IEEE P802.11
Wireless LANs

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| Telecon Minutes for REVmd CRC- May 13-15, 2020  |
| Date: 2020-05-20 |
| Author(s): |
| Name | Affiliation | Address | Phone | email |
| Jon Rosdahl | Qualcomm Technologies, Inc. | 10871 N 5750 WHighland, UT 84003 | +1-801-492-4023 | jrosdahl @ ieee.org |
|  |  |  |  |  |

Abstract

Minutes for the 802.11md REVmd CRC Telecons for May 13 and 15, 2020.

R0: May 13th, 2020

R1: May 15, 2020

R2: Minor corrections made. -

1. **IEEE 802.11md REVmd CRC Telecon Wednesday May 13, 2020 16:00-18:00 ET**
	1. **Called to order at 4:05pm** ET by the TG Chair Dorothy STANLEY (HPE)
	2. **Review Patent and Participation Policy**
		1. No Issues noted.
	3. **Attendance:** -please log with IMAT:
		1. About 16 attendees reported by WebEx

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | TGmd | 5/13 | Au, Kwok Shum | Huawei Technologies Co., Ltd |
|  | TGmd | 5/13 | Coffey, John | Realtek Semiconductor Corp. |
|  | TGmd | 5/13 | Derham, Thomas | Broadcom Corporation |
|  | TGmd | 5/13 | Fischer, Matthew | Broadcom Corporation |
|  | TGmd | 5/13 | Goodall, David | Morse Micro |
|  | TGmd | 5/13 | Hervieu, Lili | Cable Technology Laboratories, Inc. |
|  | TGmd | 5/13 | Kim, Youhan | Qualcomm Incorporated |
|  | TGmd | 5/13 | Kumar, Manish | Marvell Semiconductor, Inc. |
|  | TGmd | 5/13 | Kwon, Young Hoon | NXP Semiconductors |
|  | TGmd | 5/13 | Levy, Joseph | InterDigital, Inc. |
|  | TGmd | 5/13 | Lv, kaiying | MediaTek Inc. |
|  | TGmd | 5/13 | Montemurro, Michael | BlackBerry |
|  | TGmd | 5/13 | Qi, Emily | Intel Corporation |
|  | TGmd | 5/13 | RISON, Mark | Samsung Cambridge Solution Centre |
|  | TGmd | 5/13 | Rosdahl, Jon | Qualcomm Technologies, Inc. |
|  | TGmd | 5/13 | Stanley, Dorothy | Hewlett Packard Enterprise |

* + 1. Missing from IMAT: None reported
	1. **Review Agenda**: 11-20/535r13:
		1. <https://mentor.ieee.org/802.11/dcn/20/11-20-0535-13-000m-2020-april-july-teleconference-agendas.docx>
		2. **The draft agenda for the teleconferences is below:**

1.       Call to order, attendance, and patent policy

a.       **Patent Policy: Ways to inform IEEE:**

1. Cause an LOA to be submitted to the IEEE-SA (patcom@ieee.org); or
2. Provide the chair of this group with the identity of the holder(s) of any and all such claims as soon as possible; or
3. 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

b.      Patent, Participation slides: See slides 5-12 in <https://mentor.ieee.org/802.11/dcn/20/11-20-0308-00-000m-2020-march-tgmd-agenda.pptx>

2.  Editor report – Emily QI/Edward AU

3.  Comment resolution:

a) 2020-05-13 Wednesday 4-6pm Eastern 2 hours

i. PHY CIDs – Michael MONTEMURRO

ii. GEN CIDs – Jon ROSDAHL

4.       AOB

5. Adjourn

* + 1. Discussion of Agenda
			1. No comments on proposed agenda
		2. No objection to updated Agenda see R14
	1. **Editor Report** – Emily QI (Intel)
		1. <https://mentor.ieee.org/802.11/dcn/17/11-17-0920-26-000m-802-11revmd-editor-s-report.ppt>
		2. <https://mentor.ieee.org/802.11/dcn/19/11-19-2156-09-000m-revmd-sponsor-ballot-comments.xls>
		3. First update since January – doc 11-17/092r26 – PowerPoint editor report.
		4. D3.3 now in the members area with a redline and clean draft version.
		5. A word version is also available.
		6. Master CID Spreadsheet is 11-19/2156r9 now posted. Includes all comment resolutions through May 8th and will be the basis for the motions on May 15th.
		7. Also, a document that tracks the motions for those motions not related to a particular CID is in doc11-19/1839r2:
			1. <https://mentor.ieee.org/802.11/dcn/19/11-19-1839-02-000m-tgmd-motion-tracking.xlsx>
		8. There are about 297 CIDs left to process out of the total 820 submitted.
		9. In the PHY group, the “duplicate” are really just related to another comment and used as an easy way to use the database to track them.
		10. 
	2. **Review PHY CID**
		1. CID 4756 (PHY)
			1. Review comment
			2. Submission required to resolve. This is a global change request.
			3. A DMG/TDLS experts may be needed to help determine which “awake window” is of which type.
			4. Suggested to have Mark RISON work with Solomon TRAININ.
			5. If no submission, it will be rejected for insufficient detail.
		2. CID 4721 (PHY)
			1. Review comment
			2. This is a global change request.
			3. This was discussed in the past. We will want to review the discussion before we revisit this CID.
			4. Assign to Michael MONTEMURRO
		3. CID 4720 (PHY)
			1. Review Comment
			2. CID 1505 Follow-up
			3. Assign to Mark RISON
			4. Submission Required, if no submission is created, the CID will be rejected for insufficient details.
		4. CID 4712 (PHY)
			1. Review Comment
			2. This is a global change request.
			3. There are 100 instances of “relay STA” and 42 changes need to be made plus a set of changes for “relay AP” as well.
			4. A request for “plain text” of the draft. (“.txt”) version.
			5. Assign to Mark RISON
			6. Submission Required, if no submission is created, the CID will be rejected for insufficient details
			7. In looking at a few examples, the context is sufficient to know that the “relay STA” is a S1G STA.
			8. P307.46 – the second paragraph starts with “A relay STA” the context is clear.
			9. Discussion on the value of making the proposed change.
			10. 71 instances of “relay AP” and 3 to 12 do not start with “S1G”.
			11. Joseph LEVY noted in the chat window:
				1. Joseph LEVY (InterDigital) to everyone: I don't see a need for changes to be made in Clause 5 to change relay AP to S1G relay AP. The non-Clause 5 instances there are only 2 (search yields 3, but one is at a line break and is really S1G relay AP) - the 2 are in the MIB, and probably don't need to be corrected.
		5. CID 4710 (PHY)
			1. Review comment
			2. Changes requested – “non-NDP frame” to “non-NDP-CMAC frame”
			3. Request to assign to Youhan KIM
			4. He will review and bring back a proposed resolution.
			5. Request to have a submission that identifies the number of instances posted to the reflector.
		6. CID 4629 (PHY)
			1. Review comment
			2. Assign to Mark RISON
			3. Submission Required, if no submission is created, the CID will be rejected for insufficient details
		7. CID 4630 (PHY)
			1. Note assigned to Mark RISON
			2. Similar to 4629
		8. CID 4569 (PHY)
			1. Review comment
			2. Change of field names is not done easily.
			3. Assign CID to Youhan KIM
		9. CID 4523 (PHY)
			1. Review comment
			2. Assigned to Mark RISON and change comment group to Insufficient detail.
			3. Submission Required, if no submission is created, the CID will be rejected for insufficient details
		10. CID 4446 (PHY)
			1. Review comment
			2. Location was not indicated in the CID.
			3. The claim is that is 6 instances need be adjusted.
			4. "AGC training field" -- no such field; This should be changed to "AGC field". Also, should be "an AGC" not "a AGC"
			5. Proposed resolution: ACCEPTED (PHY: 2020-05-13 20:51:06Z) Note to Editor: 6 instances, the article issue is on P3131.61 (in D3.0).
			6. No objection – Mark Ready for Motion.
		11. CID 4423 (PHY)
			1. Review Comment
			2. Duration time vs time duration; there are about 31 instances.
			3. Need to examine them one by one as there are cases where the change may not make sense.
			4. Discussion on how the changes could be made and the value of the different variations.
			5. Need submission – Assigned to Mark RISON
		12. CID 4395 (PHY)
			1. Review comment
			2. Discussion on the proposed change.
			3. There are ~11 instances of "current ESS", but this is not defined
			4. Need to look at each analysis.
			5. Look to change to “associated ESS” rather than "ESS of which the STA is a member" as an alternative. This discussion will be taken offline.
			6. Assign to Mark RISON –
		13. CID 4341 (PHY)
			1. Review comment
			2. A global change request is being made.
			3. Changing “S1G MCS” to “S1G-MCS”
			4. Related to CID 4340 (PHY)
			5. P3326.28 was one location where the hyphen was in the first instance and without hyphen.
			6. There are places that the “MCS” does not have a PHY qualifier, and we need to look at what the proper PHY qualifier should be.
			7. CID 4341 just adds hyphens
			8. Proposed resolution: ACCEPTED (PHY: 2020-05-13 21:08:15Z)–
			9. No objection – Mark Ready for Motion.
		14. CID 4340 (PHY)
			1. needs to be careful as there are places where MCS is fine by itself.
			2. CID 4340 Assigned to Mark RISON; Submission required; if no submission is created, the CID will be rejected for insufficient details
		15. CID 4325 (PHY)
			1. Review comment
			2. Assigned to Mark HAMILTON
			3. Time frame for review not identified.
			4. Need priority to review soon.
		16. CID 4314 (PHY)
			1. Review Comment
			2. Discussion on what the change should be made.
			3. ACTION ITEM: Mark RISON to contact Dan and Jouni about this CID as there are only 4 instances of concern.
		17. CID 4301 (PHY)
			1. Review Comment
			2. Assigned to Mark RISON to identify the locations for the text insertions.
			3. From Mark RISON Chat window: CID 4301. In D3.2 AddWhen MAX-ACCESS is read-only, the MIB attribute value may be updated by the PLME and read from theMIB attribute by management entities. When MAX-ACCESS is read-write, the MIB attribute may be readand written by management entities but shall not be updated by the PLME.at 2868.34, 2896.35 [also fix the font size at 2896.30], 2954.20, 2966.62, 3124.21, 3478.60
			4. ACTION ITEM Michael M. to craft proposed resolution for later consideration from input.
			5. *{****Post Mtg*** *input by email from Michael MONTEMURRO: Proposed Resolution: REVISED. Relative to draft 3.2, add the following paragraph at 2868.34, 2896.35 [also fix the font size at 2896.30], 2954.20, 2966.62, 3124.21, and 3478.60:*

*"When MAX-ACCESS is read-only, the MIB attribute value may be updated by the PLME and read from the MIB attribute by management entities. When MAX-ACCESS is read-write, the MIB attribute may be read and written by management entities but shall not be updated by the PLME."}*

* + 1. 4298 (PHY)
			1. Review Comment
			2. Assigned to Mark RISON – Similar to 4299 – move to Insufficient Details comment group. Submission Required, if no submission is created, the CID will be rejected for insufficient details
		2. CID 4299 (PHY):
			1. This is very similar to CID 4298 (PHY). Resolve them together. Both are insufficient detail, unless a submission is done.
		3. CID 4293 (PHY)
			1. Review comment
			2. Assigned to Mark RISON - move to Insufficient Details comment group. Submission Required, if no submission is created, the CID will be rejected for insufficient details
		4. CID 4286 (PHY)
			1. Review Comment
			2. Concern with a value to make the change.
			3. ACTION ITEM: Mark RISON to contact Jouni about this CID
			4. Discussion on possible change to “EAP authentication”.
			5. Review the definition IEEE 802.1X authentication and Extensible Authentication Protocol.
			6. Discussion on getting more review and thought before changes of this type to be done.
			7. Identification of places that should not change – p2551.26 and 2634.58.
			8. More detail would be required to evaluate the CID resolution.
			9. Consistency is really important, and any change should consider the consistency as a prime point.
		5. 4277 (PHY)
			1. Review Comment
			2. Assign to Mark RISON: move to Insufficient Details comment group. Submission Required, if no submission is created, the CID will be rejected for insufficient details
		6. 4266 (PHY)
			1. Review Comment
			2. Assign to Mark RISON: move to Insufficient Details comment group. Submission Required, if no submission is created, the CID will be rejected for insufficient details
		7. CID 4179 (PHY)
			1. Review Comment
			2. Similar to CID 4178 (PHY) –
			3. Proposed change 4179: Change "BSSID of the target AP" to "BSSID of the target AP's BSS"
			4. There about 20 occurrences of “BSSID of”.
			5. Discussion on if the BSSID is a property of an AP/STA or just the BSS.
			6. The term “BSSID” does not seem to have a definition in clause 3.
			7. Use of BSSID with something other than AP/STA seems ok.
			8. Concern on the number of occurrences: about 19-20.
			9. Proposed resolution CID 4179: ACCEPTED (PHY: 2020-05-13 21:48:54Z) Note to Editor: there are 19 instances.
			10. No objection – Mark Ready for Motion
		8. CID 4178 (PHY)
			1. Similar to 4179
			2. Already assigned to Mark R. Need submission for other similar/related changes, beyond CID 4179 (such as "current AP")
			3. P2349.48 has the context for question about TDLS relative to the CID.
			4. TDLS only works when in the same BSSID (BSS)
			5. This CID will fix-up the TDLS- STA and current STA related items
		9. **ACTION ITEM:** Michael Montemurro - all the PHY “Duplicate field” needs to be cleared before any of the marked PHY Comments are moved to other AdHoc Groups.
	1. **Review Agenda for Friday:**
		1. See Agenda file: doc 11-20/535r14:
			1. <https://mentor.ieee.org/802.11/dcn/20/11-20-0535-14-000m-2020-april-july-teleconference-agendas.docx>
		2. Reviewed the Draft Motions that have been prepared for Friday.
		3. Request to get doc 11-20/435r3 posted right away.
	2. **Adjourned at 6pm**
1. **IEEE 802.11md REVmd CRC Telecon Friday May 15, 2020 10:00-12:00 ET**
	1. **Called to order at 10:04 am** ET by the TG Chair Dorothy STANLEY (HPE)
	2. **Review Patent and Participation Policy**
		1. No Issues noted.
	3. **Attendance:** -please log with IMAT:
		1. About 28 attendees reported by WebEx

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | TGmd | 5/15 | Asterjadhi, Alfred | Qualcomm Incorporated |
|  | TGmd | 5/15 | Au, Kwok Shum | Huawei Technologies Co., Ltd |
|  | TGmd | 5/15 | Bhandaru, Nehru | Broadcom Corporation |
|  | TGmd | 5/15 | Coffey, John | Realtek Semiconductor Corp. |
|  | TGmd | 5/15 | Derham, Thomas | Broadcom Corporation |
|  | TGmd | 5/15 | Eitan, Alecsander | Qualcomm Incorporated |
|  | TGmd | 5/15 | Hamilton, Mark | Ruckus Wireless |
|  | TGmd | 5/15 | Harkins, Daniel | Aruba Networks, Inc. |
|  | TGmd | 5/15 | Henry, Jerome | Cisco Systems, Inc. |
|  | TGmd | 5/15 | Jiang, Jinjing | Apple, Inc. |
|  | TGmd | 5/15 | Kasher, Assaf | Qualcomm Incorporated |
|  | TGmd | 5/15 | Kim, Jeongki | LG ELECTRONICS |
|  | TGmd | 5/15 | Kneckt, Jarkko | Apple, Inc. |
|  | TGmd | 5/15 | Kwon, Young Hoon | NXP Semiconductors |
|  | TGmd | 5/15 | Malinen, Jouni | Qualcomm Incorporated |
|  | TGmd | 5/15 | McCann, Stephen | BlackBerry |
|  | TGmd | 5/15 | Montemurro, Michael | BlackBerry |
|  | TGmd | 5/15 | Qi, Emily | Intel Corporation |
|  | TGmd | 5/15 | RISON, Mark | Samsung Cambridge Solution Centre |
|  | TGmd | 5/15 | Rosdahl, Jon | Qualcomm Technologies, Inc. |
|  | TGmd | 5/15 | Smith, Graham | SR Technologies |
|  | TGmd | 5/15 | Stacey, Robert | Intel Corporation |
|  | TGmd | 5/15 | Stanley, Dorothy | Hewlett Packard Enterprise |
|  | TGmd | 5/15 | Thakore, Darshak | Cable Television Laboratories Inc. (CableLabs) |
|  | TGmd | 5/15 | Trainin, Solomon | Qualcomm Incorporated |
|  | TGmd | 5/15 | Venkatesan, Ganesh | Intel Corporation |
|  | TGmd | 5/15 | Wentink, Menzo | Qualcomm Incorporated |
|  | TGmd | 5/15 | Wu, Tianyu | Apple, Inc. |

* + 1. Missing from IMAT: None reported
	1. **Review Agenda**: 11-20/535r14:
		1. <https://mentor.ieee.org/802.11/dcn/20/11-20-0535-14-000m-2020-april-july-teleconference-agendas.docx>
		2. **The draft agenda for the teleconferences is below:**

1.       Call to order, attendance, and patent policy

a.       **Patent Policy: Ways to inform IEEE:**

1. Cause an LOA to be submitted to the IEEE-SA (patcom@ieee.org); or
2. Provide the chair of this group with the identity of the holder(s) of any and all such claims as soon as possible; or
3. 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

b.      Patent, Participation slides: See slides 5-12 in <https://mentor.ieee.org/802.11/dcn/20/11-20-0308-00-000m-2020-march-tgmd-agenda.pptx>

2.  Editor report – Emily QI/Edward AU

3.  Comment resolution:

a) 2020-05-15 Friday 10 am Eastern 2 hours

i. Motions

ii. Teleconference minutes motion – April 15 – May 8 minutes: Move to approve the following minutes documents:

April 15-17 https://mentor.ieee.org/802.11/dcn/20/11-20-0619-01-000m-telecon-minutes-for-revmd-crc-april-15-and-17-2020.docx

April 21-24 https://mentor.ieee.org/802.11/dcn/20/11-20-0640-03-000m-telecon-minutes-for-revmd-crc-april-21-24-2020.docx

April 29-May 1 https://mentor.ieee.org/802.11/dcn/20/11-20-0685-02-000m-telecon-minutes-for-revmd-crc-april-29-may-1-2020.docx

May 6-8 https://mentor.ieee.org/802.11/dcn/20/11-20-0713-02-000m-telecon-minutes-for-revmd-crc-may-6-8-2020.docx

a. Moved:

b. Seconded:

c. Result:

iii. Motion 186: PHY CIDs – 15 CIDs

Approve comment resolutions included in “PHY Motion E” tab in https://mentor.ieee.org/802.11/dcn/20/11-20-0145-11-000m-sb1-revmd-phy-sec-comments.xlsx

b. Moved:

c. Seconded:

d. Result:

iv. Motion 18x: MAC CIDs – 38 CIDs

Approve comment resolutions included in the "Motion MAC-AO" tab in: https://mentor.ieee.org/802.11/dcn/17/11-17-0927-59-000m-revmd-mac-comments.xls

b. Moved:

c. Seconded:

d. Result:

v. Motion 18x: GEN CIDs – 34 CIDs

Approve comments included in the “Motion GEN After April 15” tab in https://mentor.ieee.org/802.11/dcn/20/11-20-0147-10-000m-sb1-revmd-gen-comments.xls

b. Moved:

c. Seconded:

d. Result:

vi. Motion 18x: Editor2 CIDs -9 CIDs

Approve the comment resolutions included in the “Motion-EDITOR2-R” and “Motion-EDITOR2-S” tabs in https://mentor.ieee.org/802.11/dcn/19/11-19-2160-10-000m-revmd-editor2-standards-association-ballot-comments.xlsx

b. Moved:

c. Seconded:

d. Result:

 vii. Motion 1xx: Additional deprecated changes in the MIB

Incorporate the text changes in https://mentor.ieee.org/802.11/dcn/20/11-20-0657-01-000m-proposed-text-change-related-to-the-description-of-a-deprecated-object.docx into the TGmd draft

b. Moved:

c. Seconded:

d. Result:

viii. Motion 1xx: Additional changes to drop eligible language

Incorporate the text changes under “Proposed additional changes:” on page 26 in <https://mentor.ieee.org/802.11/dcn/20/11-20-0435-03-000m-resolutions-for-some-comments-on-11md-d3-0-sb1.docx> into the TGmd draft

b. Moved:

c. Seconded:

d. Result:

ix. Motion 1xx: Additional “inclusive” clarification

Incorporate the text changes under “Proposed additional changes:” on page 27 in https://mentor.ieee.org/802.11/dcn/20/11-20-0435-03-000m-resolutions-for-some-comments-on-11md-d3-0-sb1.docx into the TGmd draft

1. Moved:
2. Seconded:
3. Result:

x. Motion 1xx: Change resolution to CID 4043 Dynamic EIFS

Resolve CID 4043 as “Revised” with a resolution of “Incorporatethe text changes in https://mentor.ieee.org/802.11/dcn/20/11-20-0458-01-000m-resolution-to-cid-4043.docx into the TGmd draft.

b. Moved: Tomo Adachi

c. Seconded: Jon Rosdahl

d. Result:

xi. Motion 1xx: Privacy for password identifiers

Resolve CID 4731 as “Revised” with a resolution of “Incorporate the text changes <https://mentor.ieee.org/802.11/dcn/20/11-20-0543-02-000m-privacy-for-password-identifiers.docx> into the TGmd draft”

b. Moved:

c. Seconded:

d. Result:

ii. Comment resolution

iii. Stephen MCCANN – CID 4100, 4338, 4339 <https://mentor.ieee.org/802.11/dcn/20/11-20-0654-02-000m-cid-4100-proposed-resolution.doc>

iv. Alfred ASTERJADHI– CIDs 4441, 4443 11-20-0446

v. Graham SMITH – CIDs 4444 11-20-367

4.       AOB

5. Adjourn

* + 1. Discussion of Agenda:
			1. Defer consideration of CID 4731 – until after Nehru
			2. Request to do Nehru first after Motion
				1. Add doc 11-20/745
		2. No objection for the adjustments
		3. See R15 of the Agenda doc
	1. **Editor Report**
		1. No new update since Wednesday.
		2. No questions
	2. **Motions:**
		1. **Teleconference minutes motion – April 15 – May 8 minutes: Move to approve the following minutes documents:**

April 15-17: <https://mentor.ieee.org/802.11/dcn/20/11-20-0619-01-000m-telecon-minutes-for-revmd-crc-april-15-and-17-2020.docx>

April 21-24: <https://mentor.ieee.org/802.11/dcn/20/11-20-0640-03-000m-telecon-minutes-for-revmd-crc-april-21-24-2020.docx>

April 29-May 1: <https://mentor.ieee.org/802.11/dcn/20/11-20-0685-02-000m-telecon-minutes-for-revmd-crc-april-29-may-1-2020.docx>

May 6-8: <https://mentor.ieee.org/802.11/dcn/20/11-20-0713-02-000m-telecon-minutes-for-revmd-crc-may-6-8-2020.docx>

* + - 1. Moved: Jon ROSDAHL
			2. Seconded: Emily QI
			3. **Result for Telecon Motion**: 22-0-3 – Motion Passes
		1. **Motion 186: PHY CIDs – 15 CIDs**

Approve comment resolutions included in “PHY Motion E” tab in 11-20/145r11: <<https://mentor.ieee.org/802.11/dcn/20/11-20-0145-11-000m-sb1-revmd-phy-sec-comments.xlsx>>

* + - 1. Moved: Michael MONTEMURRO
			2. Seconded: Jon ROSDAHL
			3. Discussion:
				1. A Voiced concern on 4232, 4233 and 4719
				2. Status of CIDs reviewed
			4. **Result Motion #186**:  20-1-6 Motion passes
		1. **Motion 187: MAC CIDs – 38 CIDs**

Approve comment resolutions included in the "Motion MAC-AO" tab in 11-20/927r59: <<https://mentor.ieee.org/802.11/dcn/17/11-17-0927-59-000m-revmd-mac-comments.xls>> except for CID 4155 and 4159

* + 1. Discussion –
			1. Question on doc 1564r5 – looking to ensure proper document is listed in motion resolutions. CID 4155
			2. Review Doc 11-19/1564r4 – CID 4159
			3. Pull CID 4155 and 4159 from motion.
			4. Moved: Stephen MCCANN
			5. Seconded: Menzo WENTINK
			6. **Result Motion #187**: Approved by Unanimous Consent – Motion Passes
		2. **Motion 188: MAC CIDs –1 CIDs**

Approve comment resolutions for CID 4159 in the "Motion MAC-AO" tab in 11-17/0927r59:<<https://mentor.ieee.org/802.11/dcn/17/11-17-0927-59-000m-revmd-mac-comments.xls>>.

* + - 1. Moved: Michael Montemurro
			2. Seconded: Assaf KASHER
			3. Discussion:
				1. Desire to take more time was expressed.
			4. Motion to Table Motion #188: Mark RISON; 2nd: Menzo WENTINK
				1. No objection to table the motion – Motion is tabled.
		1. **Motion 189: GEN CIDs – 34 CIDs**

Approve comments included in the “Motion GEN After April 15” tab in <https://mentor.ieee.org/802.11/dcn/20/11-20-0147-10-000m-sb1-revmd-gen-comments.xls>

* + - 1. Moved: Jon ROSDAHL
			2. Seconded: Edward AU
			3. Discussion: None
			4. **Result Motion #189:** Approved by Unanimous Consent – Motion Passes
		1. **Motion 190: Editor2 CIDs -9 CIDs**

Approve the comment resolutions included in the “Motion-EDITOR2-R” and “Motion-EDITOR2-S” tabs in <https://mentor.ieee.org/802.11/dcn/19/11-19-2160-10-000m-revmd-editor2-standards-association-ballot-comments.xlsx>

* + - 1. Moved: Edward AU
			2. Seconded: Jon ROSDAHL
			3. Discussion – review status of CIDs being updated and require new motion.
			4. **Result Motion #190**: Approved by Unanimous Consent – Motion Passes
		1. **Motion 191: Additional deprecated changes in the MIB**

Incorporate the text changes in <https://mentor.ieee.org/802.11/dcn/20/11-20-0657-01-000m-proposed-text-change-related-to-the-description-of-a-deprecated-object.docx> into the TGmd draft

* + - 1. Moved: Stephen MCCANN
			2. Seconded: Edward AU
			3. Discussion: None
			4. **Result Motion #191**: Approved by Unanimous Consent – Motion Passes
		1. **Motion 192: Additional changes to drop eligible language**

Incorporate the text changes under “Proposed additional changes:” on page 26 in <https://mentor.ieee.org/802.11/dcn/20/11-20-0435-03-000m-resolutions-for-some-comments-on-11md-d3-0-sb1.docx> into the TGmd draft

* + - 1. Moved: Mark RISON
			2. Seconded: Stephen MCCANN
			3. Discussion: None
			4. **Result Motion #192**: Approved by Unanimous Consent – Motion Passes
		1. Skip the proposed next motion: “Additional “inclusive” clarification”
			1. Not ready for motion
		2. **Motion 193: Change resolution to CID 4043 Dynamic EIFS**

Resolve CID 4043 as “Revised” with a resolution of “Incorporate the text changes in <https://mentor.ieee.org/802.11/dcn/20/11-20-0458-01-000m-resolution-to-cid-4043.docx> into the TGmd draft.

* + - 1. Moved: Menzo WENTINK
			2. Seconded: Jon Rosdahl
			3. **Result Motion #193**: Approved by Unanimous Consent – Motion Passes
	1. **Review doc 11-20/745r0** – Nehru Bhandaru (Broadcom)
		1. <https://mentor.ieee.org/802.11/dcn/20/11-20-0745-00-000m-identifier-privacy-summary.pptx>
		2. Review submission describing the problem and background
		3. Actual textual proposal is in 11-20/0746r0
			1. <https://mentor.ieee.org/802.11/dcn/20/11-20-0746-00-000m-identifier-privacy-mechanism.docx>
		4. Review summary of proposed algorithm and cost/benefits.
		5. Review of the remaining open issues and proposed next steps
		6. Request to have people review 11-20/746
		7. Discussion –
			1. Discussion on method of downgrade protection in this proposal vs 11-20/543r2.
				1. https://mentor.ieee.org/802.11/dcn/20/11-20-0543-02-000m-privacy-for-password-identifiers.docx
			2. Privacy issues have been discussed many times, and concern that TGmd may or may not be the right place.
			3. Discussion on which frames need protection in this matter.
			4. Concern expressed on TOFU (Trust On First Use) method of attack.
		8. Proposed continue the discussion on May 29th
		9. Request to have feedback exchanged on reflector.
	2. **Review doc 11-20/654r2 – CID 4100, 4338, 4339** - Stephen MCCANN
		1. <https://mentor.ieee.org/802.11/dcn/20/11-20-0654-02-000m-cid-4100-proposed-resolution.doc>
		2. CID 4100 (GEN), 4338 (PHY) and 4339 (PHY)
			1. Review Comment
			2. Review submission discussion
			3. Discussion may be missing “frame” or not. Capitalization may not be needed to change about 311 occurrences.
			4. What is the difference between “GAS Query” and “GAS Query Request”?
			5. It seems there are only 15 occurrences of “GAS Query Request”.
			6. Review proposed changes – Group Addressed GAS without Query.
			7. GAS Request (60 instances) and also GAS Query
			8. Effort to minimize work to address the CIDs.
			9. Updates made in 802.11aq. GAS Query refers to the contents in the frames. It would be a lot of work to rewrite, but these changes may be a good step forward.
			10. Capitalization style discussed.
			11. Proposed Resolution: REVISED (GEN: 2020-05-15 15:10:00Z) Change the following in D3.0:

“GAS Query” to “GAS” at 583.24, 2416.1, 2416.62

“GAS Query” to “GAS Query Request” at 1477.49, 1484.43, 1540.16, 1542.3, 1572.54, 1573.51, 2411.6, 2411.44, 2416.42, 2417.39, 2417.44, 2417.47, 2418.16, 2418.21, 2419.5, 2422.39, 2423.21, 2424.18, 2429.19, 2518.8, 2520.11

“GAS query” to “GAS Query Request” at 2412.3, 2413.3

The sentences at 1538.45, 1572.54 to “The Query Request field is a generic container whose value is formatted in accordance with the protocol identified in the Advertisement Protocol element.”

The sentence at 1540.14, 1542.21, 1573.50 to “The Query Response field is a generic container whose value is formatted in accordance with the protocol specified in the Advertisement Protocol element.”

* + - 1. The resolution will be updated – there is a possible change for 2416.62
			2. Update Proposed Resolution for CID 4100 (GEN), 4338 (PHY) and 4339 (PHY): REVISED (PHY: 2020-05-15 15:21:36Z) - Incorporate the changes in document https://mentor.ieee.org/802.11/dcn/20/11-20-0654-03-000m-cid-4100-proposed-resolution.doc which clarify the terminology for specification of GAS query protocol requirements.
			3. Mark Ready for Motion
	1. **Review doc 11-20/446r2** - CIDs 4441, 4443 - Alfred ASTERJADHI (Qualcomm Inc.)
		1. <https://mentor.ieee.org/802.11/dcn/20/11-20-0446-02-000m-assorted-comment-resolutions.docx>
		2. CID 4441 and 4443 (MAC)
			1. Review Comments
			2. Review proposed changes.
			3. Discussion on the change conflicting with the “e.g.”
			4. Discussion on the “trigger” usage may be ambiguous.
			5. Make Change from “frame trigger” to “frame solicits” in proposed changes.
			6. Note NDP Sync seems to be covered, but question on other types of sync that may be needed. Explanation on reverse direction grant was given as an example.
			7. Proposed Resolution: Revised; Incorporate the changes in doc 11-20/446r3 <<https://mentor.ieee.org/802.11/dcn/20/11-20-0446-03-000m-assorted-comment-resolutions.docx>>
			8. Mark Ready for Motion
			9. There is plenty of time to review before motion
		3. **Review document 11-20/367** - CIDs 4444 Graham SMITH
			1. <https://mentor.ieee.org/802.11/dcn/20/11-20-0367-03-000m-resolution-of-cid-4444.docx>
			2. He has dropped, but we will review the document in his absence.
			3. CID 4444 (MAC)
				1. Review Comment
				2. Discussion on adding “polled” in front of TXOP.
				3. See D3.0 - p1844-1845 for context discussion.
				4. Request to hear from Graham SMITH on this topic.
				5. Discussion on the DIFS vs PIFS starting points.
				6. Discussion on the way the random backoff is calculated. The Hybrid nature of HDCF was noted.
				7. The use for CAPs access with PIFS was thought to be the expected behaviour.
				8. The basis of the comment is that HC also covers EDCA operation, but EDCA does not use these kinds of PIFS access, so need to clarify this is for HC when doing HCCA operation
				9. Note that HC applies to both EDCA and HCCA modes of operation. The comment is asked to clarify that the PIFS behavior is only valid if the HC is doing HCCA.
				10. ACTION ITEM: Menzo to get with Graham for update/clarification.
	2. **Review Agenda for Next Telecons**
		1. See 11-20/535r15
			1. <https://mentor.ieee.org/802.11/dcn/20/11-20-0535-15-000m-2020-april-july-teleconference-agendas.docx>
		2. 2020-05-20 Wednesday 4-6pm Eastern 2 hours
			1. Edward AU – CID 4505, 4216, 4201, https://mentor.ieee.org/802.11/dcn/20/11-20-0371-05-000m-resolution-for-cmmg-mac-related-cids-4217-4218-and-4250.docx
			2. Mark RISON – including CIDs 4512, 4516, 4353, 4413, 4501, 4767 https://mentor.ieee.org/802.11/dcn/20/11-20-0435-02-000m-resolutions-for-some-comments-on-11md-d3-0-sb1.docx
			3. Mark RISON - CIDs – see https://mentor.ieee.org/802.11/dcn/20/11-20-0639-04-000m-selected-rison-discussion-cids.xlsx
		3. 2020-05-20 Wednesday 4-6pm Eastern 2 hours
			1. Edward AU – CID 4505, 4216, 4201, https://mentor.ieee.org/802.11/dcn/20/11-20-0371-05-000m-resolution-for-cmmg-mac-related-cids-4217-4218-and-4250.docx
			2. Mark RISON – including CIDs 4512, 4516, 4353, 4413, 4501, 4767 https://mentor.ieee.org/802.11/dcn/20/11-20-0435-02-000m-resolutions-for-some-comments-on-11md-d3-0-sb1.docx
			3. Mark RISON - CIDs – see https://mentor.ieee.org/802.11/dcn/20/11-20-0639-04-000m-selected-rison-discussion-cids.xlsx
		4. For the CIDs pulled today
			1. CID 4155 and 4159 review next week.
			2. ACTION ITEM: Mark RISON to prepare response.
	3. **Adjourned 12:02pm**
	4. ***Post Meeting Note*:**
		1. *Current Status after the motions today:*

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Owning Ad-hoc** | **Assigned** | **Discuss** | **Review** | **Ready for Motion** | **Approved** | **Duplicate** | **Grand Total** |
| EDITOR | 21 |   |   |   | 520 |   | 541 |
| GEN | 43 | 10 | 1 | 1 |   |   | 55 |
| MAC | 127 |   |   | 2 |   |   | 129 |
| EDITOR2 | 2 |   |   |   |   |   | 2 |
| PHY | 74 |   |   | 2 |   | 17 | 93 |
| **Grand Total** | **267** | **10** | **1** | **5** | **520** | **17** | **820** |

* + 1. ***295*** *CIDs remain that are not “Ready for Motion or Approved”.*

**References:**

**May 13:**

1. <https://mentor.ieee.org/802.11/dcn/20/11-20-0535-13-000m-2020-april-july-teleconference-agendas.docx>
2. <https://mentor.ieee.org/802.11/dcn/20/11-20-0308-00-000m-2020-march-tgmd-agenda.pptx>
3. <https://mentor.ieee.org/802.11/dcn/17/11-17-0920-26-000m-802-11revmd-editor-s-report.ppt>
4. <https://mentor.ieee.org/802.11/dcn/19/11-19-2156-09-000m-revmd-sponsor-ballot-comments.xls>
5. <https://mentor.ieee.org/802.11/dcn/19/11-19-1839-02-000m-tgmd-motion-tracking.xlsx>
6. <https://mentor.ieee.org/802.11/dcn/20/11-20-0535-14-000m-2020-april-july-teleconference-agendas.docx>

**May 15:**

1. <https://mentor.ieee.org/802.11/dcn/20/11-20-0535-14-000m-2020-april-july-teleconference-agendas.docx>
2. <https://mentor.ieee.org/802.11/dcn/20/11-20-0308-00-000m-2020-march-tgmd-agenda.pptx>
3. **Previous Minutes Motion:**
	1. April 15-17: <https://mentor.ieee.org/802.11/dcn/20/11-20-0619-01-000m-telecon-minutes-for-revmd-crc-april-15-and-17-2020.docx>
	2. April 21-24: <https://mentor.ieee.org/802.11/dcn/20/11-20-0640-03-000m-telecon-minutes-for-revmd-crc-april-21-24-2020.docx>
	3. April 29-May 1: <https://mentor.ieee.org/802.11/dcn/20/11-20-0685-02-000m-telecon-minutes-for-revmd-crc-april-29-may-1-2020.docx>
	4. May 6-8: <https://mentor.ieee.org/802.11/dcn/20/11-20-0713-02-000m-telecon-minutes-for-revmd-crc-may-6-8-2020.docx>
4. **Motion 186: PHY CIDs**
	1. <https://mentor.ieee.org/802.11/dcn/20/11-20-0145-11-000m-sb1-revmd-phy-sec-comments.xlsx>
5. **Motion 187: MAC CIDs**
	1. <https://mentor.ieee.org/802.11/dcn/17/11-17-0927-59-000m-revmd-mac-comments.xls>
6. **Motion 188: MAC CIDs – (tabled)**
	1. <https://mentor.ieee.org/802.11/dcn/17/11-17-0927-59-000m-revmd-mac-comments.xls>
7. **Motion 189: GEN CIDs –**
	1. <https://mentor.ieee.org/802.11/dcn/20/11-20-0147-10-000m-sb1-revmd-gen-comments.xls>
8. **Motion 190: Editor2 CIDs**
	1. <https://mentor.ieee.org/802.11/dcn/19/11-19-2160-10-000m-revmd-editor2-standards-association-ballot-comments.xlsx>
9. **Motion 191: Additional deprecated changes in the MIB**
	1. <https://mentor.ieee.org/802.11/dcn/20/11-20-0657-01-000m-proposed-text-change-related-to-the-description-of-a-deprecated-object.docx>
10. **Motion 192: Additional changes to drop eligible language**
	1. <https://mentor.ieee.org/802.11/dcn/20/11-20-0435-03-000m-resolutions-for-some-comments-on-11md-d3-0-sb1.docx>
11. **Motion 193: Change resolution to CID 4043 Dynamic EIFS**
	1. <https://mentor.ieee.org/802.11/dcn/20/11-20-0458-01-000m-resolution-to-cid-4043.docx>
12. <https://mentor.ieee.org/802.11/dcn/20/11-20-0745-00-000m-identifier-privacy-summary.pptx>
13. <https://mentor.ieee.org/802.11/dcn/20/11-20-0746-00-000m-identifier-privacy-mechanism.docx>
14. <https://mentor.ieee.org/802.11/dcn/20/11-20-0543-02-000m-privacy-for-password-identifiers.docx>
15. <https://mentor.ieee.org/802.11/dcn/20/11-20-0654-02-000m-cid-4100-proposed-resolution.doc>
16. <https://mentor.ieee.org/802.11/dcn/20/11-20-0446-02-000m-assorted-comment-resolutions.docx>
17. <https://mentor.ieee.org/802.11/dcn/20/11-20-0367-03-000m-resolution-of-cid-4444.docx>