IEEE P802.11
Wireless LANs

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| March 2022 IEEE 802.11 Plenary TGbe Teleconference Minutes |
| Date: 2022-03-14 |
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| Laurent Cariou | Intel |  |  |  |

Abstract

This document contains the minutes for March 2022 IEEE 802.11 plenary TGbe teleconferences.

List of revisions:

* Rev0: First revision of the document.
* Rev1: Updated references to MAC adhoc. Added minutes to Mar 14, thanks to Laurent Cariou for taking them.

# Monday, Mar 7, MAC/PHY (19:00-21:00 ET)

Split between MAC and PHY:

* MAC: <https://mentor.ieee.org/802.11/dcn/22/11-22-0465-02-00be-minutes-for-tgbe-mac-ad-hoc-teleconferences-in-march-2022-plenary.docx>
* PHY: N/A

# Wednesday, Mar 9, Joint (09:00-11:00 ET)

1. Call meeting to order at 9:01 ET.
	1. Reminder of registration.
	2. Meeting protocol.
	3. Attendance reminder.
2. IEEE-SA Policies and Procedure. The Chair goes through:
	1. Patent policy, slides 8-10 in [0271r3](https://mentor.ieee.org/802.11/dcn/22/11-22-0271-03-00be-tgbe-mar-2022-meeting-agenda.pptx). The Chair asks if anyone is aware of potential essential patents. **Nobody speaks up.**
	2. Participation regulation slide 13 in [0271r3](https://mentor.ieee.org/802.11/dcn/22/11-22-0271-03-00be-tgbe-mar-2022-meeting-agenda.pptx).
	3. **Copyright policy** slide 14. The Chair encourages the group to further study additional copyright policies in slide 15 and 16 in [0271r3](https://mentor.ieee.org/802.11/dcn/22/11-22-0271-03-00be-tgbe-mar-2022-meeting-agenda.pptx).
3. Agenda.
	1. I would like to run a SP for document [202r4](https://mentor.ieee.org/802.11/dcn/22/11-22-0202-04-00be-cr-for-eht-ul-mu-operation.docx).
	2. I have a document [349r1](https://mentor.ieee.org/802.11/dcn/22/11-22-0349-01-00be-cr-discussion-of-nstr-and-emlsr.pptx), I think it would be interesting to the group, can we do it in the beginning of the CR after motions?
	3. OK.
	4. Agenda approved with unanimous consent.
4. **CR Submissions:**
	1. [0226r4](https://mentor.ieee.org/802.11/dcn/22/11-22-0226-04-00be-cr-for-missing-elements-in-clause-6-3.docx) cr-for-missing elements-in-clause 6-3 Zhiqiang Han [11C SP 10’]

Zhiqiang goes through his CRs.

Discussion:

C: Some CIDs concern issues that need to be fixed. We need to fix it eventually. Not to cause a bottleneck to the group, we will reject them for now and try to address them in a later comment collection. CID 5648 6167 7381.

SP1: Do you agree to resolve the following CIDs listed in [0226r4](https://mentor.ieee.org/802.11/dcn/22/11-22-0226-04-00be-cr-for-missing-elements-in-clause-6-3.docx) and incorporate the text changes into the latest TGbe draft?

* 4134,4135,6165,~~7757,7758\*~~,7771,8257,7836,~~5648,6167,7381~~

Discussion: No discussion.

Result: Supported with no objection from the group.

*\*Note that 7757 and 7758 was included when the SP was run, but they are in fact not resolved in document 226r4.*

* 1. [0039r3](https://mentor.ieee.org/802.11/dcn/22/11-22-0039-03-00be-cc36-cr-on-35-2-1-3-part-2.docx) CR for 35.2.1.3 part 2 Dibakar Das [15C SP 10’]

Dibakar goes through the document.

Discussion: Yes.

SP2: Do you agree to resolve the following CIDs listed in [0039r3](https://mentor.ieee.org/802.11/dcn/22/11-22-0039-03-00be-cc36-cr-on-35-2-1-3-part-2.docx) and incorporate the text changes into the latest TGbe draft?

* 4186, 4811, 5121, 5388, 5902, 6001, 6699, 6973, 7327, 7556, 7557, 7665, 7698, 8078, 8317

Discussion: Yes.

Result: Y/N/A/No-answer: 68/67/51/119.

* 1. [0255r2](https://mentor.ieee.org/802.11/dcn/22/11-22-0255-02-00be-cc36-cr-for-clause-6-3.docx) CC36-CR-for-Clause-6.3 Arik Klein [2C SP 10’]

Arik goes through the CRs.

Discussion: Yes, mostly regarding the use of “should”, “shall”, “may”, etc.

SP3: Do you agree to resolve the following CIDs listed in 11-22/0039r3 and incorporate the text changes into the latest TGbe draft?

* 4316, 4317

Discussion: Yes.

Result: Y/N/A/No-answer: 78/45/63/119.

1. Motions (during 2nd half of meeting): [1982r62](https://mentor.ieee.org/802.11/dcn/20/11-20-1982-62-00be-tgbe-motions-list-for-teleconferences-part-2.pptx)
	1. Approve TG minutes

Move to approve TGbe minutes of teleconferences listed below:

* + - January Electronic: <https://mentor.ieee.org/802.11/dcn/22/11-22-0142-03-00be-tgbe-jan-2022-meeting-minutes.docx>
		- Teleconferences Jan.-March: <https://mentor.ieee.org/802.11/dcn/22/11-22-0316-02-00be-jan-mar-tgbe-teleconference-minutes.docx>

Move: Dennis Sundman Second: Mike Montemurro

Discussion: No discussion

Result: Approved with unanimous consent.

* 1. Motion 301

Move to approve resolutions to the CIDs:

* 6465 in [*11-21/2035r2*](https://mentor.ieee.org/802.11/dcn/21/11-21-2035-02-00be-cr-d1-0-txvector-rxvector-parameters.docx)
* 6365 in[*11-21/1601r5*](https://mentor.ieee.org/802.11/dcn/21/11-21-1601-05-00be-cc36-comment-resolution-subclause-35-3-7-2.docx)

and incorporate the text changes into the latest TGbe draft.

Move: Mike Montemurro Second: Subir Das

Discussion: No discussion.

Result: Approved with unanimous consent.

* 1. Motion 302 (PHY-1)

Move to approve resolutions to the CIDs:

* 4518, 4519, 7054, 7732, 7736, 8173 in [11-22/0063r1](https://mentor.ieee.org/802.11/dcn/22/11-22-0063-01-00be-cc36-cr-for-eht-ppe-thresholds-field.docx) *[6 CIDs]*
* 4595, 4944, 4945, 5408, 6434, 6435, 7199, 7200, 7345, 7999, 8000, 8001, 8002, 8003, 8004, 8005 in [11-21/1165r1](https://mentor.ieee.org/802.11/dcn/21/11-21-1165-01-00be-cc36-comment-resolution-on-u-sig-part-3.docx) *[16 CIDs]*
* 4596, 4597, 4655, 4608, 4609, 4669, 5412, 5477, 5819, 6436, 6997, 7201, 7204, 7207, 8006 in [11-22/0078r2](https://mentor.ieee.org/802.11/dcn/22/11-22-0078-02-00be-cc36-comment-resolution-on-u-sig-part-5.docx) *[15 CIDs]*
* 4985 in [11-21/2003r1](https://mentor.ieee.org/802.11/dcn/21/11-21-2003-01-00be-cc36-comment-resolutions-for-cid-4985.doc) *[1 CID]*
* 4570, 4571, 4577, 4578, 4580, 4676, 4864, 4865, 5530, 5531, 5721, 7232, 7747, 8026, 4866, 4953, 5529, 7229, 7648, 4954, 5006, 5094, 5095, 6833, 5007, 5008, 5486, 5722, 6093, 6471, 7000, 7745, 6834, 6835, 6836, 7231, 7230, 7233, 7234 in [11-22/0113r2](https://mentor.ieee.org/802.11/dcn/22/11-22-0113-02-00be-cc36-cr-for-ltf.docx) *[39 CIDs]*

and incorporate the text changes into the latest TGbe draft.

Move: Bin Tian Second: Ross Jian Yu

Discussion: No discussion.

Result: Approved with unanimous consent.

* 1. Motion 303 (PHY-2)

Move to approve resolutions to the CIDs:

* 4618, 5012, 8138, 4960, 5011, 7011, 8137 in [11-22/0144r1](https://mentor.ieee.org/802.11/dcn/22/11-22-0144-01-00be-crs-on-data-field.docx) *[7 CIDs]*
* 4538, 4539, 4632, 4651, 4686, 4990, 5567, 6794, 6795, 6796, 7166, 7167, 7168, 7169, 7170, 7801, 8093 in [11-22/0086r3](https://mentor.ieee.org/802.11/dcn/22/11-22-0086-03-00be-cr-for-cids-on-36-3-2-7.docx) *[17 CIDs]*
* 4627, 4628, 4629 in [11-21/1672r8](https://mentor.ieee.org/802.11/dcn/21/11-21-1672-08-00be-some-mac-phy-layering-issues.docx) *[3 CIDs]*
* 6814, 7734, 7735, 7737, 7738, 7940, 7942, 7943, 7944, 7945, 7946 in [11-22/0183r2](https://mentor.ieee.org/802.11/dcn/22/11-22-0183-02-00be-cc36-cr-for-nominal-packet-padding-values-part-2.docx) *[11 CIDs]*

and incorporate the text changes into the latest TGbe draft.

Move: Yan Xin Second: Bin Tian

Discussion: No discussion.

Result: Approved with unanimous consent.

* 1. Motion 304 (PHY-3)

Move to approve resolutions to the CIDs:

* 6930, 7115, 4978, 4979, 4524, 4980,5523, 5521, 5522, 4895, 5714, 7321, 7322, 7977 in [11-21/1220r1](https://mentor.ieee.org/802.11/dcn/21/11-21-1220-01-00be-cc36-cr-on-eht-phy-introduction-20mhz-device-related-cids.docx) *[14 CIDs]*
* 4643 in [11-22/0195r2](https://mentor.ieee.org/802.11/dcn/22/11-22-0195-02-00be-phytxrxvector-cid4643.docx) *[1 CID]*
* 5461, 8089 in [11-22/0133r2](https://mentor.ieee.org/802.11/dcn/22/11-22-0133-02-00be-cc36-cr-for-cids-5461-and-8089-related-to-ru-allocation.docx) *[2 CIDs]*
* 5570 in [11-22/0231r0](https://mentor.ieee.org/802.11/dcn/22/11-22-0231-00-00be-cc36-cr-for-ul-power-headroom.docx) *[1 CID]*
* 4652, 6432, 7005, 7181, 7182, 7311, 7950 in [11-22/0277r1](https://mentor.ieee.org/802.11/dcn/22/11-22-0277-01-00be-cc36-comment-resolution-for-subclause-36-3-5.docx) *[7 CIDs]*
* 7281 in [11-22/0321r1](https://mentor.ieee.org/802.11/dcn/22/11-22-0321-01-00be-eht-phy-mib.docx) *[1 CID]*

and incorporate the text changes into the latest TGbe draft.

Move: Ross Jian Yu Second: Yan Xin

Discussion: No discussion.

Result: Approved with unanimous consent.

* 1. Motion 305 (MAC-1)

Move to approve resolutions to the CIDs:

* 4063, 4453, 4454, 4455, 4456, 4457, 4458, 4459, 4460, 5073, 5217, 5352, 5689, 5755, 5756, 6255, 6256, 6294, 6295, 6296, 6297, 6456, 6763, 7460 in [11-21/1980r4](https://mentor.ieee.org/802.11/dcn/21/11-21-1980-04-00be-cc36-cr-for-critical-update.docx) *[24 CIDs]*
* 4064, 5258, 6639, 5757, 5758 in [11-21/1562r11](https://mentor.ieee.org/802.11/dcn/21/11-21-1562-11-00be-cc36-resolution-for-cids-for-35-3-9-2.docx) *[5 CIDs]*
* 7534, 5578, 5580, 5588, 5591, 7358, 6027, 7357, 5596, 5857, 7531, 7532, 7533, 7535, 7536, 7537, 7539, 7540, 7541, 7542, 7543, 7546, 6031, 6039 in [11-21/2020r2](https://mentor.ieee.org/802.11/dcn/21/11-21-2020-02-00be-cc36-cr-for-nsep-comments.docx) *[24 CIDs]*
* 6414 in [*11-21/1768r7*](https://mentor.ieee.org/802.11/dcn/21/11-21-1768-07-00be-cc36-cr-for-restricted-twt-schedule-announcement.docx) *[1 CID]*
* 4088, 4117, 4158, 4159, 4707, 4709 in [*11-21/1930r6*](https://mentor.ieee.org/802.11/dcn/21/11-21-1930-06-00be-cc36-cr-for-some-cids-for-35-7-4-2-rtwt-quiet-interval.docx) *[6 CIDs]*

and incorporate the text changes into the latest TGbe draft.

Move: Subir Das Second: Ming Gan

Discussion: No discussion.

Result: Approved with unanimous consent.

* 1. Motion 306 (MAC-2)

Move to approve resolutions to the CIDs:

* 4081, 5067, 5268, 4082, 5699, 6966, 4210, 6407, 6501, 4211, 4212, 4213, 6328, 6500, 8211, 7424, 7425, 7426, 4206, 4207 in [11-21/1786r7](https://mentor.ieee.org/802.11/dcn/21/11-21-1786-07-00be-cr-for-nstr-mobile-ap-mlo-part2.docx) *[20 CIDs]*
* 5919 in [11-21/1770r4](https://mentor.ieee.org/802.11/dcn/21/11-21-1770-04-00be-cc36-cr-for-cid-5919.docx) *[1 CID]*
* 5175 in [11-21/1271r4](https://mentor.ieee.org/802.11/dcn/21/11-21-1271-04-00be-cc36-cr-on-ft-action-frame.doc) *[1 CID]*
* 4203, 4205, 4678, 5071, 4087, 6645, ~~5075~~, 8252, 8253 in [11-21/1184r3](https://mentor.ieee.org/802.11/dcn/21/11-21-1184-03-00be-cc36-resolution-for-cids-related-to-mbssid-part-1.docx) *[8 CIDs]*
* 7061 in [11-21/1172r03](https://mentor.ieee.org/802.11/dcn/21/11-21-1172-03-00be-cc36-resolution-for-cids-related-to-mlo-power-save.docx) *[1 CID]*

and incorporate the text changes into the latest TGbe draft.

Move: Ming Gan Second: George Cherian

Discussion: No discussion.

Result: Approved with unanimous consent.

* 1. Motion 307 (MAC-3)

Move to approve resolutions to the CIDs:

* 5141, 5903, 6555 in [11-21/1509r2](https://mentor.ieee.org/802.11/dcn/21/11-21-1509-02-00be-cc36-comment-resolution-triggered-txop-sharing.docx) *[3 CIDs]*
* 4295 in [11-21/1761r3](https://mentor.ieee.org/802.11/dcn/21/11-21-1761-03-00be-cr-for-a-mpdu-in-eht-ppdu.docx) *[1 CID]*
* 6979 in [11-21/1856r1](https://mentor.ieee.org/802.11/dcn/21/11-21-1856-01-00be-cc36-cr-for-cid-6979.docx) *[1 CID]*
* 5355, 6327, 6352, 6961, 7833, 4835 in [11-21/1484r6](https://mentor.ieee.org/802.11/dcn/21/11-21-1484-06-00be-cc36-cr-emlsr-medium-sync.docx) *[6 CIDs]*
* 7584, 5178, 5057, 5826, 8282, 7571, 6557, 7392, 5665, 8031, 7813, 6871, 6189, 6190, 6191, 6192, 6535, 5740, 8225, 4084, 4085, 4086, 5059, 5060, 5967 in [11-22/0024r4](https://mentor.ieee.org/802.11/dcn/22/11-22-0024-04-00be-cc36-resolution-for-cids-related-to-ml-element-part-2.docx) *[25 CIDs]*

and incorporate the text changes into the latest TGbe draft.

Move: Mike Montemurro Second: George Cherian

Discussion: No discussion.

Result: Approved with unanimous consent.

* 1. Motion 308 (MAC-4)
* Move to approve resolutions to the CIDs:
* 4115, 4278, 4280, 5339, 5340, 6648, ~~6661, 6936, 6633, 6634~~, 5694, 6376, 6644, 8245, 8044, 8246, 8247 in [11-22/0201r2](https://mentor.ieee.org/802.11/dcn/22/11-22-0201-02-00be-cc36-cr-for-for-subclause-35-3-13.docx) *[13 CIDs]*
* 6706, 5052 4107, 7352, 5136, 4350, 5137, 6373, 8176, 8174, 8175, 6370, 8056, 6708 5358, 6652 in [11-22/0193r0](https://mentor.ieee.org/802.11/dcn/22/11-22-0193-00-00be-cc36-cr-clause-9.docx) *[16 CIDs]*
* and incorporate the text changes into the latest TGbe draft.
* Move: Ming Gan Second: Minyoung Park
* Discussion: No discussion.
* Result: Approved with unanimous consent.
	1. Motion 309 (MAC-5)
* Move to approve resolutions to the CIDs:
* 4281, 5533, 6672, 6748, 7287 in 11-21/1681r15 *[5 CIDs]*
* 4136, 8153, 4140, 4141, 4805, 4142, 7341, 7554, 7680, 8065 in 11-21/0239r1 *[10 CIDs]*
* and incorporate the text changes into the latest TGbe draft.
* Move: Rajat Pushkarna Second: George Cherian
* Discussion: No discussion.
* Result: Approved with unanimous consent.
	1. Motion 310 (Joint-1)
* Move to approve resolutions to the CIDs:
* 4313, 4314 in [11-22/0027r3](https://mentor.ieee.org/802.11/dcn/22/11-22-0027-03-00be-cr-for-tid-mapping-and-eml-notification-primitives.docx) *[2 CIDs]*
* 4583, 5441, 4097, 6486, 6485, 5370, 7028, 4875, 4876, 7682, 4967, 5589, 7690, 5465, 6091, 4886, 6126, 6125, 5946, 5852, 6686, 5733, 5205 in [11-22/0237r1](https://mentor.ieee.org/802.11/dcn/22/11-22-0237-01-00be-cr-for-trigger-frame-and-puncturing.docx) *[23 CIDs]*
* 4289, 6942 in [11-22/155r0](https://mentor.ieee.org/802.11/dcn/22/11-22-0155-00-00be-cr-for-10-13-ppdu-duration-constraint.docx) *[2 CIDs]*
* 4197, 4976, 7015, 7064, 7911 in [11-22/171r0](https://mentor.ieee.org/802.11/dcn/22/11-22-0171-00-00be-cr-for-eht-dl-mu-operation.docx) *[5 CIDs]*
* 4195, 5234, 5446, 5776, 6174, 7057, 7394, 8312 in [11-22/0083r2](https://mentor.ieee.org/802.11/dcn/22/11-22-0083-02-00be-cc36-resolution-to-cids-for-35-9.docx) *[8 CIDs]*
* and incorporate the text changes into the latest TGbe draft.
* Move: Jason Guo Second: Bin Tian
* Discussion: No discussion.
* Result: Approved with unanimous consent.
	1. Motion 311 (Joint-2)
* Move to approve resolutions to the CIDs:
* 5311 in [11-22/230r3](https://mentor.ieee.org/802.11/dcn/22/11-22-0230-03-00be-cc36-cr-of-cid-4147-and-5311.docx) *[1 CID]*
* 5581, 5582, 5583, 5584, 5585, 5586, 6109, 6110, 6637, 7759, 7760, 7761, 7762, 7763, 7764, 7765, 7766, 7767, 7768, 7769, 7770 in [11-22/228r2](https://mentor.ieee.org/802.11/dcn/22/11-22-0228-02-00be-cr-for-6-3-5-to-6-3-8.docx) *[21 CIDs]*
* and incorporate the text changes into the latest TGbe draft.
* Move: Chunyu Hu Second: George Cherian
* Discussion: No discussion.
* Result: Approved with unanimous consent.
	1. Motion 312 (Withdrawal)
* Move to approve “Rejected” resolutions to the CIDs:
* 7116, ~~7719~~, 7119
* With the following rejection reason: “The commenter has withdrawn the comment”.
* Move: Subir Das Second: Daniel Borges
* Discussion: No discussion.
* Result: Approved with unanimous consent.

*Replaced the mover on Motion 312 because the previous mover could not be confirmed as voting member.*

* 1. Motion 313 (One CCFS)
* Move to approve resolutions to the following CIDs listed in [11-21/1533r5](https://mentor.ieee.org/802.11/dcn/21/11-21-1533-05-00be-cc36-cr-on-eht-operation-element.doc) and incorporate the text changes under heading “Option 1: one CCFS subfield” into the latest TGbe draft
* 4261, 4263, 5124, 5125, 6234, 6602, 6603, 6702, 6703, 8278, 8279
*
* Move: George Cherian Second: Yongho Seok
* Discussion: No discussion, but since the SPs had no consensus, the Chair runs the motion with a count.
* Result: Y/N/A/No-answer: 73/39/44/157. 🡪 Preliminary fails.
	1. Motion 314 (Two CCFS)
* Move to approve resolutions to the following CIDs listed in [11-21/1533r5](https://mentor.ieee.org/802.11/dcn/21/11-21-1533-05-00be-cc36-cr-on-eht-operation-element.doc) and incorporate the text changes under heading “Option 2: two CCFS subfields” into the latest TGbe draft
* 4261, 4263, 5124, 5125, 6234, 6602, 6603, 6702, 6703, 8278, 8279
* NOTE\*-There will be no PHY changes, i.e., only one segment is present and the CCFSes will encode only such one frequency segment.
* Move: Guogang Huang Second: Ross Jian Yu
* Discussion:
* C: We spend a lot of time on this so I hope we would make some progress.
* Result: Y/N/A/No-answer: 67/55/57/136. 🡪 Preliminary fails.
* Some discussion on how to move forward with the One vs Two CCFS.
* C: We need to resolve this.
* C: If we don’t want this to hold up the group moving forward to LB, we can reject based on no consensus.
* C: The Two CCFS does not make much sense, but it works.
* C: Why do we need the Two CCFS then?
* C: You can look at 1533.
* C: I don’t think this will get resolved. So I suggest the parties that are opinion on this need to work this out offline.
* C: Please have offline discussion and solve this. Both options works from a technical aspect.
* C: Could both be added as mandatory in the spec?
1. CR Submissions:
	1. [2009r2](https://mentor.ieee.org/802.11/dcn/21/11-21-2009-02-00be-cr-for-3-2.docx) CR for 3.2 Po-Kai Huang [2C SP 10’]

Discussion: Some discussion. SP deferred until Monday to allow for more offline discussions.

1. AoB: No other business.
2. Recess at 10:59 ET.

# Wednesday, Mar 9, MAC/PHY (19:00-21:00 ET)

Split between MAC and PHY:

* MAC: <https://mentor.ieee.org/802.11/dcn/22/11-22-0465-02-00be-minutes-for-tgbe-mac-ad-hoc-teleconferences-in-march-2022-plenary.docx>
* PHY: N/A

# Thursday, Mar 10, MAC/PHY (9:00 – 11:00 ET)

Split between MAC and PHY:

* MAC: <https://mentor.ieee.org/802.11/dcn/22/11-22-0465-02-00be-minutes-for-tgbe-mac-ad-hoc-teleconferences-in-march-2022-plenary.docx>
* PHY: N/A

# Thursday, Mar 10, MAC/PHY (19:00 – 21:00 ET)

Split between MAC and PHY:

* MAC: <https://mentor.ieee.org/802.11/dcn/22/11-22-0465-02-00be-minutes-for-tgbe-mac-ad-hoc-teleconferences-in-march-2022-plenary.docx>
* PHY: N/A

# Monday, Mar 14, Joint (9:00 – 11:00 ET)

1. The Chair, Alfred Asterjadhi calls meeting to order at 9:00 ET. The Secretary, Dennis Sundman is not present so Laurent Cariou will take the minutes.
	1. Reminder of registration.
	2. Meeting protocol.
	3. Attendance reminder.
2. IEEE-SA Policies and Procedure. The Chair goes through:
	1. Patent policy, slides 8-10 in [0271r3](https://mentor.ieee.org/802.11/dcn/22/11-22-0271-03-00be-tgbe-mar-2022-meeting-agenda.pptx). The Chair asks if anyone is aware of potential essential patents. **Nobody speaks up.**
	2. Participation regulation slide 13 in [0271r3](https://mentor.ieee.org/802.11/dcn/22/11-22-0271-03-00be-tgbe-mar-2022-meeting-agenda.pptx).
	3. **Copyright policy** slide 14. The Chair encourages the group to further study additional copyright policies in slide 15 and 16 in [0271r3](https://mentor.ieee.org/802.11/dcn/22/11-22-0271-03-00be-tgbe-mar-2022-meeting-agenda.pptx).
3. Attendance reminder.
4. Agenda.
	1. Can doc 202r4 be done in Joint?
		1. Moved at the end of Joint queue
	2. Can doc 349 be prioritized?
		1. That’s in the agenda for today
	3. Agenda approved with unanimous consent.
5. Announcements:
6. TGbe Editor Status Report: [1062r7](https://mentor.ieee.org/802.11/dcn/21/11-21-1062-07-00be-tgbe-editor-s-report-on-cc36-and-cc37.ppt)
7. CR Submissions-Joint:
	1. [230r4](https://mentor.ieee.org/802.11/dcn/22/11-22-0230-04-00be-cc36-cr-of-cid-4147-and-5311.docx) c36-cr-of-cid-4147-and-5311 Yunbo Li [1C SP]

SP1: Do you agree to resolve the following CIDs listed in option 1 of 0230r4 and incorporate the text changes into the latest TGbe draft?

* 4147

Discussion:

* Clarification for 20 MHz-only?
	+ Even for 20MHz only STAs, option 1 is simpler.

Result: Supported with no objection from the group.

* 1. [0331r0](https://mentor.ieee.org/802.11/dcn/22/11-22-0331-00-00be-proposed-resolutions-to-cids-4517-5573-and-6106.docx) Proposed Resolutions to CIDs 4517, 5573, and 6106 Osama Aboul-Magd [3C]

SP1: Do you agree to resolve the following CIDs listed in 0331r0 and incorporate the text changes into the latest TGbe draft?

* 5573, 6106

Discussion:

* + none

Result: Supported with no objection from the group.

Chair proposes an amendment of the agenda to continue CRs for joint queue after the motions.

* Agreed with unanimous consent
	1. [484r0](https://mentor.ieee.org/802.11/dcn/22/11-22-0484-00-00be-remaining-cids-in-6-3.docx) Remaining CIDs in 6-3 Zhiqiang Han [8C]

SP1: Do you agree to resolve the following CIDs listed in 0484r0 and incorporate the text changes into the latest TGbe draft?

* 7757, 7758, 5648, 6167, 7381

Discussion:

* + none

Result: Supported with no objection from the group.

1. Motions (starting from 2nd hour of meeting): [1982r64](https://mentor.ieee.org/802.11/dcn/20/11-20-1982-62-00be-tgbe-motions-list-for-teleconferences-part-2.pptx)
	1. **Motion 315 (PHY-1)**

Move to approve resolutions to the CIDs:

* 4540, 4541, 4648, 4687, 4991, 4992, 5568, 6431, 6797, 7171 in [11-22/0384r2](https://mentor.ieee.org/802.11/dcn/22/11-22-0384-02-00be-cr-for-cids-on-36-3-2-8.docx) *[10 CIDs]*
* 4585, 4599, 4600, 4601, 4604, 4605, 4946, 4947, 4948, 4949, 5475, 5476, 5820, 6466, 6798, 7202, 7203, 7205, 7206, 7464, 7465, 8008, 8009, 8010, 8011, 8013 in [11-22/0307r2](https://mentor.ieee.org/802.11/dcn/22/11-22-0307-02-00be-cc36-comment-resolution-on-u-sig-part-6.docx) *[26 CIDs]*
* 4634, 4902, 7993, 4645 in [11-22/0324r0](https://mentor.ieee.org/802.11/dcn/22/11-22-0324-00-00be-d1-0-crs-on-36-2-6-support-for-non-ht-ht-vht-and-he-formats.docx) and 5431, 7013 in [11-22/0323r0](https://mentor.ieee.org/802.11/dcn/22/11-22-0323-00-00be-d1-0-crs-on-36-3-13-13-dcm.docx) *[6 CIDs]*
* 4681, 4682, 4683, 4684, 7148, 7150, 7153, 7154, 7155, 4791, 4792, 4793, 4794, 4795, 4796, 4797, 4798, 4799, 4800, 4801, 4903, 4986, 4987, 4988, 4989, 6790, 6789, 7318, 5466, 5812, 6787, 7151, 6428, 6429, 6430, 6785, 6786, 6788, 4674, 7144, 7145, 7146, 7147, 7149, 7152, 7156, 6129, 7142, 7756 in [11-22/0383r3](https://mentor.ieee.org/802.11/dcn/22/11-22-0383-03-00be-cr-for-clause-36-3-2-2-subcarriers-and-resource-allocation-for-multiple-rus-part-2.doc) *[49 CIDs]*
* 7992, 4536, 4644, 4899, 4900, 4901 in [11-22/0322r1](https://mentor.ieee.org/802.11/dcn/22/11-22-0322-01-00be-d1-0-crs-on-36-2-6-1.docx) and 4663 in [11-22/0346r0](https://mentor.ieee.org/802.11/dcn/22/11-22-0346-00-00be-cc36-comment-resolutions-for-cid-4663.docx) *[7 CIDs]*

and incorporate the text changes into the latest TGbe draft.

Move: Bin Tian Second: Yan Xin

Discussion: None.

Result: Approved with unanimous consent.

* 1. **Motion 316 (PHY-2)**

Move to approve resolutions to the CIDs:

* 4941, 5443 in [11-22/0429r0](https://mentor.ieee.org/802.11/dcn/22/11-22-0429-00-00be-cc36-remaining-phy-introduction-related-crs.docx) and 6118, 6915 in [11-22/0419r1](https://mentor.ieee.org/802.11/dcn/22/11-22-0419-01-00be-cc36-cr-on-cid-6118-and-6915.docx) and 6080 in [11-22/0369r0](https://mentor.ieee.org/802.11/dcn/22/11-22-0369-00-00be-cc36-cr-on-36-3-17.doc) *[5 CIDs]*
* 7173, 7174, 7175, 7309, 7748, 7969, 7970 in [11-22/0420r0](https://mentor.ieee.org/802.11/dcn/22/11-22-0420-00-00be-cc36-comment-resolution-on-36-3-3.docx) and 4574 in [11-22/0456r2](https://mentor.ieee.org/802.11/dcn/22/11-22-0456-02-00be-d1-0-cr-on-cid4574.docx) *[8 CIDs]*
* 4847, 7661 in [11-22/475r0](https://mentor.ieee.org/802.11/dcn/22/11-22-0475-00-00be-proposed-resolutions-to-cid-4847-and-7661.docx) and 4602, 4603, 8007, 4568 in [11-22/472r0](https://mentor.ieee.org/802.11/dcn/22/11-22-0472-00-00be-cc36-comment-resolution-on-u-sig-part-7.docx) and 7172 in [11-22/479r0](https://mentor.ieee.org/802.11/dcn/22/11-22-0479-00-00be-cr-for-cid-7172.docx) *[7 CIDs]*
* 4615 in [11-21/1563r3](https://mentor.ieee.org/802.11/dcn/21/11-21-1563-03-00be-dynamic-range-of-4kqam.docx) and 6443, 7236, 7752 in [11-22/441r2](https://mentor.ieee.org/802.11/dcn/22/11-22-0441-02-00be-cr-for-section-36-3-11-12-on-p802-11be-d1-4-part-4.doc) and 7741 in [11-22/483r0](https://mentor.ieee.org/802.11/dcn/22/11-22-0483-00-00be-scrambler-initial-value.docx) *[5 CIDs]*
* 4559, 4560, 5392, 5720, 7468 in [11-21/1018r47](https://mentor.ieee.org/802.11/dcn/21/11-21-1018-47-00be-ieee-802-11be-cc36-comments.xlsx) *[5 CIDs]*

and incorporate the text changes into the latest TGbe draft.

Move: Jianhan Liu Second: Yan Xin

Discussion: None.

Result: Approved with unanimous consent.

* 1. **Motion 317 (MAC-1)**

Move to approve resolutions to the CIDs:

* 4697, 6776, 7336, 5933, 4241, 6960, 7831, 7832, 7334, 6325, 4698, 6963, 7063, 7337, 8357 in [11-22/214r2](https://mentor.ieee.org/802.11/dcn/22/11-22-0214-02-00be-cc36-cr-emlsr.docx) *[15 CIDs]*
* 4176, 4449, 4450, 5627, 5870, 5871, 7547, 4177, 4178, 4179, 4338, 5628, 6516, 6747, 7863, 5629, 5621, 5626, 5624, 5619 in [11-21/1317r6](https://mentor.ieee.org/802.11/dcn/21/11-21-1317-06-00be-cc36-cr-for-cids-related-to-35-11-3.docx) and 4031, 8296 in [11-21/1436r2](https://mentor.ieee.org/802.11/dcn/21/11-21-1436-02-00be-resolution-for-cids-related-to-tdls-operation-with-mlo-part-2.docx) *[22 CIDs]*
* 4704 5671 6216 6778 6883 8358 4425 in [11-21/1840r4](https://mentor.ieee.org/802.11/dcn/21/11-21-1840-04-00be-cc36-cr-for-emlmr-links.docx) [7 CIDs]
* 8264, 4000, 5822, 8274, 4009 in [11-22/193r1](https://mentor.ieee.org/802.11/dcn/22/11-22-0193-01-00be-cc36-cr-clause-9.docx) [5 CIDs]
* 6499, 4069, 4392, 4066, 5990, 5147, 4390, 4391, 4710, 6246, 5381, 6372, 8238, 5761, 6251, 5041, 5194, 5219, 8037, 4469, 5148, 6733, 4118, 5725, 4394, 4395, 4396, 6250, 7821, 8180, 4929, 4930, 8181, 6894, 4398, 8239 in [11-22/196r1](https://mentor.ieee.org/802.11/dcn/22/11-22-0196-01-00be-cc36-cr-ml-traffic-indication.docx) *[36 CIDs]*

and incorporate the text changes into the latest TGbe draft.

Move: Subir Das Second: Minyoung Park

Discussion: None.

Result: Approved with unanimous consent.

* 1. **Motion 318 (Joint-1)**

Move to approve resolutions to the CIDs:

* 4134, 4135, 6165, 7771, 8257, 7836 in [11-22/226r4](https://mentor.ieee.org/802.11/dcn/22/11-22-0226-04-00be-cr-for-missing-elements-in-clause-6-3.docx) *[6 CIDs]*
* 4147 in Option 1 of [11-22/230r4](https://mentor.ieee.org/802.11/dcn/22/11-22-0230-04-00be-cc36-cr-of-cid-4147-and-5311.docx) *[1 CID]*
* 5573, 6106 in [11-22/331r1](https://mentor.ieee.org/802.11/dcn/22/11-22-0331-01-00be-proposed-resolutions-to-cids-4517-5573-and-6106.docx) *[2 CIDs]*
* 7757, 7758, 5648, 6167, 7381 in [11-22/484r0](https://mentor.ieee.org/802.11/dcn/22/11-22-0484-00-00be-remaining-cids-in-6-3.docx) *[5 CIDs]*

and incorporate the text changes into the latest TGbe draft.

Move: Stephen McCann Second: Yunbo Li

Discussion: None.

Result: Approved with unanimous consent.

* 1. **Motion 319 (Withdrawal)**

Move to approve “Rejected” resolutions to the CIDs:

* 4679, 7014

With the following rejection reason: “The commenter has withdrawn the comment”.

Move: Edward Au Second: Bin Tian

Discussion: None.

Result: Approved with unanimous consent.

* 1. **Motion 320**

Move to approve resolutions to the following CIDs listed in [11-21/1533r](https://mentor.ieee.org/802.11/dcn/21/11-21-1533-05-00be-cc36-cr-on-eht-operation-element.doc)5 and incorporate the text changes under heading “Option 2: two CCFS subfields” into the latest TGbe draft

* + - 4261, 4263, 5124, 5125, 6234, 6602, 6603, 6702, 6703, 8278, 8279

Move: George Cherian Second: Stephen McCann

Discussion: None.

Result: Approved with unanimous consent.

* 1. **Motion 321**

Move to approve resolutions to the following CIDs listed in [11-22/0039r3](https://mentor.ieee.org/802.11/dcn/22/11-22-0039-03-00be-cc36-cr-on-35-2-1-3-part-2.docx)

* 4186, 4811, 5121, 5388, 5902, 6001, 6699, 6973, 7327, 7556, 7557, 7665, 7698, 8078, 8317

and incorporate the text changes into the latest TGbe draft

Move: Dibakar Das Second: George Cherian

Discussion: Some discussion.

Preliminary Result: 86+1 Y, 57N, 46A (preliminary fails)

Result: 84+1Y, 55N, 45A (fails) \*Results available in Appendix A – Motion 321 results

* 1. **Motion 322**

Move to approve resolutions to the following CIDs listed in [11-22/0075r3](https://mentor.ieee.org/802.11/dcn/22/11-22-0075-03-00be-cr-for-cids-on-sta-id.docx)

* 7860, 7938, 7088, 4166, 6339, 7939, 7089, 7889, 4165, 5110, 5343, 5344

and incorporate the text changes into the latest TGbe draft

Move: Yongho Seok Second: Yong Liu

Discussion: Some discussion.

Preliminary Result: 90Y, 44N, 50A (preliminary fails)

Result: 88Y, 43N, 47A (fails) \*Results available in Appendix B – Motion 322 results

* 1. **Motion 323**

Move to approve resolutions to the following CIDs listed in [11-21/1877r8](https://mentor.ieee.org/802.11/dcn/21/11-21-1877-08-00be-cr-for-mld-individually-addressed-management-frame-delivery.docx)

* 6244, 4038, 4251, 6618, 4399, 5220, 5763, 6613, 6614, 6615, 6616, 6252, 4072, 4400, 6032, 4715

and incorporate the text changes into the latest TGbe draft

Move: Po-Kai Huang Second: Laurent Cariou

Discussion: Some discussion.

Preliminary Result: 91Y, 75N, 32A (preliminary fails)

Result: 89Y, 71N, 32A (fails) \*Results available in Appendix C – Motion 323 results

* 1. **Motion 324**

Move to approve resolutions to the following CIDs listed in [11-21/1210r9](https://mentor.ieee.org/802.11/dcn/21/11-21-1210-09-00be-soft-ap-mlo-part1.docx)

* 6177, 7826, 4078, 4079, 5065, 5066, 5107, 5701, 5702, 5703, 4247, 6965, 7622, 6971, 6972, 6967

and incorporate the text changes into the latest TGbe draft

Move: Kaiying Lu Second: Yongho Seok

Discussion: Some clarification.

Result: Approved with unanimous consent.

* 1. **Motion (TGbe Timeline Update)**

Move to amend TGbe Timeline as follows:

* PAR approved Mar 2019
* First TG meeting May 2019
* D0.1 Sept 2020
* D1.0 WG Comment Collection May 2021
* D2.0 WG Comment Collection Letter Ballot Mar 2022
* D3.0 LB Nov 2022
* Initial Sponsor SA Ballot (D4.0) May 2023
* Final 802.11 WG approval Mar 2024
* 802 EC approval Mar 2024
* RevCom and SASB approval May 2024

Move: Bin Tian Second: Stephen McCann

Discussion: None.

Result: Approved with unanimous consent.

* 1. **Motion (CAD)**

Approve the P802.11be Coexistence Assessment document in [11-21/0706r5](https://mentor.ieee.org/802.11/dcn/21/11-21-0706-05-00be-tgbe-coexistence-assessment-document.docx), for inclusion in the TGbe Working Group Technical Letter Ballot

Move: Laurent Cariou Second: Stephen McCann

Discussion: None.

Preliminary Result: 136+1Y, 3N, 21A (preliminary passes)

Result: 133+1Y, 3N, 21A (passes)

* 1. **WG LB Motion**

Instruct the editor to prepare TGbe Draft D2.0

Approve a 30 day Working Group Technical Letter Ballot asking the question “Should TGbe Draft 2.0 be forwarded to SA Ballot?”

[Moved by <name> on behalf of <group>

<group> vote:

Moved: Laurent Cariou, Seconded: Bin Tian,

Preliminary Result: 94Y, 50N, 36A (preliminary fails)

Results: 94Y, 50N, 36A (fails)\*

*\*Same as preliminary result since there was no data available to perform vote validation.*

1. AoB: No other business.
2. Adjurn at 11:00 ET.

# Appendix A – Motion 321 results

Calculated Results : 86Y, 57N, 46A, [60%]

Amended Results : 84Y, 55N, 45A, [60%]

Amended Results [INCL. IMAT]: 76Y, 41N, 41A, [64%]

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 [PV] Vishnu V Ratnam, Samsung Research America | X | | | IMAT-YES

 [V] Prabodh Varshney Nokia | | | X | IMAT-YES

 Qi Wang | | | X | IMAT-YES

 [V] Brian Hart Cisco Systems | X | | | IMAT-YES

 [V] Vamadevan Namboodiri Samsung | | | X | IMAT-YES

 Jarkko Kneckt | | | X | IMAT-NO

 Sidharth Thakur | | | X | IMAT-YES

 [V] Jon Rosdahl, Qualcomm | X | | | IMAT-YES

 [V] Li-Hsiang Sun Sony | X | | | IMAT-YES

 [V] Evelyn Chen, Ericsson | X | | | IMAT-YES

 [V] James Yee, MediaTek | | | X | IMAT-YES

 [PV] Kiseon Ryu, Ofinno | X | | | IMAT-YES

 [V] Hui-Ling Lou | X | | | IMAT-YES

 Shubhodeep Adhikari | | | X | IMAT-YES

 [V] Sindhu Verma Broadcom | | | X | IMAT-YES

 [V] Bo Gong Huawei | | X | | IMAT-YES

 [V] Gaurang Naik Qualcomm | X | | | IMAT-YES

 [V] Jinyoung Chun, LG | X | | | IMAT-YES

 [V]XIANDONG DONG XIAOMI | | X | | IMAT-YES

 [V] Yousi Lin Huawei | | X | | IMAT-NO

 [V] Jay Yang Nokia | | X | | IMAT-YES

 [V]Chenchen Liu Huawei | | X | | IMAT-YES

 [V] Mengshi Hu Huawei | | X | | IMAT-YES

 [V] Jason Yuchen Guo Huawei | | X | | IMAT-NO

 [V] Guogang Huang Huawei | | X | | IMAT-YES

 [V] Steve TS Yang Mediatek | | | X | IMAT-YES

 [V] Lei Huang OPPO | X | | | IMAT-YES

 [V] Hongjia Su Huawei | | X | | IMAT-NO

 [V] Bo Sun | | | X | IMAT-YES

 [V] Jia Jia Huawei | | X | | IMAT-YES

 [V] James Chiang, MediaTek | | | X | IMAT-YES

 [V] Yiqing Li Huawei | | X | | IMAT-YES

 [V] Yuxin Lu Huawei | | X | | IMAT-YES

 [V] Rojan Chitrakar Panasonic | X | | | IMAT-YES

 [V] Wei Lin Huawei | | X | | IMAT-YES

 [NV]Mingjie Dong,Huawei | | X | | IMAT-YES

 [V] Liuming Lu OPPO | X | | | IMAT-YES

 [V]Zhenguo Du Huawei | | X | | IMAT-NO

 [V]Jindou Chen Huawei | | X | | IMAT-NO

 [V] David Yang | | X | | IMAT-NO

 hw | | | X | INVALID VOTE: NO MATCH FOUND!

 [V] Xiaoman Shen Huawei | | X | | IMAT-YES

 Veena Srivatsa | X | | | INVALID VOTE: NON VOTER

 [V] Yunbo Li, Huawei | | X | | IMAT-NO

 [V] B Hari Ram NXP | X | | | IMAT-NO

 Kunal Lal Synaptics | X | | | IMAT-YES

 [V] Bin Tian Qualcomm | X | | | IMAT-YES

 [V] Kanke Wu Qualcomm | X | | | IMAT-YES

 [V] Youhan Kim, Qualcomm | X | | | IMAT-YES

 [V] George Cherian Qualcomm | X | | | IMAT-YES

 [PV] Abdel Karim Ajami, Qualcomm | X | | | IMAT-YES

 [V] Chunyu Hu [Meta] | X | | | IMAT-YES

 [V] Eldad Perahia, HPE | | X | | IMAT-YES

 [v] Rolf de Vegt Qualcomm | X | | | IMAT-YES

 [V] Boon Loong Ng Samsung Research America | X | | | IMAT-YES

 [V] Rui Cao [NXP] | X | | | IMAT-NO

 [V] Yujin Noh Senscomm | | | X | IMAT-NO

 [V] Dibakar Das, Intel | X | | | IMAT-YES

 [V] Abhishek Patil Qualcomm | X | | | IMAT-YES

 [V] Minyoung Park Intel | X | | | IMAT-YES

 [V] Matthew Fischer Broadcom | X | | | IMAT-YES

 [V] Alice Jialing Li Chen Qualcomm | X | | | IMAT-YES

 [V] Junyoung Nam Qualcomm | X | | | IMAT-YES

 [V] Shivraj Sandhu Qualcomm | X | | | IMAT-YES

 [V] Wook Bong Lee Samsung | | | X | IMAT-YES

 [V] Anuj Batra Apple | | | X | IMAT-YES

 Yong Liu | | | X | IMAT-YES

 [V] Gaurav Patwardhan HPE | | | X | IMAT-YES

 [V] Ruchen Duan Samsung | X | | | IMAT-YES

 [V] VK Jones Qualcomm Inc | X | | | IMAT-YES

 [V]John Yi, SPRD | | | X | IMAT-YES

 [V] Diana Cortes [Google] | | | X | IMAT-YES

 SK Yong | | | X | IMAT-YES

 [V] Dmitry Akhmetov, Intel | X | | | IMAT-YES

 [PV] Binita Gupta, Meta | | | X | IMAT-YES

 [V] Xiaogang Chen INTEL | X | | | IMAT-NO

 [V] Yanjun Sun Qualcomm | X | | | IMAT-YES

 [V] Bibhu Mohanty, Qualcomm | X | | | IMAT-YES

 [V] Yongho Seok MediaTek. | | X | | IMAT-YES

 [V] Muhammad Kumail Haider, Meta | X | | | IMAT-YES

 [v] Mohamed Abouelseoud Apple | | | X | IMAT-YES

 [V] Menzo Wentink Qualcomm | X | | | IMAT-YES

 [V] Romain GUIGNARD Canon | | X | | IMAT-YES

 [V] Geert Awater, Qualcomm | X | | | IMAT-YES

 [V] Laurent Cariou, Intel | X | | | IMAT-NO

 [V] Yaron Ben-Arie [Huawei] | | X | | IMAT-YES

 [V] Dmitry Bankov, IITP RAS | | X | | IMAT-YES

 [V] Ilya Levitsky IITP RAS | | X | | IMAT-YES

 [V] Jouni Malinen Qualcomm | X | | | IMAT-YES

 [V] Shimi Shilo Huawei | | X | | IMAT-YES

 [V] Ezer Melzer, Huawei | | X | | IMAT-YES

 [V] Allert van Zelst, Qualcomm | X | | | IMAT-YES

 [V] Oded Redlich Huawei | | X | | IMAT-YES

 [V] Stephane Baron Canon | | X | | IMAT-NO

 [PV] Kirill Chemrov IITP RAS | | X | | IMAT-YES

 [V] Pascal Viger, Canon | | X | | IMAT-YES

 [V] Ebubekir Memisoglu IMU; VESTEL | | | X | IMAT-YES

 [V] Arik Klein Huawei | | X | | IMAT-YES

 [V] Michail Koundourakis, Samsung | | | X | IMAT-YES

 [V] Patrice NEZOU, Canon | | X | | IMAT-YES

 [V] Brice LeHouerou Canon | | X | | IMAT-YES

 [V] Mickael LORGEOUX Canon | | X | | IMAT-YES

 [V] Genadiy Tsodik Huawei | | X | | IMAT-YES

 [V] Alecsander Eitan Qualcomm | X | | | IMAT-NO

 [A] Oren Kedem MaxLinear | X | | | IMAT-YES

 [V] Klimakov Andrey Huawei | | X | | IMAT-YES

 [V] Thomas Handte Sony | | | X | IMAT-YES

 [V] François Thoumy Canon | | X | | IMAT-NO

 [V] Dror Regev Huawei | | X | | IMAT-YES

 [V] Vyacheslav Loginov, IITP RAS | | | X | IMAT-YES

 [V] Stephen McCann, Huawei | | X | | IMAT-NO

 [V] Massinissa Lalam, Sagemcom | X | | | IMAT-YES

 [V] Richard Van Nee Qualcomm | X | | | IMAT-YES

 [V] Zhongjiang Yan Northwestern Polytechnical University | | X | | IMAT-YES

 [V]Bo Li Northwestern Polytechnical University | | X | | IMAT-YES

 [V] Kazuto Yano ATR | | | X | IMAT-YES

 [V] Mao Yang Northwestern Polytechnical University | | X | | IMAT-YES

 [V] SunHee Baek LGE | X | | | IMAT-YES

 [V] Rob Sun Huawei Technologies | | X | | INVALID VOTE: NO MATCH FOUND!

 [V]Mengyao Ma Huawei | | X | | IMAT-YES

 [V] Eunsung Park LGE | X | | | IMAT-YES

 [V] Zhiqiang Han,ZTE | | | X | IMAT-NO

 [V] Hirohiko Inohiza Canon | | | X | IMAT-YES

 [V] Jiin Kim LG Electronics | X | | | IMAT-NO

 [V] Sanghyun Kim WILUS Inc. | X | | | IMAT-YES

 [V] Insun Jang LGE | X | | | IMAT-YES

 [V] Akira Kishida NTT | | | X | IMAT-YES

 [V] Eunsung Jeon Samsung | X | | | IMAT-YES

 [V] Seungho Choo Senscomm Semiconductor Co., Ltd. | X | | | IMAT-YES

 [V] Ming Gan Huawei | | X | | IMAT-NO

 [V] Jeongki Kim Ofinno | X | | | IMAT-YES

 [V] Lily Yunping Lv Huawei | | X | | IMAT-NO

 [V] Hiroyuki Motozuka, Panasonic | | | X | IMAT-YES

 Tongxin Shu Huawei | | X | | INVALID VOTE: NO MATCH FOUND!

 [V] Jinsoo Choi LG | X | | | IMAT-YES

 [V] Cheng-Ming Chen Qualcomm | X | | | IMAT-YES

 [V] Lan Peng | | X | | IMAT-YES

 [V]HungTao Hsieh, Mediatek | | | X | IMAT-YES

 [V] Chien-Fang Hsu [Frank], Mediatek | | | X | IMAT-YES

 [V] Xiangxin Gu, Unisoc | | X | | IMAT-YES

 [PV] Zisheng Wang, ZTE | X | | | IMAT-YES

 [V] Zhenguo Du Huawei | | X | | IMAT-NO

 [V] Tomoko Adachi Toshiba | X | | | IMAT-YES

 [V] Osama Aboul-Magd Huawei | | X | | IMAT-YES

 [V] Subir Peraton Labs | X | | | IMAT-YES

 [V] John Wullert, Peraton Labs | X | | | IMAT-YES

 [V] Al Petrick InterDigital | X | | | IMAT-YES

 [V] Xiaofei Wang InterDigital | X | | | IMAT-YES

 [V] Ray Yang, InterDigital | | | X | IMAT-YES

 [V] Joseph Levy, InterDigital | X | | | IMAT-YES

 [V] Mor Reich, Huawei | | X | | IMAT-YES

 [V] Yan Xin Huawei | | X | | IMAT-YES

 [V] Carol Ansley Cox | | | X | IMAT-YES

 [V] Edward Au, Huawei | | | X | IMAT-YES

 [V] Lili Hervieu CableLabs | X | | | IMAT-NO

 [V] Hanqing Lou InterDigital | X | | | IMAT-YES

 [V] Jung Hoon Suh Huawei | | X | | IMAT-NO

 [V]Manish Kumar -NXP | | | X | IMAT-YES

 [V] Zinan Lin InterDigital | X | | | IMAT-YES

 [V] AN NGUYEN DHS | X | | | IMAT-YES

 [V] Naveen Kakani, Qualcomm | X | | | IMAT-YES

 [V] Jim Lansford Qualcomm | X | | | IMAT-YES

 [PV] Vamsi Amalladinne | X | | | IMAT-YES

 [V] Mike Montemurro Huawei | | X | | IMAT-YES

 [V] Frank Suraci DHS | X | | | IMAT-YES

 [V] Meriam Rezk Qualcomm | X | | | IMAT-YES

 [V] Thomas Derham Broadcom | X | | | IMAT-YES

 [V] Dave Intel | X | | | IMAT-YES

 [V] Ruochen Zeng, Apple | | X | | IMAT-YES

 [V] Mineo Takai, Space-Time Engineering | X | | | IMAT-YES

 [V] Lei Wang Futurewei | | | X | IMAT-YES

 [V] Karim Nassiri Toussi | X | | | IMAT-YES

 [V] Srinivas Kandala Samsung | | | X | IMAT-YES

 [V] Tristan Zou Qualcomm | X | | | INVALID VOTE: NON VOTER

 [V] Paul Cheng MediaTek | | | X | IMAT-YES

 [V] Yonggang Fang MediaTek | | | X | IMAT-YES

 [V] Gabor Bajko Mediatek | | | X | IMAT-NO

 Daniel Borges | | | X | IMAT-YES

 [V] Lochan Verma, Apple | | | X | IMAT-YES

 [V] Chao-Chun Wang MediaTek | | | X | IMAT-YES

 [V] Tianyu Wu Apple | | | X | IMAT-YES

 [V] Juan Fang, Intel | X | | | IMAT-YES

 [V] Paul Strauch, Qualcomm | X | | | IMAT-YES

 [V] Kapil Rai, Qualcomm | X | | | IMAT-YES

 [V] Dan Bravo, Intel | X | | | IMAT-YES

 Qinghua Li, Intel | X | | | IMAT-YES

 [V] Po-Kai Huang Intel | X | | | IMAT-YES

 [V] Der-Zheng Liu, Realtek | X | | | IMAT-YES

 [V] Danny Alexander - intel | X | | | IMAT-NO

# Appendix B – Motion 322 results

Calculated Results : 90Y, 44N, 50A, [67%]

Amended Results : 88Y, 43N, 47A, [67%]

Amended Results [INCL. IMAT]: 76Y, 39N, 39A, [66%]

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 [PV] Vishnu V Ratnam, Samsung Research America | X | | | IMAT-YES

 [V] Prabodh Varshney Nokia | X | | | IMAT-YES

 Qi Wang | X | | | IMAT-YES

 [V] William Carney, Sony Group | X | | | IMAT-YES

 [V] Brian Hart Cisco Systems | | X | | IMAT-YES

 [V] Vamadevan Namboodiri Samsung | X | | | IMAT-YES

 Jarkko Kneckt | X | | | IMAT-NO

 Sidharth Thakur | X | | | IMAT-YES

 [V] Jon Rosdahl, Qualcomm | | X | | IMAT-YES

 [V] Li-Hsiang Sun Sony | X | | | IMAT-YES

 [V] Evelyn Chen, Ericsson | | | X | IMAT-YES

 [V] Hui-Ling Lou | | | X | IMAT-YES

 Shubhodeep Adhikari | X | | | IMAT-YES

 [V] Sindhu Verma Broadcom | X | | | IMAT-YES

 [V] Ross Jian Yu Huawei | | | X | IMAT-YES

 [V] Gaurang Naik Qualcomm | | X | | IMAT-YES

 [V] Jinyoung Chun, LG | X | | | IMAT-YES

 [V]XIANDONG DONG XIAOMI | | | X | IMAT-YES

 [V] Yousi Lin Huawei | | | X | IMAT-NO

 [V] Jay Yang Nokia | X | | | IMAT-YES

 [V]Chenchen Liu Huawei | | X | | IMAT-YES

 [V] Mengshi Hu Huawei | | | X | IMAT-YES

 [V] Jason Yuchen Guo Huawei | X | | | IMAT-NO

 [V] Guogang Huang Huawei | | | X | IMAT-YES

 [V] Steve TS Yang Mediatek | X | | | IMAT-YES

 [V] Lei Huang OPPO | X | | | IMAT-YES

 [V] Hongjia Su Huawei | | | X | IMAT-NO

 [V] Bo Sun | | X | | IMAT-YES

 [V] James Chiang, MediaTek | X | | | IMAT-YES

 [V] Yiqing Li Huawei | X | | | IMAT-YES

 [V] Rojan Chitrakar Panasonic | | | X | IMAT-YES

 [V] Liuming Lu OPPO | X | | | IMAT-YES

 [V] Xiaoman Shen Huawei | | X | | IMAT-YES

 Veena Srivatsa | X | | | INVALID VOTE: NON VOTER

 [V] Yunbo Li, Huawei | | | X | IMAT-NO

 [V] B Hari Ram NXP | X | | | IMAT-NO

 [V] Ankit Sethi NXP | | | X | IMAT-YES

 [V] Robert Stacey, Intel | X | | | IMAT-YES

 [V] Bin Tian Qualcomm | | X | | IMAT-YES

 [V] Kanke Wu Qualcomm | | X | | IMAT-YES

 [V] Youhan Kim, Qualcomm | | X | | IMAT-YES

 [v] kaiying lu MediaTek | X | | | IMAT-NO

 [V] George Cherian Qualcomm | | X | | IMAT-YES

 [PV] Abdel Karim Ajami, Qualcomm | | X | | IMAT-YES

 [V] Chunyu Hu [Meta] | | | X | IMAT-YES

 [V] Eldad Perahia, HPE | | X | | IMAT-YES

 [v] Rolf de Vegt Qualcomm | | X | | IMAT-YES

 [V] Liwen Chu NXP | | | X | IMAT-YES

 [V] Boon Loong Ng Samsung Research America | X | | | IMAT-YES

 [V] Yujin Noh Senscomm | X | | | IMAT-NO

 [V] Allan Jones, Activision | | | X | IMAT-YES

 [V] Dibakar Das, Intel | X | | | IMAT-YES

 [V] Abhishek Patil Qualcomm | | X | | IMAT-YES

 [V] Minyoung Park Intel | X | | | IMAT-YES

 [V] Matthew Fischer Broadcom | X | | | IMAT-YES

 [V] Alice Jialing Li Chen Qualcomm | | X | | IMAT-YES

 [V] Duncan Ho, Qualcomm | | X | | IMAT-NO

 [V] Junyoung Nam Qualcomm | | X | | IMAT-YES

 [V] Shivraj Sandhu Qualcomm | | X | | IMAT-YES

 [V] Wook Bong Lee Samsung | X | | | IMAT-YES

 [V] Anuj Batra Apple | X | | | IMAT-YES

 Yong Liu | X | | | IMAT-YES

 [V] Gaurav Patwardhan HPE | | X | | IMAT-YES

 [V] Ruchen Duan Samsung | X | | | IMAT-YES

 [V] VK Jones Qualcomm Inc | | X | | IMAT-YES

 [V]John Yi, SPRD | X | | | IMAT-YES

 [V] Diana Cortes [Google] | | | X | IMAT-YES

 SK Yong | X | | | IMAT-YES

 [V] Dmitry Akhmetov, Intel | X | | | IMAT-YES

 [V] Vinko Erceg - Broadcom | X | | | IMAT-YES

 [V] Yanjun Sun Qualcomm | | X | | IMAT-YES

 [V] Bibhu Mohanty, Qualcomm | | X | | IMAT-YES

 [V] Yongho Seok MediaTek. | X | | | IMAT-YES

 [V] Muhammad Kumail Haider, Meta | | | X | IMAT-YES

 [v] Mohamed Abouelseoud Apple | X | | | IMAT-YES

 [V] Menzo Wentink Qualcomm | | X | | IMAT-YES

 [V] Romain GUIGNARD Canon | | | X | IMAT-YES

 [A] Patrice Desmoulin, Orange | | | X | INVALID VOTE: NON VOTER

 [V] Geert Awater, Qualcomm | | X | | IMAT-YES

 [V] Dmitry Bankov, IITP RAS | | | X | IMAT-YES

 [V] David Boldy Broadcom | X | | | IMAT-YES

 [V] Ilya Levitsky IITP RAS | | | X | IMAT-YES

 [V] Jouni Malinen Qualcomm | | X | | IMAT-YES

 [V] Ezer Melzer, Huawei | | | X | IMAT-YES

 [V] Allert van Zelst, Qualcomm | | X | | IMAT-YES

 [V] Oded Redlich Huawei | | | X | IMAT-YES

 [V] Stephane Baron Canon | | | X | IMAT-NO

 [V] Pascal Viger, Canon | | | X | IMAT-YES

 [V] Ebubekir Memisoglu IMU; VESTEL | X | | | IMAT-YES

 [V] Arik Klein Huawei | | X | | IMAT-YES

 [V] Michail Koundourakis, Samsung | X | | | IMAT-YES

 [V] Julien SEVIN, Canon | | | X | IMAT-YES

 [V] Patrice NEZOU, Canon | | | X | IMAT-YES

 [V] Brice LeHouerou Canon | | | X | IMAT-YES

 [V] Mickael LORGEOUX Canon | | | X | IMAT-YES

 [A] Oren Kedem MaxLinear | X | | | IMAT-YES

 [V] Klimakov Andrey Huawei | | X | | IMAT-YES

 [V] Thomas Handte Sony | | | X | IMAT-YES

 [V] Dror Regev Huawei | | | X | IMAT-YES

 [V] Alexander Tolpin, Intel | X | | | IMAT-YES

 [V] Stephen McCann, Huawei | | X | | IMAT-NO

 [V] Massinissa Lalam, Sagemcom | | | X | IMAT-YES

 [V] Richard Van Nee Qualcomm | | X | | IMAT-YES

 [V] Zhongjiang Yan Northwestern Polytechnical University | | | X | IMAT-YES

 [V]Bo Li Northwestern Polytechnical University | | | X | IMAT-YES

 [V] Kazuto Yano ATR | | | X | IMAT-YES

 [V] Mao Yang Northwestern Polytechnical University | | | X | IMAT-YES

 [V] SunHee Baek LGE | X | | | IMAT-YES

 [V] Rob Sun Huawei Technologies | | | X | INVALID VOTE: NO MATCH FOUND!

 [PV]Qisheng Huang ZTE | | X | | IMAT-YES

 [V] Eunsung Park LGE | X | | | IMAT-YES

 [V] Zhiqiang Han,ZTE | | | X | IMAT-NO

 [V] Hirohiko Inohiza Canon | | | X | IMAT-YES

 [V] Sanghyun Kim WILUS Inc. | X | | | IMAT-YES

 [V] Chenhe Ji Huawei | | | X | IMAT-NO

 [V] Insun Jang LGE | X | | | IMAT-YES

 [V] Ryuichi Hirata Sony | X | | | IMAT-YES

 [V] Seungho Choo Senscomm Semiconductor Co., Ltd. | X | | | IMAT-YES

 [V] Ming Gan Huawei | X | | | IMAT-NO

 [V] Jeongki Kim Ofinno | X | | | IMAT-YES

 [V] Hiroyuki Motozuka, Panasonic | | | X | IMAT-YES

 Tongxin Shu Huawei | | | X | INVALID VOTE: NO MATCH FOUND!

 [V] Jinsoo Choi LG | X | | | IMAT-YES

 [V] Cheng-Ming Chen Qualcomm | | X | | IMAT-YES

 [V]HungTao Hsieh, Mediatek | X | | | IMAT-YES

 [V] Greg Geonjung Ko WILUS | X | | | IMAT-YES

 [V] Chien-Fang Hsu [Frank], Mediatek | X | | | IMAT-YES

 [V] Xiangxin Gu, Unisoc | X | | | IMAT-YES

 [PV] Zisheng Wang, ZTE | | X | | IMAT-YES

 [V]Tsung-han Tsai KevinMediatek | X | | | IMAT-NO

 [V] Zhenguo Du Huawei | | | X | IMAT-NO

 [V] Tomoko Adachi Toshiba | X | | | IMAT-YES

 [V] Osama Aboul-Magd Huawei | | X | | IMAT-YES

 [V] Mahmoud Kamel InterDigital | X | | | IMAT-YES

 [V] Subir Peraton Labs | | | X | IMAT-YES

 [V] John Wullert, Peraton Labs | X | | | IMAT-YES

 [V] Al Petrick InterDigital | X | | | IMAT-YES

 [V] Xiaofei Wang InterDigital | X | | | IMAT-YES

 [V] Ray Yang, InterDigital | X | | | IMAT-YES

 [V] Joseph Levy, InterDigital | | | X | IMAT-YES

 [V] Mor Reich, Huawei | | | X | IMAT-YES

 [PV] Kiseon Ryu, Ofinno | X | | | IMAT-YES

 [V] Carol Ansley Cox | | | X | IMAT-YES

 [V] Edward Au, Huawei | | X | | IMAT-YES

 [V] Lili Hervieu CableLabs | | | X | IMAT-NO

 [V] Hanqing Lou InterDigital | X | | | IMAT-YES

 [V] Jung Hoon Suh Huawei | | X | | IMAT-NO

 [V] Zinan Lin InterDigital | X | | | IMAT-YES

 [V] Naveen Kakani, Qualcomm | | X | | IMAT-YES

 [V] Jim Lansford Qualcomm | | X | | IMAT-YES

 [PV] Vamsi Amalladinne | | X | | IMAT-YES

 [V] James Yee, MediaTek | X | | | IMAT-YES

 [V] Ahmed Elsherif Qualcomm | | X | | IMAT-NO

 [V] Mike Montemurro Huawei | | | X | IMAT-YES

 [V] Thomas Derham Broadcom | X | | | IMAT-YES

 [V] Noel Stott Keysight Technologies | | | X | IMAT-YES

 [V] Ruochen Zeng, Apple | X | | | IMAT-YES

 [V] Lei Wang Futurewei | | | X | IMAT-YES

 [V] Julia Shuling Feng MediaTek | X | | | IMAT-NO

 [V] Srinivas Kandala Samsung | X | | | IMAT-YES

 [V] Tristan Zou Qualcomm | | X | | INVALID VOTE: NON VOTER

 [V] Paul Cheng MediaTek | X | | | IMAT-YES

 [V] Yonggang Fang MediaTek | X | | | IMAT-YES

 [V] Gabor Bajko Mediatek | X | | | IMAT-NO

 Daniel Borges | X | | | IMAT-YES

 [V] Lochan Verma, Apple | X | | | IMAT-YES

 [V] Chao-Chun Wang MediaTek | X | | | IMAT-YES

 [V] Debashis Dash Apple | X | | | IMAT-YES

 [V] Ron Porat Broadcom | X | | | IMAT-NO

 [V] Tianyu Wu Apple | X | | | IMAT-YES

 [V] Juan Fang, Intel | X | | | IMAT-YES

 [V] Paul Strauch, Qualcomm | | X | | IMAT-YES

 [V] Alan Berkema, HP Inc. | X | | | IMAT-YES

 [V] Dan Bravo, Intel | X | | | IMAT-YES

 Qinghua Li, Intel | X | | | IMAT-YES

 [V] Po-Kai Huang Intel | X | | | IMAT-YES

 Jinjing Jiang [Apple] | X | | | IMAT-NO

 [V] Thomas Pare Mediatek | X | | | IMAT-YES

 [V] Cheng Chen, Intel | X | | | IMAT-YES

 [V] Kapil Rai, Qualcomm | | X | | IMAT-YES

 [V] Der-Zheng Liu, Realtek | X | | | IMAT-YES

 [PV] Eason chang, Mediatek | X | | | INVALID VOTE: NO MATCH FOUND!

 [N]yan liZTE | | X | | IMAT-YES

 [V] Danny Alexander - intel | X | | | IMAT-NO

# Appendix C – Motion 323 results

Calculated Results : 91Y, 75N, 32A, [54%]

Amended Results : 89Y, 71N, 32A, [55%]

Amended Results [INCL. IMAT]: 79Y, 56N, 28A, [58%]

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 [PV] Vishnu V Ratnam, Samsung Research America | | X | | IMAT-YES

 [V] Prabodh Varshney Nokia | | X | | IMAT-YES

 Qi Wang | X | | | IMAT-YES

 Jarkko Kneckt | X | | | IMAT-NO

 Sidharth Thakur | X | | | IMAT-YES

 [V] Jon Rosdahl, Qualcomm | X | | | IMAT-YES

 [V] Li-Hsiang Sun Sony | X | | | IMAT-YES

 [V] Sai [Synaptics] | | | X | IMAT-NO

 [V] Ross Jian Yu Huawei | | X | | IMAT-YES

 [V] Bo Gong Huawei | | X | | IMAT-YES

 [V] Gaurang Naik Qualcomm | X | | | IMAT-YES

 [V]XIANDONG DONG XIAOMI | | X | | IMAT-YES

 [V] Yousi Lin Huawei | | X | | IMAT-NO

 [V] Jay Yang Nokia | X | | | IMAT-YES

 [V] Mengshi Hu Huawei | | X | | IMAT-YES

 [V] Jason Yuchen Guo Huawei | | X | | IMAT-NO

 [V] Guogang Huang Huawei | | X | | IMAT-YES

 [V] Steve TS Yang Mediatek | | X | | IMAT-YES

 [V] Lei Huang OPPO | | | X | IMAT-YES

 [V] Hongjia Su Huawei | | X | | IMAT-NO

 [V] Bo Sun | X | | | IMAT-YES

 [V] Jia Jia Huawei | | X | | IMAT-YES

 [V] James Chiang, MediaTek | | X | | IMAT-YES

 [V] Yiqing Li Huawei | | X | | IMAT-YES

 [V] Yuxin Lu Huawei | | X | | IMAT-YES

 [V] Rojan Chitrakar Panasonic | X | | | IMAT-YES

 [V] Jiayin Zhang Huawei | | X | | IMAT-YES

 [V] Wei Lin Huawei | | X | | IMAT-YES

 [V] Liuming Lu OPPO | | | X | IMAT-YES

 [V] David Yang | | X | | IMAT-NO

 [V] Xiaoman Shen Huawei | | X | | IMAT-YES

 Veena Srivatsa | | X | | INVALID VOTE: NON VOTER

 [V] Yunbo Li, Huawei | | X | | IMAT-NO

 [V] B Hari Ram NXP | X | | | IMAT-NO

 [V] Robert Stacey, Intel | X | | | IMAT-YES

 [V] Bin Tian Qualcomm | X | | | IMAT-YES

 [V] Kanke Wu Qualcomm | X | | | IMAT-YES

 [V] Youhan Kim, Qualcomm | X | | | IMAT-YES

 [v] kaiying lu MediaTek | | X | | IMAT-NO

 [V] George Cherian Qualcomm | X | | | IMAT-YES

 [PV] Abdel Karim Ajami, Qualcomm | X | | | IMAT-YES

 [V] Chunyu Hu [Meta] | | | X | IMAT-YES

 [V] Eldad Perahia, HPE | | X | | IMAT-YES

 [v] Rolf de Vegt Qualcomm | X | | | IMAT-YES

 [V] Liwen Chu NXP | X | | | IMAT-YES

 [V] Boon Loong Ng Samsung Research America | | X | | IMAT-YES

 [V] Yujin Noh Senscomm | | | X | IMAT-NO

 [V] Allan Jones, Activision | | X | | IMAT-YES

 [V] Dibakar Das, Intel | X | | | IMAT-YES

 [V] Abhishek Patil Qualcomm | X | | | IMAT-YES

 [V] Minyoung Park Intel | X | | | IMAT-YES

 [V] Matthew Fischer Broadcom | X | | | IMAT-YES

 [V] Alice Jialing Li Chen Qualcomm | X | | | IMAT-YES

 [V] Duncan Ho, Qualcomm | X | | | IMAT-NO

 [V] Junyoung Nam Qualcomm | X | | | IMAT-YES

 [V] Shivraj Sandhu Qualcomm | X | | | IMAT-YES

 [V] Wook Bong Lee Samsung | X | | | IMAT-YES

 [V] Anuj Batra Apple | X | | | IMAT-YES

 Yong Liu | X | | | IMAT-YES

 [V] Gaurav Patwardhan HPE | X | | | IMAT-YES

 [V] Ruchen Duan Samsung | | | X | IMAT-YES

 [V] VK Jones Qualcomm Inc | X | | | IMAT-YES

 [V]John Yi, SPRD | X | | | IMAT-YES

 [V] Diana Cortes [Google] | | X | | IMAT-YES

 SK Yong | X | | | IMAT-YES

 [V] Dmitry Akhmetov, Intel | X | | | IMAT-YES

 [PV] Binita Gupta, Meta | | | X | IMAT-YES

 [V] Vinko Erceg - Broadcom | | | X | IMAT-YES

 [V] Yanjun Sun Qualcomm | X | | | IMAT-YES

 [V] Bibhu Mohanty, Qualcomm | X | | | IMAT-YES

 [V] Yongho Seok MediaTek. | | X | | IMAT-YES

 [V] Muhammad Kumail Haider, Meta | X | | | IMAT-YES

 [v] Mohamed Abouelseoud Apple | X | | | IMAT-YES

 [V] Menzo Wentink Qualcomm | X | | | IMAT-YES

 [V] Romain GUIGNARD Canon | | | X | IMAT-YES

 [V] Geert Awater, Qualcomm | X | | | IMAT-YES

 [V] Laurent Cariou, Intel | X | | | IMAT-NO

 [V] Yaron Ben-Arie [Huawei] | | X | | IMAT-YES

 [V] Dmitry Bankov, IITP RAS | | X | | IMAT-YES

 [V] Ilya Levitsky IITP RAS | | X | | IMAT-YES

 [V] Jouni Malinen Qualcomm | X | | | IMAT-YES

 [V] Shimi Shilo Huawei | | X | | IMAT-YES

 [V] Ezer Melzer, Huawei | | X | | IMAT-YES

 [V] Allert van Zelst, Qualcomm | X | | | IMAT-YES

 [V] Oded Redlich Huawei | | X | | IMAT-YES

 [V] Stephane Baron Canon | X | | | IMAT-NO

 [PV] Kirill Chemrov IITP RAS | | X | | IMAT-YES

 [V] Pascal Viger, Canon | | | X | IMAT-YES

 [V] Ebubekir Memisoglu IMU; VESTEL | X | | | IMAT-YES

 [V] Arik Klein Huawei | | X | | IMAT-YES

 [V] Michail Koundourakis, Samsung | | | X | IMAT-YES

 [V] Julien SEVIN, Canon | X | | | IMAT-YES

 [V] Patrice NEZOU, Canon | X | | | IMAT-YES

 [V] Brice LeHouerou Canon | X | | | IMAT-YES

 [V] Mickael LORGEOUX Canon | X | | | IMAT-YES

 [V] Genadiy Tsodik Huawei | | X | | IMAT-YES

 [V] Alecsander Eitan Qualcomm | X | | | IMAT-NO

 [A] Oren Kedem MaxLinear | X | | | IMAT-YES

 [V] Klimakov Andrey Huawei | | X | | IMAT-YES

 [V] Thomas Handte Sony | | | X | IMAT-YES

 [V] Dror Regev Huawei | | X | | IMAT-YES

 [V] Vyacheslav Loginov, IITP RAS | | X | | IMAT-YES

 [V] Alexander Tolpin, Intel | X | | | IMAT-YES

 [V] Miguel Lopez Ericsson | | X | | IMAT-YES

 [V] Stephen McCann, Huawei | | X | | IMAT-NO

 [V] Massinissa Lalam, Sagemcom | X | | | IMAT-YES

 [V] Richard Van Nee Qualcomm | X | | | IMAT-YES

 [V] Zhongjiang Yan Northwestern Polytechnical University | | X | | IMAT-YES

 [V]Bo Li Northwestern Polytechnical University | | X | | IMAT-YES

 [V] Kazuto Yano ATR | | | X | IMAT-YES

 [V] Mao Yang Northwestern Polytechnical University | | X | | IMAT-YES

 [V] SunHee Baek LGE | | | X | IMAT-YES

 [V] Rob Sun Huawei Technologies | | X | | INVALID VOTE: NO MATCH FOUND!

 [V]Mengyao Ma Huawei | | X | | IMAT-YES

 [V] Eunsung Park LGE | | | X | IMAT-YES

 [V] Zhiqiang Han,ZTE | | X | | IMAT-NO

 [V] Hirohiko Inohiza Canon | | | X | IMAT-YES

 [V] Jiin Kim LG Electronics | | | X | IMAT-NO

 [V] Sanghyun Kim WILUS Inc. | | | X | IMAT-YES

 [V] Chenhe Ji Huawei | | X | | IMAT-NO

 [V] Akira Kishida NTT | | | X | IMAT-YES

 [V] Eunsung Jeon Samsung | X | | | IMAT-YES

 [V] Ryuichi Hirata Sony | | | X | IMAT-YES

 [V] Seungho Choo Senscomm Semiconductor Co., Ltd. | X | | | IMAT-YES

 [A]Ostrovsky Hsu Xiaomi | X | | | INVALID VOTE: NON VOTER

 [V] Ming Gan Huawei | | X | | IMAT-NO

 [V] Jeongki Kim Ofinno | X | | | IMAT-YES

 [V] Lily Yunping Lv Huawei | | X | | IMAT-NO

 [V] Hiroyuki Motozuka, Panasonic | | | X | IMAT-YES

 Tongxin Shu Huawei | | X | | INVALID VOTE: NO MATCH FOUND!

 [V] Jinsoo Choi LG | | | X | IMAT-YES

 [V] Cheng-Ming Chen Qualcomm | X | | | IMAT-YES

 [V] Lan Peng | | X | | IMAT-YES

 [V]HungTao Hsieh, Mediatek | | X | | IMAT-YES

 [V] Greg Geonjung Ko WILUS | | | X | IMAT-YES

 [V] Chien-Fang Hsu [Frank], Mediatek | | X | | IMAT-YES

 [PV] Zisheng Wang, ZTE | X | | | IMAT-YES

 [V]Tsung-han Tsai KevinMediatek | | X | | IMAT-NO

 [V] Zhenguo Du Huawei | | X | | IMAT-NO

 [V] Mao Yu Anyka | X | | | IMAT-YES

 [V] Tomoko Adachi Toshiba | X | | | IMAT-YES

 [V] Osama Aboul-Magd Huawei | | X | | IMAT-YES

 [V] Mahmoud Kamel InterDigital | | | X | IMAT-YES

 [V] Subir Peraton Labs | X | | | IMAT-YES

 [V] John Wullert, Peraton Labs | X | | | IMAT-YES

 [V] Al Petrick InterDigital | | X | | IMAT-YES

 [V] Xiaofei Wang InterDigital | | | X | IMAT-YES

 [V] Ray Yang, InterDigital | | | X | IMAT-YES

 [V] Joseph Levy, InterDigital | | X | | IMAT-YES

 [V] Mor Reich, Huawei | | X | | IMAT-YES

 [V] Kiran Rege [Peraton Labs] | | | X | IMAT-YES

 [PV] Kiseon Ryu, Ofinno | X | | | IMAT-YES

 [V] Carol Ansley Cox | | X | | IMAT-YES

 [V] Edward Au, Huawei | | X | | IMAT-YES

 [V] Lili Hervieu CableLabs | | | X | IMAT-NO

 [V] Hanqing Lou InterDigital | | | X | IMAT-YES

 [V] Jung Hoon Suh Huawei | | X | | IMAT-NO

 [V]Manish Kumar -NXP | X | | | IMAT-YES

 [V] Zinan Lin InterDigital | | | X | IMAT-YES

 [V] Naveen Kakani, Qualcomm | X | | | IMAT-YES

 [V] Jim Lansford Qualcomm | X | | | IMAT-YES

 [PV] Vamsi Amalladinne | X | | | IMAT-YES

 [V] James Yee, MediaTek | | X | | IMAT-YES

 [V] Ahmed Elsherif Qualcomm | X | | | IMAT-NO

 [V] Mike Montemurro Huawei | | X | | IMAT-YES

 [V] Frank Suraci DHS | X | | | IMAT-YES

 [V] Meriam Rezk Qualcomm | X | | | IMAT-YES

 [V] Thomas Derham Broadcom | | | X | IMAT-YES

 [V] Dave Intel | X | | | IMAT-YES

 [V] Noel Stott Keysight Technologies | | | X | IMAT-YES

 [V] Lei Wang Futurewei | | X | | IMAT-YES

 [V] Julia Shuling Feng MediaTek | | X | | IMAT-NO

 [V] Srinivas Kandala Samsung | X | | | IMAT-YES

 [V] Tristan Zou Qualcomm | X | | | INVALID VOTE: NON VOTER

 [V] Paul Cheng MediaTek | | X | | IMAT-YES

 [V] Yonggang Fang MediaTek | | X | | IMAT-YES

 [V] Gabor Bajko Mediatek | X | | | IMAT-NO

 Daniel Borges | X | | | IMAT-YES

 [V] Lochan Verma, Apple | X | | | IMAT-YES

 [V] Chao-Chun Wang MediaTek | | X | | IMAT-YES

 [V] Debashis Dash Apple | X | | | IMAT-YES

 [V] Tianyu Wu Apple | X | | | IMAT-YES

 [V] Juan Fang, Intel | X | | | IMAT-YES

 [V] Paul Strauch, Qualcomm | X | | | IMAT-YES

 [V] Alan Berkema, HP Inc. | | X | | IMAT-YES

 [V] Dan Bravo, Intel | X | | | IMAT-YES

 Qinghua Li, Intel | X | | | IMAT-YES

 [V] Po-Kai Huang Intel | X | | | IMAT-YES

 [V] Thomas Pare Mediatek | | X | | IMAT-YES

 [V] Cheng Chen, Intel | X | | | IMAT-YES

 [V] Sean Coffey Realtek | | X | | IMAT-YES

 [V] Kapil Rai, Qualcomm | X | | | IMAT-YES

 [V] Sugbong Kang, Apple Inc | X | | | IMAT-YES

 [V] Der-Zheng Liu, Realtek | X | | | IMAT-YES

 [PV] Eason chang, Mediatek | | X | | INVALID VOTE: NO MATCH FOUND!

 [N]yan liZTE | | X | | IMAT-YES

 [V] Danny Alexander - intel | X | | | IMAT-NO

 [V] François Thoumy Canon | X | | | IMAT-NO