisted Medium Synchronization Recovery | Jiayi Zhang | Pending | MAP-CMA | Joint |
| [1981](https://mentor.ieee.org/802.11/dcn/23/11-23-1981-00-00bn-multi-link-based-multi-ap-coordination-for-low-latency-traffic.pptx) | Multi-Link based Multi-AP Coordination for Low-Latency Traffic  | Jiayi Zhang | Pending | MAP | Joint |
| 1988 | High Level Thoughts on DRU Design | Lin Yang | Pending | DRU | Joint |
| [1990](https://mentor.ieee.org/802.11/dcn/23/11-23-1990-00-00bn-multi-ap-transmissions-on-the-link-quality-metric.pptx) | multi-ap-transmissions-on-the-link-quality-metric.pptx | Vamadevan Namboodiri | Pending | MAP-Grouping | Joint |
| 1995 | Trigger, BA, and BAR Protection | Po-Kai Huang | Pending | Control Security | Joint |
| 1996 | Improve roaming between MLDs | Po-Kai Huang | Pending | Roaming | Joint |
| 1997 | MAC header protection | Po-Kai Huang | Pending | Header Security | Joint |
| 1998 | Zero MUI Coordinated BF | Shimi Shilo | Pending | C-BF | Joint |
| 2001 | Secure Control frames - Follow up | Alfred Asterjadhi | Pending | Control Security | Joint |
| [2002](https://mentor.ieee.org/802.11/dcn/23/11-23-2002-00-00bn-in-device-coexistence-and-interference-follow-up.pptx) | In-device coexistence and interference follow-up | Cariou, Laurent | Pending | Coexistence | Joint |
| [2003](https://mentor.ieee.org/802.11/dcn/23/11-23-2003-00-00bn-client-power-save.pptx) | Client power save | Cariou, Laurent | Pending | Power Save | Joint |
| 2005 | Non-primary channel access (NPCA) | Minyoung Park | Pending | SCA | Joint |
| 2006 | Non-primary link access for mobile AP MLD | Minyoung Park | Pending | SCA | Joint |
| 2007 | Enhancement of BSR | Frank Hsu | Pending | Feedback | Joint |
| [2012](https://mentor.ieee.org/802.11/dcn/23/11-23-2012-00-00bn-location-dependent-performance-of-c-sr.pptx) | Location Dependent Performance of C-SR | Jun Minotani | Pending | C-SR | Joint |
| [2015](https://mentor.ieee.org/802.11/dcn/23/11-23-2015-00-00bn-ht-control-field-expansion.pptx) | HT-Control-field-expansion | Xiangxin Gu | Pending | Feedback | Joint |
| [2022](https://mentor.ieee.org/802.11/dcn/23/11-23-2022-00-00bn-r-twt-for-multi-ap-follow-up.pptx) | r-TWT for multi-AP follow up | Cariou, Laurent | Pending | C-RTWT | Joint |
| 2023 | Further discussion on Non-Primary Channel Access | Sindhu Verma | Pending | SCA | Joint |
| [2026](https://mentor.ieee.org/802.11/dcn/23/11-23-2026-00-00bn-balanced-wireless-in-device.pptx) | Balanced Wireless In-Device | Brian Hart | Pending | Coexistence | Joint |
| [2027](https://mentor.ieee.org/802.11/dcn/23/11-23-2027-01-00bn-considerations-for-dso-sub-band-switch-delay.pptx) | Considerations for DSO sub-band switch delay | Vishnu Ratnam | Pending | SCA | Joint |
| [2029](https://mentor.ieee.org/802.11/dcn/23/11-23-2029-00-00bn-overview-of-enterprise-policy-and-goals.pptx) | Overview of Enterprise Policy and Goals | Brian Hart | Pending | Use and Req. | Joint |
| [2031](https://mentor.ieee.org/802.11/dcn/23/11-23-2031-00-00bn-data-tones-grouping-in-tone-distributed-rus.pptx) | Data Tones Grouping in Tone-Distributed RUs |  Mahmoud Kamel | Pending | DRU | Joint |
| 2039 | secondary channel usage follow up | Liwen Chu | Pending | SCA | Joint |
| 2040 | Enabling AP power save\_follow up | Alfred Asterjadhi | Pending | Power Save | Joint |
| **Submission Requests received past the Sunday deadline** |
| 2055 | ICF-RCF transmission rules | Dmitry Akhmetov | Pending | Power Save | Joint |
| 2064 | STA Assisted Multi-AP Coordination  | Tuncer Baykas | Pending | Multi AP | Joint |
| 2063 | Enhanced Acknowledgement for Low Latency Communication Follow-Up | Tuncer Baykas | Pending | Ack mechanisms | Joint |
| [2100](https://mentor.ieee.org/802.11/dcn/23/11-23-2100-00-00bn-considerations-on-multiple-multi-ap-groups.pptx) | Considerations on Multiple Multi-AP groups | Gang Xie | Pending | MAP-Grouping | Joint |
| [2076](https://mentor.ieee.org/802.11/dcn/23/11-23-2076-03-00bn-multiple-channel-access-in-preemption-sequence.pptx) | Multiple Channel Access in Preemption Sequence | Juseong Moon | Pending | Preemption | Joint |
| [2115](https://mentor.ieee.org/802.11/dcn/23/11-23-2115-00-00bn-an-approach-to-enhance-the-reliability-for-wi-fi-networks.pptx) | An Approach to Enhance the Reliability for Wi-Fi Networks | Haji M. Furqan | Pending | MIMO | Joint |
| **New Submissions** |
| 2127 | 11bn Power Save | Jeongki Kim | Pending | Power Save | Joint |
| 2084 | Enhanced R-TWT for UHR | Jeongki Kim | Pending | C-RTWT | Joint |
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| **End Of Joint Queue** |
| Notes*.* |

## Teleconference Agendas

### 1st Conf. Call: November 27 (19:00–21:00 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

* + **Copyright Policy: Participants are advised that**
		- IEEE SA’s copyright policy is described in [Clause 7](https://standards.ieee.org/about/policies/bylaws/sect6-7.html#7) of the IEEE SA Standards Board Bylaws and [Clause 6.1](https://standards.ieee.org/about/policies/opman/sect6.html) of the IEEE SA Standards Board Operations Manual;
		- Any material submitted during standards development, whether verbal, recorded, or in written form, is a Contribution and shall comply with the IEEE SA Copyright Policy
	+ **Patent, Participation, Copyright and policy related subclause:** Please refer to Patent And Procedures
* 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 “TGbn <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 Yusuke Asai (yusuke.asai@ntt.com) and Alfred Asterjadhi (asterjadhi@gmail.com)
	+ Please ensure that the following information is listed correctly when joining the call:
		- "[voter status] First Name Last Name (Affiliation)"
* Announcements:
	+ Reminder to upload submissions (ref. submissions in red font in the queues)
* Technical Submissions-CSR:
	+ [1832](https://mentor.ieee.org/802.11/dcn/23/11-23-1832-00-00bn-multi-ap-coordinated-spatial-reuse.pptx) Multi-ap-coordinated-spatial-reuse Hassan Omar
	+ [1868](https://mentor.ieee.org/802.11/dcn/23/11-23-1868-00-00bn-coordinated-spatial-reuse-design.pptx) Coordinated-Spatial-Reuse-Design Jason Yuchen Guo
	+ [~~1917~~](https://mentor.ieee.org/802.11/dcn/23/11-23-1917-00-00bn-coordinated-spatial-reuse.pptx) ~~Coordinated Spatial Reuse Jinyoung Chun~~
		- Re-schedule
	+ [1975](https://mentor.ieee.org/802.11/dcn/23/11-23-1975-00-00bn-coordinated-spatial-re-use-for-uhr.pptx) Coordinated spatial re-use for UHR Rainer Strobel
	+ [2012](https://mentor.ieee.org/802.11/dcn/23/11-23-2012-00-00bn-location-dependent-performance-of-c-sr.pptx) Location Dependent Performance of C-SR Jun Minotani
* AoB: None.
* Adjourn

### 2nd Conf. Call: November 30 (10:00–12:00 ET)–Joint

* Call the meeting to order
* IEEE 802 and 802.11 IPR policy and procedure
	+ **Patent Policy: Ways to inform IEEE:**
		- Cause an LOA to be submitted to the IEEE-SA (patcom@ieee.org); 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

* + **Copyright Policy: Participants are advised that**
		- IEEE SA’s copyright policy is described in [Clause 7](https://standards.ieee.org/about/policies/bylaws/sect6-7.html#7) of the IEEE SA Standards Board Bylaws and [Clause 6.1](https://standards.ieee.org/about/policies/opman/sect6.html) of the IEEE SA Standards Board Operations Manual;
		- Any material submitted during standards development, whether verbal, recorded, or in written form, is a Contribution and shall comply with the IEEE SA Copyright Policy
	+ **Patent, Participation, Copyright and policy related subclause:** Please refer to Patent And Procedures
* 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 “TGbn <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 Yusuke Asai (yusuke.asai@ntt.com) and Alfred Asterjadhi (asterjadhi@gmail.com)
	+ Please ensure that the following information is listed correctly when joining the call:
		- "[voter status] First Name Last Name (Affiliation)"
* Announcements:
* Technical Submissions-CSR-Cont:
	+ [1917](https://mentor.ieee.org/802.11/dcn/23/11-23-1917-00-00bn-coordinated-spatial-reuse.pptx) Coordinated Spatial Reuse Jinyoung Chun
	+ [2012](https://mentor.ieee.org/802.11/dcn/23/11-23-2012-00-00bn-location-dependent-performance-of-c-sr.pptx) Location Dependent Performance of C-SR Jun Minotani
* Technical Submissions-Use Cases/Requirements:
	+ [1947](https://mentor.ieee.org/802.11/dcn/23/11-23-1947-00-00bn-consideration-of-industrial-automation-scenarios-follow-up.pptx) Consideration of Industrial Automation Scenarios - Follow Up Akira Kishida
	+ [2029](https://mentor.ieee.org/802.11/dcn/23/11-23-2029-00-00bn-overview-of-enterprise-policy-and-goals.pptx) Overview of Enterprise Policy and Goals Brian Hart
	+ …
* AoB:
* Adjourn

### 3rd Conf. Call: December 04 (19:00–21:00 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

* + **Copyright Policy: Participants are advised that**
		- IEEE SA’s copyright policy is described in [Clause 7](https://standards.ieee.org/about/policies/bylaws/sect6-7.html#7) of the IEEE SA Standards Board Bylaws and [Clause 6.1](https://standards.ieee.org/about/policies/opman/sect6.html) of the IEEE SA Standards Board Operations Manual;
		- Any material submitted during standards development, whether verbal, recorded, or in written form, is a Contribution and shall comply with the IEEE SA Copyright Policy
	+ **Patent, Participation, Copyright and policy related subclause:** Please refer to Patent And Procedures
* 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 “TGbn <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 Yusuke Asai (yusuke.asai@ntt.com) and Alfred Asterjadhi (asterjadhi@gmail.com)
	+ Please ensure that the following information is listed correctly when joining the call:
		- "[voter status] First Name Last Name (Affiliation)"
* Announcements:
* Technical Submissions-Multi AP Security/Grouping:
	+ [1836](https://mentor.ieee.org/802.11/dcn/23/11-23-1836-01-00bn-map-security-consideration.pptx) MAP security consideration Jay Yang
	+ [1837](https://mentor.ieee.org/802.11/dcn/23/11-23-1837-01-00bn-map-group-set-up-operation-discussion.pptx) MAP group set-up operation discussion Jay Yang
	+ [1841](https://mentor.ieee.org/802.11/dcn/23/11-23-1841-00-00bn-considerations-on-bss-color-for-multi-ap.pptx) Considerations on BSS color for Multi-AP Hirohiko Inohiza
	+ [1990](https://mentor.ieee.org/802.11/dcn/23/11-23-1990-01-00bn-multi-ap-transmissions-on-the-link-quality-metric.pptx) MAP Transmissions: On the Link Quality Metric Vamadevan Namboodiri
	+ [2100](https://mentor.ieee.org/802.11/dcn/23/11-23-2100-00-00bn-considerations-on-multiple-multi-ap-groups.pptx) Considerations on Multiple Multi-AP groups Gang Xie
	+ …
* AoB:
* Adjourn

### 4th Conf. Call: December 07 (10:00–12:00 ET)–Joint

* Call the meeting to order
* IEEE 802 and 802.11 IPR policy and procedure
	+ **Patent Policy: Ways to inform IEEE:**
		- Cause an LOA to be submitted to the IEEE-SA (patcom@ieee.org); 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

* + **Copyright Policy: Participants are advised that**
		- IEEE SA’s copyright policy is described in [Clause 7](https://standards.ieee.org/about/policies/bylaws/sect6-7.html#7) of the IEEE SA Standards Board Bylaws and [Clause 6.1](https://standards.ieee.org/about/policies/opman/sect6.html) of the IEEE SA Standards Board Operations Manual;
		- Any material submitted during standards development, whether verbal, recorded, or in written form, is a Contribution and shall comply with the IEEE SA Copyright Policy
	+ **Patent, Participation, Copyright and policy related subclause:** Please refer to Patent And Procedures
* 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 “TGbn <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 Yusuke Asai (yusuke.asai@ntt.com) and Alfred Asterjadhi (asterjadhi@gmail.com)
	+ Please ensure that the following information is listed correctly when joining the call:
		- "[voter status] First Name Last Name (Affiliation)"
* Announcements:
* Technical Submissions-Relay:
* AoB:
* Adjourn

### 5th Conf. Call: December 11 (19:00–21:00 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

* + **Copyright Policy: Participants are advised that**
		- IEEE SA’s copyright policy is described in [Clause 7](https://standards.ieee.org/about/policies/bylaws/sect6-7.html#7) of the IEEE SA Standards Board Bylaws and [Clause 6.1](https://standards.ieee.org/about/policies/opman/sect6.html) of the IEEE SA Standards Board Operations Manual;
		- Any material submitted during standards development, whether verbal, recorded, or in written form, is a Contribution and shall comply with the IEEE SA Copyright Policy
	+ **Patent, Participation, Copyright and policy related subclause:** Please refer to Patent And Procedures
* 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 “TGbn <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 Yusuke Asai (yusuke.asai@ntt.com) and Alfred Asterjadhi (asterjadhi@gmail.com)
	+ Please ensure that the following information is listed correctly when joining the call:
		- "[voter status] First Name Last Name (Affiliation)"
* Announcements:
* Technical Submissions-Topic:
* AoB:
* Adjourn

### 6th Conf. Call: December 14 (10:00–12:00 ET)–Joint

* Call the meeting to order
* IEEE 802 and 802.11 IPR policy and procedure
	+ **Patent Policy: Ways to inform IEEE:**
		- Cause an LOA to be submitted to the IEEE-SA (patcom@ieee.org); 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

* + **Copyright Policy: Participants are advised that**
		- IEEE SA’s copyright policy is described in [Clause 7](https://standards.ieee.org/about/policies/bylaws/sect6-7.html#7) of the IEEE SA Standards Board Bylaws and [Clause 6.1](https://standards.ieee.org/about/policies/opman/sect6.html) of the IEEE SA Standards Board Operations Manual;
		- Any material submitted during standards development, whether verbal, recorded, or in written form, is a Contribution and shall comply with the IEEE SA Copyright Policy
	+ **Patent, Participation, Copyright and policy related subclause:** Please refer to Patent And Procedures
* 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 “TGbn <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 Yusuke Asai (yusuke.asai@ntt.com) and Alfred Asterjadhi (asterjadhi@gmail.com)
	+ Please ensure that the following information is listed correctly when joining the call:
		- "[voter status] First Name Last Name (Affiliation)"
* Announcements:
* Technical Submissions-Topic:
* AoB:
* Adjourn

### 7th Conf. Call: December 18 (19:00–21:00 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

* + **Copyright Policy: Participants are advised that**
		- IEEE SA’s copyright policy is described in [Clause 7](https://standards.ieee.org/about/policies/bylaws/sect6-7.html#7) of the IEEE SA Standards Board Bylaws and [Clause 6.1](https://standards.ieee.org/about/policies/opman/sect6.html) of the IEEE SA Standards Board Operations Manual;
		- Any material submitted during standards development, whether verbal, recorded, or in written form, is a Contribution and shall comply with the IEEE SA Copyright Policy
	+ **Patent, Participation, Copyright and policy related subclause:** Please refer to Patent And Procedures
* 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 “TGbn <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 Yusuke Asai (yusuke.asai@ntt.com) and Alfred Asterjadhi (asterjadhi@gmail.com)
	+ Please ensure that the following information is listed correctly when joining the call:
		- "[voter status] First Name Last Name (Affiliation)"
* Announcements:
* Technical Submissions-Topic:
* AoB:
* Adjourn

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## Patent And Procedures

### Patent-related information

The patent policy and the procedures used to execute that policy are documented in the:

* IEEE-SA Standards Board Bylaws

(<http://standards.ieee.org/develop/policies/bylaws/sect6-7.html#6>)

* IEEE-SA Standards Board Operations Manual (<http://standards.ieee.org/develop/policies/opman/sect6.html#6.3>)

Material about the patent policy is available at <http://standards.ieee.org/about/sasb/patcom/materials.html>

**If you have questions, contact the IEEE-SA Standards Board Patent Committee Administrator at** **patcom@ieee.org**

### Participation in IEEE 802 Meetings

All participation in IEEE 802 Working Group meetings is on an individual basis

* Participants in the IEEE standards development individual process shall act based on their qualifications and experience. ([https://standards.ieee.org/develop/policies/bylaws/sb\_bylaws.pdfsection 5.2.1](https://standards.ieee.org/develop/policies/bylaws/sb_bylaws.pdfsection%205.2.1))
* IEEE 802 Working Group membership is by individual; “Working Group members shall participate in the consensus process in a manner consistent with their professional expert opinion as individuals, and not as organizational representatives”. (subclause 4.2.1 “Establishment”, of the IEEE 802 LMSC Working Group Policies and Procedures)
* Participants have an obligation to act and vote as an individual and not under the direction of any other individual or group. A Participant’s obligation to act and vote as an individual applies in all cases, regardless of any external commitments, agreements, contracts, or orders.
* Participants shall not direct the actions or votes of any other member of an IEEE 802 Working Group or retaliate against any other member for their actions or votes within IEEE 802 Working Group meetings, see <https://standards.ieee.org/develop/policies/bylaws/sb_bylaws.pdf> section 5.2.1.3 and the IEEE 802 LMSC Working Group Policies and Procedures, subclause 3.4.1 “Chair”, list item x.

By participating in IEEE 802 meetings, you accept these requirements. If you do not agree to these policies then you shall not participate.

(Latest revision of IEEE 802 LMSC Working Group Policies and Procedures: <http://www.ieee802.org/devdocs.shtml> and Participation slide: <https://mentor.ieee.org/802-ec/dcn/16/ec-16-0180-03-00EC-ieee-802-participation-slide.ppt>)

### Other guidelines for IEEE WG meetings

* All IEEE-SA standards meetings shall be conducted in compliance with all applicable laws, including antitrust and competition laws.
	+ Don’t discuss the interpretation, validity, or essentiality of patents/patent claims.
	+ Don’t discuss specific license rates, terms, or conditions.
		- Relative costs of different technical approaches that include relative costs of patent licensing terms March be discussed in standards development meetings.
			* Technical considerations remain the primary focus
	+ Don’t discuss or engage in the fixing of product prices, allocation of customers, or division of sales markets.
	+ Don’t discuss the status or substance of ongoing or threatened litigation.
	+ Don’t be silent if inappropriate topics are discussed … do formally object.

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For more details, see IEEE-SA Standards Board Operations Manual, clause 5.3.10 and
Antitrust and Competition Policy: What You Need to Know at <http://standards.ieee.org/develop/policies/antitrust.pdf>

### IEEE SA Copyright Policy

By participating in this activity, you agree to comply with the IEEE Code of Ethics, all applicable laws, and all IEEE policies and procedures including, but not limited to, the IEEE SA Copyright Policy.

* Previously Published material (copyright assertion indicated) shall not be presented/submitted to the Working Group nor incorporated into a Working Group draft unless permission is granted.
* Prior to presentation or submission, you shall notify the Working Group Chair of previously Published material and should assist the Chair in obtaining copyright permission acceptable to IEEE SA.
* For material that is not previously Published, IEEE is automatically granted a license to use any material that is presented or submitted.

The IEEE SA Copyright Policy is described in the IEEE SA Standards Board Bylaws and IEEE SA Standards Board Operations Manual

* IEEE SA Copyright Policy, see
 Clause 7 of the IEEE SA Standards Board Bylaws
 [https://standards.ieee.org/about/policies/bylaws/sect6-7.html#7](https://standards.ieee.org/about/policies/bylaws/sect6-7.html)
 Clause 6.1 of the IEEE SA Standards Board Operations Manual
 <https://standards.ieee.org/about/policies/opman/sect6.html>

IEEE SA Copyright Permission

* **Error! Hyperlink reference not valid.**[standards.ieee.org/content/dam/ieee-standards/standards/web/documents/other/permissionltrs.zip](https://standards.ieee.org/content/dam/ieee-standards/standards/web/documents/other/permissionltrs.zip)

IEEE SA Copyright FAQs

* <http://standards.ieee.org/faqs/copyrights.html/>

IEEE SA Best Practices for IEEE Standards Development

* **Error! Hyperlink reference not valid.**[standards.ieee.org/develop/policies/best\_practices\_for\_ieee\_standards\_development\_051215.pdf](http://standards.ieee.org/develop/policies/best_practices_for_ieee_standards_development_051215.pdf)

Distribution of Draft Standards (see 6.1.3 of the SASB Operations Manual)

* <https://standards.ieee.org/about/policies/opman/sect6.html>

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

**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>