IEEE P802.11
Wireless LANs

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| Minutes for REVmd Telecon in Sept and Oct |
| Date: 2018-09-28 |
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Abstract

This document contains the minutes for the September, October and November 2018 TGmd teleconferences (September 28, October 5, 12, 19, November 2).

R0: Sept 28, 2018

As approved at the recent 802.11 WG September 2018 session, TGmd will hold teleconferences:

Fridays September 28, October 5, 12, 19, and Nov 2, 2018 at 10am Eastern for 2 hours.

We’ll use the [join.me](http://join.me) bridge:  <https://join.me/ieee802.11>,

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

•       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)

–       <https://mentor.ieee.org/802-ec/dcn/17/ec-17-0120-27-0PNP-ieee-802-lmsc-chairs-guidelines.pdf>

•       Participation in IEEE 802 Meetings

–       <https://mentor.ieee.org/802-ec/dcn/16/ec-16-0180-05-00EC-ieee-802-participation-slide.pptx>

•       IEEE 802.11 WG OM: (Approved 10 Nov 2017)

–       <https://mentor.ieee.org/802.11/dcn/14/11-14-0629-22-0000-802-11-operations-manual.docx>

1. **802.11md - REVmd – Telecon, Friday 28 September 2018, 10:00- 12:00 ET**
	1. **Called to order** 8:03am ET by the TG Chair, Dorothy STANLEY (HPE)
	2. **Attendance**:
		1. Dorothy STANLEY (HPE)
		2. Emily QI (Intel)
		3. Jon ROSDAHL (Qualcomm)
		4. Graham SMITH (SR Technologies)
		5. Mark HAMILTON (Ruckus/ARRIS)
		6. Menzo WENTINK (Qualcomm)
		7. Sean COFFEY (RealTek)
		8. Jerome Henry (Cisco)
		9. Mark RISON (Samsung)
		10. Michael MONTEMURRO (BlackBerry)
		11. Edward AU (Huawei)
	3. **Review Patent Policy**
		1. No issues noted
	4. **Review Participation slide**
	5. **Review agenda** – 11-18/1694r0:
		1. <https://mentor.ieee.org/802.11/dcn/18/11-18-1694-00-000m-2018-sept-oct-nov-teleconference-agendas.docx>
2. Call to order, attendance and patent policy
	1. **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

* 1. **Participation slide:** [https://mentor.ieee.org/802-ec/dcn/16/ec-16-0180-05-00EC-ieee-802-participation-slide.pp](https://mentor.ieee.org/802-ec/dcn/16/ec-16-0180-05-00EC-ieee-802-participation-slide.pptx)2.
1. Editor report – Emily QI
2. Comment resolution and presentations
	1. **2018-9-28**
		1. PHY CIDs 1002, 1003 (Menzo), 1329 (Mark Hamilton); Also CID 1272 (Chris Hansen), 1284 (revisit from Waikoloa), 1611, 1612, 1613 (Yusuke Asai)
		2. EDITOR2 CID 1095
		3. EDITOR CID 1379
		4. CIDs 1415/1526 (ack policy) and 1379 ("packet") in 11-18-1306 (Mark RISON)
		5. Additional Available CIDs
	2. **2018-10-05**
		1. GEN CIDs 1413, 1417, 1432, 1434, 1435, 1438, 1439, 1453, 1501, 1507, 1524, 1525, 1567
		2. Available CIDs
	3. **2018-10-12**
		1. MAC CIDs 1081, 1090, 1122, 1123, 1124, 1126, 1128, 1192, 1286
	4. **2018-10-19**
		1. MAC CIDs 1315, 1378, 1396, 1431, 1442, 1449, 1450, 1454, 1498, 1500
		2. Available CIDs
	5. **2018-11-02**
		1. MAC CIDs 1503, 1509, 1511, 1519, 1520, 1532, 1553, 1556, 1560, 1569, 1573, 1593
		2. Available CIDs
3. AOB
4. Adjourn
	* 1. Emily asked for addition to Oct 12th Telecon
		2. Request for more time for CID 1002 and 1003; reschedule for next week (Oct 5th)
		3. CID 1505 and CID 1195 are ready for today instead.
		4. No objections to the modified agenda
	1. **Review Doc 11-18/1426r2** – Menzo WENTINK (Qualcomm)
		1. <https://mentor.ieee.org/802.11/dcn/18/11-18-1426-02-000m-cid-1505.docx>
		2. CID 1505 (MAC)
			1. Review comment
			2. Reivew updates to the proposal from what was presented in the interim Session.
			3. Review events – RTS failure, CTS failure, RTS/CTS succeeds, but packet fails.
			4. Review contention window change
			5. Discussion of deletion of “case f)” – you have a choice of backoff or PIFs recovery. Not sure if the behaviour would change with the deletion.
			6. Why is CW cycled from CWmax and then back to CWmin?
				1. Discussion on the reason for cycling the counters limits
				2. Previous discussion on this behaviour was to preclude STAs getting into the CWmax for all, it would provide a pseudo random reset of the value for CW.
			7. Discussion on if the changes would affect legacy devices. The assertion was that these changes will not impact the legacy devices. These changes are streamlining the text.
			8. If we don’t delete Case f, then the new note should not be added.
			9. Discussion of the statement “for [AC] VO the CW max is reached after just 2 retries. I think it must be tied to saying that the packet must be dropped. Otherwise the packet suddenly has priority.”
			10. Remember to deprecate the MIB Variable.
			11. Editor will need more detail on how to deprecate the MIB Variable.
			12. CID 1505 (MAC): Reviewed 11-18/1426r2. Generally, agree, after rejecting the change to delete "f)" from the list at P1775.44. Need to also mark associated MIB attributes as no longer used.
			13. Will review again next week and hope for being ready for sending for motion next week.
	2. **Review 11-18/1260r3** Menzo WENTINK (Qualcomm)
		1. <https://mentor.ieee.org/802.11/dcn/18/11-18-1260-03-000m-resolution-to-cid-1195.docx>
		2. CID 1195 (MAC)
			1. Review changes from what was presented in the Sept Interim.
			2. The proposed NOTE should be normative text.
			3. More discussion may be needed for the admission control mechanisms.
			4. This change is allowing higher priority traffic in the lower traffic.
			5. Question on if the higher priority queues should not be used even if the high priority queue wants to use a lower queue.
			6. We do not want to cheat from the lower queues gaining the medium and then transmitting the higher priority queues
			7. The way it is written seems odd.
			8. It was noted: that in Annex K it is recommended that Admission Control should only be used for AC\_VO and AC\_VI
			9. Discussion on where to place the NOTE, but in normative language.
			10. Changes will be made as discussed and reviewed next week preparatory to marking ready for motion.
			11. Reviewed 11-18/1260r3. Agree with direction. Updates to wording. Need to confirm all admission control limits are covered and this doesn't allow a "cheat".
		3. Please notify the reflector when the document has been uploaded.
	3. **Review doc 11-18/1566r1** Edward AU (Huawei)
		1. <https://mentor.ieee.org/802.11/dcn/18/11-18-1566-01-000m-proposed-resolution-for-cid-1095.docx>
		2. CID 1095 (EDITOR2)
			1. Review Comment
			2. Discussion on the proposed rejection reason.
			3. Suggested replacement text: "Implementation of the Multiple BSSID capability is mandatory for a FILS STA(11ai). A STA that implements the Multiple BSSID capability has dot11MultiBSSIDImplemented equal to true. A STA in which dot11MultiBSSIDActivated is true is defined as a STA that supports the Multiple BSSID capability. The STA shall set to 1 the Multiple BSSID field of the Extended Capabilities elements that it transmits.”
				1. This was discussed in the September Interim, and at that time some thought deleting was not ok. Now maybe it is ok to delete.
				2. We may need to look at the FILS case and we need to ensure to take that into account.
				3. More discussion may be needed to understand the logic and the dependency. We do not want to tie the concept of WNM with Multiple BSSID capability.
			4. If we unhook WMM from Multiple BSSID, then does that affect other dependencies? Need more thought on that.
		3. Suggest that more work be done to polish the proposed text
		4. A suggested update “"A STA that implements the Multiple BSSID capability has dot11MultiBSSIDImplemented equal to true shall set to 1 the Multiple BSSID field of the Extended Capabilities elements that it transmits. Implementation of the Multiple BSSID capability is mandatory for a FILS STA(11ai).
	4. **Review PHY CIDs 1611, 1612, 1613** – Michael MONTEMURRO (BlackBerry)
		1. CID 1611 (PHY)
			1. Review comment
			2. Review Figure 21-7 – fourth line has no arrow on either end.
			3. Proposed Resolution: REVISED (PHY: 2018-09-28 14:54:52Z)
			4. Update the cited figure to remove the line without arrowhead (fourth line) that connects the upper-left block with the spatial mapper.
			5. No objection – Mark ready for Motion
		2. CID 1612 (PHY)
			1. Review Comment
			2. Review Figure 21-9
			3. Extends the two lines back to the “Spatial Mapping”
			4. Proposed Resolution: : (REVISED (PHY: 2018-09-28 14:56:39Z)
			5. Update the figure such that the arrows ending in the first and third “IDFT” block start at the block labelled “Spatial Mapping”.
			6. Note: the page number for the comment looks wrong. Figure 21-9 is on page 2914.
			7. No objection – Mark Ready for Motion
		3. CID 1613 (PHY)
			1. Review comment
			2. Review Figure 21-9
			3. Proposed Resolution: REVISED (PHY: 2018-09-28 14:58:01Z)
			4. Revise the figure so that the upper line coming out of the “Segment Parser” block is an arrow that continues to the block labelled “BCC Interleaver”.

Note: the page number for the comment looks wrong. Figure 21-9 is on page 2914

* + - 1. No objection – Mark ready for Motion
	1. **Review doc 11-18/1306r4** Mark RISON (Samsung)
		1. <https://mentor.ieee.org/802.11/dcn/18/11-18-1306-04-000m-resolutions-for-some-comments-on-11md-d1-0-lb232.docx>
		2. CID 1379 (MAC)
			1. Review comment
			2. Discussion on the use of “packet” and if it is used consistently with the style guide.
			3. Discussion the use of “packet” vs “PPDU”
			4. The implantation is that the research was done through clause 14, but global change is still thought to be ok.
			5. Discussion on the size of the change and if there is support for it.
			6. Proposed changes:

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| --- | --- | --- |
| Change (case ignored) | To (case preserved except “PPDU” always all-uppercase) | In |
| BRP packet | BRP PPDU | whole document |
| BRP-TX packet | BRP-TX PPDU | whole document |
| BRP-RX packet | BRP-RX PPDU | whole document |
| null data packet | null data PPDU | whole document |
| non-HT portion of packet | non-HT portion of PPDU | whole document |
| HT portion of packet | HT portion of PPDU | whole document |
| sounding packet | sounding PPDU | whole document |
| packet type | PPDU type | whole document except Clauses 12 and 13 |
| PACKET-TYPE | PPDU-TYPE | whole document except Clauses 12 and 13 |
| packet | PPDU | 9.4.2.136 (2x), T9-313 (2x), T9-316, 10.32, 10.35.3 (4x), 10.35.5 (2x), 10.43.3.1 (6x), 10.43.3.2 (4x), 10.43.6.3.2 (5x), 10.43.6.3.3 (2x), 10.43.6.4.1 (2x), 10.43.6.4.4, 10.43.7 (12x not covered elsewhere), 10.43.9 (11x not covered elsewhere), 10.46.3.2.3, 10.54.4 (11x), 12.5.4.4 |
| packet | frame | 13.6.3, 14.12.2 |
| PHY packet | PPDU | 9.4.2.142.1, 9.4.2.232.1 |

* + - 1. Reviewed 10.46.3.2.2 as an open question:
				1. Need more review.
				2. May need an 11ah expert review.
			2. Reviewed 12.5.4.4 as an open question:
				1. This should be per frame.
			3. Question on the change notation.
				1. The “(nx)” the “n” is the number of changes in the cited clause. If there is not number of changes, then the number should match the number of changes.
		1. Proposed Resolution: REVISED; Make the changes shown under “Proposed changes” for CID 1379 in 11-18/1306r5 < <https://mentor.ieee.org/802.11/dcn/18/11-18-1306-05-000m-resolutions-for-some-comments-on-11md-d1-0-lb232.docx> >, which address the issue throughout the MAC clauses.
			1. No objection but will need review next week.
	1. **Next Call on Oct 5th**
		1. Possible call on Oct 9th on the afternoon
			1. Look at a call starting 9pm UK
			2. Not able to find a time for an extra call
		2. Consensus to Extend the call on the 5th for 60 minutes instead.
		3. Quick review of items for next week:

 **2018-10-05 – Extend to 3 hours**

1. From 2018-09-28: CIDs 1505, 1195 (review 11-18-1426, 11-18-1260 changes identified last week),
2. From 2018-09-28: PHY CIDs 1002, 1003 (Menzo)
3. From 2018-09-28: EDITOR2 CID 1095 (Review changes per past week discussion)
4. From 2018-09-28: EDITOR CID 1379 – Assigned to Mark RISON (Review changes from discussion last week)
5. From 2018-09-28: Mark Rison – 11-18—1306 CIDs 1415/1526 (ack policy)
6. From 2018-09-28: 1329 (Mark Hamilton); Also, CID 1272 (Chris Hansen), 1284 (revisit from Waikoloa)
7. GEN CIDs 1413, 1417, 1432, 1434, 1435, 1438, 1439, 1453, 1501, 1507, 1524, 1525, 1567
8. CIDs 1456/1524 (TXVECTOR applicability) and 1375 (DMS cancellation) in 11-18-1306 (Mark RISON)
	* 1. Jon is not able to attend on the 5th, so will have Michael MONTEMURRO take minutes.
	1. **Adjourned** at 12:06pm ET

**References:**

**28 September 2018:**

1. <https://mentor.ieee.org/802.11/dcn/18/11-18-1694-00-000m-2018-sept-oct-nov-teleconference-agendas.docx>
2. [https://mentor.ieee.org/802-ec/dcn/16/ec-16-0180-05-00EC-ieee-802-participation-slide.pp](https://mentor.ieee.org/802-ec/dcn/16/ec-16-0180-05-00EC-ieee-802-participation-slide.pptx)
3. <https://mentor.ieee.org/802.11/dcn/18/11-18-1426-02-000m-cid-1505.docx>
4. <https://mentor.ieee.org/802.11/dcn/18/11-18-1260-03-000m-resolution-to-cid-1195.docx>
5. <https://mentor.ieee.org/802.11/dcn/18/11-18-1566-01-000m-proposed-resolution-for-cid-1095.docx>
6. <https://mentor.ieee.org/802.11/dcn/18/11-18-1306-04-000m-resolutions-for-some-comments-on-11md-d1-0-lb232.docx>