IEEE P802.11
Wireless LANs

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| IEEE 802.11TGax Teleconference Minutes from August to September 2019 |
| Date: 2019-09-06 |
| Author(s): |
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Abstract

This document contains the TGax meeting minutes from the TGax teleconferences scheduled on August 1st, 8th, 15th, 22nd, 29th, and September 5th, 2019.

Revision History:

* R0: Created including the minutes from TGax teleconferences on August 1st, 8th, 2019.
* R1: Minutes from TGax teleconferences on August 15th, 22nd, 29th, and September 5th, 2019 are included.
	+ Minutes from the conference call on August 22nd are taken by Osama Aboul-Magd.

**Thursday, August 1st, 2019, 10:30 - 13:30 (ET) - the 1st TGax Teleconference after the July 2019 meeting**

1. **The meeting called to order at 10:30 AM (ET) by Osama Aboul-Magd (Huawei Technologies), the chairperson of 802.11 TGax.**
	1. Introduction of TGax chairperson and secretary.
	2. Agenda document 19/1366r1 on the server.
2. **Agenda Setting**
	1. Proposed agenda for the 1st Teleconference on August 1st, 2019.
		1. Call meeting to order
		2. IEEE-SA IPR policy and Procedure
		3. Attendance
		4. Announcement
		5. Comment Resolution Submissions
		6. Adjourn
	2. Chair asked if there is any objection to proceed with this agenda. 🡪 No objection.
		1. **The agenda for the TGax teleconference on August 1st, 2019 is approved.**
3. **IEEE 802 and 802.11 IPR policy and procedure**
	1. Patent Policy:
		1. Participants have a duty to inform the IEEE - done.
		2. 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
		3. 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. Participation in IEEE 802 Meetings – done
4. **Attendance**
	1. Please send an e-mail to Yasuhiko Inoue (yasu.inoue.h2k5@gmail.com) and/or Osama Aboul-Magd (osama.aboulmagd@huawei.com )
5. **Announcements**
	1. Chair asked people to announce name and the affiliation when addressing the group for the first time during a meeting slot.
	2. Participation slide: <https://mentor.ieee.org/802-ec/dcn/16/ec-16-0180-05-00EC-ieee-802-participation-slide.pptx>
	3. Chair asked people to put the cellphone mute of switch off.
6. **Submissions**
	1. <https://mentor.ieee.org/802.11/dcn/19/11-19-1155-00-00ax-lb-238-miscellaneous-comment-resolution.docx> - Osama Aboul-Magd
	2. <https://mentor.ieee.org/802.11/dcn/19/11-19-1259-00-00ax-lb-238-annex-g-comment-resolution.docx> - Osama Aboul-Magd
	3. <https://mentor.ieee.org/802.11/dcn/19/11-19-1035-01-00ax-11ax-d4-0-comment-resolution-26-6-4-2-26-6-4-4.docx> - Liwen Chu
	4. <https://mentor.ieee.org/802.11/dcn/19/11-19-1023-04-00ax-11ax-d4-0-comment-resolution-21-6-4-1.docx> - Liwen Chu
	5. <https://mentor.ieee.org/802.11/dcn/19/11-19-1236-00-00ax-comment-resolution-on-mibs-for-lb238.docx> - Edward Au
	6. <https://mentor.ieee.org/802.11/dcn/19/11-19-1243-00-00ax-comment-resolution-on-pics-for-lb238.docx> - Edward Au
	7. <https://mentor.ieee.org/802.11/dcn/19/11-19-1377-00-00ax-cr-for-phy-introduction.docx> - Po-Kai Hua
	8. <https://mentor.ieee.org/802.11/dcn/19/11-19-0619-02-00ax-proposed-resolutions-to-select-comments-on-d4-0.docx> - Srinivas Kandala
	9. <https://mentor.ieee.org/802.11/dcn/19/11-19-1275-00-00ax-proposed-resolution-to-tgax-d4-0-cr-20268.docx> - Srinivas Kandala
7. **Presentation**
	1. **Osama Aboul-Magd (Huawei Technologies) presented “LB-238 Miscellaneous Comment Resolution,” based on the submission 11-19-1155-01.**
		1. Summary
			1. Resolutions for the comments related to the IEEE 802.11ax D4.0 with following CIDs are proposed.
				1. CIDs: 20602, 20735, 20742, 20751, 20756, 20762, 21012, 21027 and 21037.
		2. Discussion
			1. CID 20735: The commenter mentioned that the term “pre-correction” is not appropriate. It should be “correction.” 🡪 Need an advice from PHY experts.
			2. CID 20742: Group discussed this CID and recognized that we need an advice from PHY experts. This CID is open for now.
			3. CID 20751: A member pointed out contradiction of subclauses 28.3.3.9.2 and 28.3.3.1.2. We need an advice from the PHY experts also for this CID.
			4. CID 20756: Minor edit was suggested.
			5. CID 20762: Although some member support the proposed changes, those changes are on the PHY section and need an advice from PHY experts. 🡪 Osama to start an email discussion.
			6. CID 21012: Osama asked someone to take over this CID.
			7. Other CIDs are okay now.
		3. **Straw Poll: Do you accept the resolutions for CIDs 20602, 21027 and 21037 in 11-19-1155-01?**
			1. **Result: Accepted with no objection.**
		4. Next Step: Osama to start email discussion and update the document incorporating the results of discussions.
	2. **Liwen Chu (Marvell Semiconductor) presented “11ax D4.0 Comment Resolution 26.6.4.2 26.6.4.4,” based on the submission 11-19-1035-02.**
		1. Summary
			1. Resolutions for the comments on subclauses 26.6.4.2 (Ack-enabled A-MPDU operation) and 26.6.4.4 (Ack-enabled multi-TID A-MPDU operation) related to the IEEE 802.11ax D4.0 with following CIDs are proposed.
				1. CIDs: 20428, 20825, 20826, 20196, 20330, 20393, 20394, 20427, 21066, 21067, 21137, 21607, 20776.
			2. Deferred CIDs 20428, 20825, 20394, 21067, 21607 and 20776 are revisited.
		2. Discussion
			1. CID 20428: The group discussed the NOTE in 26.6.4.2 (Ack-enabled A-MPDU operation).
			2. CID 20394: The resolution is updated (from “Revised” to “Reject”). A member asked for the technical reason for the rejection. A member will help to craft the reason.
			3. CID 21067 & 21607: In an ack-enabled multi-TID A-MPDU, a frame in an A-MPDU subframe with EoF field equal to 1 will always solicit Ack. When a STA that transmitted an ack-enabled multi-TID A-MPDU with two aggregated frames to solicit Ack receives a solicited Ack from the recipient, the transmitter can’t figure out which frame is correctly received by the recipient.
		3. **Straw Poll: Do you accept the resolutions for CIDs 20428, 20825, 21067, 21607 and 20776 in 11-19-1035-02?**
			1. **Result: Accepted with no objection.**
			2. **CID 20394: The resolution is okay. The reason for the rejection to be added.**
	3. **Po-Kai Huang (Intel) presented “11ax D4.2 MAC Comment Resolution for PHY Introduction,” based on the submission 11-19-1377-00.**
		1. Summary
			1. Resolutions for the comments related to the IEEE 802.11ax D4.3 with following CIDs are proposed.
				1. CIDs: 20087, 20088, 20166, 21001.
		2. Discussion
			1. CID 20166: The group discussed the difference between a 20 MHz-only STA and 20 MHz operating STA. The group also discussed the related text in this document.
			2. All CIDs are okay now.
		3. **Straw Poll: Do you accept the resolutions for CIDs 20087, 2008, 20166 and 21001 in 11-19-1377-00?**
			1. **Result: Accepted with no objection.**
	4. **Srinivas Kandala (Samsung) presented “Proposed Resolutions to select comments on D4.0,” based on the submission 11-19-0619-03.**
		1. Summary
			1. Resolutions for the comments related to the IEEE 802.11ax D4.0 with following CIDs are proposed.
				1. CIDs: 20015, 20854, 20109, 20110, 20111, 20274, 20426, 20430, 20610, 20658, 20812, 20815, 20909, 20920, 20981, 21466, and 20957.
		2. Discussion
			1. CID 20015: There was a comment that the text should be more specific to avoid confusion. 🡪 Related text was updated.
			2. CID 20109:
				1. The group discussed the special value 0 of TXOP Duration RTS Threshold field was discussed. 🡪 To double check with another member.
				2. The group also discussed what management frames will be allowed for this case.
			3. CID 20426: A member mentioned this comment should be rejected. The group agree with his opinion.
			4. CID 20658: The group discussed details of the comment saying “A non-AP STA that transmits the MPDU in an HE TB PPDU is exempt from requirements related to dot11RTSThreshold and …”
		3. Time is up!
8. **AoB**
	1. No other business for today.
9. **Adjourn**
	1. TGax teleconference adjourned @ 13:30 (ET).
10. **List of Attendees**

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| --- | --- |
| Name | Affiliation |
| Osama Aboul-Magd | Huawei Technologies |
| Alfred Asterjadhi | Qualcomm |
| Edward Au | Huawei Technologies |
| Liwen Chu | Marvell Semiconductor |
| Po-Kai Huang | Intel |
| Yasuhiko Inoue | NTT |
| Srinivas Kandala | Samsung |
| Zhou Lan | Broadcom |
| Mark Rison | Samsung |
| Pascal Vigar | Canon Research |
| Xiaofei Wang | InterDigital Communications |
| Rui Yang | InterDigital Communications |

**Thursday, August 8th, 2019, 19:30 - 22:30 (ET) - the 2nd TGax Teleconference after the July 2019 meeting**

1. **The meeting called to order at 19:30 (ET) by Osama Aboul-Magd (Huawei Technologies), the chairperson of 802.11 TGax.**
	1. Introduction of TGax chairperson and secretary.
	2. Agenda document 19/1366r1 on the server.
2. **Agenda Setting**
	1. Proposed agenda for the 1st Teleconference on August 8th, 2019.
		1. Call meeting to order
		2. IEEE-SA IPR policy and Procedure
		3. Attendance
		4. Announcement
		5. Comment Resolution Submissions
		6. Adjourn
	2. Chair asked if there is any objection to proceed with this agenda. 🡪 No objection.
		1. **The agenda for the TGax teleconference on August 1st, 2019 is approved.**
3. **IEEE 802 and 802.11 IPR policy and procedure**
	1. Patent Policy:
		1. Participants have a duty to inform the IEEE - done.
		2. 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
		3. 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. Participation in IEEE 802 Meetings – done
4. **Attendance**
	1. Please send an e-mail to Yasuhiko Inoue (yasu.inoue.h2k5@gmail.com) and/or Osama Aboul-Magd (osama.aboulmagd@huawei.com )
5. **Announcements**
	1. Participation slide: <https://mentor.ieee.org/802-ec/dcn/16/ec-16-0180-05-00EC-ieee-802-participation-slide.pptx>
	2. Chair asked people to announce name and the affiliation when addressing the group for the first time during a meeting slot.
	3. Chair asked people to mute when not speaking.
6. **Submissions**
	1. <https://mentor.ieee.org/802.11/dcn/19/11-19-1155-00-00ax-lb-238-miscellaneous-comment-resolution.docx> - Osama Aboul-Magd
	2. <https://mentor.ieee.org/802.11/dcn/19/11-19-1259-00-00ax-lb-238-annex-g-comment-resolution.docx> - Osama Aboul-Magd
	3. <https://mentor.ieee.org/802.11/dcn/19/11-19-1035-01-00ax-11ax-d4-0-comment-resolution-26-6-4-2-26-6-4-4.docx> - Liwen Chu
	4. <https://mentor.ieee.org/802.11/dcn/19/11-19-1023-04-00ax-11ax-d4-0-comment-resolution-21-6-4-1.docx> - Liwen Chu
	5. <https://mentor.ieee.org/802.11/dcn/19/11-19-1236-00-00ax-comment-resolution-on-mibs-for-lb238.docx> - Edward Au
	6. <https://mentor.ieee.org/802.11/dcn/19/11-19-1243-00-00ax-comment-resolution-on-pics-for-lb238.docx> - Edward Au
	7. <https://mentor.ieee.org/802.11/dcn/19/11-19-1377-00-00ax-cr-for-phy-introduction.docx> - Po-Kai Hua
	8. <https://mentor.ieee.org/802.11/dcn/19/11-19-0619-02-00ax-proposed-resolutions-to-select-comments-on-d4-0.docx> - Srinivas Kandala
	9. <https://mentor.ieee.org/802.11/dcn/19/11-19-1275-00-00ax-proposed-resolution-to-tgax-d4-0-cr-20268.docx> - Srinivas Kandala
7. **Presentation**
	1. **Osama Aboul-Magd (Huawei Technologies) presented “LB-238 Miscellaneous Comment Resolution,” based on the submission 11-19-1155-01.**
		1. Summary
			1. Resolutions for the comments related to the IEEE 802.11ax D4.0 with following CIDs are proposed.
				1. Remaining CIDs: 20735, 20742, 20751, 20756, 20762, and 21012.
		2. Discussion
			1. CID 20735: A PHY expert mentioned that the term “pre-correction” is appropriate word to use. 🡪 The comment is rejected.
			2. CID 20742 & 20751: Two comments are transferred to a PHY expert (Youhan Kim@Qualcomm).
			3. CID 20762: need to find all the occurances and make the proposed changes. Change “or” to “and”.
			4. CID 21012: The group check the ambiguity requested by a PHY expert and concluded that there is no ambiguity.
		3. **Straw Poll: Do you accept the resolutions for CIDs 20735 and 21012 in 11-19-1155-01?**
			1. **Result: Accepted with no objection.**
		4. Next Step: Osama to update the document.
	2. **Edward Au (Huawei Technologies) presented “Comment resolution on MIBs for LB238,” based on the submission 11-19-1236-00.**
		1. Summary
			1. Resolutions for the comments related to the MIB defined in the IEEE 802.11ax D4.2 with following CIDs are proposed.
				1. Remaining CIDs: 20550, 20667, 21306, 20551, 20978, 20503, and 20502.
		2. Discussion
			1. CID 20978: The group discussed this comment and concluded that the comment is not correct. The comment will be rejected. The reason for the rejection is to be prepared.
			2. CID 20649 & 20502: A participant asked for deferral of these two CIDs.
		3. **Straw Poll: Do you accept the resolutions for CIDs 20550, 20667, 21306, 20551 and 20503 in 11-19-1236-00?**
			1. **Result: Accepted with no objection.**
		4. Next Step: Edward to work on the remaining CIDs.
	3. **Edward Au (Huawei Technologies) presented “Comment resolution on PICs for LB238,” based on the submission 11-19-1243-00.**
		1. Summary
			1. Resolutions for the comments related to the MIB defined in the IEEE 802.11ax D4.2 with following CIDs are proposed.
				1. Remaining CIDs: 20100, 21538, and 20114.
		2. Discussion
			1. CID 21538:
			2. CID 20114:
		3. **Straw Poll: Do you accept the resolutions for CIDs 20100 in 11-19-1243-00?**
			1. **Result: Accepted with no objection.**
		4. Next Step: Edward to work on the remaining CIDs.
	4. **Po-Kai Huang (Intel) presented “11ax D4.2 RA Setting for Response to Trigger frame,” based on the submission 11-19-1263-02.**
		1. Summary
			1. This submission proposes resolutions for issues related to RA setting for response to Trigger frame.
		2. Discussion
			1. No discussion.
		3. Straw Poll – No straw poll.
		4. Next Step: We need to approve this during the next face-to-face meeting.h.
	5. **Osama Aboul-Magd (Huawei Technologies) presented “LB 238 Annex G Comment Resolution,” based on the submission 11-19-1259-00.**
		1. Summary
			1. Resolutions for the comments on Annex G of the IEEE 802.11ax D4.0 with following CIDs are proposed.
				1. Remaining CIDs: 20092, 20681, 20682, 20906, 21338, 21339, 21340, 21341.
		2. Discussion
			1. CID 20092: Need to check the no acknowledgment case of the HE Trigger-Based NDP sequence? 🡪 Okay.
			2. CID 21338: Leave it open for now.
		3. **Straw Poll: Do you accept the resolutions for CIDs 20092 and 21012, 20681, 20682, 20906, 21339, 21340, and 21341 in 11-19-1259-00?**
			1. **Result: Accepted with no objection.**
		4. Next Step: Osama to update the open CID.
	6. **Liwen Chu (Marvell Semiconductor) presented “11ax D4.0 Comment Resolution 26.6.4.2 26.6.4.4,” based on the submission 11-19-1035-04.**
		1. Summary
			1. This is an update from the 19/1035r1 presented last week.
				1. Remaining CIDs: 20394.
			2. Liwen added one sentence to the resolution as the reason for the rejection.
		2. Discussion
			1. The updated resolution looks okay.
		3. **Straw Poll: Do you accept the resolutions for CIDs 20394 in 11-19-1035-04?**
			1. **Result: Accepted with no objection.**
		4. Next Step: All CIDs in 19/1035 are ready for TG motion.
	7. **Liwen Chu (Marvell Semiconductor) presented “11ax D4.0 Comment Resolution 21.6.4.1,” based on the submission 11-19-1023-05.**
		1. Summary
			1. This is an update from the previous version discussed during July meeting.
				1. Remaining CIDs: 20391, 20418, 21200, 21203, 21336 and 21337.
			2. Liwen added one sentence to the resolution as the reason for the rejection.
		2. Discussion
			1. CID 20391:
				1. The group discussed the assumption for the Ack-enabled A-MPDU.
				2. The group agreed to use the same terminology throughput the document.
			2. CID 21203:
				1. A member suggested inclusion of management frame into the proposed text. A volunteer to provide a text.
		3. **Straw Poll: Do you accept the resolutions for CIDs 20391 in 11-19-1023-05?**
			1. **Result: Accepted with no objection.**
		4. Next Step: Liwen to work with Alfred on CID 20391. Liwen to prepare for a separate submission for the other CIDs.
8. **AoB**
	1. No other business for today.
9. **Adjourn**
	1. TGax teleconference adjourned @ 21:30 (ET).
10. **List of Attendees**

|  |  |
| --- | --- |
| Name | Affiliation |
| Osama Aboul-Magd | Huawei Technologies |
| Tomoko Adachi | Toshiba |
| Alfred Asterjadhi | Qualcomm |
| Edward Au | Huawei Technologies |
| Liwen Chu | Marvell Semiconductor |
| Po-Kai Huang | Intel |
| Yasuhiko Inoue | NTT |
| Jeongki Kim | LG Electronics |
| Youhan Kim | Qualcomm |
| Gaurav Patwardhan | Hewlett Packard Enterprise |
| Al Petrick | InterDigital Communications |
| Bo Sun | ZTE |
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**Thursday, August 15th, 2019, 10:30 - 13:30 (ET) - the 3rd TGax Teleconference after the July 2019 meeting**

1. **The meeting called to order at 10:30 (ET) by Osama Aboul-Magd (Huawei Technologies), the chairperson of 802.11 TGax.**
	1. Introduction of TGax chairperson and secretary.
	2. Agenda 11-19-1366-03 is on the server.
2. **Agenda Setting**
	1. Proposed agenda for the 1st Teleconference on August 15th, 2019.
		1. Call meeting to order
		2. IEEE-SA IPR policy and Procedure
		3. Attendance
		4. Announcement
		5. Comment Resolution Submissions
		6. Adjourn
	2. Chair asked if there is any objection to proceed with this agenda. 🡪 No objection.
		1. **The agenda for the TGax teleconference on August 1st, 2019 is approved.**
3. **IEEE 802 and 802.11 IPR policy and procedure**
	1. Patent Policy:
		1. Participants have a duty to inform the IEEE - done.
		2. 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
		3. 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. Participation in IEEE 802 Meetings – done
4. **Attendance**
	1. Please send an e-mail to Yasuhiko Inoue (yasu.inoue.h2k5@gmail.com) and/or Osama Aboul-Magd (osama.aboulmagd@huawei.com )
5. **Announcements**
	1. Participation slide: <https://mentor.ieee.org/802-ec/dcn/16/ec-16-0180-05-00EC-ieee-802-participation-slide.pptx>
	2. Chair asked people to announce name and the affiliation when addressing the group for the first time during a meeting slot.
	3. Chair asked people to mute when not speaking.
6. **Submissions**
	1. <https://mentor.ieee.org/802.11/dcn/19/11-19-1417-01-00ax-d4-0-comment-resolution-21-6-4-1-remaining-cids.docx> - Liwen Chu
	2. <https://mentor.ieee.org/802.11/dcn/19/11-19-0619-02-00ax-proposed-resolutions-to-select-comments-on-d4-0.docx> - Srinivas Kandala
	3. <https://mentor.ieee.org/802.11/dcn/19/11-19-1386-00-00ax-resolution-to-phy-related-cid-21366.docx> - Brian Hart
	4. <https://mentor.ieee.org/802.11/dcn/19/11-19-1023-04-00ax-11ax-d4-0-comment-resolution-21-6-4-1.docx> - Liwen Chu
	5. <https://mentor.ieee.org/802.11/dcn/19/11-19-1236-00-00ax-comment-resolution-on-mibs-for-lb238.docx> - Edward Au
	6. <https://mentor.ieee.org/802.11/dcn/19/11-19-1243-00-00ax-comment-resolution-on-pics-for-lb238.docx> - Edward Au
	7. <https://mentor.ieee.org/802.11/dcn/19/11-19-1155-00-00ax-lb-238-miscellaneous-comment-resolution.docx> - Osama Aboul-Magd
	8. <https://mentor.ieee.org/802.11/dcn/19/11-19-1259-00-00ax-lb-238-annex-g-comment-resolution.docx> - Osama Aboul-Magd
	9. <https://mentor.ieee.org/802.11/dcn/19/11-19-1275-00-00ax-proposed-resolution-to-tgax-d4-0-cr-20268.docx> - Srinivas Kandala
	10. <https://mentor.ieee.org/802.11/dcn/19/11-19-0748-01-00ax-11ax-d4-0-comment-resolution-26-2-8.docx> - Liwen Chu
	11. <https://mentor.ieee.org/802.11/dcn/19/11-19-1387-00-00ax-d4-0-mac-miscellaneous-cids.docx> - Liwn Chu
	12. <https://mentor.ieee.org/802.11/dcn/19/11-19-1122-02-00ax-padding-for-random-access.docx> - Po-Kai Huang
	13. <https://mentor.ieee.org/802.11/dcn/19/11-19-1035-01-00ax-11ax-d4-0-comment-resolution-26-6-4-2-26-6-4-4.docx> - Liwen Chu
	14. <https://mentor.ieee.org/802.11/dcn/19/11-19-1377-00-00ax-cr-for-phy-introduction.docx> - Po-Kai Hua
7. **Presentation**
	1. **Liwen Chu (Marvell) presented “11ax D4.0 Comment Resolution 21.6.4.1 Remaining CIDs,” based on the submission 11-19-1417-00.**
		1. Summary
			1. Resolutions for the comments submitted to the IEEE 802.11ax D4.0 subclause 26.6.4.1 (Multi-TID A-MPDU and ack-enabled A-MPDU) with following CIDs are proposed.
				1. CIDs: 20391, 20418, 21200, 21336, and 21337.
		2. Discussion
			1. CID 20418: A member commented that Ack frame should be acknowledgment. 🡪 Liwen agreed.
		3. **Straw Poll: Do you accept the resolutions for CIDs 20391, 20418, 21200, 21336, and 21337 in doc.11-19-1417-01?**
			1. **Result: No objection.**
		4. Next Step: Approval by a TG motion.
	2. **Liwen Chu (Marvell) presented “11ax D4.0 MAC miscellaneous CIDs,” based on the submission 11-19-1387-01.**
		1. Summary
			1. Resolutions for the comments submitted to the IEEE 802.11ax D4.0 with following CIDs are proposed.
				1. 20299, 20770, 20755, 20767, 20956, 21486, 20187, 21598
		2. Discussion
			1. CID 20770: The group discussed the TA setting in a TXOP.
			2. CID 21468: A participant mentioned that the text is a general description and we should keep it while Liwen is happy to move it to subclause 25.5.2.1.
			3. CID 20187: This CID should be discussed during the face-to-face meeting. Liwen provided two options.
			4. CID 21598: Another member is also working on this CID and will have a submission.
		3. **Straw Poll: Do you accept the resolutions for CIDs 20299, 20770, 20755 20767 and 20956 in doc.11-19-1387-02?**
			1. **Result: No objection.**
		4. Next Step
			1. CIDs 20299, 20770, 20755, 20767, and 20956 are ready for motion
			2. CID 21486 is deferred
			3. CIDs 20187 and 21598 contact Zhou Lan.
	3. **Brian Hart (Cisco Systems) presented “Resolution to PHY-related CID 21366,” based on the submission 11-19-1386-00.**
		1. Summary
			1. Resolution to the comment with CID 21366 submitted to the IEEE 802.11ax D4.0 is proposed.
		2. Discussion
			1. A member commented that this is related to PHY and asked if there is any technical change. 🡪 Basically no change.
		3. **Straw Poll: Do you accept the resolution for the CID 21366 in doc. 11-19-1386-00?**
			1. **Result: No objection.**
		4. Next Step
			1. Approval by a TG motion.
	4. **Srinivas Kandala (Samsung) presented “Proposed Resolutions to select comments on D4.0,” based on the submission 11-19-0619-04.**
		1. Summary
			1. Resolutions for the comments submitted to the IEEE 802.11ax D4.0 with following CIDs are proposed.
				1. CIDs: 20015, 20854, 20109, 20110, 20111, 20274, 20426, 20430, 20610, 20658, 20812, 20815, 20909, 20920, 20981, 21466, and 20957.
		2. Discussion
			1. CID 20109: Members are fine with the reolution.
			2. CID 20426: A member asked for more time for discussion on this CID.
			3. CID 20815: A member mentioned that the commenter is not correct. The group discussed forward compatibility.
			4. CID 20920: Deferred.
			5. CID 21466: This comment may be more appropriate to be resolved in TGmd.
		3. Straw Poll – no straw poll
		4. Next Step
			1. Srini to revise the document.
	5. **Liwen Chu (Marvell) presented “11ax D4.0 Comment Resolution 26.2.8,” based on the submission 11-19-0748-02.**
		1. Summary
			1. Resolutions for comments submitted to the IEEE 802.11ax D4.0 subclause 26.2.8 (Multiple frame transmission in an EDCA TXOP in the 6 GHz band) with CID 21080 and 21289 are proposed.
		2. Discussion
			1. CID 21289: A member discussed this CID during the July 2019 meeting. RTS/CTS still applies to this.
		3. **Straw Poll: Do you accept the resolutions to CIDs 21080 and 21289 in doc. 11-19-0748r2?**
			1. **Result: No objection.**
		4. Next Step
			1. Approval by a TG motion.
8. **Reminder**
	1. Re: doc.11-19-1155-02,
		1. CID 20756 is still open. Chair asked people to have a time to look at.
		2. CID 20762..
9. **AoB**
	1. No other business to conduct today.
10. **Adjournment**
	1. TGax teleconference has adjourned @ 12:12 (ET)
11. **List of attendees**

|  |  |  |
| --- | --- | --- |
|  | Name | Affiliation |
| 1 | Osama Aboul-Magd | Huawei Technologies |
|  | Alfred Asterjadhi | Qualcomm |
|  | Liwen Chu | Marvell Semiconductor |
|  | Brian Hart | Cisco Systems |
|  | Yasuhiko Inoue | NTT |
|  | Kandala Srinivas | Samsung |
|  | Al Petrick | InterDigital Communications |
|  | Yongho Seok | MediaTek |
|  | Xiaofei Wang | InterDigital Communications |

**Thursday, August 22nd, 2019, 19:30 - 22:30 (ET) - the 4th TGax Teleconference after the July 2019 meeting**

1. **The meeting called to order at 19:30 (ET) by Osama Aboul-Magd (Huawei Technologies), the chairperson of 802.11 TGax.**
	1. Introduction of TGax chairperson and secretary.
2. **Agenda Setting**
	1. Proposed agenda for the 1st Teleconference on August 22nd, 2019.
		1. Call meeting to order
		2. IEEE-SA IPR policy and Procedure
		3. Attendance
		4. Announcement
		5. Comment Resolution Submissions
		6. Adjourn
	2. Chair asked if there is any objection to proceed with this agenda. 🡪 No objection.
		1. **The agenda for the TGax teleconference on August 22nd , 2019 is approved.**
3. **IEEE 802 and 802.11 IPR policy and procedure**
	1. Patent Policy:
		1. Participants have a duty to inform the IEEE - done.
		2. 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
		3. 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. Participation in IEEE 802 Meetings – done
4. **Announcements**
	1. Chair asked people to announce name and the affiliation when addressing the group for the first time during a meeting slot.
	2. Attendance: <https://imat.ieee.org/attendance>
	3. Chair asked people to put the cellphone mute of switch off.
5. **Submissions**
	1. <https://mentor.ieee.org/802.11/dcn/19/11-19-0619-02-00ax-proposed-resolutions-to-select-comments-on-d4-0.docx> - Srinivas Kandala
	2. <https://mentor.ieee.org/802.11/dcn/19/11-19-1236-00-00ax-comment-resolution-on-mibs-for-lb238.docx> - Edward Au
	3. <https://mentor.ieee.org/802.11/dcn/19/11-19-1243-00-00ax-comment-resolution-on-pics-for-lb238.docx> - Edward Au
	4. <https://mentor.ieee.org/802.11/dcn/19/11-19-1155-00-00ax-lb-238-miscellaneous-comment-resolution.docx> - Osama Aboul-Magd
	5. <https://mentor.ieee.org/802.11/dcn/19/11-19-1259-00-00ax-lb-238-annex-g-comment-resolution.docx> - Osama Aboul-Magd
	6. <https://mentor.ieee.org/802.11/dcn/19/11-19-1275-00-00ax-proposed-resolution-to-tgax-d4-0-cr-20268.docx> - Srinivas Kandala
	7. <https://mentor.ieee.org/802.11/dcn/19/11-19-1387-00-00ax-d4-0-mac-miscellaneous-cids.docx> - Liwn Chu
	8. <https://mentor.ieee.org/802.11/dcn/19/11-19-1122-02-00ax-padding-for-random-access.docx> - Po-Kai Huang
6. **Presentation**
	1. **Srinivas Kandala (Samsung Electronics) presented “Proposed Resolutions to Selected Comments on D4.0” based on the submission 11-19-0619-04.**
		1. Summary
			* 1. Continue discussing comments in this document
		2. Discussion
			1. CID 20109: Keep the resolution and check with Huizhao.
			2. CID 20957: keep it open for now.
		3. **Straw Poll: Do you accept the resolutions for CID 20920 in 11-19-1155-04?**
			1. **Result: Accepted with no objection.**
	2. **Osama Aboul-Magd (Huawei Technologies) presented “LB 238 Annex G Comment Resolution,” based on the submission 11-19-1259-01.**
		1. Summary
			1. Resolution to the CID 21338 was discussed.
		2. **Straw Poll: Do you accept the resolutions for CIDs 21338 in 11-19-1259-01?**
			1. **Result: Accepted with no objection.**
7. **AoB**
	1. No other business for today.
8. **Adjourn**
	1. TGax teleconference adjourned @ 20:30 (ET).
9. **List of Attendees**

|  |  |
| --- | --- |
| Name | Affiliation |
| Osama Aboul-Magd | Huawei Technologies |
| Alfred Asterjadhi | Qualcomm |
| Srinivas Kandala | Samsung |
| David Klopper | Cisco Systems |
| Jeongki | LG |
| Yongang Fang | ZTE |

**Thursday, August 29th, 2019, 10:30 - 13:30 (ET) - the 5th TGax Teleconference after the July 2019 meeting**

1. **The meeting called to order at 10:30 (ET) by Osama Aboul-Magd (Huawei Technologies), the chairperson of 802.11 TGax.**
	1. Introduction of TGax chairperson and secretary.
	2. Agenda 11-19-1366-07 is on the server.
2. **Agenda Setting**
	1. Proposed agenda for the 6th Teleconference on August 29th, 2019.
		1. Call meeting to order
		2. IEEE-SA IPR policy and Procedure
		3. Attendance
		4. Announcement
		5. Comment Resolution Submissions
		6. Adjourn
	2. Chair asked if there is any objection to proceed with this agenda. 🡪 No objection.
		1. **The agenda for the TGax teleconference on August 29th, 2019 is approved.**
3. **IEEE 802 and 802.11 IPR policy and procedure**
	1. Patent Policy:
		1. Participants have a duty to inform the IEEE - done.
		2. 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
		3. 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. Participation in IEEE 802 Meetings – done
4. **Attendance**
	1. Please send an e-mail to Yasuhiko Inoue (yasu.inoue.h2k5@gmail.com) and/or Osama Aboul-Magd (osama.aboulmagd@huawei.com )
5. **Announcements**
	1. Participation slide: <https://mentor.ieee.org/802-ec/dcn/16/ec-16-0180-05-00EC-ieee-802-participation-slide.pptx>
	2. Chair asked people to announce name and the affiliation when addressing the group for the first time during a meeting slot.
	3. Chair asked people to mute when not speaking.
6. **Progress Review**
	1. Details are contained in page 8 of the agenda file (11-19-1366-07).
	2. We have about 180 CID to resolve.
7. **Submissions**
	1. <https://mentor.ieee.org/802.11/dcn/19/11-19-0619-02-00ax-proposed-resolutions-to-select-comments-on-d4-0.docx> - Srinivas Kandala
	2. <https://mentor.ieee.org/802.11/dcn/19/11-19-1236-00-00ax-comment-resolution-on-mibs-for-lb238.docx> - Edward Au
	3. <https://mentor.ieee.org/802.11/dcn/19/11-19-1243-00-00ax-comment-resolution-on-pics-for-lb238.docx> - Edward Au
	4. <https://mentor.ieee.org/802.11/dcn/19/11-19-1155-00-00ax-lb-238-miscellaneous-comment-resolution.docx> - Osama Aboul-Magd
	5. <https://mentor.ieee.org/802.11/dcn/19/11-19-1275-00-00ax-proposed-resolution-to-tgax-d4-0-cr-20268.docx> - Srinivas Kandala
	6. <https://mentor.ieee.org/802.11/dcn/19/11-19-1387-00-00ax-d4-0-mac-miscellaneous-cids.docx> - Liwn Chu
	7. <https://mentor.ieee.org/802.11/dcn/19/11-19-1122-02-00ax-padding-for-random-access.docx> - Po-Kai Huang
8. **Comment Resolution**
	1. **Alfred Asterjadhi (Qualcomm) presented “Comment resolutions for fast passive scanning-part 2,” based on the submission 11-19-0967-01.**
		1. Summary
			1. Resolutions for the comments on fast passive scanning defined in the IEEE 802.11ax D4.0 with following CIDs are proposed.
				1. CIDs: 20206, 20207, 20208, and 20212.
		2. Discussion
			1. A member mentioned that it would be good to refer to the discussion we had during July 2019 session.
		3. **Straw Poll: Do you accept the resolutions to CIDs 20206, 20207, 20208, and 20212 in doc. 11-19-0967-01?**
			1. **Result: No objection.**
		4. Next Step
			1. Approval by the TG motion.
	2. **Alfred Asterjadhi (Qualcomm) presented “Comment resolutions for non-AP STA scanning – part 2,” based on the submission 11-19-1388-00.**
		1. Summary
			1. Resolutions for the comments on non-AP STA scanning defined in the IEEE 802.11ax D4.0 with following CIDs are proposed.
				1. CIDs: 20210 and 21581.
		2. Discussion
			1. A member commented that the default value of 7000 for dot11MinPSCProbeDelay is okay, but minimum value shoud be aPPDUMaxTime.
			2. The group discussed the pre-deterministic map and Short SSID List.
		3. Straw Poll – no straw poll for now.
		4. Next Step
			1. Alfred to revise the document and will be discussed in the next face-to-face meeting.
	3. **Yonggang Fang (ZTE TX) presented “LB233 CR for Subclause 26.17.6,” based on the submission 11-19-1458-01.**
		1. Summary
			1. Resolutions for the comments on the IEEE 802.11ax D4.0 subclauses 26.17.6 (ER beacon generation in an ER BSS) with following CIDs are proposed.
			2. CIDs: 20738, 20744, 20745, 21457 and 21566.
		2. Discussion
			1. CID 20738: A member commented that the first part of the resolution is not relevant. 🡪 Yonggang to remove that part.
			2. CID 20744: A member commented that the ER Beacon is carried in an HE ER SU PPDU format, not in the HE SU PPDU.
			3. CID 21457: A member agreed with the comment that HE ER Beacon is not a good idea. Another member also had a feedback to the resolution. 🡪 Chair suggested offline discussion on this CID.
			4. CID 21566: A member commented that the resolution should be “ACCEPTED.”
		3. Straw Poll – No straw poll.
		4. Next Step
			1. TG needs to revisit this document.
	4. **Po-Kai Huang (Intel) presented “11ax D4.2 Padding for Random Access,” based on the submission 11-19-1122-03.**
		1. Summary
			1. This is not CR submission.
			2. For UORA, a non-AP STA may not stop processing User Info field until the non-AP STA reaches a User Info field with AID equal to 4095 due to the reason that User info fields with AID 2046 are not proposed originally as a padding option.
			3. Proposed to redefine the definition of SCH for random access to make sure that padding can be counted after 2046.
		2. Discussion
			1. The group discussed the meaning of AID values of 0, 2045 and 2046.
			2. A member asked for more time to think about this. 🡪 The motion will be conducted during the face-to-face meeting. We will have enough time to review.
		3. Next Step
			1. Further discussion during the September 2019 face-to-face meeting.
	5. **Liwen Chu (Marvell) presented “11ax D4.0 MAC miscellaneous CIDs,” based on the submission 11-19-1387-00.**
		1. Summary
			1. Resolutions for the comments on the IEEE 802.11ax D4.0 with following CIDs are proposed.
				1. CIDs: 20299, 20770, 20755, 20767, 20956, 21486, 20187, 21598, 20799, 21290, 21291, 20768, and 20135.
		2. Discussion
			1. CID 21486: Deferred.
			2. CID 20799: This CID has already been resolved in 19/1336r3. No further changes are needed.
			3. CID 21291: A member asked for clarification on the section referring to. 🡪 It is TXOP protection.
			4. CID 20768: A member commented that “zero or more” should be removed from the tables.
			5. CID 20135: A member suggested double check with the commenter (Alfred)
		3. Straw Poll – no straw poll.
		4. Next Step
			1. Liwen to revise the document.
9. **AoB**
	1. Chair asked if we have other topic to discuss today. 🡪 No response.
	2. Chair asked if there is any objection to adjourn the teleconference. 🡪 No objection.
10. **Adjournment**
	1. TGax teleconference has adjourned @ 13:52 (ET).
11. **List of attendees**

|  |  |  |
| --- | --- | --- |
|  | Name | Affiliation |
| 1 | Osama Aboul-Magd | Huawei Technologies |
| 2 | Alfred Asterjadhi | Qualcomm |
| 3 | Stephane Baron | Canon Research |
| 4 | Liwen Chu | Marvell Semiconductor |
| 5 | Yonggang Fang | ZTE TX |
| 6 | Po-Kai Huang | Intel Corporation |
| 7 | Yasuhiko Inoue | NTT |
| 8 | Srinivas Kandala | Samsung |
| 9 | David Kloper | Cisco Systems |
| 10 | Patrice Nezou | Canon Research |
| 11 | Al Petrick | InterDigital Communications |
| 12 | Mark Rison | Samsung |
| 13 | Li-Hsiang Sun | InterDigital Communications |
| 14 | Pascal Viger | Canon Research |
| 15 | Rui Yang | InterDigital Communications |
|  |  |  |

**Thursday, September 5th, 2019, the 6th TGax Teleconference after the July 2019 meeting (19:30 - 22:30 ET)**

1. **The meeting called to order at 19:33 (ET) by Osama Aboul-Magd (Huawei Technologies), the chairperson of 802.11 TGax.**
	1. Introduction of TGax chairperson and secretary.
	2. Agenda document 19/1366r7 on the server.
2. **Agenda Setting**
	1. Proposed agenda for the 6th Teleconference on September 5th, 2019.
		1. Call meeting to order
		2. IEEE-SA IPR policy and Procedure
		3. Attendance
		4. Announcement
		5. Comment Resolution Submissions
		6. Adjourn
	2. Chair asked if there is any objection to proceed with this agenda. 🡪 No objection.
		1. **The agenda for the TGax teleconference on September 5th, 2019 is approved.**
3. **IEEE 802 and 802.11 IPR policy and procedure**
	1. Patent Policy:
		1. Participants have a duty to inform the IEEE - done.
		2. 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
		3. 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. Participation in IEEE 802 Meetings – done
4. **Attendance**
	1. Please send an e-mail to Yasuhiko Inoue (yasu.inoue.h2k5@gmail.com) and/or Osama Aboul-Magd (osama.aboulmagd@huawei.com )
5. **Announcements**
	1. Participation slide: <https://mentor.ieee.org/802-ec/dcn/16/ec-16-0180-05-00EC-ieee-802-participation-slide.pptx>
	2. Chair asked people to announce name and the affiliation when addressing the group for the first time during a meeting slot.
	3. Chair asked people to mute when not speaking.
6. **Progress Review**
	1. About 64 out of 266 unresolved CIDs are discussed during the conference calls.
	2. We will have 12 TGax session during the Hanoi meeting.
7. **Submissions**
	1. [**https://mentor.ieee.org/802.11/dcn/19/11-19-1209-01-00ax-cr-for-txop-duration-based-rts.docx**](https://urldefense.proofpoint.com/v2/url?u=https-3A__mentor.ieee.org_802.11_dcn_19_11-2D19-2D1209-2D01-2D00ax-2Dcr-2Dfor-2Dtxop-2Dduration-2Dbased-2Drts.docx&d=DwMGaQ&c=MHZppzMdXMt3JYjCV71UsQ&r=63MKihRnb0VBiZRxbE7KSWqVB1JDnR73NQy9XmSieEs&m=OkzdKW_9JyoCzXkvKrOHq7dNqbyR4qA4GVKped-Cp7c&s=GHApmJ_sHS6cLjCB_qdFPP4oUkcCnf2UMkUJ4AgYeTY&e=) **- Huizhao Wang**
	2. [**https://mentor.ieee.org/802.11/dcn/19/11-19-1275-00-00ax-proposed-resolution-to-tgax-d4-0-cr-20268.docx**](https://mentor.ieee.org/802.11/dcn/19/11-19-1275-00-00ax-proposed-resolution-to-tgax-d4-0-cr-20268.docx) **- Srinivas Kandala**
	3. [**https://mentor.ieee.org/802.11/dcn/19/11-19-1237-04-00ax-cr-for-clause-3-2-and-4-3-15a.docx**](https://mentor.ieee.org/802.11/dcn/19/11-19-1237-04-00ax-cr-for-clause-3-2-and-4-3-15a.docx) **- Guoqing Li**
	4. [**https://mentor.ieee.org/802.11/dcn/19/11-19-1458-02-00ax-ax-lb238-cr-26-17-6.docx**](https://mentor.ieee.org/802.11/dcn/19/11-19-1458-02-00ax-ax-lb238-cr-26-17-6.docx) **- Yonggang Fang**
8. **Comment Resolution**
	1. **Jarrko Knect (Apple) presented “Proposed resolution for some CIDs in section 3.2 and 4.3.15a,” based on the submission 11-19-1237-04 (on behalf of Guoqing Li).**
		1. Summary
			1. Resolutions for the comments on the IEEE 802.11ax D4.0 subclauses 3.2 (Definitions specific to IEEE 802.11) and 4.3.15a (High Efficiency (HE) STA) with following CIDs are proposed.
				1. CIDs: 20440, 20498, 20987, 20988, 21028 and 20437.
		2. Discussion
			1. CID 20437: A member asked for clarification of the text added to the existing sentence. 🡪 It’s a part of resolution for another CID (CID 20498). The definition for the MU PPDU is updated and Karkko will upload the new revision (r5)
		3. **Straw Poll: Is there any objection to the resolutions for CIDs 20440, 20498, 20987, 20988, 21028 and 20437?**
			1. **Result: No objection.**
		4. Next Step
			1. Approval by TG motion.
	2. **Yonggang Fang (ZTE TX) presented “LB233 CR for Subclause 26.17.6,” based on the submission 11-19-1458-02.**
		1. Summary
			1. Resolutions for the comments on the IEEE 802.11ax D4.0 subclauses 26.17.6 (ER beacon generation in an ER BSS) with following CIDs are proposed.
				1. CIDs: 20738, 20744, 20745, 21457 and 21566.
		2. Discussion
			1. CID 20738: Chair commented this resolution does not seem to be based on the discussion with the commenter. 🡪 This is the text the commenter suggested.
		3. Straw Poll: Is there any objection to the resolutions for CIDs 20738, 20744, 20745, 21457 and 21566?
			1. Result: No objection.
		4. Next Step
			1. Approval by TG motion.
9. **AoB**
	1. Other authors of the CR documents on the agenda are not on the call.
10. **Adjourn**
	1. TGax teleconference adjourned @ 20:15 (ET).
11. **List of attendees**

|  |  |  |
| --- | --- | --- |
|  | Name | Affiliation |
| 1 | Osama Aboul-Magd | Huawei Technologies |
| 2 | Tomoko Adachi | Toshiba |
| 3 | Yonggang Fang | ZTE TX |
| 4 | Yasuhiko Inoue | NTT |
| 5 | Jarkko Knect | Apple |
| 6 | Al Petrick | InterDigital |
| 7 |  |  |
|  |  |  |