IEEE P802.11
Wireless LANs

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| Minutes for REVmf 2025 March Plenary - Atlanta |
| Date: 2025-03-12 |
| Author(s): |
| Name | Affiliation | Address | Phone | email |
| Jon Rosdahl | Qualcomm Technologies, Inc. | 10871 N 5750 WHighland, UT 84003 | +1 801 492 4023 | jrosahl @ ieee . org |
|  |  |  |  |  |

Abstract

Minutes for the 802.11mf (REVmf) for meetings held during the 2025 March IEEE 802 Plenary – Hilton Atlanta, Atlanta, GA, USA. March 09-14, 2025

1. **2025 March IEEE 802 Plenary – Atlanta – 802.11mf (REvmf ) – Monday, March 10, 2025 - PM2**
	1. **Called to order 4:02pm**
	2. **Introduction of Officers**:
		1. TG Chair: Mike MONTEMURRO (Huawei)
		2. TG Vice Chair: Mark HAMILTON (Ruckus/Comscope)
		3. TG Vice Chair: Mark RISON (Samsung)
		4. TG Editor: Po-kai HUANG (Intel)
		5. WG Editor: Edward AU (Huawei)
		6. TG Secretary: Jon ROSDAHL, (Qualcomm Technologies, Inc.)
	3. **Registration Reminder**
		1. Registration is required – Please register.
	4. **Patent Policy, Copyright and Attendance reminder**
		1. No issues noted.
	5. **Review Agenda** – 11-25/219r2:
		1. <https://mentor.ieee.org/802.11/dcn/25/11-25-0219-02-000m-revmf-agenda-march-2025-session.pptx>
		2. Monday March 10, 4pm EDT
2. Chair’s Welcome, Policy & patent reminder
3. Approve agenda
4. Motions
	1. Minutes (Slide 7)
5. Publication status for IEEE 802.11-2024 and amendments
6. Contributions
	1. Referred Subclause correction – doc 11-25/234 – Yang (China Mobile)
	2. Add 2 MHz channel for EU – doc 11-25/337 – Halasz (Morse Micro)
	3. PTP TWT harmonization – doc 11-25/255 – Hart (Cisco)
	4. Max Channel Switch Time Harmonization – doc 11-25/269 – Hart (Cisco)
	5. Control frame protection – doc 11-25/260 – Huang (Intel)
7. Recess
	* 1. No objection
		2. Approve as posted
	1. **Review Past minutes**.
		1. Motion: Approve the Past minutes in document

January meeting:

<https://mentor.ieee.org/802.11/dcn/24/11-24-2109-00-000m-minutes-for-revmf-2025-january-interim-kobe.docx>

* + 1. Moved: Jon Rosdahl
		2. Seconded: Mark Hamilton
		3. Results: Unanimous. Approved. – Motion Passes
	1. **Publication Status**
		1. Review of status will be given in Editor meeting.
		2. Late March is expected publication of 802.11-2024
		3. Late April for both TGbh and TGbe.
		4. Keep schedule for initial TGmf in May
	2. **Review doc 11-25/234** – Referred Subclause correction – Yang (China Mobile)
		1. Document: <https://mentor.ieee.org/802.11/dcn/25/11-25-0234-00-000m-referred-subclause-correction.docx>
		2. Review Presentation
		3. Minor corrections to cross-references in the Draft (9.4.1.1, and 9.5.7)
		4. C: Would rather fix the 9.5.7 reference, instead of just deleting it. R: But, there are too many references that would be needed to be completely correct.
		5. Note to the Editor, on the 9.5.7 change, need to delete both commas. Request to mention this explicitly in the motion.
		6. Suggest: "as defined in the first subclause of each subclause of subclause 9.6"
		7. Concern this is leaving it too vague. Readers may not understand
		8. Alternate suggestion, just, "as defined in 9.6". This would be returning it to how it was in 802.11-2020.
		9. No objection to running a motion on Wednesday to accept the 9.4.1.1 changes as proposed, and the 9.5.7 change per the alternate suggestion.
	3. **Review doc 11-25/337** – Add 2 MHz channel for EU - Dave Halasz (Morse Micro)
		1. <https://mentor.ieee.org/802.11/dcn/25/11-25-0337-00-000m-additional-2-mhz-channel-in-eu.docx>
		2. Review Submission
		3. Discussion on how this will behave with legacy and new devices.
		4. Discussion on the use of Table E-5 S1G operation classes.
		5. Discussion on how references are used in this part of the standard.
		6. Discussion on how S1G could not be used as they are not defined in Table E-4.
		7. We should be careful to use Regulatory requirements and class definitions.
		8. Discussion on what global bands are available to S1G – currently uses local bands for spectrum fragments that are allowed.
		9. Take subject offline and Dave H. will bring back at a later date.
	4. **Review doc 11-25/255** – PTP TWT harmonization – Brian Hart (Cisco)
		1. <https://mentor.ieee.org/802.11/dcn/25/11-25-0255-02-000m-p2p-twt-harmonization.docx>
		2. Review Submission.
		3. Review discussion and proposed changes.
		4. Discussion on some minor changes.
		5. Clarification of 11.21.15 seems like it is a very long single sentence.
			1. Simplification request for this clause.
		6. Could the note be changed with the cross-reference doe not need “should” at the location of the NOTE.
		7. Discussion on states of Unavailability and Dose states.
		8. More offline discussion and then return later.
	5. **Review doc 11-25/269** – Max Channel Switch Time Harmonization –Brian Hart (Cisco)
		1. <https://mentor.ieee.org/802.11/dcn/25/11-25-0269-00-000m-max-channel-switch-time-harmonization.docx>
		2. Review Submission
		3. Discussion on us of TBTT
		4. Discussion on if continuity vs collapse and restart would be better.
		5. Discussion on what happens if the Switch time meaning is changed.
		6. Discussion on how to harmonize the changes (no later than, vs that time).
		7. Avoid using “intends to” -- need to reword.
		8. Discussion on what the non-AP STA will do with the information vs what AP STA will do with the information.
		9. More offline discussion to be done. Use the Reflector for the discussion.
	6. **Review doc 11-25/260** – Control frame protection –Po-Kai Huang (Intel)
		1. <https://mentor.ieee.org/802.11/dcn/25/11-25-0260-04-000m-trigger-ba-bar-protection.docx>
		2. Review Submission.
		3. Discussion on the need to discuss this in more detail.
		4. Discussion on the Key ID and the size being suggested.
		5. Concern expressed on GMAC-256.
		6. Discussion on the ordering of the changes and the extent to which the changes are defined.
		7. Discussion on the use of the cipher.
		8. Concern where the behavioral text is to be added.
		9. Questions asked: Why does Management frame lose "original benefit" of BAR?)
			1. I don't think the difference in tx time is significant
			2. Seems dangerous to hard-wire to GMAC-256
			3. "A BIGTKSA consists of the following: " typo
			4. The Authenticator may update the CIGTK -- how?
			5. Is32 us always going to be enough time?
			6. How on tx all the calculations have to be done within ~SIFS?)
			7. Is it OK to reuse Key IDs 0 and 1?)
	7. Recess at 6:00pm
1. **2025 March IEEE 802 Plenary – Atlanta – 802.11mf (REvmf ) – Wednesday, March 12, 2025 - PM2**
	1. **Called to order at 4:02pm** by the TG Chair, Mike Montemurro, Huawei
	2. **Introduction of TG officers.**
		1. TG Chair: Mike MONTEMURRO (Huawei)
		2. TG Vice Chair: Mark HAMILTON (Ruckus/Comscope)
		3. TG Vice Chair: Mark RISON (Samsung)
		4. TG Editor: Po-kai HUANG (Intel)
		5. TG Secretary: Jon ROSDAHL, (Qualcomm Technologies, Inc.)
	3. **Registration is required – Please register.**
	4. **Review Patent/Participation/Copyright Policies**
		1. No Issues noted.
	5. **Review Agenda – 802-11-25/0219r2:**
		1. <https://mentor.ieee.org/802.11/dcn/25/11-25-0219-02-000m-revmf-agenda-march-2025-session.pptx>
		2. **Wednesday March 12, 4pm EDT**
2. Agenda Approval
3. Contributions
	1. Remove Clause 9 behavior requirements – doc 11-24/1735 – Levy (InterDigital)
	2. Indoor enabled AP signaling – doc 11-25/351 – Kim (Qualcomm)
4. Motions – 11-24/1925
5. Contributions continued
	1. PASN ID for MLO – doc 11-25/345 – Li (ZTE)
	2. EHT MLO – doc 11-25/332 – Shafin (Samsung)
	3. Dynamic fragmentation MLO – doc 11-25/373 – Patil (Qualcomm)
	4. 6 GHz Discovery – doc 11-25/371 – Patil (Qualcomm)
	5. Reduced ANQP latency – doc 11-25/270 – Neishaboori (GM)
	6. EDCAF no CS busy – doc 11-25/290 – Xu (Amlogic)
6. Timeline
7. Plan for May, teleconferences
8. Adjourn
	* 1. Review the agenda, there was discussion on what was in the Motion file.
		2. Need to add the “Contribution Continued” label.
		3. Motions may change depending on the outcome of the discussion of the first two presentations.
		4. The later set of presentations are not expected to have a motion.
		5. No objection to an Updated Agenda R3.
	1. **Review doc 11-24/1735r2** – Remove Clause 9 behavior requirements – Joseph Levy (InterDigital)
		1. <https://mentor.ieee.org/802.11/dcn/24/11-24-1735-02-000m-correction-to-remove-behavior-from-clause-9-3-1-5.docx>
		2. Review submission.
		3. Review proposed changes.
		4. No questions. No objection to adding this to the motions to be considered in a few minutes
		5. Will include as a motion later during the Motion portion of the agenda.
	2. **Review doc 11-25/351r1** – Indoor enabled AP signaling –Youhan KIM (Qualcomm)
		1. <https://mentor.ieee.org/802.11/dcn/25/11-25-0351-01-000m-indoor-enabled-ap-signaling.docx>
		2. Review submission
		3. Discussion
			1. Count of Observed Enabling of AP Content.
			2. How to account for more than 7?
			3. Suggestion to add a “NOTE” on how to handle that question.
			4. Discussion on how device will behave in regards to the last 2 columns in Table just ahead of the “Proposed Text Update” in the submission.
			5. Discussion on how devices will process VLP. Do they act differently depending on the different columns?
			6. More Discussion on how the changes would be viewed in light of the regulations and with regards to legacy devices.
			7. These changes are similar to other indoor changes made in the past.
			8. Discussion on C2C and how to tell if you are indoor or outdoor and then what level of power you are using.
			9. Discussion on how Linux devices behaved when deployed in Japan.
			10. Discussion on use of “Observed Enabling AP list field”. R1 fixed typo.
			11. Discussion on C2C STA behavior.
			12. Straw Poll:
				1. 
			13. Will wait and not motion today.
	3. **Return to Doc 11-24/1735r2**
		1. Concern on some of the changes, and the deletion of some text. (9.3.1.5.3)
		2. Discussion on use of a field as a duration or ID usage in the field.
		3. Concern on page 3 – “ad bit 15 of the Duration/ID field” seems out of place.
		4. Will take the discussion offline and will not have a motion today.
	4. **Motions:**
		1. **Motion 5: March Contributions (11-25/234 – 2025-03-12)**
			1. Instruct the editor to incorporate the changes in
			<https://mentor.ieee.org/802.11/dcn/25/11-25-0234-01-000m-referred-subclause-correction.docx>,
			into the REVmf draft.
			2. Moved: Jouni Malinen
			3. Seconded Stephen McCann
			4. Results: Unanimous Consent – Motion Passed.
		2. **Motion 6: Control Frame protection (11-25/260 – 2025-03-12)**
			1. Before the motion was made a discussion on how long it had been posted. How long had we to review the document.
			2. Discussion on if the attacks are worth trying to resolve in this manner for the security changes. Concern that Security changes should have a longer time to review.
			3. Changes suggested by Stephen McCann were extensive in reordering the paragraphs, and it is 36 pages that should provide more review time.
			4. Some of the issues identified on Monday included having a change in 10.5 to describe the behavior.
			5. Changes since Monday are minor, and the reorganization of the document may make it look like there was more significant changes, but it was not thought to have significant changes.
			6. Support for the changes provided in the email exchange on the TGm reflector that explains the changes made, and we should not delay considering adopting the changes.
			7. There was some that were surprised on the topic and would like more time to review the long document.
			8. The Author would like to make a motion, the TG Chair offered to bring up either in May or on a dedicated Telecon with a request for a motion.
			9. More Discussion on feedback that has not had time to get responses.
			10. Another discussion on the urgency, but this was discussed in 11bn before, but is a new discussion in 11mf.
			11. Motion 6: Instruct the editor to incorporate the changes in
			<https://mentor.ieee.org/802.11/dcn/25/11-25-0260-05-000m-trigger-ba-bar-protection.docx>,
			into the TGmf draft.
			12. Moved Po-kai Huang
			13. Second: Jouni Malinen
	5. Results: Tentative - Voters will be validated.
	6. Motion Fails
	7. Validated Recorded results are in Appendix A.
		1. **Validated Returns**: Yes: 81; No: 31; Abstain: 8; No vote: 13; Invalid Votes: 2
	8. **Review doc 11-25/345r2** – PASN ID for MLO –Yan Li (ZTE)
		1. <https://mentor.ieee.org/802.11/dcn/25/11-25-0345-02-000m-pasn-id-for-mlo.docx>
		2. Review Submission.
		3. Discussion on the changes.
		4. Discussion on the reason for doing this.
		5. Request to take the discussion to the Reflector.
	9. Timeline Review– no changes.

**Nov 2024 – PAR Approval**

**Nov 2024 – Initial meeting, contributions on REVme D7.0**

**Jan/Mar 2025 – Contributions on REVme D7.0/IEEE 802.11-2024**

**Mar - May 2025 – Publication of 802.11-2024 and roll-in of TGbh and TGbe**

**May 2025 – Initial D1.0 WG Letter ballot**

**May-Nov 2025 – Roll-in TGbf and TGbk**

**Jan 2026 – D2.0 Recirculation LB**

**Jul 2026 – D3.0 Recirculation**

**Jan 2027 – D4.0 Initial SA Ballot – Roll-in TGbi**

**Jul 2027 – D5.0 Recirculation SA Ballot**

**Nov 2027 – D6.0 Recirculation SA Ballot**

**Jan 2028 – D6.0 Recirculation SA Ballot (clean recirculation)**

**Feb 2028 – RevCom/SASB Approval**

* 1. **TG Plans** from now to May Interim
		1. Telecon - April 28
		2. Request 3 slots for May Interim.
	2. **Adjourned 5:56**

**References:**

**Monday:**

<https://mentor.ieee.org/802.11/dcn/25/11-25-0219-02-000m-revmf-agenda-march-2025-session.pptx>

<https://mentor.ieee.org/802.11/dcn/24/11-24-2109-00-000m-minutes-for-revmf-2025-january-interim-kobe.docx>

<https://mentor.ieee.org/802.11/dcn/25/11-25-0234-00-000m-referred-subclause-correction.docx>

<https://mentor.ieee.org/802.11/dcn/25/11-25-0337-00-000m-additional-2-mhz-channel-in-eu.docx>

<https://mentor.ieee.org/802.11/dcn/25/11-25-0255-02-000m-p2p-twt-harmonization.docx>

<https://mentor.ieee.org/802.11/dcn/25/11-25-0269-00-000m-max-channel-switch-time-harmonization.docx>

<https://mentor.ieee.org/802.11/dcn/25/11-25-0260-04-000m-trigger-ba-bar-protection.docx>

Wednesday:

<https://mentor.ieee.org/802.11/dcn/25/11-25-0219-02-000m-revmf-agenda-march-2025-session.pptx>

<https://mentor.ieee.org/802.11/dcn/24/11-24-1735-02-000m-correction-to-remove-behavior-from-clause-9-3-1-5.docx>

<https://mentor.ieee.org/802.11/dcn/25/11-25-0351-01-000m-indoor-enabled-ap-signaling.docx>

<https://mentor.ieee.org/802.11/dcn/25/11-25-0234-01-000m-referred-subclause-correction.docx>

<https://mentor.ieee.org/802.11/dcn/25/11-25-0260-05-000m-trigger-ba-bar-protection.docx>

<https://mentor.ieee.org/802.11/dcn/25/11-25-0345-02-000m-pasn-id-for-mlo.docx>

**Appendix A: Recorded Motion 6:**

Instruct the editor to incorporate the changes in
https://mentor.ieee.org/802.11/dcn/25/11-25-0260-05-000m-trigger-ba-bar-protection.docx,
into the TGmf draft.

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| --- | --- | --- | --- |
| **Participant ID** | **Participant Name** | **Participant Email** | **Vote** |
|  |  |  | *Quiz (Single choice)* |
| 573871690 | [v] Sean Coffey | coffey@realtek.com | No |
| 573871697 | [PV] Donald Eastlake | d3e3e3@gmail.com | Abstain |
| 573871700 | [V] Nehru Bhandaru | nehru.bhandaru@broadcom.com | Yes |
| 573871701 | [V] Leo Montreuil | montr@bellsouth.net | Yes |
| 573871702 | Rong Zhang | rong-zhang@apple.com | Yes |
| 573871704 | Tianyu Wu | tianyu@apple.com | Yes |
| 573871706 | [V] Jouni Malinen, Qualcomm | jouni@qca.qualcomm.com | Yes |
| 573871709 | [V] George Cherian | gcherian@qti.qualcomm.com | Yes |
| 573871710 | Hassan Yaghoobi | h\_yaghoobi@apple.com |  |
| 573871711 | [V] Hang Su Broadcom | hang.su@broadcom.com | Yes |
| 573871712 | [V] Laurent Cariou (Intel) | laurent.cariou@intel.com | Yes |
| 573871713 | [V] Eugene Baik, Qualcomm | eugeneb@qti.qualcomm.com | Abstain |
| 573871714 | SK Yong | skyong@apple.com | Yes |
| 573871715 | Jarkko Kneckt | jkneckt@apple.com | Yes |
| 573871716 | Ahmed Helmy | ahmedghelmy@apple.com | Yes |
| 573871717 | Yong Liu | yongliu@apple.com | Yes |
| 573871718 | Feng Jiang | f\_jiang@apple.com | Yes |
| 573871719 | Yan (ATG) Zhang | yan\_zhang1010@apple.com | Yes |
| 573871720 | [V] Graham Smith (SRT/BlueHalo) | graham.smith@bluehalo.com | No |
| 573871721 | Li Ma | li.ma@mediatek.com | Yes |
| 573871722 | [V] Youhan Kim (Qualcomm Technologies, Inc.) | youhank@qti.qualcomm.com | Yes |
| 573871726 | [V] Siukai Mak, Broadcom | siukai.mak@broadcom.com |  |
| 573871727 | Wook Bong Lee | wookbong.lee@apple.com | Yes |
| 573871728 | Reza Hedayat | reza\_hedayat@apple.com | Yes |
| 573871729 | Kanke Wu | kanke\_wu@apple.com | Yes |
| 573871730 | [V] Dan Harkins, HPE! | dharkins@lounge.org | No |
| 573871731 | Alex Krebs | a\_krebs@apple.com | Yes |
| 573871735 | [V] Sigurd Schelstraete | sschelstraete@maxlinear.com | No |
| 573871736 | [V] Preston Hunt | preston.hunt@intel.com | Yes |
| 573871737 | [NV] Ryan Busser | ryan.busser@bluehalo.com |  |
| 573871738 | [v] Necati Canpolat, Intel | necati.canpolat@intel.com | Yes |
| 573871739 | Hyungjin Kim | hyungjin.kim@broadcom.com | Yes |
| 573871740 | Stephen Orr | sorr@cisco.com |  |
| 573871741 | [V]Hanqing Lou, InterDigital | hqlou26@hotmail.com | No |
| 573871742 | [V] David Boldy, Broadcom | david.boldy@broadcom.com | Yes |
| 573871743 | [V] Tzu-Hsuan Chou | tzuhchou@qti.qualcomm.com | Yes |
| 573871745 | [V] Ashish Shukla, Amazon | shukla.a@gmail.com | No |
| 573871747 | [V] Stephen McCann | mccann.stephen@gmail.com | No |
| 573871748 | [V] Chung-Ta Ku, Mediatek | chung-ta.ku@mediatek.com | Yes |
| 573871749 | Yanjun Sun | yanjun.sun@apple.com | Yes |
| 573871751 | [V] Wilson Tsao, Mediatek | wilson.tsao@mediatek.com | Yes |
| 573871753 | [V] Alireza Ghaderipoor, MediaTek | alireza117@gmail.com | Yes |
| 573871754 | James Yee | james.yee@mediatek.com |  |
| 573871755 | Robert Yang (楊錫昌) | robert.yang@mediatek.com | Yes |
| 573871758 | [PV] Peng Yan, Wi-Fi Alliance | pyan@wi-fi.org | Abstain |
| 573871759 | [V] Manish Kumar - NXP | manish.kumar\_1@nxp.com |  |
| 573871760 | [V] Paul Cheng, MediaTek Inc | paul.cheng@mediatek.com | Yes |
| 573871762 | [V] Li Quan , ZTE | quan.li@zte.com.cn |  |
| 573871763 | [v]Luis Gutierrez, Broadcom | luis.gutierrez@broadcom.com | Yes |
| 573871766 | [V] Qinghua Li | qinghua.li@intel.com | Yes |
| 573871769 | Chitto Ghosh | chitto.ghosh@apple.com | Yes |
| 573871770 | [V] Carol Ansley, Cox | carol@ansley.com | Abstain |
| 573871773 | [V] Abhishek Patil | appatil@qti.qualcomm.com | Yes |
| 573871775 | [V] Mark Hamilton (CommScope/Ruckus) | mark.hamilton2152@gmail.com | No |
| 573871777 | [V] Karim Nassiri Toussi, BRCM | kntoussi@cal.berkeley.edu | Yes |
| 573871780 | Kaiying Lu | Kaiying.Lu@mediatek.com | Yes |
| 573871781 | [V] Dave Cavalcanti | dave.cavalcanti@intel.com | Yes |
| 573871782 | [V] Tom Pare | Thomas.pare@mediatek.com | Yes |
| 573871785 | [V] Po-Kai Huang Intel | po-kai.huang@intel.com | Yes |
| 573871789 | [V] Azin Neishaboori, GM | azin.neishaboori@gm.com | Abstain |
| 573871793 | [V] Arik Klein, Huawei | arik.klein@huawei.com | No |
| 573871795 | [V] Vinko Erceg - Broadcom | vinko.erceg@broadcom.com | Yes |
| 573871796 | [V] Subir Das [Peraton Labs] | subirdas21@gmail.com | No |
| 573871798 | [V] Albert Bredewoud, Broadcom | a.bredewoud@gmail.com |  |
| 573871799 | [V] Mark RISON | m.rison@samsung.com | No |
| 573871800 | [V] Rubayet Shafin, Samsung Electronics | r.shafin@samsung.com | No |
| 573871804 | [V]Yan Li,ZTE | li.yan16@zte.com.cn | Abstain |
| 573871805 | [V] Li-Hsiang Sun | lsun2005@gmail.com | Yes |
| 573871807 | Prasanna Desai | prasannadesai@yahoo.com | Yes |
| 573871808 | [V] Juan Fang, intel | juan.fang@intel.com | Yes |
| 573871809 | [V]Shuling (Julia) Feng, Mediatek | julia.feng@mediatek.com | Yes |
| 573871811 | [V] Sai [Synaptics Inc] | sai.nandagopalan@synaptics.com | Abstain |
| 573871815 | [V]Phoebe Shumin Cheng, Mediatek | phoebe.cheng@mediatek.com | Yes |
| 573871819 | [V] Haneya Qureshi, GM | haneya.qureshi@gm.com | Abstain |
| 573871820 | [V] Mohamed Islim, pureLiFi | Mohamed.Islim@purelifi.com |  |
| 573871823 | [V] Bilal Sadiq, Samsung Electronics | bilal.sadiq@samsung.com | No |
| 573871824 | Anuj Batra | anuj.batra@apple.com | Yes |
| 573871828 | [V] Jonathan Segev | jonathan.segev@intel.com | Yes |
| 573871839 | [V] Dibakar Das, Intel | dibakar.das@intel.com | Yes |
| 573871842 | Minyoung Park | minyoung.park@apple.com | Yes |
| 573871844 | [V] Cheng Chen, Intel | cheng.chen@intel.com | Yes |
| 573871867 | [V] George Chih-Chun Kuo, Mediatek Inc. | george.kuo@mediatek.com | Yes |
| 573871868 | [V] Joseph Levy, InterDigital | joseph.levy@interdigital.com | No |
| 573871869 | [V] Alfred Asterjadhi, Qualcomm Inc. | aasterja@qti.qualcomm.com |  |
| 573871874 | [V] Dmitry Akhmetov | dmitry.akhmetov@intel.com |  |
| 573871882 | [V] Shubhodeep Adhikari Broadcom | shubhodeep.adhikari@broadcom.com | Yes |
| 573871916 | [V] Srinath Puducheri, Broadcom | srinath.puducheri@broadcom.com |  |  |
| 573871918 | [V] GaborB, Mediatek | ygg@hdsd.bh |  |  |
| 573871955 | Jinjing Jiang | jinjing@apple.com | Yes |  |
| 573872050 | Mohamed Abouelseoud | m\_abouelseoud@apple.com | Yes |  |
| 573872087 | [V] Yongsen Ma, Samsung | yongsen.ma@samsung.com | No |  |
| 573872136 | Robert Zhou | chengzhi\_zhou@apple.com | Yes |  |
| 573872151 | Morteza Mehrnoush | morteza.mehrnoush@apple.com | Yes |  |
| 573872156 | Yongho Seok | y\_seok@apple.com | Yes |  |
| 573872235 | [V] Rishabh Roy, Samsung Electronics | rishabh.roy@samsung.com | No |  |
| 573873336 | Fatemeh Fazel [Intel] | fatemeh.fazel@intel.com | Yes |  |
| 573873622 | Veerendra Boodannavar | vboodannavar@apple.com | Yes |  |
| 573873916 | [V] Sindhu Verma, Broadcom | sindhu.verma@broadcom.com | Yes |  |
| 573874787 | [V] You-Wei Chen, Mediatek | ywchen77115@gmail.com | Yes |  |
| 573874858 | Wei-Han Chen | Wei-Han.Chen@mediatek.com | Yes |  |
| 573874923 | [V] Frank Chien-Fang Hsu, Mediatek | frank.hsu@mediatek.com | Yes |  |
| 573874949 | Hitoshi MORIOKA | hmorioka@src-soft.com | Yes |  |
| 573875017 | [V] Bruce HaoHua Kang | bruce.kang@mediatek.com | Yes |  |
| 573875032 | [V] Lalit Garg, Broadcom | lalit.garg@broadcom.com | Yes |  |
| 573875748 | Pooya Monajemi | p\_monajemi@apple.com | Yes |  |
| 573876239 | [V] VK Jones - Qualcomm Inc | vkjones@gmail.com | Yes |  |
| 573876304 | [V] Jinho Choi, Samsung Electronics | dominic.choi@samsung.com | No |  |
| 573876371 | [V] Srinath Puducheri, Broadcom | srinath.sundar@gmail.com | Yes |  |
| 573877069 | [V] Vishnu Ratnam, Samsung Electronics | ratnamvishnuvardhan@gmail.com | No |  |
| 573877144 | [V] Matthew Fischer | matthew.fischer@gmail.com | Yes |  |
| 573877622 | [V] Yue Qi, Samsung Electronics | yue.qi@ieee.org | No |  |
| 573877748 | [V] Jungjun Kim, Samsung Electronics | jungjun.kim@samsung.com | No |  |
| 573877781 | [V] Sherief Helwa, Qualcomm Technologies, Inc | shelwa@qti.qualcomm.com | Yes |  |
| 573877825 | [V] Sanket Kalamkar | sankal@qti.qualcomm.com | Yes |  |
| 573877927 | [V] Ishaque Kadampot, Qualcomm | ishaque.ashar@gmail.com | Yes |  |
| 573878152 | [V] Abhishek Chaturvedi, Samsung Electronics | ac.vrns@gmail.com | No |  |
| 573878185 | [V] Karthik Srinivasa Gopalan, Samsung Electronics | karthik.sg@samsung.com | No |  |
| 573878291 | [V] Alice Jialing Li Chen | alicel@qti.qualcomm.com | Yes |  |
| 573878616 | Qi Wang | qi\_wang2@apple.com | Yes |  |
| 573878779 | [V] Albert Bredewoud, Broadcom | a.bredewoud@gmail.com | Yes |  |
| 573878976 | [V] Taeyoung Ha, Samsung Electronics | ty1115.ha@samsung.com | No |  |
| 573879026 | [V] Peshal Nayak, Samsung | p.nayak@samsung.com | No |  |
| 573879075 | [V] Jaheon Gu, Samsung Electronics | jaheon.gu@samsung.com | No |  |
| 573879203 | [V] Boon Loong Ng, Samsung Electronics | b.ng@samsung.com | No |  |
| 573879255 | [V] Guido R. Hiertz, Ericsson GmbH | hiertz@ieee.org | No |  |
| 573879260 | [V]Manasi Ekkundi, Samsung Electronics | emanzee@gmail.com | No |  |
| 573879314 | Daniel Borges | drborges@apple.com | Yes |  |
| 573879439 | [V] Jon Rosdahl, Qualcomm | jrosdahl@ieee.org | No |  |
| 573879470 | [V] Jonghoe Koo, Samsung Electronics | jh89.koo@samsung.com | No |  |
| 573879532 | [V]Abhijit Bhattacharya, Qualcomm | abhijitb@qti.qualcomm.com | Yes |  |
| 573879586 | [V] Seongho Byeon, Samsung Electronics | sh.byeon@samsung.com | No |  |
| 573879587 | [V] GaborB, Mediatek | erfg@erf.srdf | Yes |  |
| 573879626 | [V] Dmitry Akhmetov, Intel | dmitry.akhmetov@intel.com | Yes |  |
|  |  |  |  |  |
|  |  | Yes | 81 |  |
|  |  | No | 31 |  |
|  |  | Abstain | 8 |  |
|  |  | No vote | 13 |  |