IEEE P802.11
Wireless LANs

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| Telecon Minutes for REVmd – Mar 6 2020 |
| Date: 2020-03-06 |
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Abstract

This document contains the minutes for the 802.11 md (REVmd) telecon on March 6, 2020.

1. TGmd (REVmd) CRC – Telecon, Friday 6 March 2020, 10:00-12:00 ET
	1. Welcome – Called to order at 10:03 am ET by the Acting Chair Mike MONTMURRO.
	2. Attendance:
		1. Michael MONTEMURRO (Blackberry)
		2. Mark HAMILTON (Ruckus/CommScope)
		3. Peter ECCLESINE (Cisco Systems)
		4. Edward AU (Huawei)
		5. Emily QI (Intel)
		6. Osama ABOUL-MAGD (Huawei)
		7. Jouni MALINEN (Qualcomm)
		8. Nehru BHANDARU (Broadcom)
		9. Sean COFFEY (Realtek)
		10. Mark RISON (Samsung)
		11. Joe LEVY (Interdigital)
	3. Review Patent Slides
		1. No issues noted. No one spoke up.
	4. Review Participation Slide
		1. <https://mentor.ieee.org/802-ec/dcn/16/ec-16-0180-05-00EC-ieee-802-participation-slide.pptx>
	5. Review Agenda 11-20/0234r13
		1. <https://mentor.ieee.org/802.11/dcn/20/11-20-0234-13-000m-2020-jan-mar-teleconference-and-adhoc-agendas.docx>
		2. Some documents have updated revisions.
		3. After discussion, an R14 was prepared, agreed to and posted.
	6. Editor Report Emily QI
		1. Editors have completed editing of all comments approved in CRC meeting.
		2. Updated draft will be ready in the next day or two.
	7. Review doc 11-20/0335 Peter ECCLESINE (Cisco Systems)

* + 1. <https://mentor.ieee.org/802.11/dcn/20/11-20-0335-00-000m-resolution-for-sa1-comment-4765.docx>
		2. CID 4765 (GEN):
			1. Proposed resolution: REVISED. In Table E-4, in each of the six circled entries (as shown in <https://mentor.ieee.org/802.11/dcn/20/11-20-0335-00-000m-resolution-for-sa1-comment-4765.docx>), replace “E-5-” with “E-6-”.
			2. Ready for motion.
	1. Review doc 11-19/2163 Edward AU (Huawei)
		1. <https://mentor.ieee.org/802.11/dcn/19/11-19-2163-12-000m-resolutions-for-some-initial-sa-ballot-comments-on-11md-d3-0.docx>
		2. CID 4766 (EDITOR2):
			1. There has been email exchange since the February F2F discussion.
			2. Discussion and comments on this topic were made at the last ETSI meeting.
			3. Based on the email discussion, updated the resolution.
			4. Change the discussion text to state that “if two symbols are transmitted after the SIGNAL symbol”, they may be required to honor the SIGNAL symbol.
			5. Proposed resolution: Revised.
			6. Incorporate the revised figure shown under the proposed resolution for CID 4766 of 11-19/2163r13 (<https://mentor.ieee.org/802.11/dcn/19/11-19-2163-13-000m-resolutions-for-some-initial-sa-ballot-comments-on-11md-d3-0.docx>).
			7. Note to the commenter: Figure 17-4 does not indicate that all OFDM transmissions must be at least 32 us long.
			8. Mark ready for motion.
	2. Review doc 11-20/0270r2 Edward AU (Huawei)
		1. <https://mentor.ieee.org/802.11/dcn/20/11-20-0270-02-000m-resolutions-for-some-initial-sa-ballot-comments-on-11md-d3-0-part-ii.docx>
		2. CID 4303 (EDITOR2):
			1. Accepted. Ready for motion.
			2. Note to the editors: The locations in Draft 3.0 are 1766.41, 2295.50, and 2295.52.
		3. CID 4304 (EDITOR2):
			1. Generally, agree with the comment, but some wording changes are suggested.
			2. Revised. Incorporate changes from 20/0270r2 (https://mentor.ieee.org/802.11/dcn/20/11-20-0270-02-000m-resolutions-for-some-initial-sa-ballot-comments-on-11md-d3-0-part-ii.docx) under CID 4304.
			3. Ready for motion.
		4. CID 4246 (EDITOR2):
			1. Clarified that “control response” is not a frame name, so agree with the lower case.
			2. There is another instance to correct, also.
			3. Revised:
			+ At 1925.20, replace “+HTC Control Response frame” with “+HTC control response frame”.
			+ At 1925.33, replace “+HTC Control response frame” with “+HTC control response frame”
			1. Ready for motion.
		5. CID 4174 (EDITOR):
			1. Agree with the comment, on “mW”.
			2. There are other instances of shortened units that need discussion.
			3. The instructions in C.2 actually state “Do not use symbols” such as mu, and to spell those out, but it is not a general directive to never use shortened units.
			4. Were we going to look at other MIB examples, to see if they generally spell out units?
			5. We agree, we clearly need to use only 7-bit ASCII characters.
			6. IEEE Std 260.1 gives a list of shortened units, for reference.
			7. Peter ECCLESINE volunteers to help Edward look at 802.3, for examples.
			8. IETF RFC on SNMP seems to give no guidance.
			9. Edward will bring this back, after some research.
	3. Review doc 11-20/0246r3 Nehru BHANDARU (Broadcom)
		1. <https://mentor.ieee.org/802.11/dcn/20/11-20-0246-03-000m-d30crs.docx>
		2. CID 4204 (PHY):
			1. Adding another column to this table may create too much complexity and set a precedent we don’t want to continue.
			2. The table of selectors states things like “or a cached PMKSA”, but it is very hard to find this reference, to understand how a cached PMKSA is to be interpreted within the table of selectors.
			3. Maybe we can just delete the “or PMKSA caching” from the table, since that applies to all the modes (except PSK and maybe FILS). Could add a single sentence after the table, to talk about the use with caching.
			4. There is already some text after the table talking about the caching cases, and that text is too wordy. This almost all go away (keep that suite #1 is the default, from the first paragraph).
			5. Nehru will rework and bring back.
		3. CID 4230 (PHY):
			1. There is also redundant text about how the hash is used to generate a key, that doesn’t need to be here. Suggest removing that text.
			2. Discussed the details of which parts of text could be removed.
			3. Revised. Incorporate the changes shown in <https://mentor.ieee.org/802.11/dcn/20/11-20-0246-04-000m-d30crs.docx> for CID 4230. These make changes in the direction suggested by the comment, restructure for consistency and remove some redundant text.
			4. Ready for motion.
		4. CID 4308 (PHY):
			1. Propose Accept.
			2. Accepted. Ready for motion.
		5. CID 4326 (PHY):
			1. Reviewed the Draft.
			2. Agree that stating this is related to MA-UNITDATA is incorrect. It’s not clear why this note is here in the first place. This NOTE was added in 802.11-2016.
			3. This might be related to bullet (a) above, noting that Null frames do not need to be discarded.
			4. Revised. Incorporate the changes shown in <https://mentor.ieee.org/802.11/dcn/20/11-20-0246-04-000m-d30crs.docx> for CID 4326, which removes the MA-UNITDATA discussion from the NOTE.
			5. Ready for motion.
		6. Revisit CID 4308 (PHY):
			1. We should keep IGTKSA matching the GTKSA text.
			2. Discussion about the direction of IGTKSAs. Noted that there are cases where the direction is known (on an AP, for example), but not all cases. So, a general implementation will need to keep the direction for each IGTKSA.
			3. Rejected. Direction vector is part of GTKSA and IGTKSA and is configured on the AP/STA. But direction is fixed. Needs to be consistent for IGTK and GTK (2623.54). This specification is required for IBSS and Mesh where STAs have both transmit and receive IGTKSAs/GTKSAs.
			4. Ready for motion.
		7. CID 4388 (PHY):
			1. We could add text to clarify that GCMP can only be used in S1G when using PV0 frames.
			2. Revised. Add the following at 12.5.5.1 (GCMP Overview) P2614.62: “An S1G .STA shall use PV0 frames when using GCMP encapsulation.”
			3. Ready for motion.
	4. Review doc 11-20/0141r8 Emily QI (Intel)
		1. <https://mentor.ieee.org/802.11/dcn/20/11-20-0141-08-000m-sa1-proposed-resolutions-for-editor-adhoc.doc>
		2. CID 4469 (EDITOR):
			1. Agree with the direction of the comment. Need to review the individual cases.
			2. Where is “802.x” defined, if we remove “LAN” from that acronym?
			3. Can’t really remove the “LAN” part without losing meaning – this doesn’t reference 802.1, for example.
			4. Suggest replacing with “802.x-LAN”.
			5. Is there actually a rule that there can’t be spaces in these acronyms? Can’t find one.
			6. Considered “SA query”. “SA” already means Source Address. Don’t want to remove all “SA Query” from the Draft. This is more complicated.
			7. “HWMP SN”: HWMP is already defined. Seems okay to add a definition of “SN” as Sequence Number, separately.
			8. “PP A-MSDU”: similar to “SA Query”.
			9. “PTP TSPEC”: Add a definition for “PTP”, and remove “PTP TSPEC”.
			10. Leave “802.1x LAN”, “SA Query”, “PP A-MSDU”, as is. Change “HWMP SN” and “PTP TSPEC”.
			11. Revised. Delete “HWMP SN” in 3.4 Add definition for “SN/ sequence number” in 3.4 Delete “PTP TSPEC” Add definition in 3.4: “PTP/peer-to-peer”. Note to the commenter: remaining definitions are needed to be unambiguous.
			12. Ready for motion.
	5. Availability on March 18 and 20 for teleconferences, to replace the cancelled F2F session:
		1. No objection to March 20, 10:00 – noon, ET.
		2. March 18, 16:00-18:00 ET. No objection.
	6. Adjourn at 12:00 noon

**References:**

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/20/11-20-0234-13-000m-2020-jan-mar-teleconference-and-adhoc-agendas.docx>
3. <https://mentor.ieee.org/802.11/dcn/20/11-20-0335-00-000m-resolution-for-sa1-comment-4765.docx>
4. <https://mentor.ieee.org/802.11/dcn/19/11-19-2163-13-000m-resolutions-for-some-initial-sa-ballot-comments-on-11md-d3-0.docx>
5. <https://mentor.ieee.org/802.11/dcn/20/11-20-0270-02-000m-resolutions-for-some-initial-sa-ballot-comments-on-11md-d3-0-part-ii.docx>
6. <https://mentor.ieee.org/802.11/dcn/20/11-20-0246-04-000m-d30crs.docx>
7. <https://mentor.ieee.org/802.11/dcn/20/11-20-0141-08-000m-sa1-proposed-resolutions-for-editor-adhoc.doc>