IEEE P802.11
Wireless LANs

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| IEEE 802.11Minutes of TGax CRC Teleconferences June 2020 |
| Date: 2020-06-02 |
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Abstract

This document contains the minutes from the TGax teleconferences June, 2020.

Revision History:

* R0: Initial version.
	+ Minutes of TGax CRC call on June 2nd, 2020.
* R1: Included the minutes from TGax CRC teleconference on June 4th, 2020.

**Tuesday, June 2nd, 2020, TGax CRC Teleconference (10:00 AM - 12:00 ET)**

1. **The meeting called to order at 10:04 (ET) by Osama Aboul-Magd (Huawei Technologies), the chairperson of 802.11 TGax.**
	1. Introduction of TGax chairperson and secretary.
	2. The agenda document 20/0538r26 is the working document (revision 25 is on the server).
2. **Attendees**
	1. Aboul-Magd, Osama (Huawei Technologies)
	2. Asterjadhi, Alfred (Qualcomm)
	3. Baron, Stephane (Canon)
	4. Cariou, Laurent (Intel)
	5. Chen, Xiaogang (Intel)
	6. Chu, Liwen (NXP)
	7. Coffey, John (RealTek)
	8. Derham, Thomas (Broadcom)
	9. Fischer, Matthew (Broadcom)
	10. Herveu, Lili (CableLabs)
	11. Inoue, Yasuhiko (NTT)
	12. Jones, VK (Qualcomm)
	13. Kim, Youhan (Qualcomm)
	14. Kneckt, Jarkko (Apple)
	15. Petrick, Albert (InterDigital)
	16. Rison, Mark (Samsung)
	17. Sun, Bo (ZTE)
	18. Tian, Bin (Qualcomm)
	19. Yang, Rui (InterDigital)
	20. Yu, Mao (NXP)
	21. Zhang, Yan (NXP)
3. **Agenda Setting**
	1. Proposed agenda for the TGax CRC teleconference on June 2nd, 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. CR Submissions
			1. <https://mentor.ieee.org/802.11/dcn/20/11-20-0792-00-00ax-crs-on-miscellaneous-phy-cids.docx> - Bin Tian
			2. <https://mentor.ieee.org/802.11/dcn/20/11-20-0833-00-00ax-cr-smoothing.docx> - Ron Porat
			3. <https://mentor.ieee.org/802.11/dcn/20/11-20-0717-07-00ax-cr-misc-phy.docx> - Xiaogang Chen
			4. <https://mentor.ieee.org/802.11/dcn/20/11-20-0822-00-00ax-miscellaneous-6ghz-channelization-cids.docx> - Thomas Derham
		5. AoB
		6. Adjourn
	2. Chair asked if there is any objection to proceed with this agenda.
		1. Discussion – No discussion
		2. **The agenda for TGax CRC teleconference on June 2nd, 2020 is 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. The duration of this conference call is 2 hours.
	2. Attendance @ imat.ieee.org. Please indicate the voter status by adding [V] or [NV] before your name on WebEx.
6. **CR submissions**
	1. **Bin Tian (Qualcomm) presented “CRs on Miscellaneous PHY CIDs,” based on the submission doc.11-20-0792-00.**
		1. Summary
			1. Resolution for the comments with following CIDs related to the PHY specification of the IEEE 802.11ax D6.0 are proposed.
				1. CIDs: • 24046, 24502, 24560, 24561.
		2. Discussion
			1. CID 24502: The commenter mentioned that the discussion during the WG letter ballot phase is not valid reason for the rejection since we are in the IEEE-SA ballot phase. 🡪 We can have the same straw poll as we had during the WG letter ballot phase. The group discussed the cases for HEMUBeamformerOptionImplemented is true and HESUBeamformerOptionImplemented is true. As a result of the discussion, the text in the resolution column will be updated.
			2. CID 24561: A participant asked for the reason why some forms of L-STF and L-LTT are still needed even in green field design as described in the resolution column. The answer was that those fields are needed for packet detection and identification of PHY format.
		3. Next Step
			1. Bin will update the document incorporating the result of discussion.
7. **AoB**
	1. No other CR submission is available today.
	2. Chairperson asked for the need for puncturing discussion during the next teleconference (Thusday).
		1. A participant prefers to have the discussion next week.
8. **Adjournment**
	1. TGax CRC teleconference has adjourned @ 10:37 AM (ET).

**Tuesday, June 4th, 2020, TGax CRC Teleconference (10:00 AM - 13:00 ET)**

1. **The meeting called to order at 10:04 (ET) by Osama Aboul-Magd (Huawei Technologies), the chairperson of 802.11 TGax.**
	1. Introduction of TGax chairperson and secretary.
	2. The agenda document 20/0538r27 is the working document (revision 26 is on the server).
2. **Attendees**
	1. Aboul-Magd, Osama (Huawei Technologies)
	2. An, Song-Haur (Independent)
	3. Asterjadhi, Alfred (Qualcomm)
	4. Baron, Stephane (Canon)
	5. Chen, Xiaogang (Intel)
	6. Chu, Liwen (NXP)
	7. Coffey, John (RealTek)
	8. Derham, Thomas (Broadcom)
	9. Fischer, Matthew (Broadcom)
	10. Huang, Po-Kai (Intel)
	11. Inoue, Yasuhiko (NTT)
	12. Kandala, Srinivas (Samsung)
	13. Kim, Jeongki (LG Electronics)
	14. Kim, Youhan (Qualcomm)
	15. Kneckt, Jarkko (Apple)
	16. Kumar, Manish (NXP)
	17. Lu, Kaiying (MediaTek)
	18. Patil, Abhishek (Qualcomm)
	19. Petrick, Albert (InterDigital)
	20. Rison, Mark (Samsung)
	21. Rosdahl, Jon (Qualcomm)
	22. Stacey, Robert (Intel)
	23. Sun, Bo (ZTE)
	24. Wang, Xiaofei (InterDigital)
	25. Wentink, Menzo (Qualcomm)
	26. Yang, Rui (InterDigital)
3. **Agenda Setting**
	1. Proposed agenda for the TGax CRC teleconference on June 4th, 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. CR Submissions
			1. <https://mentor.ieee.org/802.11/dcn/20/11-20-0833-00-00ax-cr-smoothing.docx> - Ron Porat
			2. <https://mentor.ieee.org/802.11/dcn/20/11-20-0851-00-00ax-comment-resolution-related-to-qtp.docx> - Kaiying Lu
			3. <https://mentor.ieee.org/802.11/dcn/20/11-20-0717-07-00ax-cr-misc-phy.docx> - Xiaogang Chen
		5. AoB
		6. Adjourn
	2. Chair asked if there is any objection to proceed with this agenda.
		1. Discussion – No discussion
		2. **The agenda for TGax CRC teleconference on June 4th, 2020 is 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. The chairperson reminded to record attendance @ imat.ieee.org.
	2. Please indicate the voter status by adding [V] or [NV] before your name on WebEx.
6. **CR submissions**
	1. **Kaiying Lu (MediaTek) presented “Proposed resolution for CIDs Related to Quiet Time Period,” based on the submission doc.11-20-0851-00.**
		* 1. Summaryｇclauses 26.17.5, B.4.33.1, and C.3 of the IEEE 802.11ax D6.0 with following CIDs are proposed.
				1. CIDs: 24016, 24158, 24159, 24160
		1. Discussion
			1. CID 24158: Kaiying added a new entry in B.4.33.1 (PICS – HE MAC features).
			2. CID 24160: (Re: dot11QTPOptionActivated) A member commented that he is not sure whether “<something>Activated” is correct naming of MIB entry. Need to check with ARC SC. The group discussed requirement related to Quiet Time Period setup.
		2. Next Step
			1. Kaiying to have offline discussion and update the submission. The plan is to approve the proposed resolutions during the teleconference on next Thursday.
	2. **Xiaofei Wang (InterDigital) presented “CR for BSS Color Related CIDs,” based on the submission doc.11-20-0852-03.**
		1. Summary
			1. Resolutions for the comments related to BSS Color defined in the IEEE 802.11ax D6.0 with following CIDs are proposed.
				1. CIDs: 24375 and 24376.
		2. Discussion
			1. The BSS Color related CIDs were resolved in doc.11-20-0316, however, the CIDs 24375 and 24376 are not included.
			2. CID 24376: Some offline work was suggested.
		3. Next Step
			1. There will be a motion to approve the proposed resolutions on Thursday next week.
	3. **Youhan Kim (Qualcomm) presented “SA1 PHY CR,” based on the submission doc.11-20-0862-01.**
		1. Summary
			1. Resolutions for the comments related to PHY specification defined in the IEEE 802.11ax D6.0 with following CIDs are proposed.
				1. CIDs: 24447, 24544, 24448, 24476, 24188, 24190, 24263, 24264, 24279, 24519
		2. Discussion
			1. There were some discussion but basically all the resolutions seems to be good.
		3. Next Step
			1. There will be a motion to approve the proposed resolutions on Thursday next week.
7. **Updates on CR submission**
	1. **Doc.11-20-0717, “CR for MISC. PHY,” by Xiaogang Chen (Intel)**
		1. Summary
			1. Xiaogang presented the updates on remaining CIDs in 20/717.
				1. Remaining CIDs: 24297, 24326 and 24407
		2. Discussion
			1. The group discussed consistency between the proposed change and HE-SIG-A1 related spec.
		3. Next Step
			1. There will be a motion to approve the proposed resolutions on Thursday next week.
	2. **Doc.11-20-0581, “CR for BSS Color Related CIDs,” by Xiaofei Wang (InterDigital)**
		1. Summary
			1. Xiaofei updated the doc.11-20-0581 during this teleconference.
		2. Discussion
			1. A participant discussed possibility of extension/further change of BSS Color related spec.
		3. Next Step
			1. Xiafei to have offline discussion. There will be a motion to approve the proposed resolutions on Thursday next week.
8. **AoB**
	1. No other business for today.
9. **Adjournment**
	1. TGax CRC teleconference on June 4th, 2020 has adjourned @ 11:13 AM (ET).