IEEE P802.11  
Wireless LANs

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| 802.11  IEEE P802.11aj D3.0 Mandatory Draft Review (MDR) Report | | | | |
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**Abstract**

This document contains the report of the 802.11aj Mandatory Draft Review.

# 3999Introduction

## Purpose of this document

This document is the report from the group of volunteers that participated in the P802.11aj/D3.0 mandatory draft review.

This document contains recommendations for changes to P802.11aj to bring it into improved compliance to IEEE-SA and WG11 style.

Those recommended changes need to be reviewed by TGaj and approved, or ownership of the issues taken by TGaj.

## Process / references

The MDR process is described in:

* 11-11/615r5 – Mandatory Draft Review process
  + https://mentor.ieee.org/802.11/dcn/11/11-11-0615-05-0000-wg802-11-mec-process.doc

And references:

* 11-09/1034r11 – 802.11 Editorial Style Guide
  + https://mentor.ieee.org/802.11/dcn/09/11-09-1034-11-0000-802-11-editorial-style-guide.doc

## Acknowledgements

The 802.11 technical editors (Robert Stacey and Peter Ecclesine) gratefully acknowledge the work and contribution of:

* Jiamin Chen
* Edward Au
* Yongho Seok

Review assignments:

1. Style guide clause 2.1 to 2.6 – Jiamin Chen
2. Style guide clause 2.7 to 2.18 – Edward Au
3. Style guide clause 3 – Robert Stacey
4. MIB style and compiles with no extra warnings – Yongho Seok
5. ANA check – Robert Stacey

## Actions arising

# Findings

***Findings from Jiamin Chen:***

**2.1 Frames**

**2.1.1 Frame Format Figures**

P24L8 the bit labels above the cell in Figure 9-14a (45MG Control Field) are wrong for the incorrect numbing with MFB and MSI/STBC subfields. Create the bit labels by inserting “B<number><tab>B<number>” and set the justification to left as noted in the .11 style guide. Check all frame format figures throughout the draft. P26L6,

P30L11 remove the underline below “Reserved”.

P41L32 missing bit labels for the subfields.

P44L6 the figure is newly defined in 11aj, so no needs to apply underline for the bit lables of “Truncation Type” and “Protected period” subfields.

P46L31 missing bit labels for the subfields.

P46L58 remove the underline below “Reserved” in the last subfield.

P47L53 missing bit labels for the subfields.

P48L5 missing bit labels for the subfields.

P49L3L57 missing bit labels for the subfields.

P52L35L49 missing bit labels for the subfields.

P58L6, P58-59 (Figure 9-587w) missing bit labels for the subfields.

P62L35, P63L8, P64L3, P64 (Figure 9-587aa) missing bit labels for all subfields.

P67L59 missing bit labels for the subfields.

P66L58 missing “Bits:”

P51L24 missing “Octets:”

**2.1.1.1 Optional Fields**

No findings

**2.1.2 Naming Frames**

P15L50 change to “...TSPEC element in an ADDTS Request frame]”

P89L45 change to “A STA transmitting an Ack frame or a BlockAck frame in response to a frame sent using the 45MG SC modulation class or 45MG OFDM modulation class shall use an MCS from the mandatory MCS set of the 45MG SC modulation class as long as (a) the selected MCS has a ~~D~~data ~~R~~rate that does not exceed the ~~D~~data ~~R~~rate of the frame that elicited the response,…”

P89L31 missing space “class)and…”

P90L49 change “A data or management frame for SC….” to “A Data or Management frame for SC”

P90L54L57 change “…management frames…” to “…Management frames…”.

P104L42 change to “…an explicit ~~B~~beamforming feedback frame transmitted…”

P137L14 reference to a full frame name. Change to “The Link Measurement Request and Link Measurement Report frames”

**2.2 Case of true/false**

P192L33 change “TRUE” to “true”

P192L38 change “FALSE” to “false”

**2.3 “Is set to”**

P44L33 change to “For an SP allocation, the Truncatable subfield is set to 1 to indicate~~s~~ that the source CDMG STA”

P44L56 replace “is set to 0” with “is equal to 0”

P44L57 replace “is set to 1” with “is equal to 1”

P44L63 replace “is set to 0” with “is equal to 0”

P49L30 replace “are set to 0” with “are equal to 0”

P56L37 change to “If the Backup AWV Setting subfield is set to 1, the Peer Tx\_Sector ID field is set to ~~indicates~~ the Sector ID of the alternative Tx AWV of the peer STA.”

P56L37 change to “If the Backup AWV Setting subfield is set to 1, the Peer Tx\_Antenna ID field is set to ~~indicates~~ the Antenna ID of the alternative Tx AWV of the peer STA.”

P57L62 change to “~~If t~~The Clustering SPSH Enabled field is set to 0~~, it~~ to indicate~~s~~ that a SPSH measurement phase starts. ~~If t~~The Clustering SPSH Enabled field is set to 1~~, it~~ to indicate~~s~~ that the SPSH measurement phase for all member APs or member PCPs terminates, …”

P67L10 replace “is set to 1” with “is equal to 1”

P67L11 replace “is set to 0” with “is equal to 0”

P100L35 replace “is set to 1” with “is equal to 0”

P117L41 replace “are set to 0” with “are equal to 0”. Replace “is set to 1” with “is equal to 1”

P117L42 replace “is set to 1” with “is equal to 1”

P131L18-19 replace “set to 1” with “equal to 1”

P131L19 replace “set to 0” with “equal to 0”

P135L4 replace “is 1” with “is equal to 1”

P140L56 replace “…the DMG Beacon frame is to 0” with “…the DMG Beacon frame is set to 0”

P143L7 replace the two instances “is set to 1” with “is equal to 1”

P147L8 replace “is set to 1” with “is equal 1” and “is set to 0” with “is equal to 0”

P184L1 replace “is set to 1” with “is equal to 1”

P192L29 replace “is set to 1” with “is equal to 1”

P207L21 replace “is set to 0” with “is equal to 0”

**2.4 Information Elements/Subelements**

**2.4.1 Naming**

P153L48 replace “SSW Report information element” with “SSW Report element”

P285L17 replace “SSW Report information element” with “SSW Report element”

P47L23 replace “CDMG Capabilities” with “CDMG Capabilities element”

P137L33 replace “45MG Link Margin Sub-element” with “45MG Link Margin Subelement”

**2.4.2 Definition Conventions**

P23L51 replace “the Order subfield is 1 bit in length. It is used for two purposes:” with “the Order subfield is used for two purposes:”

P56L20 replace “The 45MG MIMO Control is 5 octets in length and is defined in Figure 9-120a.” with “The 45MG MIMO Control field is defined in Figure 9-120a”

**2.5 Naming of MIB Variables**

The following MIB variables are not present in Annex C either in 11aj D3.0 or REVmc D8.0:

For CDMG STAs :

dot11DynamicChannelTransferActivated

For 45MG STAs:

dot1145MGTXOPPowerSaveOptionImplemented

dot1145MGOBSSScanCount

dot1145MGBeamformerOptionImplemnted

dot11SCPHYActivated

dot11MaxNTxChainsImplemented

dot11MaxNTxChainsActivated

dot11BeamformeeOptionImplemented

dot11BeamformerOptionImplemented

dot11NumberSoundingDimensions

dot11BeamformeeNTxSupport, if it is a control variable, “Support” 🡪 “Activated”

**2.6 Removal of functions and features**

No findings.

***Findings from Edward Au:***

**2.7 Capitalization (150 findings)**

1. ii.2: replace "Chinese Millimeter wave" with "Chinese millimeter wave" (two appearances).
2. ii.6: replace "Chinese Millimeter Wave Frequency Band" with "Chinese millimeter wave frequency band".
3. 6.18: replace "Zero Correlation Zone sequences" with "zero correlation zone (ZCZ) sequences".
4. 18.10: replace "DCT Measurement Request" with "DCT Measurement Request frame".
5. 18.56: replace "DCT Measurement" with "DCT measurement".
6. 19.33: replace "DCT Measurement" with "DCT measurement".
7. 20.10: replace "DCT Measurement" with "DCT measurement".
8. 20.50: replace "DCT Request" with "DCT request".
9. 21.28: replace "DCT Request" with "DCT request".
10. 22.10: replace "DCT Response" with "DCT response".
11. 22.17: replace "DCT Request" with "DCT response".
12. 22.51: replace "DCT Response" with "DCT response".
13. 34.55: In the cell "Field", replace "receive chain" with "Receive Chain".
14. 34.60: In the cell "Field", replace "receive chain" with "Receive Chain".
15. 34.63: In the cell "Field", replace "carrier" with "Carrier".
16. 34.63: In the cell "Meaning", replace "CSI Matrix" with "CSI matrix".
17. 35.7: In the cell "Field", replace "carrier" with "Carrier".
18. 35.7: In the cell "Meaning", replace "CSI Matrix" with "CSI matrix".
19. 35.9: In the cell "Field", replace "carrier" with "Carrier".
20. 35.9: In the cell "Meaning", replace "CSI Matrix" with "CSI matrix".
21. 35.12: In the cell "Field", replace "carrier" with "Carrier".
22. 35.12: In the cell "Meaning", replace "CSI Matrix" with "CSI matrix".
23. 36.18: In the cell "Field", replace "space-time stream" with "Space-Time Stream".
24. 36.23: In the cell "Field", replace "space-time stream" with "Space-Time Stream".
25. 36.27: In the cell "Field", replace "subcarrier" with "Subcarrier".
26. 36.31: In the cell "Field", replace "subcarrier" with "Subcarrier".
27. 36.34: In the cell "Field", replace "subcarrier" with "Subcarrier".
28. 36.38: In the cell "Field", replace "subcarrier" with "Subcarrier".
29. 38.62: In the cell "Field", replace "subcarrier" with "Subcarrier".
30. 38.65: In the cell "Field", replace "subcarrier" with "Subcarrier".
31. 39.7: In the cell "Field", replace "subcarrier" with "Subcarrier".
32. 39.12: In the cell "Field", replace "subcarrier" with "Subcarrier".
33. 39.22: Replace "in the 45MG Compressed Beamforming Report Information" with "in the 45MG compressed beamforming report information".
34. 39.23: Replace "in the 45MG Compressed Beamforming Report Information" with "in the 45MG compressed beamforming report information".
35. 57.39: Replace "the Measuring Source AID STA to the Measuring Destination AID STA" with "the measuring source AID STA to the measuring destination AID STA".
36. 60.14: In the cell "Meaning", replace "TXOP Power Save Mode" with "TXOP power save mode".
37. 60.15: In the cell "Definition", replace "TXOP Power Save Mode" with "TXOP power save mode".
38. 60.17: In the cell "Meaning", replace "TXOP Power Save Mode" with "TXOP power save mode".
39. 60.18: In the cell "Meaning", replace "TXOP Power Save Mode" with "TXOP power save mode".
40. 60.19: In the cell "Definition", replace "TXOP Power Save Mode" with "TXOP power save mode".
41. 60.19: In the cell "Meaning", replace "TXOP Power Save Mode" with "TXOP power save mode".
42. 61.14: In the cell "Meaning", replace "Interference Mitigation" with "interference mitigation".
43. 61.15: In the cell "Definition", replace "Interference Mitigation" with "interference mitigation".
44. 61.49: In the cell "Meaning", replace "Heartbeat Elapsed Time" with "heartbeat elapsed time".
45. 61.50: In the cell "Definition", replace "Heartbeat Elapsed Time" with "heartbeat elapsed time".
46. 61.60: In the cell "Meaning", replace "Heartbeat Elapsed Time" with "heartbeat elapsed time".
47. 62.19: In the cell "Definition", replace "Reverse Direction Protocol" with "reverse direction protocol".
48. 62.23: Replace "The value for the Maximum MDPU Length" with "The value for the Maximum MDPU Length subfield".
49. 62.24: Replace "value for the Maximum MDPU Length" with "value for the Maximum MDPU Length subfield".
50. 87.19: Replace "Used for Contention Services" with "Used for contention services".
51. 87.19: Replace "Used for Dynamic Allocation Services" with "Used for dynamic allocation services".
52. 87.22: Replace "Used for Non-data Services" with "Used for non-Data services".
53. 87.22: Replace "Used for Scheduled Service" with "Used for scheduled service".
54. 87.24: Replace "Used for Beamforming" with "Used for beamforming".
55. 90.42: Replace "Supported MCS" with "supported MCS".
56. 93.51: Replace "the Maximum A-MSDU Length" with "the maximum A-MSDU length".
57. 93.52: Replace "the Maximum A-MSDU Length" with "the maximum A-MSDU length".
58. 93.53: Replace "the Maximum A-MSDU Length" with "the maximum A-MSDU length".
59. 100.11: Replace "the Reverse Direction Protocol" with "the reverse direction protocol".
60. 103.63: Replace "explicit Beamforming feedback" with "explicit beamforming feedback".
61. 103.64: Replace "Beamformer" with "beamformer".
62. 103.65: Replace "Beamformer's" with "beamformer's".
63. 104.2: Replace "transmit Explicit CSI feedback" with "transmit explicit CSI feedback".
64. 104.8: Replace "Explicit Noncompressed Beamforming feedback" with "explicit noncompressed beamforming feedback".
65. 104.48: Replace "transmit Explicit Compressed Beamforming feedback" with "transmit explicit compressed beamforming feedback".
66. 104.56: Replace "Explicit CSI feedback" with "explicit CSI feedback".
67. 104.64: Replace "Explicit Noncompressed Beamforming feedback" with "explicit noncompressed beamforming feedback".
68. 105.41: Replace "Explicit Compressed Beamforming feedback" with "explicit compressed beamforming feedback".
69. 105.50: Replace "Explicit Beamforming CSI feedback" with "explicit beamforming CSI feedback".
70. 105.57: Replace "Explicit Noncompressed Beamforming feedback" with "explicit noncompressed beamforming feedback".
71. 105.65: Replace "Explicit Compressed Beamforming feedback" with "explicit compressed beamforming feedback".
72. 106.31: Replace "An Explicit Feedback Request" with "An explicit feedback request".
73. 111.1: Replace "Heartbeat Elapsed Time value" with "heartbeat elapsed time value".
74. 111.8: Replace "Heartbeat Elapsed Time value" with "heartbeat elapsed time value".
75. 111.14: Replace "Heartbeat Elapsed Time value" with "heartbeat elapsed time value".
76. 120.5: Replace "Transmission" with "transmission".
77. 120.5: Replace "Alternative Channel" with "alternative channel".
78. 124.42: Replace "Channel 5 and Channel 6" with "channel 5 and channel 6".
79. 126.35: Replace "DMG Beacons" with "DMG Beacon frames".
80. 136.41: Replace "the Link Margin to" with "the link margin to".
81. 137.28: Replace "Link Measurement Report" with "Link Measurement Report frame".
82. 137.31: Replace "Link Measurement Report" with "Link Measurement Report frame".
83. 137.33: Replace "Sub-element" with "subelement".
84. 137.35: Replace "Link Measurement Report" with "Link Measurement Report frame".
85. 137.39: Replace "Link Measurement Report" with "Link Measurement Report frame".
86. 137.42: Replace "Link Measurement Report" with "Link Measurement Report frame".
87. 137.43: Replace "Link Measurement Report" with "Link Measurement Report frame".
88. 137.61: Replace "Transmission of Link Measurement Request, Link Measurement Report and the frames" with "Transmission of Link Measurement Request frame, Link Measurement Report frame and the frames".
89. 139.24: Replace "DMG Beacon" with "DMG Beacon frame".
90. 152.37: Replace "PSMP Group Address ID" with "PSMP Group Address ID subfield".
91. 152.37: Replace "its Group Address" with "its group address".
92. 153.48: Replace "SSW Report information element" with "SSW Report element".
93. 153.63: Replace "Dynamic Channel Transfer (DCT)" with "dynamic channel transfer (DCT)".
94. 154.32: Replace "the procedure of the Dynamic Channel Transfer" with "the procedure of the dynamic channel transfer".
95. 154.34: Replace "DCT Measure Response frame" with "DCT Measurement Response frame".
96. 154.56: Replace "DCT Measurement Request Mode" with "DCT measurement request mode".
97. 154.58: Replace "DCT Measurement Request Mode" with "DCT measurement request mode".
98. 155.12: Replace "Process DCT Measurement Request action" with "Process DCT Measurement Request frame".
99. 155.12" Replace "Process Measurement/Radio Measurement Request action" with "Process Measurement/Radio Measurement Request frame".
100. 155.23: Replace "Process DCT Request action" with "Process DCT Request frame".
101. 155.45: Replace "DCT Measurement Request" with "DCT Measurement Request frame".
102. 163.35: Replace "Enumerated Type" with "Enumerated type".
103. 163.41: Replace "Enumerated Type" with "Enumerated type".
104. 163.54: Replace "Enumerated Type" with "Enumerated type".
105. 168.15: Replace "SC Chip time" with "SC chip time".
106. 168.22: Replace "Channel Estimation sequence duration" with "Channel estimation sequence duration".
107. 168.24: Replace "Header Duration" with "Header duration".
108. 172.49: Replace "Header Check sequence" with "Header check sequence".
109. 174.46: Replace "Modulation and Coding Scheme" with "Modulation and coding scheme".
110. 175.7: In the cell "Field name", replace "Packet type" with "Packet Type".
111. 182.62: Replace "each Beam Refinement packet" with "each beam refinement packet".
112. 182.63: Replace "an STF, a CE field, and a data field" with "an STF field, a CE field, and a Data field".
113. 183.26: Replace "Prepare CP Header" with "Prepare CP header".
114. 183.27: Replace "Tx SC Header" with "Tx SC header".
115. 183.27: Replace "CW not Full" with "CW not full".
116. 183.28: Replace "Transmit CDMG SC mode Header" with "Transmit CDMG SC mode header".
117. 183.28: Replace "Get PSDU Octet Decrement Length" with "Get PSDU octet decrement length".
118. 183.35: Replace "Get PSDU Octet Decrement Bytes in CW Decrement Length" with "Get PSDU octet decrement bytes in CW decrement length".
119. 183.35: Replace "Encode and Transmit" with "Encode and transmit".
120. 183.42: Replace "Get PSDU Octet Decrement Length" with "Get PSDU octet decrement length".
121. 186.32: Replace "Normal Guard Interval" with "Normal guard interval".
122. 195.58: Replace "Short Guard interval duration" with "Short guard interval duration".
123. 195.60: Replace "Long GI Symbol interval" with "Long SI symbol interval".
124. 195.62: Replace "Short GI Symbol interval" with "Short GI symbol interval".
125. 196.36: Replace "For OFDM Transmission" with "For OFDM transmission".
126. 196.37: Replace "For SC Transmission" with "For SC transmission".
127. 205.29: Replace "Base Matrix prototypes" with "Base matrix prototypes".
128. 209.62: Replace "Index into the Modulation and Coding Scheme table" with "Index into the modulation and coding scheme table".
129. 210.13: Replace "Using Rate-matching" with "Using rate-matching".
130. 216.6: Replace "Control mode Modulation" with "Control mode modulation".
131. 217.41: Replace "The Scrambler" with "The scrambler".
132. 220.3: Replace "the data field" with "the Data field".
133. 229.5: Replace "The Scrambler" with "The scrambler".
134. 234.32: Replace "the data field" with "the Data field".
135. 242.38: Replace "Codebook Information values" with "codebook information values".
136. 257.7: Replace "Set TX Parameters" with "Set TX parameters".
137. 257.20: Replace "CW not Full" with "CW not full" (note there are two appearances).
138. 257.22: Replace "Get PSDU Octet Decrement Bytes in CW Decrement Length" with "Get PSDU octet decrement bytes in CW decrement length" (note there are two appearances).
139. 270.30: Replace "Dynamic Channel Transfer" with "Dynamic channel transfer".
140. 271.4: Replace "CDMG Enhanced Beam Tracking" with "CDMG enhanced beam tracking".
141. 271.29: Replace "China Modulation and coding schemes" with "China modulation and coding schemes".
142. 273.54: Replace "Beacon Report" with "beacon report".
143. 276.54: Replace "CDMG Spatial sharing" with "CDMG spatial sharing".
144. 277.2: Replace "CDMG AP or PCP Clustering" with "CDMG AP or PCP clustering".
145. 278.4: Replace "45MG AP or PCP Clustering" with "45MG AP or PCP clustering".
146. 278.25: Replace "on an Agent" with "on an agent".
147. 279.21: Replace "on an Agent" with "on an agent".
148. 280.19: Replace "Dynamic Channel Transfer Timeout" with "Dynamic channel transfer timeout".
149. 281.3: Replace "Dynamic Channel Transfer Timeout" with "Dynamic channel transfer timeout".
150. 285.17: Replace "SSW Report information element" with "SSW Report element".

**2.8 Terminology (0 finding)**

No problem!

**2.9 Use of verbs & problematic words (66 findings)**

1. 161.12: The normative verb "shall" shall not appear in NOTE, which is an informative text.
2. 167.9: The normative verb "shall" shall not appear in NOTE, which is an informative text.
3. 285.58: The normative verb "shall" shall not appear in Annex AA, which is an informative text.
4. 286.30: The normative verb "shall" shall not appear in Annex AA, which is an informative text.
5. 286.31: The normative verb "shall" shall not appear in Annex AA, which is an informative text.
6. 27.16: "will" can be used when stating future fact. For the sentence "It is set to 1 to indicate that an NDP will follow", it is not the case however.
7. 158.32: Replace "will have after the switch" with "have after the switch".
8. 238.22: For this sentence "Each two consecutive generative complex constellation numbers will be transmitted …", it is not clear what "Each two" means and please replace "will be transmitted" with "are transmitted".
9. 148.55: "only" should apply to a condition, not to a verb. Replace "shall only schedule SPs or CBAPs with non-AP and non-PCP DMG STAs" with "shall schedule only SPs or CBAPs with non-AP and non-PCP DMG STAs".
10. 244.63: avoid using "… shall … only … ". Replace "The measurements shall occur only on the OFDM symbols" with other equivalent form.
11. 132.53: replace "which" with "that".
12. 200.10: replace "which" with "that".
13. 211.20: replace "which" with "that".
14. 211.31: replace "which" with "that".
15. 211.36: replace "which" with "that".
16. 217.25: not appropriate use of "which". Replace "The operations denoted by the dots line arrow and dots line boxes in the above two figures is optional which are applied for SC MIMO mode transmission" with "The operations denoted by the dot line arrows and dot line boxed in the above two figures are optional, and are applied for SC MIMO mode transmission".
17. 218.45: replace "which" with "that".
18. 228.24: not appropriate use of "which". Replace "The operations denoted by the dots line arrow and dots line boxes in the above two figures is optional which are applied for OFDM MIMO mode transmission" with "The operations denoted by the dot line arrows and dot line boxed in the above two figures are optional, and are applied for OFDM MIMO mode transmission".
19. 148.29: Replace "a RTS frame" with "an RTS frame".
20. 148.31: Replace "a RTS frame" with "an RTS frame".
21. 53.21: Replace "transmit Probe Response frame" with "transmit a Probe Response frame".
22. 61.28: Replace "with SSW frames" with" "with the SSW frames" (note that there are two appearances).
23. 69.12: Replace "the measured link margin of Data frames" with "the measured link margin of the Data frames".
24. 90.54: Replace "in management frames transmitted by the receiver STA" with "in the management frames transmitted by the receiver STA".
25. 90.57: Replace "in management frames transmitted by the receiver STA" with "in the management frames transmitted by the receiver STA".
26. 126.29: Replace "included in Probe Request frames" with "included in the Probe Request frames".
27. 129.11: Replace "it may transmit DMG Beacon frame containing" with "it may transmit a DMG Beacon frame containing".
28. 130.21: Replace "transmit DMG Beacon frame" with "transmit a DMG Beacon frame".
29. 139.62: Replace "transmit DMG Beacon frame" with "transmit a DMG Beacon frame".
30. 113.43: Replace "included in Cluster Report elements or DMG TSPEC elements transmitted by STAs within the BSS" with :included in the Cluster Report elements or DMG TSPEC elements transmitted by STAs within the BSS".
31. 114.65: Replace "may transmit Directional Channel Quality Request element" with "may transmit a Directional Channel Quality Request element".
32. 122.54: Replace "the DBC Option subfield of Dynamic Bandwidth Control element" with "the DBC Option subfield of the Dynamic Bandwidth Control element".
33. 125.50: Replace "the AP or PCP Role subfield of Dynamic Bandwidth Control element" with "the AP or PCP Role subfield of the Dynamic Bandwidth Control element".
34. 125.56: Replace "the AP or PCP Role subfield of Dynamic Bandwidth Control element" with "the AP or PCP Role subfield of the Dynamic Bandwidth Control element".
35. 126.29: Replace "transmit Cluster Probe elements included in Probe Request frames" with "transmit Cluster Probe elements included in the Probe Request frames".
36. 129.26: Replace "Upon receiving a DMG Beacon frame including Cluster Switch Announcement element" with "Upon receiving a DMG Beacon frame including a Cluster Switch Announcement element".
37. 132.57: Replace "after receiving SPSH Report element" with "after receiving the SPSH Report element".
38. 141.46: Replace "with the DBC Option subfield of Dynamic Bandwidth Control element" with "with the DBC Option subfield of the Dynamic Bandwidth Control element".
39. 142.52: Replace "of Dynamic Bandwidth Control element" with "of the Dynamic Bandwidth Control element".
40. 142.62: Replace "with the DBC Option subfield of Dynamic Bandwidth Control element" with "with the DBC Option subfield of the Dynamic Bandwidth Control element".
41. 146.19: Replace "of Dynamic Bandwidth Control element" with "of the Dynamic Bandwidth Control element".
42. 24.38: Replace "MFB2 subfield" with "The MFB subfield".
43. 42.10: Replace "with Feedback Type subfield" with "with the Feedback Type subfield".
44. 99.34: Replace "not set 45MG Link Adaptation Capable subfield to" with "not set the 45MG Link Adaptation Capable Subfield to".
45. 101.10: Replace "of 45MG Control field" with "of the 45MG Control field".
46. 101.50: Replace "the exchange of 45MG Control field elements" with "the exchange of the 45MG Control field elements".
47. 122.54: Replace "with the DBC Option subfield of Dynamic Bandwidth Control element" with "with the DBC Option subfield of the Dynamic Bandwidth Control element".
48. 123.24: Replace "set the first bit of Clustering Status subfield" with "set the first it of the Clustering Status subfield".
49. 129.15: Replace "BI equals to Reported BI Duration field" with "BI equals to the Reported BI Duration field".
50. 129.58: Replace "has source and destination DMG AIDs set to 255 and AllocationType subfield set to 2" with "has the source and destination DMG AIDs set to 255 and the AllocationType subfield set to 2".
51. 130.2: "has source and destination DMG AIDs set to 255 and AllocationType subfield set to 0" with "has the source and destination DMG AIDs set to 255 and the AllocationType subfield set to 0".
52. 135.2: Replace "with TX-TRN-REQ subfield" with "with the TX-TRN-REQ subfield".
53. 135.3: Replace "with TX-TRN-REQ subfield" with "with the TX-TRN-REQ subfield".
54. 137.44: Replace "with Activity field" with "with the Activity field".
55. 141.36: Replace "of Dynamic Bandwidth Control element" with "of the Dynamic Bandwidth Control element".
56. 141.47: Replace "of Dynamic Bandwidth Control element" with "of the Dynamic Bandwidth Control element".
57. 142.55: Replace "obtained from Beacon Interval field" with "obtained from the Beacon Interval field".
58. 141.62: Replace "of Dynamic Bandwidth Control element" with "of the Dynamic Bandwidth Control element".
59. 146.19: Replace "of Dynamic Bandwidth Control element" with "of the Dynamic Bandwidth Control element".
60. 164.17: Replace "during the reception of TRN subfields" with "during the reception of the TRN subfields".
61. 165.55: Replace "without training fields" with "without the training fields".
62. 181.60: Replace "of AGC subfields and TRN units" with "of the AGC subfields and TRN units".
63. 258.62: Replace "the presence of training field" with "the presence of the training field".
64. 259.5: Replace "including AGC and TRN fields" with "including the AGC and TRN fields".
65. 254.63: Replace "the primitive PHY-TXEND.request" with "the PHY-TXEND.request primitive".
66. 255.58: Replace "the primitive PHY-TXEND.request" with "the PHY-TXEND.request primitive".

**2.10 Numbers (17 findings)**

1. 40.51: Replace "an 8-bits twos complement value" with "an 8-bit 2s complement value".
2. 41.1: Replace "an 8-bits 2s complement integer" with "an 8-bit 2s complement integer".
3. 203.20: Replace "is the ones complement" with "is the 1s complement".
4. 226.65: Replace "-71dBm" with "-71 dBm".
5. 246.12: Replace "-71dBm" with "-71 dBm".
6. 195.47: Replace "1.51515ns" with "1.51515 ns".
7. 195.47: Replace "0.757575ns" with "0.757575 ns".
8. 195.50: Replace "2.272ns" with "2.272 ns".
9. 195.50: Replace "1.136ns" with "1.136 ns".
10. 195.54: Replace "387.8787ns" with "387.8787 ns".
11. 195.56: Replace "96.969696ns" with "96.969696 ns".
12. 195.58: Replace "48.484848ns" with "48.484848 ns".
13. 196.6: Replace "581.8ns" with "581.8 ns".
14. 196.8: Replace "8145.5ns" with "8145.5 ns".
15. 196.10: Replace "5818ns" with "5818 ns".
16. 196.13: Replace "2327.3ns" with "2327.3 ns".
17. 196.16: Replace "2327.3ns" with "2327.3 ns".

**2.11 Maths operators and relations (6 findings)**

1. 95.16: bitwise exclusive OR operation is already defined in clause 1.5. Delete this definition at 95.16.
2. 95.17: modulus operation is already defined in clause 1.5. Delete this definition at 95.17.
3. 169.40: modulus operation is already defined in clause 1.5. Delete this definition at 169.40.
4. 172.1: modulus operation is already defined in clause 1.5. Delete "Where mod is the modulus operation".
5. 197.28: Real is already defined in clause 1.5. Delete the real definition at 197.28.
6. 214.51: Floor operation is already defined in clause 1.5. Delete "x means the largest integer smaller than a real number x".

**2.12 Hyphenation (27 findings)**

1. 209.32: Replace "for non-allowing" with "for not allowing".
2. 243.63: Replace "non-identity" with "nonidentity".
3. 251.59: Replace "pre-pend" with "prepend".
4. 131.1: Replace "re-scheduling" with "rescheduling".
5. 131.5: Replace "re-scheduling" with "rescheduling".
6. 221.13: Replace "re-arranged" with "rearranged".
7. 234.65: Replace "re-arranged" with "rearranged".
8. 209.65: Replace "length-672" with "length 672".
9. 215.10: Replace "length-672" with "length 672".
10. 99.28: replace "sub-clause" with "subclause".
11. 134.7: Replace "sub-optimal" with "suboptimal".
12. 135.39 Replace "sub-optimal" with "suboptimal".
13. 137.33: Replace "Sub-element" with "subelement".
14. 204.53: Replace "sub-block" with "subblock".
15. 204.54: Replace "sub-block" with "subblock".
16. 223.30: Replace "sub-blocks" with "subblocks".
17. 223.30: Replace "sub-block" with "subblock".
18. 55.54: Replace "omni-directional" with "omnidirectional".
19. 254.52: Replace "PHY\_TXSTART.request" with "PHY-TXSTART.request".
20. 254.54: Replace "PHY\_TXSTART.request" with "PHY-TXSTART.request".
21. 254.59: Replace "PHY\_TXSTART.req(TXVECTOR)" with "PHY-TXSTART.request(TXVECTOR)".
22. 254.63: Replace "PHYTXEND.request" with "PHY-TXEND.request".
23. 255.45: Replace "PHY\_TXSTART.request" with "PHY-TXSTART.request".
24. 255.48: Replace "PHY\_TXSTART.request" with "PHY-TXSTART.request".
25. 255.53: Replace "PHY\_TXSTART" with "PHY-TXSTART".
26. 258.61: Replace "PHY\_RXEND.ind(No\_Error)" with "PHY-RXEND.indication(NoError)".
27. 91.33: Replace "MLMEJOIN.request" with "MLME-JOIN.request".

**2.13 References to SAP primitives (4 findings)**

1. 255.56: Replace "PHY\_TXSTART.req" with "PHY-TXSTART.request primitive".
2. 255.59: Replace "PHYSTART.request primitive" with "PHY-START.request primitive".
3. 160.24: Replace "MLME-JOIN.request" with "MLME-JOIN.request primitive".
4. 160.27: Replace "MLME-ASSOCIATE.request and MLMEREASSOCIATE.request" with "MLME-ASSOCIATE.request and MLME-REASSOCIATE.request primitives".

**2.14 References to the contents of a field/subfield (1 finding)**

1. 89.12: The use of "value of <field> field" is deprecated.

**2.15 References to MIB variables/attributes (3 findings)**

1. 154.6: Replace "the value of its local MIB variable dot11DynamicChannelTransferImplemented" with "the value of dot11DynamicChannelTransferImplemented".
2. 154.15: Replace "if its local MIB variable dot11DynamicChannelTransferActiviated" with "if dot11DynamicChannelTransferActiviated".
3. 154.15: Replace "The MIB variable dot11DynamicChannelTransferActiviated set be set to" with "dot11DynamicChannelTransferActiviated set be set to".

**2.16 Hanging Paragraphs (6 findings)**

1. 162.39: There is a hanging paragraph between 25.1.2 and 25.1.2.1.
2. 187.11: There is a hanging paragraph between 26.1.3 and 26.1.3.1.
3. 217.29: There is a hanging paragraph between 26.5.3 and 26.5.3.1.
4. 219.8: There is a hanging paragraph between 26.5.5.4 and 26.5.5.4.1.
5. 228.27: There is a hanging paragraph between 26.6.4 and 26.6.4.1.
6. 261.60: There is a hanging paragraph between 26.15 and 26.15.1.

**2.17 Abbreviations (3 findings)**

1. 4.15: Abbreviations may be defined for terms that are used frequently throughout the document. For UW, however, it is used only twice throughout the document. Delete this abbreviation at 4.15, and replace UW with unique word at 196.45 and 248.35.
2. 259.26: Replace "45MG PHY management information base (MIB) attributes" with "45MG PHY MIB attributes".
3. 212.30: Replace "the Received Channel Power Indicator (RCPI) parameter" with "RCPI parameter".

**2.18 Format for code/pseudocode (1 finding)**

1. 118.12: Pseudo-code should be in courier font.

**Others (15 findings)**

1. 26.36: Replace "in10.31.4" with "in 10.31.4".
2. 113.20: Replace "t[he" with "the".
3. 115.42: Replace "to1080 MHz" with "to 1080 MHz".
4. 143.3: Replace "1.08 operating GHz channel" with "operating 1.08 GHz channel".
5. 147.64: Replace "DMG Beacons frames" with "DMG Beacon frames".
6. 174.15: Replace "SPreading" with "Spreading".
7. 185.24: Replace "See 20.10.2.2.6 (TRN field)25.9.2.2.7" with "See 20.10.2.2.6 (TRN field)".
8. 198.58: The following sentence looks strange: "The baseband waveform for fields defined by time waveform for fields defined by time domain sequence for single carrier transmission is".
9. 204.43: Replace "lengthof672 bits" with "length of 672 bits".
10. 206.37: Replace "Uplink Idication" with "Uplink Indication".
11. 209.26: Fix the font size of "Index".
12. 212.18: Replace "[0, 1, …, 12]and" with "[0, 1, …, 12] and".
13. 217.2: Replace "using SCmode transmission" with "using SC mode transmission".
14. 218.44: Replace "SCTF filed" with "SCTF field".

# Individual clauses

***Findings from Robert Stacey***

Clause 4 (General description)

OK. Declarative statements only.

Clause 6 (Layer management)

Checked for presence statements: OK

Checked for consistency: OK

Clause 9 (Frame formats)

**9.2.4.1.10 +HTC/Order subfield**

“For 45MG STAs, the Order subfield is 1 bit in length. It is used for two purposes:”

There is no such thing as an Order subfield (it’s called “+HTC/Order subfield” in the baseline). The +HTC/Order subfield length is not dependent on the STA type. Change to:

“A 45MG STA uses the +HTC/Order subfield for two purposes:”

Use of “may” in the locations listed below. Frame formats section is descriptive; avoid use of normative verbs.

P27L27, P27L30, P62L17

Annexes

Includes PICS

Includes MIB

# ANA

***TGaj editor, please perform actions shown below in “actions arising”***

| **Resources by Doc1Subclause for MDR** | | |
| --- | --- | --- |
| **RefDoc1Subclause** | **ResourceName** | **Status** |
| 8.2.4.1.2 | ProtocolVersions | NP |
| 8.2.4.1.3 | FrameTypes | NP |
| 8.2.4.1.3 | DataSubTypes | NP |
| 8.2.4.1.3 | ExtendedSubTypes | NP |
| 8.2.4.1.3 | ExtendedControlSubTypes | NP |
| 8.2.4.1.3 | ControlSubTypes | NP |
| 8.2.4.1.3 | ManagementSubTypes | NP |
| 8.2.6 | TLV encodings | NP |
| 8.4.1.1 | AuthenticationAlgorithmNumbers | NP |
| 8.4.1.11 | Categories | OK |
| 8.4.1.4 | Capabilities | NP |
| 8.4.1.7 | ReasonCodes | OK |
| 8.4.1.9 | StatusCodes | OK |
| 8.4.2.1 | ElementIDs | NP |
| 8.4.2.1 | Element ID Extension 1 | OK |
| 8.4.2.100.2 | Active Path Selection Protocol | NP |
| 8.4.2.27.2 | CipherSuiteSelectors | NP |
| 8.4.2.27.3 | AKMSuiteSelectors | NP |
| 8.4.2.27.4 | RSNCapabilities | NP |
| 8.4.2.29 | ExtendedCapabilities | NP |
| 8.4.2.50 | FastBSSTransitionSubElementIDs | NP |
| 8.4.4 | Info IDs | NP |
| 8.5.14.28 | WNM-Notification types | NP |
| 8.5.2.1 | SpectrumManagementActionFrames | NP |
| 8.5.8.1 | PublicActionFrames | OK |
| 8.8.3 | ShortFrameTypes | NP |
| 8.8.4 | ShortControlFrameSubTypes | NP |
| 8.8.5 | ShortManagementFrameSubTypes | NP |
| annex C | dot11mac | See Action 1 |
| C.3 | dot11Groups | OK |
| C.3 | dot11OperationEntry | NP |
| C.3 | dot11phy | OK |
| C.3 | dot11smt | OK |
| C.3 | dot11StationConfigEntry | NP |
| C.3 | ieee802dot11 | NP |
| C.3 | dot11Compliances | OK |
| D.1 | BehaviorLimits | NP |
| E.1 | OperatingClassesInJapan | NP |
| E.1 | OperatingClassesInEurope | NP |
| E.1 | OperatingClassesGlobal | NP |
| E.1 | OperatingClassesInUSA | NP |
| None | MAC addresses | NP |
| Notes:  NP – Not present  OK – Present and values are correct | | |

Actions arising:

Action 1: {dot11mac 13} was assigned for dot1145MGCounterTable but is unused in draft. Send release request to ANA.

# MIB

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| *Editing Instruction: TGaj Editor revises Annex C as follows*  **TGaj Editor: Replace “45mg(“ with “fourtyfivemg(“ throughout Annex C.**  **TGaj Editor: Remove the following from Annex D because dot11EDCATableTXOPLimit which was updated from P802.11mc D8.0 does not have any PHY dependent wording.**  ~~Change the definition of “dot11EDCATableTXOPLimit” in the “SMT EDCA Config TABLE” in C.3 as follows:~~  ~~dot11EDCATableTXOPLimit OBJECT-TYPE SYNTAX Unsigned32 (0..65535) MAX-ACCESS read-write STATUS current DESCRIPTION "This is a control variable. It is written by the MAC upon receiving an EDCA Parameter Set in a Beacon frame. Changes take effect as soon as practical in the implementation.  This attribute specifies the maximum number of microseconds of an EDCA TXOP for a given AC. The default value for this attribute is  1) 0 for all PHYs, if dot11EDCATableIndex is 1 or 2; this implies that the sender can send one MSDU in an EDCA TXOP,  2) 3008 microseconds for Clause 18, Clause 21, Clause 25, Clause 26 and Clause 19 PHY and 6016 microseconds for Clause 17 PHY, if dot11EDCATableIndex is 3,  3) 1504 microseconds for Clause 18, Clause 21, Clause 25, Clause 26 and Clause 19) PHY and 3264 microseconds for Clause 17 PHY, if dot11EDCATableIndex is 4." ::= { dot11EDCAEntry 5 }~~  **TGaj Editor: Change the following editing instruction because the position of the inserted texts (the end of the Station Management (SMT) Attributes) is not clear.**  Insert the following tables (“dot11CDMGSTAConfigTable”) and (“dot1145MGSTAConfigTable”) at the end of the ~~“Station ManagemenT (SMT) Attributes”~~ “dot11S1GStationConfigTable” part of C.3:  **TGaj Editor: Change the Dot11CDMGSTAConfigEntry as the following.**  Dot11CDMGSTAConfigEntry ::= SEQUENCE { dot11CDMGOptionImplemented TruthValue, dot11DynamicChannelTransferImplemented TruthValue, dot11OpportunisticTransmissionsActivated TruthValue, dot11CDMGSpatialsharingActivated TruthValue, dot11CDMGClusteringActivated TruthValue }  **TGaj Editor: Define the following MIB variables or remove it as the below editing instruction. (Because of the MIB compiling error, this document simply proposes to remove the following MIB variables from Dot1145MGSTAConfigEntry.) - dot11DynamicChannelTransferImplemented - dot11OpportunisticTransmissionsActivated - dot11SpatialsharingActivated**  Dot1145MGSTAConfigEntry ::= SEQUENCE { dot1145MGOptionImplemented TruthValue, ~~dot11DynamicChannelTransferImplemented TruthValue, dot11OpportunisticTransmissionsActivated TruthValue, dot11SpatialsharingActivated TruthValue,~~ dot1145MGClusteringActivated TruthValue }  **TGaj Editor: Change the following editing instruction because the position of the inserted texts (the end of the PHY Attributes) is not clear.**  Insert the following table~~s~~ (“dot11 Phy CDMG TABLE”) ~~and (“dot11CDMGOperation TABLE”)~~ at the end of ~~“PHY Attributes”~~ “dot11 S1G Transmit Beamforming Config TABLE“ section in C.3:  **TGaj Editor: Define the entries of dot11PHY45MGTable. (Because of the MIB compiling error, this document simply proposes to remove dot11PHY45MGTable.)**  ~~--\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* -- \* dot11 Phy 45MG TABLE --\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* dot11PHY45MGTable OBJECT-TYPE SYNTAX SEQUENCE OF Dot11PHYCDMGEntry MAX-ACCESS not-accessible STATUS current DESCRIPTION "Entry of attributes for dot11Phy45MGTable. Implemented as a table indexed on ifIndex to allow for multiple instances on an Agent." ::= { dot11phy 30}~~  ~~dot11PHY45MGEntry OBJECT-TYPE SYNTAX Dot11PHY45MGEntry MAX-ACCESS not-accessible STATUS current DESCRIPTION "An entry in the dot11PHY45MGEntry Table. ifIndex - Each IEEE 802.11 interface is represented by an ifEntry. Interface tables in this MIB module are indexed by ifIndex." INDEX {ifIndex} ::= { dot11PHY45MGTable 1 } -- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* -- \* End of dot11 PHY 45MG TABLE -- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*~~  **TGaj Editor: Change the following editing instruction because the position of the inserted texts (the end of the MAC Attribute Templates) is not clear.**  Insert the following tables (“dot11CDMGOperation TABLE”) and (“dot1145MGOperation TABLE”) at the end of the ~~“MAC Attribute Templates”~~ “dot11BSSStatisticsTable” section in C.3:  **TGaj Editor: Change the Dot11CDMGOperationEntry and Dot1145MGOperationEntry as the following. (Because dot11DCTTimeouts are duplicated, the below name changes are proposed.)**  Dot11CDMGOperationEntry ::= SEQUENCE { dot11CDMGDCTTimeout Unsigned32~~,~~ }  dot11CDMGDCTTimeout OBJECT-TYPE SYNTAX Unsigned32 (1..64000) UNITS "milliseconds" MAX-ACCESS read-write STATUS current DESCRIPTION "This is a control variable. It is written by the SME or an external management entity. Changes take effect as soon as practical in the implementation. Dynamic Channel Transfer Timeout (in milliseconds)" DEFVAL { 1000 } ::= { dot11CDMGOperationEntry 1 }  Dot1145MGOperationEntry ::= SEQUENCE { dot1145MGDCTTimeout Unsigned32~~,~~ }  dot1145MGDCTTimeout OBJECT-TYPE SYNTAX Unsigned32 (1..64000) UNITS "milliseconds" MAX-ACCESS read-write STATUS current DESCRIPTION "This is a control variable. It is written by the SME or an external management entity. Changes take effect as soon as practical in the implementation. Dynamic Channel Transfer Timeout (in milliseconds)" DEFVAL { 1000 } ::= { dot1145MGOperationEntry 1 }  **TGaj Editor: Change the following editing instruction because the position of the inserted texts (the end of the Groups - units of conformance) is not clear.**  Insert the following groups (“dot11CDMGComplianceGroup” and“dot11CDMGOperationsComplianceGroup”) at the end of the ~~“Groups - units of conformance”~~ “dot11PADComplianceGroup” section in C.3:  **TGaj Editor: Change the dot11CDMGComplianceGroup and dot11CDMGOperationsComplianceGroup as the following.**  dot11CDMGComplianceGroup OBJECT-GROUP OBJECTS { dot11CDMGOptionImplemented, dot11DynamicChannelTransferImplemented, dot11OpportunisticTransmissionsActivated, dot11CDMGSpatialsharingActivated, dot11CDMGClusteringActivated } STATUS current DESCRIPTION "Attributes that configure the CDMG Group for IEEE Std 802.11." ::= { dot11Groups 95}  dot11CDMGOperationsComplianceGroup OBJECT-GROUP OBJECTS {dot11CDMGDCTTimeout} STATUS current DESCRIPTION "Attributes that configure the CDMG Operation for IEEE Std 802.11." ::= { dot11Groups 96}  **TGaj Editor: Change the following editing instruction at P281 L39 because the position of the inserted texts (the end of the “dot11Compliance” module) is not clear.**  Insert the following groups at the end of the ~~“dot11Compliance”~~ module “GROUP dot11FILSComplianceGroup” of the “Compliance Statements” section of C.3:  **TGaj Editor: Change the following editing instruction because the position of the inserted texts (the end of the Groups - units of conformance) is not clear.**  Insert the following groups (“dot1145MGComplianceGroup” and“dot1145MGOperationsComplianceGroup”) at the end of the ~~“Groups - units of conformance”~~ “dot11PADComplianceGroup” section in C.3:  **TGaj Editor: Change the dot1145MGComplianceGroup and dot1145MGOperationsComplianceGroup as the following.**  dot1145MGComplianceGroup OBJECT-GROUP OBJECTS { dot1145MGOptionImplemented, ~~dot11DynamicChannelTransferImplemented, dot11OpportunisticTransmissionsActivated, dot11SpatialsharingActivated,~~ dot1145MGClusteringActivated } STATUS current DESCRIPTION "Attributes that configure the 45MG Group for IEEE Std 802.11." ::= { dot11Groups 97}  dot1145MGOperationsComplianceGroup OBJECT-GROUP OBJECTS {dot1145MGDCTTimeout} STATUS current DESCRIPTION "Attributes that configure the 45MG Operation for IEEE Std 802.11." ::= { dot11Groups 98}  **TGaj Editor: Change the following editing instruction at P282 L62 because the position of the inserted texts (the end of the “dot11Compliance” module) is not clear.**  Insert the following groups at the end of the ~~“dot11Compliance”~~ module “GROUP dot11FILSComplianceGroup” of the “Compliance Statements” section of C.3:  **TGaj Editor: Remove “dot11Phy45MGComplianceGroup” at P283 L39 and P283 L16 because dot11Phy45MGComplianceGroup is not defined.** |

# IEEE-SA MEC

## The MEC comments

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## The response to the MEC comments