IEEE P802.11
Wireless LANs

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| IEEE 802.11TGax July 2020 Meeting Minutes |
| Date: 2020-07-16 |
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Abstract

This document contains the minutes from the TGax session during the July 2020 electronic plenary meeting.

Revision History:

* R0: Initial version.

**Tuesday, July 14th, 2020, TGax Electronic Meeting (10:00 AM - 12:00 ET)**

1. **The meeting called to order at 10:02 (ET) by Osama Aboul-Magd (Huawei Technologies), the chairperson of 802.11 TGax.**
	1. Introduction of TGax chairperson and secretary.
	2. The agenda document doc.11-20/0538r45.
2. **Attendees**
	1. Abdelaal, Rana (Broadcom)
	2. Aboul-Magd, Osama (Huawei Technologies)
	3. Adachi, Tomoko (TOSHIBA)
	4. Adhikari, Shubhodeep (Broadcom)
	5. Agarwal, Peyush (Broadcom)
	6. Aio, Kosuke (Sony)
	7. Asterjadhi, Alfred (Qualcomm)
	8. B, Hari Ram (NXP Semiconductors)
	9. Baik, Eugene (Qualcomm)
	10. Banerjea, Raja (Qualcomm)
	11. Bankov, Dmitry (IITP RAS)
	12. Baron, Stephane (Canon Research Centre France)
	13. Bechadergue, Bastien (OLEDCOMM)
	14. Ben Arie, Yaron (HUAWEI)
	15. Berner, Stephan (PureLiFi)
	16. Bhandaru, Nehru (Broadcom)
	17. Bluschke, Andreas (Signify)
	18. Boldy, David (Broadcom)
	19. Cariou, Laurent (Intel)
	20. Cha, Jaesun (ETRI)
	21. Chen, Cheng-Ming (Qualcomm)
	22. Cherian, George (Qualcomm)
	23. Chu, Liwen (NXP Semiconductors)
	24. Chung, Bruce (Realtek Semiconductor)
	25. Coffey, John (Realtek Semiconductor)
	26. Das, Dibakar (Intel)
	27. Das, Subir (Perspecta Labs)
	28. Dauphinee, Leonard (MaxLinear)
	29. Davies, Robert (Signify)
	30. Derham, Thomas (Broadcom)
	31. Ding, Baokun (Huawei Technologies)
	32. Ding, Yanyi (Panasonic)
	33. Doan, Dung (Qualcomm)
	34. Dogukan, Ali (Vestel)
	35. Duan, Ruchen (Samsung)
	36. Edgar, Richard (Imagination Technologies)
	37. ElSherif, Ahmed (Qualcomm)
	38. Erceg, Vinko (Broadcom)
	39. Fischer, Matthew (Broadcom)
	40. Fletcher, Paul (Samsung Cambridge Solution Center)
	41. Gan, Ming (Huawei Technologies)
	42. Gardner, James (Qualcomm)
	43. Ghosh, Chittabrata (Intel)
	44. Guo, Yuchen (Huawei Technologies)
	45. Haider, Muhammad Kumail (Facebook)
	46. Hervieu, Lili (CableLabs)
	47. Hiertz, Guido (Ericsson GmbH)
	48. Hirata, Ryuichi (Sony)
	49. Hiroki, Shigeru (Canon)
	50. Hsiao, Ching-Wen (MediaTek)
	51. Hsieh, Hung-Tao (MediaTek)
	52. Hsu, Chien-Fang (MediaTek)
	53. Hu, Mengshi (Huawei Technologies)
	54. Huang, Guogang (Huawei Technologies)
	55. Huang, Po-Kai (Intel)
	56. Huang, Xiaolong (Qualcomm)
	57. Ibrahim, Mostafa (Samsung)
	58. IDO, Tetsuo (Canon)
	59. Inohiza, Hirohiko (Canon)
	60. Inoue, Yasuhiko (NTT)
	61. Jia, Jia (Huawei Technologies)
	62. Jiang, Jinjing (Apple)
	63. Jones, Allan (Activision)
	64. Jones, Steven (Samsung Cambridge Solution Center)
	65. Jones, Vincent Knowles IV (Qualcomm)
	66. Kakani, Naveen (Qualcomm)
	67. Kandala, Srinivas (Samsung)
	68. Kim, Eunhee (ETRI)
	69. Kim, Youhan (Qualcomm)
	70. Kishida, Akira (NTT)
	71. Klein, Arik (Huawei Technologies)
	72. Klimakov, Andrey (Huawei Technologies)
	73. Kneckt, Jarkko (Apple)
	74. Lalam, Massinissa (SAGEMCOM SAS)
	75. Lan, Zhou (Broadcom)
	76. Lee, Jae Seung (ETRI)
	77. Lee, Kyeseon (ETRI)
	78. Lee, Nancy (Signify)
	79. Lee, Wookbong (Samsung)
	80. Li, Bo (Northwestern Polytechnical University)
	81. Li, Jialing (Qualcomm)
	82. Li, Yanchun (Huawei Technologies France)
	83. Li, Yiqing (Huawei Technologies)
3. **Agenda Setting**
	1. Proposed agenda for the TGax online session on July 14th, 2020.
		1. Call meeting to order
		2. IEEE-SA IPR policy and Procedure
		3. Attendance Reminder – Please record your attendance on IMAT (imat.ieee.org)
		4. Comment Resolution Status – Robert Stacey
		5. CR Motion
			1. Doc.11-20-1022: CIDs 24381, 24389, 24403, 24470, 24565
			2. Doc.11-20-0979: CIDs 24222, 24223, 24224
			3. Doc.11-20-0958: Text change
		6. CR Submissions
		7. <https://mentor.ieee.org/802.11/dcn/20/11-20-1029-00-00ax-phy-capability-he-mu-ppdu-rx-max-nhe-ltf-proposal.docx> - Yan Zhang
		8. <https://mentor.ieee.org/802.11/dcn/20/11-20-1068-00-00ax-sa1-misc-cr.docx> - Youhan Kim
		9. <https://mentor.ieee.org/802.11/dcn/20/11-20-1054-00-00ax-resolutions-to-cids-24093-24097.docx> - Tomoko Adachi
		10. <https://mentor.ieee.org/802.11/dcn/20/11-20-0716-05-00ax-sa1-sounding-comments.docx> - Menzo Wentink
		11. AoB
		12. Adjourn
	2. Chair asked if there is any objection to proceed with this agenda.
		1. Discussion – No discussion
		2. **The agenda for TGax online session on July 14th, 2020 was approved.**
4. **IEEE 802 and 802.11 IPR policy and procedure**
	1. Patent Policy:
	2. Participants have a duty to inform the IEEE - done.
		* Participants shall inform the IEEE (or cause the IEEE to be informed) of the identity of each holder of any potential Essential Patent Claims of which they are personally aware if the claims are owned or controlled by the participant or the entity the participant is from, employed by, or otherwise represents
		* Participants should inform the IEEE (or cause the IEEE to be informed) of the identity of any other holders of potential Essential Patent Claims
	3. Ways to inform IEEE: - done
		* 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
		1. Chair asked if anyone in this meeting is aware of any potentially essential patents.
			1. **No potentially essential patent reported.**
	4. Other guidelines for IEEE WG meetings – done
	5. Patent-related information – done
	6. Participant behavior in IEEE-SA activities is guided by the IEEE Codes of Ethics & Conduct - done
	7. Participants in the IEEE-SA “individual process” shall act independently of others, including employers - done
	8. IEEE-SA standards activities shall allow the fair & equitable consideration of all viewpoints - done
5. **Announcement**
	1. Attendance @ imat.ieee.org. Please indicate the voter status by adding [V] or [NV] before your name on WebEx.
6. **CR Motion**
	1. **Doc.11-20-0958-00, “Filtered Neighbor AP subfield in Reduced Neighbor Report element,” by Abhishek Patil (Qualcomm)**
		1. Summary
			1. As explained in the previous teleconference, this change was for the consistency with the change made by TGmd.
			2. Abhishek is not on the call. There is no change after the last presentation.
		2. Discussion – No discussion.
		3. **MAC Motion #134: Move to accept text changes in doc 11-20/0958r0.**
			1. **Moved by Alfred Asterjadhi, Seconded by Menzo Wentink**
			2. **Discussion on the motion – no discussion.**
			3. **Result: Approved by unanimous consent.**
	2. **Doc.11-20-0979, “MAC CR BSS Load,” by Ming Gan (Huawei Technologies)**
		1. Summary
			1. No issue was reported since the last presentation.
		2. Discussion – no discussion.

* + 1. **CR Motion #1071: Move to accept resolutions to CIDs 24222, 24223, 24224 in doc 11-20/979r1.**
			1. **Moved by Alfred Asterjadhi, Seconded by Mark Rison**
			2. **Discussion on the motion – no discussion.**
			3. **Result: Approved by unanimous consent.**
1. **CR Submission**
	1. **Yan Zhang (NXP Semiconductor) presented “PHY capability “HE MU PPDU *NHE-LTF* Rx” proposal,” based on the doc.11-20-1029-00.**
		1. Summary
			1. This is not a comment resolution, but proposal to add a new subfield “HE MU PPDU Rx Max *NHE-LTF*” in PHY capabilities information field.
		2. Discussion
			1. The group discussed beamforming related capabilities for a STA as a beamformee. Some people disagreed with the proposed change.
		3. Next Step
			1. There will be email discussion related to this topic.
	2. **Youhan Kim (Qualcomm) presented “SA1 Miscellaneous CR,” based on the doc.11-20-1068-01.**
		1. Summary
			1. Resolutions for the comments with CIDs 24168, 24420, 24424 related to PHY specification defined in the IEEE 802.11ax D6.0 are proposed.
		2. Discussion
			1. CID 24168: A member mentioned that the analysis was fine and asked if the commenter was satisfied with the resolution. 🡪 The commenter will review the proposed resolution. At the end of Youhan’s presentation, the commenter mentioned he was happy with the resolution.
			2. CID 24420: A similar comment (CID 24405) has already been accepted. However, the resolution should be revised rather than accepted since the proposed change does not contain editing instruction.
			3. CID 24424: A participant commented that the resolution should be accepted which Youhan disagreed.
		3. Next Step
			1. There will be a motion to approve the proposed resolution in the next teleconference.
	3. **Tomoko Adachi (Toshiba) presented “Resolutions to CIDs 24093-24097,” based on the doc.11-20-1054-00.**
		1. Summary
			1. Resolutions for the comments with CID 24093, 24094, 24095, 24096 and 24097 related to subclause 26.4.4 (Per-PPDU acknowledgment selection rules) defined in the IEEE 802.11ax D6.0 are proposed.
		2. Discussion
			1. There was a request to delete the duplicated text.
		3. Next Step
			1. There will be a motion to approve the proposed resolutions.
	4. **Menzo Wentink (Qualcomm) presented “11ax SA1 sounding comments,” based on the doc.11-20-0716-05.**
		1. Summary
			1. Menzo got 5 more comments (CID 24511, 24010, 24011, 24012, 24013).
			2. A new table (Table 9-31a1) is proposed as the proposed resolution to CID 24511.
		2. Discussion
			1. No discussion.
		3. Next Step
			1. There will be a motion to approve the proposed resolutions on Thursday.
2. **AoB**
	1. 10 minutes left.
3. **Adjournment**
	1. TGax electronic meeting has adjourned @ 11:50 (ET).