IEEE P802.11
Wireless LANs

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| IEEE 802.11TGax CRC Teleconferences Minutes July 2020 |
| Date: 2020-07-09 |
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Abstract

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

Revision History:

* R0: Initial version.
	+ Minutes of TGax CRC call on July 2nd, 2020.
* R1: Minutes of TGax CRC teleconference on July 7th, 2020 are included.

**Thursday, July 2nd, 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 20/0538r38 is the working document (revision 37 is on the server).
2. **Attendees**
	1. Aboul-Magd, Osama (Huawei Technologies)
	2. Asterjadhi, Alfred (Qualcomm)
	3. Baron, Stephane (Canon)
	4. Chen, Xiaogang (Intel)
	5. Chu, Liwen (NXP)
	6. Hunag, Po-Kai (Intel)
	7. Gan, Ming (Huawei Technologies)
	8. Inoue, Yasuhiko (NTT)
	9. Kakani, Naveen (Qualcomm)
	10. Kim, Youhan (Qualcomm)
	11. Patil Abhishek (Qualcomm)
	12. Rai, Kapil (Qualcomm)
	13. Rison, Mark (Samsung)
	14. Sakoda, Kazuyuki (Sony)
	15. Stacey, Robert (Intel)
	16. Sun, Bo (ZTE)
	17. Yang, Rui (InterDigital)
	18. Yu, Mao (NXP)
3. **Agenda Setting**
	1. Proposed agenda for the TGax CRC teleconference on July 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. Comment Resolution Status – Robert Stacey
		5. CR Motion
			1. Doc.11-20-0951: CID 24525
		6. CR Submissions
			1. [11-20/0979](https://mentor.ieee.org/802.11/dcn/20/11-20-0979-01-00ax-mac-cr-on-bss-load-for-draft-6-0.doc), “MAC CR on BSS Load for Draft 6.0,” by Ming Gan (Huawei Technologies)
			2. [11-20/0980](https://mentor.ieee.org/802.11/dcn/20/11-20-0980-01-00ax-mac-cr-on-mu-cascading-for-draft-6-0.doc), “Mac CR on MU Cascading for Draft 6.0,” by Ming Gan (Huawei Technologies)
			3. [11-20/0981](https://mentor.ieee.org/802.11/dcn/20/11-20-0981-01-00ax-mac-cr-on-fragmentation-for-draft-6-0.doc), “MAC CR on Fragmentation for Draft 6.0,” by Ming Gan (Huawei Technologies)
		7. AoB
		8. 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 July 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. Attendance @ imat.ieee.org. Please indicate the voter status by adding [V] or [NV] before your name on WebEx.
6. **CR Motion**
	1. [**Doc.11-20-0951**](https://mentor.ieee.org/802.11/dcn/20/11-20-0951-01-00ax-cr-for-cid-24525.docx)**, “Proposed resolution for CID 24525,” by Kaiying Lu (MediaTek)**
		1. Kaiying was not on the call. Chairperson asked if the group could have a motion to approve the resolution.
		2. Discussion
			1. A member asked for more detailed reason for the rejection.
		3. Next Step
			1. Motion will be conducted during the next teleconference.
7. **CR submissions**
	1. **Ming Gan (Huawei Technologies) presented “MAC CR BSS Load,” based on the submission doc.11-20-0979-01.**
		1. Summary
			1. Resolution for the comments related to the defined by the IEEE 802.11ax D6.0 with following CIDs are proposed.
				1. CIDs: 24222, 24223, 24224.
		2. Discussion
			1. No discussion.
		3. Next Step
			1. There will be a motion to approve the proposed resolution in the next teleconference.
	2. **Ming Gan (Huawei Technologies) presented “MAC CR MU Cascading,” based on the submission doc.11-20-0980-01.**
		1. Summary
			1. Resolution for the comments related to the defined by the IEEE 802.11ax D6.0 with following CIDs are proposed.
				1. CIDs: 20732, 20733, 21450.
		2. Discussion
			1. CID 21450: The group discussed the definition of MU Cascading. Some people mentioned that an introductory text is not consistent with what are described in other parts of the draft. The group also discussed the mechanism to solicit an acknowledgment. A member commented he would like to see exactly permitted MU Cascading sequence.
		3. Next Step
			1. Need more discussion.
	3. **Ming Gan (Huawei Technologies) presented “MAC CR Fragmentation,” based on the submission doc.11-20-0981-01.**
		1. Summary
			1. Resolution for the comments related to the defined by the IEEE 802.11ax D6.0 with following CIDs are proposed.
				1. CIDs: 24364, 24553, 24554, 24557.
		2. Discussion
			1. CID 24364: A member commented that the proposed resolution (to add “in a PSDU”) does not help. Another member discussed receiver behavior of Dynamic Fragmentation Level 1. There was a request for offline discussion on this CID.
			2. CID 24554: Deferred for more discussion.
			3. CID 24557: A member mentioned that the proposed resolution should be fine but needs double check.
		3. Next Step
			1. CIDs 24364 and 24554 are deferred for more offline discussion.
8. **AoB**
	1. No other CR submission is available today.
	2. Potential agenda item for the next teleconference includes puncturing discussion.
9. **Adjournment**
	1. TGax CRC teleconference has adjourned @ 11:09 AM (ET).

**Tuesday, July 7nd, 2020, TGax CRC Teleconference (17:00 - 19:00 ET)**

1. **The meeting called to order at 17:02 (ET) by Osama Aboul-Magd (Huawei Technologies), the chairperson of 802.11 TGax.**
	1. Introduction of TGax chairperson and secretary.
	2. The agenda document 20/0538r40 is the working document (revision 39 is on the server).
2. **Attendees**
	1. Aboul-Magd, Osama (Huawei Technologies)
	2. Asterjadhi, Alfred (Qualcomm)
	3. Baron, Stephane (Canon)
	4. Chen, Xiaogang (Intel)
	5. Chu, Liwen (NXP)
	6. Hunag, Po-Kai (Intel)
	7. Gan, Ming (Huawei Technologies)
	8. Inoue, Yasuhiko (NTT)
	9. Kakani, Naveen (Qualcomm)
	10. Kim, Youhan (Qualcomm)
	11. Patil Abhishek (Qualcomm)
	12. Rai, Kapil (Qualcomm)
	13. Rison, Mark (Samsung)
	14. Sakoda, Kazuyuki (Sony)
	15. Stacey, Robert (Intel)
	16. Sun, Bo (ZTE)
	17. Yang, Rui (InterDigital)
	18. Yu, Mao (NXP)
3. **Agenda Setting**
	1. Proposed agenda for the TGax CRC teleconference on July 7nd, 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.11-20-0951: CID 24525
		6. CR Submissions
			1. <https://mentor.ieee.org/802.11/dcn/20/11-20-0958-00-00ax-rnr-filtered-neighbor-ap-subfield.docx> - Abhishek Patil (Qualcomm)
		7. AoB
		8. 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 July 7nd, 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.11-20-0951**](https://mentor.ieee.org/802.11/dcn/20/11-20-0951-01-00ax-cr-for-cid-24525.docx)**, “Proposed resolution for CID 24525,” by Kaiying Lu (MediaTek)**
		1. Kaiying was not on the call.
		2. Next Step
			1. Motion will be conducted during the next teleconference.
	2. **Doc.11-20-0819-06, “Comment resolutions for miscellaneous CIDs in clause 26.8,” by Alfred Asterjadhi (Qualcomm).**
		1. Summary
			1. Alfred presented the resolutions to the remaining CIDs 24104 and 24569 in doc.11-20-0819-06.
		2. Discussion – No discussion.
		3. **CR Motion #1068: Move to accept resolutions to CIDs 24104, 24569 in doc 11-20/0819r6.**
			1. **Moved by Alfred Asterjadhi, Seconded by Abhishek Patil**
			2. **Discussion – no discussion**
			3. **Result: Approved with unanimous consent.**
7. **CR submissions**
	1. **Abhishek Patil (Qualcomm) presented “Filtered Neighbor AP subfield in Reduced Neighbor Report element,” based on the submission doc.11-20-0958-00.**
		1. Summary
			1. This submission proposes to undo any changes to Filtered Neighbor AP subfield in sub-clause 9.4.2.170.2 to align with recent updates to REVmd.
		2. Discussion
			1. A member asked if Abhi is proposing the TGmd to do changes. 🡪 No. TGmd will approve the changes and TGax will follow the decision.
		3. Next Step
			1. There will be a motion to approve the proposed changes in the next teleconference.
	2. **Thomas Derham (Broadcom) presented “6 GHz capabilities (HT, VHT) CIDs,” based on the submission doc.11-20-1003-00.**
		1. Summary
			1. Resolutions for the comments related to 26.17.2 HE BSS operation in the 6 GHz band with following CIDs are proposed.
				1. CIDs: 24058, 24059, 24060, 24061, 24062, 24063, 24064, 24065, 24066, 24067, 24068, 24069, 24070, 24071, 24072, 24073, 24074, 24075, 24076, 24077, 24078, 24079.
		2. Discussion
			1. There was no big discussion.
		3. Next Step
			1. There will be a motion to approve the proposed resolution in the next teleconference.
	3. **Thomas Derham (Broadcom) presented “6 GHz RNR PSD clarification,” based on the submission doc.11-20-1004-00.**
		1. Summary
			1. Thomas presented the doc.11-20-1004-00 that is basically a clarification for the resolution to CID 24558 proposed in doc.11-20-0822-06.
			2. Text in subclause 9.4.2.170.2 was updated.
		2. Discussion
			1. Some minor edits were suggested. The document was updated to r1.
		3. Next Step
			1. There will be a motion to approve the proposed changes in the next teleconference.
8. **AoB**
	1. Potential agenda item for the next teleconference:
		1. Preamble Puncturing
9. **Adjourn**
	1. TGax CRC teleconference on July 7th, 2020 has adjourned @ 17:40 (ET)