IEEE P802.11
Wireless LANs

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| TGmd 2019 July, August, September teleconference Minutes |
| Date: 2019-08-09 |
| Author(s): |
| Name | Affiliation | Address | Phone | email |
| Jon Rosdahl | Qualcomm Technologies, Inc. | 10871 N 5750 WHighland, UT 84003 | +1-80-1492-4023 | jrosdahl@ieee.org |
| Edward Au | Huawei  | 303 Terry Fox Drive, Suite 400, Ottawa, Ontario K2K 3J1 |  | edward.ks.au@huawei.com  |
| Joseph Levy | InterDigital, Inc. | 2 Huntington Quadrangle 4th floor, South WingMelville, NY 11747 | +1.631.622.4139 | jslevy@ieee.org |
| Dorothy Stanley | Hewlett Packard Enterprise | 3333 Scott Blvd, Santa Clara CA 95054 | +1 630-363-1389 | dorothy.stanley@hpe.com |

Abstract

This document contains the draft minutes for the July, August and September 2019 TGmd teleconferences:

* Tuesdays: July 30, August 6, 27, Sept 3, at 3PM Eastern, 2 hours
* Fridays: August 2, 9, Sept 6 10am Eastern 2 hours

R0: July 30 Minutes.

R1: August 2 Minutes – Thanks to Edward and Joe for taking notes.

R2: August 6 Minutes – also corrections were made to CID 2604 and 2582 from Aug 2.

R3: August 9 Minutes – Thanks to Dorothy for taking notes – Minor corrections also made to previous telecons.

We’ll use the [join.me](http://join.me) bridge:  <https://join.me/ieee802.11>, see <http://grouper.ieee.org/groups/802/11/joinme.html> for more detailed instructions.

Teleconferences are subject to applicable policies and procedures, see below.

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  •       IEEE Code of Ethics

–       <https://www.ieee.org/about/corporate/governance/p7-8.html>

•       IEEE Standards Association (IEEE-SA) Affiliation FAQ

–       <https://standards.ieee.org/faqs/affiliation.html>

•       Antitrust and Competition Policy

–       <https://standards.ieee.org/content/dam/ieee-standards/standards/web/documents/other/antitrust.pdf>

•       IEEE-SA Patent Policy

–       <http://standards.ieee.org/develop/policies/bylaws/sect6-7.html>

–       <https://standards.ieee.org/about/sasb/patcom/>

 •       IEEE 802 Working Group Policies &Procedures (29 Jul 2016)

–       <http://www.ieee802.org/PNP/approved/IEEE_802_WG_PandP_v19.pdf>

•       IEEE 802 LMSC Chair's Guidelines (Approved 13 Jul 2018)

1. **802.11md - REVmd – Telecon, Tuesday 30 July 2019, 15:00- 17:00 ET**
	1. **Call to Order** at 3:05pm ET by the TG Chair, Dorothy STANLEY (HPE)
	2. **Attendance:**
		1. Dorothy STANLEY (HPE)
		2. Jon ROSDAHL (Qualcomm)
		3. Mark RISON (Samsung)
		4. Sean COFFEY (Realtek)
		5. Mike MONTEMURRO (Blackberry)
		6. Emily QI (Intel)
		7. Edward AU (Huawei)
	3. **Patent Policy:**
		1. Reviewed Policy – Call for Patents was made
		2. No items noted.
	4. **Participation slide:**
		1. <https://mentor.ieee.org/802-ec/dcn/16/ec-16-0180-05-00EC-ieee-802-participation-slide.pptx>
	5. **Review Agenda** – 11-19/1367r1
		1. <https://mentor.ieee.org/802.11/dcn/19/11-19-1367-01-000m-2019-july-aug-sept-tgmd-teleconference-agendas.docx>
		2. Change order to put Menzo after Mark
		3. **2019-07-30 Tuesday 3PM Eastern, 2 hours**
			* GEN CIDS – Jon ROSDAHL
			* 11-19-0856 - Mark RISON CIDs 2316, 2366, 2606, 2584/2585, 2604, 2582
			* 11-19-1195 – Menzo WENTINK
		4. No objection to change ordering of Agenda:
		5. Will post 11-19/1367r2.
	6. **Editor report** –11-18/611r22 -Emily QI (Intel) /Edward AU (Huawei)
		1. <https://mentor.ieee.org/802.11/dcn/18/11-18-0611-22-000m-revmd-wg-ballot-comments.xls>
		2. Thanks for Edward covering in Emily’s absence.
		3. Review comments that were approved in July – see tab “201907 Approved” 180 CIDs.
		4. Great progress has been made.
		5. Will edit approved comment changes into the draft and about 2 weeks a review of updates to be conducted.
		6. We have about 180 CIDs left to go
		7. Target for a D2.4 for the Adhoc in August.
	7. **Review GEN CIDS** – Jon ROSDAHL (Qualcomm)
		1. “Discuss” category comments, to identify a direction
		2. CID 2336 (GEN)
			1. Reviewed the comment. Several changes are suggested by the commenter.
			2. No non-primary in a 20 MHz channel.
			3. Primary channel definition and secondary channel definition, discussion on the proposed change which includes “20 MHz” appended.
			4. Table 8-5, channel list parameter refers to the primary 20 MHz channel.
			5. P192L34 primary 20 MHz - includes 20 MHz
			6. Have we gone through use of the terms in the standard?
			7. Believe spec has been written to assume this.
			8. Proposed Resolution: REVISED (GEN: 2019-07-30 19:44:15Z) –

1. At the end of the definition of "primary channel" append "For example, in a 20 MHz, 40 MHz, 80 MHz, 160 MHz or 80+80 MHz basic service set (BSS) the primary channel is a primary 20 MHz channel."

2. In the definition of "nonprimary channel", "primary 20 MHz channel", "primary 40 MHz channel", "primary 80 MHz channel" delete "very high throughput (VHT)".

3. In the definition of "primary 20 MHz channel" delete "In a VHT BSS, the primary 20 MHz channel is also the primary channel."

4. Change the definition of "secondary channel" to

 "A channel associated with a primary channel used to create a channel wider than the primary channel. In a 40 MHz, 80 MHz, 160 MHz or 80+80 MHz basic service set (BSS) the secondary channel is a secondary 20 MHz channel."

5. Change the definition of "20 MHz basic service set" to "A BSS in which there is a primary 20 MHz channel and no secondary channel.",

* + - 1. No objection - Mark Ready for Motion
		1. CID 2395 (GEN)
			1. Review comment
			2. Discussion on if definition or explicit expansion should be done.
			3. There are 153 occurrences of VHT MU PHY PPDU in the document.
			4. There was a debate in TGax on the term VHT MU PHY PPDU and what it means.
			5. If there are 153 occurrences, perhaps we should add a definition.
			6. There is already a definition for VHT SU PHY PPDU
			7. This term is used extensively in the document.
			8. The definition of VHT SU PHY PPDU refers to a few TX Vector parameters. The VHT MU PHY PPDU is more descriptive.
			9. An alternate way forward could be to change the definition, deleting “format equal to VHT and”
			10. Now there’s a discrepancy between the MU and SU definitions.
			11. Keep the descriptive text for MU and modify the SU to be more descriptive.
			12. Proposed Resolution: REVISED (GEN: 2019-07-30 20:02:38Z) –

1. Change the definition of "very high throughput (VHT) single-user (SU) physical layer (PHY) protocol data unit (PPDU)" to

"A VHT PPDU that carries one PHY service data unit (PSDU) for one user and is not transmitted using the downlink multi-user multiple input, multiple output (DL-MU-MIMO) technique."

2. Change the definition of "very high throughput (VHT) multi-user (MU) physical layer (PHY) protocol data unit (PPDU)" to

"A VHT PPDU that is capable of carrying up to four PHY service data units (PSDUs) for up to four users and is transmitted using the downlink multi-user multiple input, multiple output (DL-MU-MIMO) technique."

* + - 1. No Objection – Mark Ready for Motion
		1. CID 2644 (GEN)
			1. Start to Review CID and Mark RISON volunteered to prepare a submission.
			2. Mark “Submission Required” and move to “Gen Assigned CID” tab
		2. CID 2224 (GEN)
			1. Review Comment
			2. The new definition does not allow classification to occur above the MAC SAP.
			3. This is really a MAC comment.
			4. Assign to “EDCA” Comment Group and move to MAC adhoc group.
		3. No other GEN comments to discuss today.
	1. **Review Doc 11-19-0856** - Mark RISON (Samsung)
		1. Review CIDs 2316, 2366, 2606, 2584/2585, 2604, 2582
		2. <https://mentor.ieee.org/802.11/dcn/19/11-19-0856-06-000m-resolutions-for-some-comments-on-11md-d2-0-lb236.docx>
		3. CID 2316 (GEN)
			1. The comment is not ready for discussion
		4. CID 2366 (GEN)
			1. Review comment
			2. Review proposed changes
			3. The MAC variable aSlotTime and the PHY variable aSlotTIme are distinct and need to be unambiguous definition.
			4. Discussion of the deletion “At D2.2/2958.33 delete “A STA shall use short slot if the BSS indicates short slot.”
			5. Discussion of aCWmin – MAC and PHY versions.
			6. Review the Local Variable to MAC Variables changes.
			7. Proposed Resolution: Revised; Make the changes shown under “Proposed changes” for CID in 11-19/856r7 <<https://mentor.ieee.org/802.11/dcn/19/11-19-0856-07-000m-resolutions-for-some-comments-on-11md-d2-0-lb236.docx> which make clear distinctions between MAC variables (including state variables), PHY characteristics and MIB attributes.
			8. No objection – Mark Ready for Motion
		5. CID 2606 (GEN)
			1. Review comment
			2. Review the rules for “can”.
			3. Review other editorial changes briefly but spent more time on the substantive changes.
			4. Proposed Resolution: REVISED; 1.4 allows both “present” and “included”, so those changes are not necessary.

Make the following changes in D2.2:

At 1014.18 change “optional subelements field” to “list of optional subelements”.

At 1014.53 change “Multiple AP Channel Report and Vendor Specific subelements can be included in the list of optional subelements.” to “Zero or more AP Channel Report subelements and zero or more Vendor Specific subelements are included in the list of optional subelements.”

At 1029.60, 1072.59, 1073.3, 1547.1 change “Optional Subelements field” to “list of optional subelements”.

At 1033.63, 1081.50, 1083.2, 1084.14, 1085.60 change “Multiple Vendor Specific subelements can be included in the list of Optional Subelements.” to “Zero or more Vendor Specific subelements are included in the list of optional subelements.”

At 1036.54 change “Multiple Vendor Specific subelements can be included in the Optional Subelements field.” to “Zero or more Vendor Specific subelements are included in the list of optional subelements.”

At 1210.50 change “list of Optional subelements” to “list of optional subelements”.

At 1150.65 delete “More than one Multiple BSSID element can be included in a Beacon, S1G Beacon,(11ah) or DMG Beacon frame.”

At 1458.1 delete “Zero or more Venue Name fields can be included in the same or different languages.” (cf. line 17).

At 1623.25 change “Multiple Channel Measurement Info fields can be included if the reporting STA measures the channel for multiple RDSs.” to “More than one Multiple Channel Measurement Info field is included if the reporting STA measures the channel for multiple RDSs.”

* + - 1. No objection – Mark Ready for Motion
		1. CID 2584 and 2585 (MAC)
			1. Review comment
			2. Discussion of the meaning of “Extensible”.
			3. Add page and line number (990.1) to the resolution.
			4. Missing Quotes in 10.29.8 and 10.29.9, so the quote marks should be added.
			5. Discussion on if the cells that are blank in a table should be filled in with” No” or not.
			6. CID 1105 had a resolution “REVISED (MAC: 2018-08-01 23:28:12Z): REVISED – Add a “No” to the Extensible column for all rows that currently have a blank cell (except for the reserved rows).”
			7. Was this just for the cited table or not.
			8. Vendor Specific is often Extensible, so we may have trouble knowing if it is extensible or not.
			9. We should change the resolution to allow for Vendor Defined for Vendor Specific, and leave Reserved blank, but can fill in the others with “No”.
			10. This would also require changing the table CID 1105 changed to “No” to change to “Vendor defined”.
			11. Running out of time – need more review and bring back later.
		2. CID 2418 (GEN)
			1. Review Comment – not ready
		3. CID 2582 (MAC)
			1. Review Comment
			2. Missing identification of “PCP” not being included in the clause.
	1. **Next Call** Aug 2 - Friday Morning
		1. 2019-08-02 Friday 10am Eastern, 2 hours
1. 11-19-1297 CIDs 2537-2539 – Stephen MCCANN
2. FILS CIDs – Marc EMMELMANN
3. 11-19-1195 – Menzo WENTINK
4. 11-19-0856 - Mark RISON CIDs 2316, 2606, 2584/2585, 2604, 2582
	* 1. Note: Jon and Mark H will not be on call.
		2. Note: Michael MONTEMURRO to take minutes
	1. **Adjourn at 5:02pm ET**

1. **802.11md - REVmd – Telecon, Friday 2 August 2019, 10:00- 12:00 ET**
	1. **Call to Order** at 10:02am ET by the TG Chair, Dorothy STANLEY (HPE)
	2. **Attendance:**
		1. Dorothy STANLEY (HPE)
		2. Emily QI (Intel)
		3. Edward AU (Huawei)
		4. Osama ABOUL-MAGD (Huawei)
		5. George CALCEV (Futurewei)
		6. Sean COFFEY (Realtek)
		7. Marc EMMELMANN (Self)
		8. Joseph LEVY (InterDigital)
		9. Stephen MCCANN (BlackBerry)
		10. Mark RISON (Samsung)
	3. **Patent Policy:**
		1. Reviewed Policy – Call for Patents was made
		2. No items noted.
	4. **Participation slide:**
		1. <https://mentor.ieee.org/802-ec/dcn/16/ec-16-0180-05-00EC-ieee-802-participation-slide.pptx>
	5. **Review Agenda** – 11-19/1367r2
		1. <https://mentor.ieee.org/802.11/dcn/19/11-19-1367-02-000m-2019-july-aug-sept-tgmd-teleconference-agendas.docx>
		2. **2019-08-02 Friday 10AM Eastern, 2 hours**
			* 11-19-1297 CIDs 2537-2539 – Stephen MCCANN
			* 11-19-1385 CID 2543 – Edward AU
			* FILS CIDs – Marc EMMELMANN
			* 11-19-1195 – Menzo WENTINK
			* 11-19-0856 - Mark RISON CIDs 2584/2585, 2604, 2582
		3. No objection on the agenda items.
	6. **Editor report** – Emily QI (Intel) / Edward AU (Huawei)
		1. Continue editing approved comment changes into the draft.
	7. **Review Doc 11-19-1297** – Stephen MCCANN (BlackBerry)
		1. <https://mentor.ieee.org/802.11/dcn/19/11-19-1297-03-000m-cids-2537-2539-proposed-resolutions.doc>
		2. CID 2537 (GEN)
			1. Review comment.
			2. Add page and line number (581.15 and 584.34 in D2.0) to the resolution.
			3. Proposed resolution: ACCEPT
			4. No objection – Mark Ready for Motion
		3. CID 2538 (GEN)
			1. Review comment.
			2. Add page and line number (581.21, 583.7, 584.40, and 586.20 in D2.0) to the resolution.
			3. Proposed resolution: ACCEPT
			4. No objection – Mark Ready for Motion
		4. CID 2539 (GEN)
			1. Review comment.
			2. The capitalization of “GAS Query Request” is odd as it is neither an element nor field.
			3. Proposed Resolution: REVISED, Make the changes shown under “Proposed changes” for CID 2539 in 11-19/1297r4 <<https://mentor.ieee.org/802.11/dcn/19/11-19-1297-04-000m-cids-2537-2539-proposed-resolutions.doc>>.
			4. No objection – Mark Ready for Motion
	8. **Review Doc 11-19-1385** – Edward AU (Huawei)
		1. CID 2543 (EDITOR2)
			1. <https://mentor.ieee.org/802.11/dcn/19/11-19-1385-00-000m-resolution-for-cid-2543.docx>
			2. Review comment.
			3. At 2382.52, replace “the ARP Response packet” with “the ARP response packet”.
			4. Proposed Resolution: REVISED, Make the changes shown under “Proposed changes” for CID 2543 in 11-19/1385r1 <<https://mentor.ieee.org/802.11/dcn/19/11-19-1385-01-000m-resolution-for-cid-2543.docx>>.
			5. No objection – Mark Ready for Motion
	9. **Review Doc 11-19-1253** – Marc EMMELMANN (Self)
		1. CID 2579 (MAC)
			1. <https://mentor.ieee.org/802.11/dcn/19/11-19-1253-00-000m-suggested-comment-resolution-for-cid-2579-on-remmd-d2-0.docx>
			2. Review comment.
			3. Proposed Resolution: ACCEPTED
			4. No objection – Mark Ready for Motion
	10. **Review Doc 11-19-1250** – Marc EMMELMANN (Self)
		1. CID 2524 (MAC)
			1. <https://mentor.ieee.org/802.11/dcn/19/11-19-1250-00-000m-suggested-comment-resolution-for-cid-2524-on-remmd-d2-0.docx>
			2. Review comment.
			3. Proposed Resolution: REVISED, Make the changes shown under “Proposed changes” for CID 2524 in 11-19/1250r1 <<https://mentor.ieee.org/802.11/dcn/19/11-19-1250-01-000m-suggested-comment-resolution-for-cid-2524-on-remmd-d2-0.docx>> that changes the identified text to “The SME is notified of the received IP Address setup request.”.
			4. No objection – Mark Ready for Motion
	11. **Review Doc 11-19-1251** – Marc EMMELMANN (Self)
		1. CID 2547 (MAC)
			1. <https://mentor.ieee.org/802.11/dcn/19/11-19-1251-00-000m-suggested-comment-resolution-for-cid-2547-on-remmd-d2-0.docx>
			2. Review comment.
			3. Proposed Resolution: REVISED, Make the changes shown under “Proposed changes” for CID 2547 in 11-19/1251r1 <<https://mentor.ieee.org/802.11/dcn/19/11-19-1251-01-000m-suggested-comment-resolution-for-cid-2547-on-remmd-d2-0.docx>> that, in Table 9-293 at the end of the rightmost cell for rows B2 and B4, add “See NOTE.” and at the bottom of the table add a table “NOTE---A STA in a purely local network environment might be assigned an IP address without requiring a gateway address.”.
			4. No objection – Mark Ready for Motion
	12. **Review Doc 11-19-1248** – Marc EMMELMANN (Self)
		1. CID 2407 (MAC)
			1. <https://mentor.ieee.org/802.11/dcn/19/11-19-1248-01-000m-suggested-comment-resolution-for-cid-2407-on-remmd-d2-0.docx>
			2. Review comment.
			3. Discuss on the terms “high priority” versus “prioritized FILS”.
			4. Proposed Resolution: REVISED, Make the changes shown under “Proposed changes” for CID 2407 in 11-19/1248r2 <<https://mentor.ieee.org/802.11/dcn/19/11-19-1248-02-000m-suggested-comment-resolution-for-cid-2407-on-remmd-d2-0.docx> >.
			5. No objection – Mark Ready for Motion
	13. **Review Doc 11-19-1247** – Marc EMMELMANN (Self)
		1. CID 2406 (MAC)
			1. <https://mentor.ieee.org/802.11/dcn/19/11-19-1247-01-000m-suggested-commente-resolution-for-cid-2406-on-remmd-d2-0.docx>
			2. Review comment.
			3. Discuss on the terminology of “Differentiated Initial Link Setup element”.
			4. Proposed Resolution: ACCEPTED
			5. No objection – Mark Ready for Motion
	14. **Review doc 11-19/0856r6–** Mark RISON (Samsung)
		1. CID 2582 (MAC)
			1. <https://mentor.ieee.org/802.11/dcn/19/11-19-0856-06-000m-resolutions-for-some-comments-on-11md-d2-0-lb236.docx>
			2. Review comment.
			3. Reviewed proposed changes – showing additions of PCPs
			4. Chair asked for comments – there were none.
			5. Small addition of an “ ’ ” , will be in R7
			6. Proposed Resolution: Revised Make the changes shown under “Proposed changes” for CID 2582 in doc 11-19/856r7 <<https://mentor.ieee.org/802.11/dcn/19/11-19-0856-07-000m-resolutions-for-some-comments-on-11md-d2-0-lb236.docx> >, which address the issue raised.
			7. No objection – Mark Ready for Motion
		2. CID 2604 (GEN)
			1. <https://mentor.ieee.org/802.11/dcn/19/11-19-0856-06-000m-resolutions-for-some-comments-on-11md-d2-0-lb236.docx>
			2. Review comment.
			3. Reviewed proposed changes – addressing changing “successfully receive” as you either receive it or not.
			4. The Editor was concerned as to the direction of this change, which provoked some discussion
			5. Discussed the previous comment CID 1118, which is in this direction – was accepted. This comment defined the principle.
				1. History: CID 1118: "successfully" is unnecessary (an unsuccessful receive is not possible); Editorial comment in one place; Delete "successfully" ACCEPTED (EDITOR2: 2018-03-25 07:04:44Z)
			6. Discussion on the use of “on either” near one of the “successful” deletions. Decided to delete the “on either”.
			7. Some discussion on “Multicast MSDU” – this will not be addressed with this CID.
			8. Updates will be in R7 to be posted – Author will add line numbers and highlight deletions.
			9. Proposed resolution: Revised; Make the changes shown under “Proposed changes” for CID 2604 in doc 11-19/856r7 <<https://mentor.ieee.org/802.11/dcn/19/11-19-0856-07-000m-resolutions-for-some-comments-on-11md-d2-0-lb236.docx> >, which make the changes suggested and additionally delete a spurious “on either” at the end of a sentence.
			10. No objection – Mark Ready for Motion as a separate motion.
		3. Open item: CID 2606 (GEN) resolution should be updated – will be discussed in the future. The updated resolution will be in r7 and presented on Tuesday.
	15. Next Teleconference – Tuesday 2019-8-06 3PM EDT.
		1. The agenda has been updated as shown:
		* 11-19-660 CID 2115 – Ganesh VENKATESAN
		* CID 2234 - 11-19-610 – Emily QI
		* 11-19-0856 - Mark RISON CIDs 2606 (revisit)
		* CID 2357 (Discussed in Vienna, confirm no additional changes MAH) – HAMILTON
		* CID 2692, MAC CIDs – Mark HAMILTON
		* 11-19-0856 - Mark RISON CIDs 2584/2585
	16. **Adjourn at 12:02pm ET**
2. **802.11md - REVmd – Telecon, Tuesday 6 Aug 2019, 15:00- 17:00 ET**
	1. **Call to Order** at 3:04pm ET by the TG Chair, Dorothy STANLEY (HPE)
	2. **Attendance:**
		1. Dorothy STANLEY (HPE)
		2. Jon ROSDAHL (Qualcomm)
		3. Emily QI (Intel)
		4. Edward AU (Huawei)
		5. Joseph Levy (InterDigital)
		6. Mark HAMILTON (Ruckus/CommScope)
		7. Mark RISON (Samsung)
	3. **Patent Policy:**
		1. Reviewed Policy – Call for Patents was made
		2. No items noted.
	4. **Participation slide:**
		1. <https://mentor.ieee.org/802-ec/dcn/16/ec-16-0180-05-00EC-ieee-802-participation-slide.pptx>
	5. **Review Agenda** – 11-19/1367r3
		1. <https://mentor.ieee.org/802.11/dcn/19/11-19-1367-03-000m-2019-july-aug-sept-tgmd-teleconference-agendas.docx>
		2. Comment Resolution Agenda:
			1. **2019-08-06 Tuesday 3PM Eastern, 2 hours**
	6. 11-19-660 CID 2115 – Ganesh VENKATESAN
	7. CID 2234 - 11-19-610 – Emily QI
	8. 11-19-0856 - Mark RISON CIDs 2606 (revisit)
	9. CID 2357 (Discussed in Vienna, confirm no additional changes MAH) – HAMILTON
	10. CID 2692, MAC CIDs – Mark HAMILTON
	11. 11-19-0856 - Mark RISON CIDs 2584/2585
		1. Move agenda to allow for those present and not present.
		2. Reordering was done to accommodate schedules.
		3. Approved Comment Resolution agenda for today:
3. **2019-08-06 Tuesday 3PM Eastern, 2 hours**
	1. MAC CIDs – Mark HAMILTON – CID 2275, 2618, 2230, 2235, 2239, 2472
	2. CID 2357 (Discussed in Vienna, confirm no additional changes MAH) – HAMILTON
	3. 11-19-0856 - Mark RISON CIDs 2606 (revisit – agreed to updates to prior resolution)
	4. 11-19-0856 - Mark RISON CIDs 2584/2585, additional CIDs 2418, 2536
		1. Approved Agenda captured in 11-19/1367r4
	5. **Editor Report – Emily QI**
		1. Working on draft 2.4 – expect to get review started next week.
	6. **Review doc 11-19-551r6** Mark HAMILTON (Ruckus/CommScope)
		1. <https://mentor.ieee.org/802.11/dcn/19/11-19-0551-06-000m-revmd-lb236-comments-assigned-to-hamilton.docx>
		2. CID 2275 (MAC)
			1. Review comment
			2. Review CID 1588 resolution for context.
			3. Review submission discussion.
			4. Proposed Resolution: Rejected. The commenter fails to identify why this particular scenario needs more explicit reference to the clause 9 rules than any other scenario in clause 11.
			5. No objection – Mark Ready for Motion
		3. CID 2618 (MAC)
			1. Review Comment
			2. Review discussion.
			3. Proposed resolution: Revised. Delete “A STA that implements BSS transition management has dot11BSSTransitionImplemented equal to true.” Change “When dot11BSSTransitionImplemented is true, dot11WirelessManagementImplemented shall be true.” To “For a STA to set (or allow to be set) dot11BSSTransitionActivated to true, dot11WirelessManagementImplemented shall be true.”
			4. Discussion:
				1. The proposed change was to do the deletion, but the changed sentence was discussed. The concern was the sentence was a bit different format from other areas.
				2. Discussion on the need of “or to allow” in the proposed sentence. Suggestion to remove the “or to allow” out.
				3. Discussion on if this attribute “dot11BSSTransitionActivited” is set internally or externally.
				4. Need to also delete “dot11BssTransitionImplemented” from the MIB. But even though it has not been used, it is in the MIB structure, and will need to get detailed instructions to deprecate the item from the MIB.
			5. Updated Proposed Resolution: Revised; Delete “A STA that implements BSS transition management has dot11BSSTransitionImplemented equal to true.” And deprecate dot11BSSTransitionImplemented in the MIB. <Add the detailed instructions>

Change “When dot11BSSTransitionImplemented is true, dot11WirelessManagementImplemented shall be true.”

To

“When dot11BSSTransitionActivated is true, dot11WirelessManagementImplemented shall be true”

* + - 1. No objection – Mark Ready for Motion – More details will need to be given prior to a September motion.
		1. CID 2230 (MAC)
			1. Review comment
			2. Proposed Resolution: Accept
			3. No objection – Mark Ready for Motion
		2. CID 2235 (MAC)
			1. Review Comment
			2. Review diagram
			3. Proposed Resolution: Accept
			4. Discussion:
				1. Discussion on if DCF is actual being used.

When a non-QOS device is used, then DCF is used, but that was not universally assured. Need more research to add a note that indicates that.

* + - * 1. Discussion on when DCF can be accessed. See Figure 10-3 (D2.3 -p1704). Need more research to ensure when the DCF can get to or not.
				2. Discussion on DCF being deprecated or not?

This would be an 11b only device that would need to be addressed.

* + - * 1. Request to check with Menzo on this topic.
				2. Request to have this reviewed during the Face to Face AdHoc.
				3. There is at least one case that this change is accurate. Mark this comment as an Accept and then if there is something different, we can revisit.
			1. Mark Ready for Motion
		1. CID 2239 (MAC)
			1. Review Comment
			2. Review discussion.
			3. Discussion:
				1. Discussion on the wording of the changes.
				2. Need to change “n” to “variable” not “Octets”
				3. Ensure that we have changed all the “n’s that need to be changed to ensure correctness.
			4. Proposed Resolution: Revised;

Change “n” to "variable' in Figure 9-291.

In the third paragraph, replace the sentence, "The length of the Extended Capabilities field is a variable n" with "The length of the Extended Capabilities field is variable. If fewer bits are received in an Extended Capabilities field than shown in Table 9-153, the rest of the Extended Capabilities field bits are assumed to be zero."

In Table 9-153, change "n" in the last row to 87.

* + - 1. No Objection - Mark Ready for Motion
		1. CID 2472 (MAC)
			1. Review Comment.
			2. Review discussion.
			3. Discussion:
				1. What is the difference between just before or just after?
				2. Discussion on when the switch is going to occur.
				3. Beacon’s go sometime after the TBTT.
				4. Discussion on whether the example needs to be removed or not.
				5. Discussion on when the Beacon goes on the new channel, and how does the channel switch time effect the TBTT and does it affect the prior or the next TBTT.
				6. The discussion came to a point that there may be some change that may need to be made, but it was not conclusive.
				7. Either we reject the comment, or just delete the sentence, or some more work needs to be done.
				8. Discussion on what each sentence means and determine if there is a conflict or not.
			4. Proposed Resolution: Rejected. The language “number of TBTTs until” is not obvious to indicate “just before” or “just after” that number of TBTTs happens. The example clarifies this.
			5. Straw Poll:
				1. Support Resolution: Reject –

Yes–No-Abstain-

5-1-0 support reject

* + - 1. Mark Ready for Motion
			2. Question on second part of the Proposed change that was not addressed, so we will need to come back and revise the proposed resolution.
			3. More work to be done.
	1. **Review doc 11-19/856r7** – Mark RISON (Samsung)
		1. <https://mentor.ieee.org/802.11/dcn/19/11-19-0856-07-000m-resolutions-for-some-comments-on-11md-d2-0-lb236.docx>
		2. CID 2606 (GEN)
			1. Resume discussion from July 30 (note the minutes listed CID 2606 as a MAC comment, so the database did not get updated last week.
			2. Updated Resolution: REVISED 1.4 allows both “present” and “included”, so those changes are not necessary.

Make the following changes in D2.2:

* At 1008.54, 1010.42 change “Multiple Vendor Specific subelements might be included in the list of optional subelements.” to “Zero or more Vendor Specific subelements are included in the list of optional subelements.”
* At 1014.18 change “optional subelements field” to “list of optional subelements”.
* At 1014.53 change “Multiple AP Channel Report and Vendor Specific subelements can be included in the list of optional subelements.” to “Zero or more AP Channel Report subelements and zero or more Vendor Specific subelements are included in the list of optional subelements.”
* At 1016.19, 1020.61, 1023.39, 1027.2, 1027.49, 1042.54, 1044.47, 1047.58, 1050.2, 1059.2, 1065.16, 1069.2, 1141.33, 1144.57, 1151.59, 1210.50, change “Multiple Vendor Specific subelements are optionally present in the list of optional subelements.” to “Zero or more Vendor Specific subelements are included in the list of optional subelements.”
* At 1029.60, 1072.59, 1073.3, 1547.1 change “Optional Subelements field” to “list of optional subelements”.
* At 1033.63, 1081.50, 1083.2, 1084.14, 1085.60 change “Multiple Vendor Specific subelements can be included in the list of Optional Subelements.” to “Zero or more Vendor Specific subelements are included in the list of optional subelements.”
* At 1036.54 change “Multiple Vendor Specific subelements can be included in the Optional Subelements field.” to “Zero or more Vendor Specific subelements are included in the list of optional subelements.”
* At 1210.50 change “list of Optional subelements” to “list of optional subelements”.
* At 1150.65 delete “More than one Multiple BSSID element can be included in a Beacon, S1G Beacon,(11ah) or DMG Beacon frame.”
* At 1458.1 delete “Zero or more Venue Name fields can be included in the same or different languages.” (cf. line 17).
* At 1512.19 change “Multiple Vendor Specific subelements may be included in the list of optional subelements.” to “Zero or more Vendor Specific subelements are included in the list of optional subelements.”
* At 1623.25 change “Multiple Channel Measurement Info fields can be included if the reporting STA measures the channel for multiple RDSs.” to “More than one Multiple Channel Measurement Info field is included if the reporting STA measures the channel for multiple RDSs.”
* At 2133.38 change “The Partial Virtual Bitmap field (#1096)of the TIM element carried in the Beacon(11ah), S1G Beacon, or DMG Beacon frame shall indicate the presence or absence of traffic” to “The Partial Virtual Bitmap field (#1096)of the TIM element carried in the Beacon(11ah), S1G Beacon, or TIM frame shall indicate the presence or absence of traffic” (note “TIM frame” was already added by 19/0396r5).
	+ - 1. Mark Ready for Motion
		1. CID 2584 and 2585 (MAC)
			1. Review Comment
			2. Discussion on the quoting convention to ensure proper information is conveyed.
				1. Editor to look at the convention and ensure it is properly followed. Try to make the double quote usage consistent.
			3. Resume review of the changes proposed to make the draft more consistent.
			4. The changes on Page 46 and 47 directly relate to the comments, but then there is more editorial changes that are being proposed.
			5. Suggestion for a separate motion on the Editorials that will be made.
			6. WNM element does not list a Vendor Specific field, so the question was if this is intentional or if it is an error. This is a different technical topic and so will be dropped from this proposed resolution.
			7. In Table 9-365, the table does not have Vendor Specific, but the text indicates that there should be a Vendor Specific subelement. This too is a different technical issue and should be taken separately.
			8. Page 47 had two question comments, that also will be taken separately.
			9. The TSF Subelement changes reviewed. The “TSF Information” has the word “Information” in the name, so we need to determine if the name is correct or not.
			10. The “Editorial changes” have some changes that may be more than just strictly editorial. We need to have the proposed changes reviewed to see if we can find consensus on the changes.
			11. We returned to the changes specific to the CIDs to see if there were any concerns that people could identify.
			12. We want to have an R8 posted and have people review the two sets of information and try to close on this on Friday.
		2. Ran out of time
	1. **Next call on Friday** at 10am ET.
	2. **Adjourned 5:01pm ET**
1. **802.11md - REVmd – Telecon, Friday 9 August 2019, 10:00- 12:00 ET**
	1. **Call to Order** at 10:10am ET by the TG Chair, Dorothy STANLEY (HPE)
	2. **Attendance:**
		1. Dorothy STANLEY (HPE)
		2. Emily QI (Intel)
		3. Mark RISON (Samsung)
		4. Edward AU (Huawei)
		5. Joseph LEVY (InterDigital)
		6. Mark HAMILTON (Ruckus/CommScope)
	3. **Patent Policy:**
		1. Reviewed Policy – Call for Patents was made
		2. No items noted.
	4. **Participation slide:**
		1. <https://mentor.ieee.org/802-ec/dcn/16/ec-16-0180-05-00EC-ieee-802-participation-slide.pptx>
	5. **Review Agenda** –11-19/1367r4
		1. Review of agenda in <https://mentor.ieee.org/802.11/dcn/19/11-19-1367-04-000m-2019-july-aug-sept-tgmd-teleconference-agendas.docx>
		2. agenda agreed without change.
	6. **Editor report** – Emily QI (Intel)
		1. Plan to send out request for volunteer reviewers today
		2. Target - Begin review August 15th
		3. Target - Publish P802.11REVmd D2.4 during the week of August 26th
	7. **Review doc 11-19-839** CIDs 2447, 2448 – Dorothy STANLEY (HPE)
		1. CIDs 2447, 2448 (MAC)
			1. Reviewed both comments and corresponding locations in the document.
			2. Reviewed proposed resolution.
			3. Add comma, refer to R3 in the resolution.
			4. Proposed Resolution for CID 2447: Revised; Incorporate the changes indicated in 11-19/0893r3 <<https://mentor.ieee.org/802.11/dcn/19/11-19-0839-03-000m-comment-resolution-cids-2229-2447-2448.docx>> for CIDs 2447/2448, which implement the resolution in the direction suggested by the commenter.
			5. Mark CID 2447 Ready for Motion
			6. Proposed Resolution for CID 2448: Revised; Incorporate the changes indicated in 11-19/0839r3 <<https://mentor.ieee.org/802.11/dcn/19/11-19-0839-03-000m-comment-resolution-cids-2229-2447-2448.docx>> for CIDs 2447/2448, which implement the resolution in the direction suggested by the commenter.
			7. Mark CID 2448 Ready for Motion
	8. **Review doc 11-19- 856r8** Mark RISON (Samsung)
		1. CIDS 2584/2585 (MAC)
			1. Review changes to the document which separated the changes due to the comment from additional technical and editorial changes
			2. Review changes for CIDs 2584/2485 and additional changes
			3. Why would we allow/add the vendor specific in the 2 cases?
			4. Nearly all already allow. Add for consistency.
			5. Condensed Country String Element – correct definition – Data field
			6. TSF sub-element vs TSF Information sub-element. Suggest later is more accurate, make consistent on the more accurate term
			7. Question on the Data field addition, check context, confirm full name is needed.
			8. Channel Measurement Request vs DCS Channel Measurement Request.
			Review of locations. Change is to add “DCS” to have naming consistent. Alternatively, could delete “DCS”. Use DCS, disambiguates from other Channel Measurement types.
			9. Proposed Resolution for CID 2584: Revised Make the changes shown under “Proposed changes” for CIDs 2584 and 2585 in 11-19/856r8 <<https://mentor.ieee.org/802.11/dcn/19/11-19-0856-08-000m-resolutions-for-some-comments-on-11md-d2-0-lb236.docx> , which explicitly say “No” for non-reserved non-extensible elements, and make some editorial improvements.
			10. Mark CID 2584 Ready for Motion.
			11. Proposed Resolution for CID 2585: Revised Make the changes shown under “Proposed changes” for CIDs 2584 and 2585 in 11-19/856r8 <<https://mentor.ieee.org/802.11/dcn/19/11-19-0856-08-000m-resolutions-for-some-comments-on-11md-d2-0-lb236.docx> >, which explicitly say “No” for non-reserved non-extensible elements, and make some editorial improvements.
			12. Mark CID 2585 Ready for Motion.
		2. Review changes for “Proposed Technical Changes”
			1. Remove “TBC”
			2. Table 9-431, add “frame” at the end of the title – add this to the list of editorial changes
			3. No further comments, ready for motion, will have a separate motion for these changes
		3. Review changes for “Proposed Editorial Changes”
			1. Discussion on Subelement ID and length text- need for it.
			2. Mark Rison to investigate amount of work needed to add length and Subelement ID sentences.
			3. More work needed
	9. CID 2418 (GEN)
		1. Reviewed the comment.
		2. Discussion on ACK/Block ACK and immediate response or not.
		3. RTS/CTS is considered a successful exchange? No, need following frame also to be considered successful.
		4. If that’s try, then the proposed changes are not correct.
		5. Review usage of RDS
		6. Review usage for PMKSA
		7. Comment: changes seem to be broader than the comment. Deleting a lot of other text.
		8. More work needed re: RTS/CTS exchange.
		9. Action: Members to review PMKSA changes.
		10. Comment: RRB change – frames not being allowed to be exchanged. Need a definition for what successfully means in the context of RRB.
		11. Review sentence in context.
		12. Change to state that the 2 shall be in the same mobility domain.
		13. More work needed.
		14. (*Secretary note – CID 2418 is marked ready for motion on the “GEN Insufficient Information” tab and baring a new resolution, will be subject to a motion for acceptance of the reject resolution.)*
	10. CID 2536 (GEN)
		1. Review comment and proposed locations for the changes.
		2. Concern raised in prior discussions in Vienna re: use “element”
		3. Agree to change “element” to “entry” and case.
		4. Proposed Resolution: REVISED Make the changes shown under “Proposed changes” for CID 2536 in 11-19/056r9: <<https://mentor.ieee.org/802.11/dcn/19/11-19-0856-09-000m-resolutions-for-some-comments-on-11md-d2-0-lb236.docx>> which resolve the comment in the direction suggested by the commenter, changing “element” to “entry” rather than “member”.
		5. Mark CID 2536 Ready for motion.
	11. CID 2357 (PHY)
		1. Review of the comment and changes in 11-1034r2
		2. Changes are those in 11-19-1034 plus additional items.
		3. Mark Rison to add complete set of proposed changes for CID 2357 to 11-19- 856.
		4. More work needed.
	12. **AOB**
		1. No teleconferences next week.
		2. Review of ad-hoc agenda and reminder to tell Michael Montemurro if you plan to attend the upcoming TGmd ad-hoc meeting in person.
		3. Thanks to all participants for attending and contributing.
	13. **Adjourn at noon Eastern time.**

**References:**

**July 30th:**

1. <https://mentor.ieee.org/802-ec/dcn/16/ec-16-0180-05-00EC-ieee-802-participation-slide.pptx>
2. <https://mentor.ieee.org/802.11/dcn/19/11-19-1367-01-000m-2019-july-aug-sept-tgmd-teleconference-agendas.docx>
3. <https://mentor.ieee.org/802.11/dcn/18/11-18-0611-22-000m-revmd-wg-ballot-comments.xls>
4. <https://mentor.ieee.org/802.11/dcn/19/11-19-0856-06-000m-resolutions-for-some-comments-on-11md-d2-0-lb236.docx>
5. <https://mentor.ieee.org/802.11/dcn/19/11-19-0856-07-000m-resolutions-for-some-comments-on-11md-d2-0-lb236.docx>

**August 2nd:**

1. <https://mentor.ieee.org/802-ec/dcn/16/ec-16-0180-05-00EC-ieee-802-participation-slide.pptx>
2. <https://mentor.ieee.org/802.11/dcn/19/11-19-1367-02-000m-2019-july-aug-sept-tgmd-teleconference-agendas.docx>
3. <https://mentor.ieee.org/802.11/dcn/19/11-19-1297-03-000m-cids-2537-2539-proposed-resolutions.doc>
4. <https://mentor.ieee.org/802.11/dcn/19/11-19-1297-04-000m-cids-2537-2539-proposed-resolutions.doc>
5. <https://mentor.ieee.org/802.11/dcn/19/11-19-1385-00-000m-resolution-for-cid-2543.docx>
6. <https://mentor.ieee.org/802.11/dcn/19/11-19-1385-01-000m-resolution-for-cid-2543.docx>
7. <https://mentor.ieee.org/802.11/dcn/19/11-19-1253-00-000m-suggested-comment-resolution-for-cid-2579-on-remmd-d2-0.docx>
8. <https://mentor.ieee.org/802.11/dcn/19/11-19-1250-00-000m-suggested-comment-resolution-for-cid-2524-on-remmd-d2-0.docx>
9. <https://mentor.ieee.org/802.11/dcn/19/11-19-1250-01-000m-suggested-comment-resolution-for-cid-2524-on-remmd-d2-0.docx>
10. <https://mentor.ieee.org/802.11/dcn/19/11-19-1251-00-000m-suggested-comment-resolution-for-cid-2547-on-remmd-d2-0.docx>
11. <https://mentor.ieee.org/802.11/dcn/19/11-19-1251-01-000m-suggested-comment-resolution-for-cid-2547-on-remmd-d2-0.docx>
12. <https://mentor.ieee.org/802.11/dcn/19/11-19-1248-01-000m-suggested-comment-resolution-for-cid-2407-on-remmd-d2-0.docx>
13. <https://mentor.ieee.org/802.11/dcn/19/11-19-1248-02-000m-suggested-comment-resolution-for-cid-2407-on-remmd-d2-0.docx>
14. <https://mentor.ieee.org/802.11/dcn/19/11-19-1247-01-000m-suggested-commente-resolution-for-cid-2406-on-remmd-d2-0.docx>
15. <https://mentor.ieee.org/802.11/dcn/19/11-19-0856-06-000m-resolutions-for-some-comments-on-11md-d2-0-lb236.docx>

**August 6th:**

1. <https://mentor.ieee.org/802-ec/dcn/16/ec-16-0180-05-00EC-ieee-802-participation-slide.pptx>
2. <https://mentor.ieee.org/802.11/dcn/19/11-19-1367-03-000m-2019-july-aug-sept-tgmd-teleconference-agendas.docx>
3. <https://mentor.ieee.org/802.11/dcn/19/11-19-1367-04-000m-2019-july-aug-sept-tgmd-teleconference-agendas.docx>
4. <https://mentor.ieee.org/802.11/dcn/19/11-19-0551-06-000m-revmd-lb236-comments-assigned-to-hamilton.docx>
5. <https://mentor.ieee.org/802.11/dcn/19/11-19-0856-07-000m-resolutions-for-some-comments-on-11md-d2-0-lb236.docx>

**August 9th:**

1. <https://mentor.ieee.org/802-ec/dcn/16/ec-16-0180-05-00EC-ieee-802-participation-slide.pptx>
2. <https://mentor.ieee.org/802.11/dcn/19/11-19-1367-04-000m-2019-july-aug-sept-tgmd-teleconference-agendas.docx>
3. <https://mentor.ieee.org/802.11/dcn/19/11-19-0839-03-000m-comment-resolution-cids-2229-2447-2448.docx>
4. <https://mentor.ieee.org/802.11/dcn/19/11-19-0839-03-000m-comment-resolution-cids-2229-2447-2448.docx>
5. <https://mentor.ieee.org/802.11/dcn/19/11-19-0856-08-000m-resolutions-for-some-comments-on-11md-d2-0-lb236.docx>
6. <https://mentor.ieee.org/802.11/dcn/19/11-19-0856-09-000m-resolutions-for-some-comments-on-11md-d2-0-lb236.docx>