IEEE P802.11  
Wireless LANs

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| 802.11  IEEE P802.11ax D4.2 Mandatory Draft Review (MDR) Report | | | | |
| Date: 2019-07-03 | | | | |
| Author(s): | | | | |
| Name | Company | Address | Phone | email |
| Robert Stacey | Intel |  |  | robert.stacey@intel.com |
| Peter Ecclesine | Cisco Systems |  |  | [pecclesi@cisco.com](mailto:pecclesi@cisco.com) |
| Edward Au |  |  |  |  |
| Yongho Seok |  |  |  |  |
| Naveen Kakani |  |  |  |  |
| Perry Corell |  |  |  |  |
| Po-Kai Huang |  |  |  |  |

**Abstract**

This document contains the report of the TGax Mandatory Draft Review.

R0: initial version – section headings.

R1: includes Po-Kai and Yongho’s findings. Reassinged 2.1.10-12 to Carol

# Introduction

## Purpose of this document

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

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

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

## Process / references

The MDR process is described in:

* 11-11/615r5 – Mandatory Draft Review process

And references:

* 11-09/1034r12 – 802.11 Editorial Style Guide

A setup meeting was held, and review topics identified and assigned to volunteers. The volunteers provided their review comments, which have been compiled into this document, with some editorial changes.

## Acknowledgements

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

* Edward Au
* Yongho Seok
* Naveen Kakani
* Perry Corell
* Po-Kai Huang
* Carol Ansley

# Findings

## Style

### Style Gude 2.1 – Frames

Po-Kai

[001] 79.12, change “Figure 9-16—VHT Control Middle subfield of the VHT variant HT Control field” to “Figure 9-16—VHT Control Middle subfield of the VHT variant HT Control field format” to align with revmd change

[002] 79.31, change “Figure 9-19a—A-Control subfield of the HE variant HT Control field” to “Figure 9-19a—A-Control subfield of the HE variant HT Control field fomat”

[003] 80.60, change “Figure 9-22a—Control Information subfield for TRS Control” to “Figure 9-22a—Control Information subfield format for TRS Control”

[004] 81.44, change “Figure 9-22b—Control Information subfield for OM Control” to “Figure 9-22b—Control Information subfield format for OM Control”

[005] 83.26, change “Figure 9-22c—Control Information subfield for HLA Control” to “Figure 9-22c—Control Information subfield format for HLA Control”

[006] 86.13, change “Figure 9-22d—MSI/Partial PPDU Parameters subfield if the Unsolicited MFB subfield is 1” to “Figure 9-22d—MSI/Partial PPDU Parameters subfield format if the Unsolicited MFB subfield is 1”

[007] 86.48, change “Figure 9-22e—Control Information subfield for BSR Control” to “Figure 9-22e—Control Information subfield format for BSR Control”

[008] 88.54, change “Figure 9-22f—Control Information subfield for UPH Control” to “Figure 9-22f—Control Information subfield format for UPH Control”

[009] 89.18, change “Figure 9-22g—Control Information subfield for BQR Control” to “Figure 9-22g—Control Information subfield format for BQR Control”

[010] 89.51, change “Figure 9-22h—Control Information subfield for CAS Control” to “Figure 9-22h—Control Information subfield format for CAS Control”

[011] 97.65, change “Figure 9-43—BA Information field (Compressed BlockAck)” to “Figure 9-43—BA Information field format (Compressed BlockAck)” to align with revmd change

[012] 103.49, change “Figure 9-59—Sounding Dialog Token field” to “Figure 9-59—Sounding Dialog Token field format” to align with revmd change

[013] 105.11, change “Figure 9-61c—Partial BW Info subfield” to “Figure 9-61c—Partial BW Info subfield format”

[014] 107.65, change “Figure 9-64a—Trigger frame” to “Figure 9-64a—Trigger frame format”

[015] 108.59, change “Figure 9-64b—Common Info field” to “Figure 9-64b—Common Info field format”

[016] 112.7, change “Figure 9-64c—UL Spatial Reuse subfield” to “Figure 9-64c—UL Spatial Reuse subfield format”

[017] 112.36, change “Figure 9-64d—User Info field” to “Figure 9-64d—User Info field format”

[018] 116.22, change “Figure 9-64g—Trigger Dependent User Info subfield for the Basic Trigger variant” to “Figure 9-64g—Trigger Dependent User Info subfield format for the Basic Trigger variant”

[019] 116.64, change “Figure 9-64h—Trigger Dependent User Info subfield for the Beamforming Report Poll vari-ant” to “Figure 9-64h—Trigger Dependent User Info subfield format for the Beamforming Report Poll vari-ant”

[020] 117.23, change “Figure 9-64i—Trigger Dependent User Info subfield for the MU-BAR variant” to “Figure 9-64i—Trigger Dependent User Info subfield format for the MU-BAR variant”

[021] 118.65, change “Figure 9-64k—Trigger Dependent Common Info subfield for the GCR MU-BAR variant” to “Figure 9-64k—Trigger Dependent Common Info subfield format for the GCR MU-BAR variant”

[022] 119.46, change “Figure 9-64l—User Info field for the NFRP Trigger frame” to “Figure 9-64l—User Info field format for the NFRP Trigger frame”

[023] 128.14, change “Figure 9-100—QoS Info field when sent by an AP” to “Figure 9-100—QoS Info field format when sent by an AP” to align with the revmd change

[024] 131.11, change “Figure 9-144a—HE MIMO Control field” to “Figure 9-144a—HE MIMO Control field format”

[025] 151.23, change “Figure 9-334—BSSID Information field” to “Figure 9-337—BSSID Information field format” to align with the revmd change

[026] 157.42, change “Figure 9-628—TBTT Information Header subfield” to “Figure 9-628—TBTT Information Header subfield format” to align with the revmd change

[027] 159.11, change “Figure 9-629a—BSS Parameters subfield” to “Figure 9-629a—BSS Parameters subfield format”

[028] 162.48, change “Figure 9-681—Request Type field in an Individual TWT Parameter Set field” to “Figure 9-681—Request Type field format in an Individual TWT Parameter Set field”

[029] 162.63, change “Figure 9-681a—Request Type field in a Broadcast TWT Parameter Set field” to “Figure 9-681a—Request Type field format in a Broadcast TWT Parameter Set field”

[030] 188.43, change “Figure 9-772e—Rx HE-MCS Map and Tx HE-MCS Map subfields and Basic HE-MCS And NSS Set field” to “Figure 9-772e—Rx HE-MCS Map and Tx HE-MCS Map subfields and Basic HE-MCS And NSS Set field format”

[031] 192.30, change “Figure 9-772j—BSS Color Information field” to “Figure 9-772j—BSS Color Information field format”

[032] 193.16, change “Figure 9-772k—6 GHz Operation Information field” to “Figure 9-772k—6 GHz Operation Information field format”

[033] 193.31, change “Figure 9-772l—Control field” to “Figure 9-772l—Control field format”

[034] 195.16, change “Figure 9-772o—MU EDCA Parameter Set element” to “Figure 9-772o—MU EDCA Parameter Set element format”

[035] 196.20, change “Figure 9-772q—Spatial Reuse Parameter Set element” to “Figure 9-772q—Spatial Reuse Parameter Set element format”

[036] 197.53, change “Figure 9-772s—NDP Feedback Report Parameter Set element” to “Figure 9-772s—NDP Feedback Report Parameter Set element format”

[037] 202.14, change “Figure 9-772z—ESS Report element” to “Figure 9-772z—ESS Report element format”

[038] 202.31, change “Figure 9-772aa—ESS Information field” to “Figure 9-772aa—ESS Information field format”

[039] 203.15, change “Figure 9-772ab—OPS element” to “Figure 9-772ab—OPS element format”

[040] 203.44, change “Figure 9-772ac—HE BSS Load element” to “Figure 9-772ac—HE BSS Load element format”

[041] 205.41, change “Figure 9-772ae—Known BSSID element” to “Figure 9-772ae—Known BSSID element format”

[042] 205.56, change “Figure 9-772af—BSSID Bitmap field” to “Figure 9-772af—BSSID Bitmap field format”

[043] 206.18, change “Figure 9-772ag—Short SSID List element” to “Figure 9-772ag—Short SSID List element format”

[044] 206.45, change “Figure 9-772ah—HE 6 GHz Band Capabilities element” to “Figure 9-772ah—HE 6 GHz Band Capabilities element format”

[045] 206.62, change “Figure 9-772ai—Capabilities Information field” to “Figure 9-772ai—Capabilities Information field format”

[046] 207.47, change “Figure 9-772aj—UL MU Power Capabilities element” to “Figure 9-772aj—UL MU Power Capabilities element format”

[047] 625.56, change “Figure 27-46—HE TB feedback NDP” to “Figure 27-46—HE TB feedback NDP format”

### Style Guide 2.2 – Naming Frames

Po-Kai

[001] 239.24, In Figure 10-15a—An example of an HE MU PPDU transmission with an immediate UL OFDMA acknowledgment, change “A-MPDU with trigger containing UL trigger information” to “A-MPDU with triggering frame containing UL trigger information”

[002] 297.13, change “A successfully acknowledged frame transmitted by a non-AP STA in response to a Basic Trigger is a successful frame exchange initiated by the STA as referred to in Clause 11 and Clause 12.” to “A successfully acknowledged frame transmitted by a non-AP STA in response to a Basic Trigger frame is a successful frame exchange initiated by the STA as referred to in Clause 11 and Clause 12.”

[003] 346.55, change “STA 1 and STA 2, both associated with the AP and having pending frames for the AP, decrement their respective OBO counters by the number of eligible RA-RUs indicated in the Trigger (i.e., three RA-RUs for associated STAs).” to “STA 1 and STA 2, both associated with the AP and having pending frames for the AP, decrement their respective OBO counters by the number of eligible RA-RUs indicated in the Trigger frame (i.e., three RA-RUs for associated STAs).”

[004] 707.50, change “Trigger” to “Trigger frame”

[005] 707.52, change “Basic Trigger” to “Basic Trigger frame”

[006] 707.53, change “Beamforming Report Poll” to “Beamforming Report Poll Trigger frame”

[007] 707.61, change “MU-BAR” to “MU-BAR Trigger frame”

[008] 708.6, change “MU-RTS transmission” to “MU-RTS Trigger frame transmission”

[009] 708.10, change “MU-RTS reception” to “MU-RTS Trigger frame reception”

[010] 708.13, change “BSRP” to “BSRP Trigger frame”

[011] 708.19, change “GCR MU-BAR” to “GCR MU-BAR Trigger frame”

[012] 708.22, change “BQRP” to “BQRP Trigger frame”

[013] 708.28, change “NFRP” to “NFRP Trigger frame”

[014] 286.22, change “xiv) In an HE BSS Basic Trigger frame and Multi-STA BlockAck” to “xiv) In an HE BSS Basic Trigger frame and Multi-STA BlockAck frame”

[015] 322.2, change “a Multi-STA BlockAck with the Ack Type field set to 1 and the TID field set to 14” to “a Multi-STA BlockAck frame with the Ack Type field set to 1 and the TID field set to 14”

[016] 322.57, change “a Multi-STA BlockAck with the Ack Type field set to 1 and the TID field set to 14 or a” to “a Multi-STA BlockAck frame with the Ack Type field set to 1 and the TID field set to 14 or a”

[017] 106.31, change “The Disambiguation subfield coincides with the MSB of the AID12 subfield of an expected VHT NDP Announcement if the HE NDP Announcement field is parsed by a non-HE VHT STA.” to “The Disambiguation subfield coincides with the MSB of the AID12 subfield of an expected VHT NDP Announcement frame if the HE NDP Announcement field is parsed by a non-HE VHT STA.”

[018] 107.1, change “The format of the STA Info field in an HE NDP Announcement Frame” to “The format of the STA Info field in an HE NDP Announcement frame”

[019] 107.21, change “The Disallowed Subchannel Bitmap subfield indicates which 20 MHz subchannels and which 242-tone RUs are present in HE sounding NDPs(#20568) announced by the HE NDP Announcement” to “The Disallowed Subchannel Bitmap subfield indicates which 20 MHz subchannels and which 242-tone RUs are present in HE sounding NDPs(#20568) announced by the HE NDP Announcement frame”

[020] 415.35, change “The indication of which subchannels are punctured in an HE sounding NDP or in an HE NDP Announcement that is carried in a non-HT Duplicate PPDU” to “The indication of which subchannels are punctured in an HE sounding NDP or in an HE NDP Announcement frame that is carried in a non-HT Duplicate PPDU”

[021] 415.56, change “If an HE AP transmits an HE NDP Announcement in a PPDU with punctured channels,” to “If an HE AP transmits an HE NDP Announcement frame in a PPDU with punctured channels,”

[022] 705.31, change “VHT NDP Announcement” to “VHT NDP Announcement frame”

[023] 705.34, change “Beamforming Report Poll” to “Beamforming Report Poll Trigger frame”

[024] 706.18, change “Multi-STA BlockAck” to “Multi-STA BlockAck frame”

[025] 440.4, change “Otherwise, if the FILS Probe Timer reaches dot11FILSProbeDelay and the channel is a PSC, then the STA may, subject to the other rules in this clause, send a Probe Request as per step d) of 11.1.4.3.2 (Active scanning procedure for a non-DMG STA),” to “Otherwise, if the FILS Probe Timer reaches dot11FILSProbeDelay and the channel is a PSC, then the STA may, subject to the other rules in this clause, send a Probe Request frame as per step d) of 11.1.4.3.2 (Active scanning procedure for a non-DMG STA),”

[026] 706.42, change “Signaling of STA capabilities in Probe Request, (Re)Association Request frames” to “Signaling of STA capabilities in Probe Request frames, (Re)Association Request frames”

[027] 281.52, change “dot11ColocatedRNRImplemented is true, the SSID in the Probe Request frame matches the SSID of an AP that is co-located with the STA and the AP is reported by the STA in a Reduced Neighbor Report element in Beacons and Probe Responses according to the rules defined in 26.17.2.4 (Out of band discovery of a 6 GHz BSS)(#20257).” to “dot11ColocatedRNRImplemented is true, the SSID in the Probe Request frame matches the SSID of an AP that is co-located with the STA and the AP is reported by the STA in a Reduced Neighbor Report element in Beacon frames and Probe Response frames according to the rules defined in 26.17.2.4 (Out of band discovery of a 6 GHz BSS)(#20257).”

[028] 282.5, change “dot11ColocatedRNRImplemented is true, dot11ShortSSIDListImplemented is true, the Short SSID List element is present in the Probe Request frame and includes the Short SSID field(#20492) corresponding to the SSID of an AP that is co-located with the STA and the AP is reported by the STA in a Reduced Neighbor Report element in Beacons and Probe Responses according to the rules defined in 26.17.2.4 (Out of band discovery of a 6 GHz BSS).” to “dot11ColocatedRNRImplemented is true, dot11ShortSSIDListImplemented is true, the Short SSID List element is present in the Probe Request frame and includes the Short SSID field(#20492) corresponding to the SSID of an AP that is co-located with the STA and the AP is reported by the STA in a Reduced Neighbor Report element in Beacon frames and Probe Response frames according to the rules defined in 26.17.2.4 (Out of band discovery of a 6 GHz BSS).”

[029] 404.30, change “The Spatial Reuse Parameter Set element is optionally present in Beacons, Probe Responses and (Re)Association responses.” to “The Spatial Reuse Parameter Set element is optionally present in Beacon frames, Probe Response frames and (Re)Association response frames.”

[030] 431.38, change “FILS Discovery and broadcast Probe Responses shall be carried in an S-MPDU (see Table 9-532 (A-MPDU contents in the S-MPDU context)).” to “FILS Discovery frames and broadcast Probe Response frames shall be carried in an S-MPDU (see Table 9-532 (A-MPDU contents in the S-MPDU context)).”

[031] 151.53, change “The(#20291) ER BSS subfield(#20156) is set to 1 if the BSS corresponding to the HE AP representing this BSSID is an ER BSS(#20156) beaconing using the HE ER SU PPDU (see 26.17.6 (ER beacon generation in an ER BSS)). Otherwise the ER BSS subfield(#20156) is set to 0.” to “The(#20291) ER BSS subfield(#20156) is set to 1 if the BSS corresponding to the HE AP representing this BSSID is an ER BSS(#20156) transmitting Beacon frames using the HE ER SU PPDU (see 26.17.6 (ER beacon generation in an ER BSS)). Otherwise the ER BSS subfield(#20156) is set to 0.”

[032] 243.47, change “If the BSSBasicRateSet parameter is not empty, a non-STBC PSMP frame or a non-STBC Beacon frame, ER beacon or HE SU beacon(#21163)” to “If the BSSBasicRateSet parameter is not empty, a non-STBC PSMP frame or a non-STBC Beacon frame, ER Beacon frame or HE SU Beacon frame(#21163)”

[033] 243.49, change “An ER beacon is transmitted as defined 26.15.5 (Additional rules for ER beacons and group addressed frames) and an HE SU beacon(#21163) is transmitted as defined in 26.15.6 (Additional rules for HE SU beacons(#21163) in the 6 GHz band).(#20115, #20298, #20706, #21569, #21284, #21568)” to “An ER Beacon frame is transmitted as defined 26.15.5 (Additional rules for ER beacons and group addressed frames) and an HE SU Beacon frame(#21163) is transmitted as defined in 26.15.6 (Additional rules for HE SU beacons(#21163) in the 6 GHz band).(#20115, #20298, #20706, #21569, #21284, #21568)”

[034] 279.20, change “The BSSID Count field of the Multiple BSSID Configuration element indicates number of active BSSIDs in the multiple BSSID set while the Profile Periodicity field indicates the number of beacons a scanning STA is required to receive in order to discover all the active nontransmitted BSSIDs in the set.” to “The BSSID Count field of the Multiple BSSID Configuration element indicates number of active BSSIDs in the multiple BSSID set while the Profile Periodicity field indicates the number of Beacon frames a scanning STA is required to receive in order to discover all the active nontransmitted BSSIDs in the set.”

[035] 279.38, change “An EMA AP that includes a partial list of nontransmitted BSSID profiles in its Beacon frame, S1G Beacon frame, or DMG Beacon frame, shall advertise a particular nontransmitted BSSID profile in a repeating pattern such that the profile is present in at least one beacon in a sequence of beacons indicated by the Profile Periodicity field of the Multiple BSSID Configuration element unless the membership of the multiple BSSID set changes.” to “An EMA AP that includes a partial list of nontransmitted BSSID profiles in its Beacon frame, S1G Beacon frame, or DMG Beacon frame, shall advertise a particular nontransmitted BSSID profile in a repeating pattern such that the profile is present in at least one Beacon frame in a sequence of Beacon frames indicated by the Profile Periodicity field of the Multiple BSSID Configuration element unless the membership of the multiple BSSID set changes.”

[036] 279.43, change “If there is a change in a particular nontransmitted BSSID's profile (i.e., set of elements belong to the profile or the element values), the EMA AP shall include the profile in the next DTIM beacon of that BSS so that STAs with that BSS become aware of the change immediately.” to “If there is a change in a particular nontransmitted BSSID's profile (i.e., set of elements belong to the profile or the element values), the EMA AP shall include the profile in the next DTIM Beacon frame of that BSS so that STAs with that BSS become aware of the change immediately.”

[037] 279.47, change “NOTE—It is recommended that an AP selects the periodicity in which the profile repeats to be a multiple of the BSS's DTIM interval so that associated STAs in PS mode don't have to wake for additional beacons.” to “NOTE—It is recommended that an AP selects the periodicity in which the profile repeats to be a multiple of the BSS's DTIM interval so that associated STAs in PS mode don't have to wake for additional Beacon frames.”

[038] 384.59, change “A TWT scheduled STA that did not receive a Beacon frame at a TBTT shall act as if it had received the expected Beacon frame containing a TWT element for a broadcast TWT, if the missed beacon corresponds to a TBTT that is within the next *n* TBTTs beyond” to “A TWT scheduled STA that did not receive a Beacon frame at a TBTT shall act as if it had received the expected Beacon frame containing a TWT element for a broadcast TWT, if the missed Beacon frame corresponds to a TBTT that is within the next *n* TBTTs beyond”

[039] 423.10, change “To enable scheduled opportunistic power save, an OPS AP shall include a TWT element in beacons to set a periodic Broadcast TWT SP with the following information:” to “To enable scheduled opportunistic power save, an OPS AP shall include a TWT element in Beacon frames to set a periodic Broadcast TWT SP with the following information:”

[040] 430.23, change “26.15.5 Additional rules for ER beacons and group addressed frames” to “26.15.5 Additional rules for ER Beacon and group addressed frames”

[041] 430.59, change “26.15.6 Additional rules for HE SU beacons(#21163) in the 6 GHz band” to “26.15.6 Additional rules for HE SU Beacon frames(#21163) in the 6 GHz band”

[042] 437.52, change “10.6.5.1 (Rate selection for non-STBC beacon and non-STBC PSMP frames)” to “10.6.5.1 (Rate selection for non-STBC Beacon and non-STBC PSMP frames)” to align with revmd texts.

[043] 437.41, change “26.17.2.2 Beacons in the 6 GHz band” to “26.17.2.2 Beacon frames in the 6 GHz band”

[044] 439.3, change “A 6 GHz AP shall respond with the next Beacon frame if the conditions specified in 11.1.4.3.4 (Criteria for sending a response) for beacon response are satisfied.” to ”A 6 GHz AP shall respond with the next Beacon frame if the conditions specified in 11.1.4.3.4 (Criteria for sending a response) are satisfied.”

[045] 446.51, change “26.17.6 ER beacon generation in an ER BSS” to “26.17.6 ER Beacon frame generation in an ER BSS”

[046] 446.53, change “An ER beacon is a Beacon frame carried in HE ER SU PPDU using” to “An ER Beacon frame is a Beacon frame carried in HE ER SU PPDU using”

[047] 446.55, change “An ER beacon provides additional link budget for downlink transmissions to compensate for the link budget” to “An ER Beacon frame provides additional link budget for downlink transmissions to compensate for the link budget”

[048] 281.60, change “dot11ColocatedRNRImplemented is true, dot11SSIDListImplemented(#20501) is true, the SSID List element is present in the Probe Request frame and includes the SSID corresponding to an AP that is co-located with the STA and the AP is reported by the STA in a Reduced Neighbor Report element in Beacons and Probe Responses according to the rules defined in 26.17.2.4 (Out of band discovery of a 6 GHz BSS).” to “dot11ColocatedRNRImplemented is true, dot11SSIDListImplemented(#20501) is true, the SSID List element is present in the Probe Request frame and includes the SSID corresponding to an AP that is co-located with the STA and the AP is reported by the STA in a Reduced Neighbor Report element in Beacon frames and Probe Response frames according to the rules defined in 26.17.2.4 (Out of band discovery of a 6 GHz BSS).”

### Style Guide 2.2 – true/false

Po-Kai

[001] 458.42, change “True” to “true” and “False” to “false”.

[002] 471.12, change “True” to “true” and “False” to “false”.

### Style Guide 2.3 – “is set to”

Po-Kai

[001] 68.38, change “If the TXVECTOR parameter UPLINK\_- FLAG is set to 0” to “If the TXVECTOR parameter UPLINK\_- FLAG is equal to 0”

[002] 68.40, change “If the TXVECTOR parameter UPLINK\_FLAG is set to 1” to “If the TXVECTOR parameter UPLINK\_FLAG is equal to 1”

[003] 85.54, change “If Unsolicited MFB subfield is set to 1,” to “If Unsolicited MFB subfield is equal to 1,”

[004] 110.24, change “when the GI And LTF Type subfield of the Common Info field is set to indicate either 2x HE-LTF + 1.6 μs GI or 4x HE-LTF + 3.2 μs GI,” to “when the GI And LTF Type subfield of the Common Info field indicates either 2x HE-LTF + 1.6 μs GI or 4x HE-LTF + 3.2 μs GI,”

[005] 157.57, change “When the TBTT Information Field Type subfield is set to 0” to “When the TBTT Information Field Type subfield is equal to 0”

[006] 178.29, change “If a non-AP STA operates with 20 MHz channel width and the(#20798) 20 MHz In 160/80+80 MHz HE PPDU subfield is set to 0,” to “If a non-AP STA operates with 20 MHz channel width and the(#20798) 20 MHz In 160/80+80 MHz HE PPDU subfield is equal to 0,”

[007] 178.33, change “If a non-AP STA operates with 20 MHz channel width and the(#20798) 20 MHz In 160/80+80 MHz HE PPDU subfield is set to 1,” to “If a non-AP STA operates with 20 MHz channel width and the(#20798) 20 MHz In 160/80+80 MHz HE PPDU subfield is equal to 1,”

[008] 178.24, change “If B2 set to 1” to “If B2 is equal to 1”

[009] 178.28, change “If B3 set to 1” to “If B3 is equal to 1”

[010] 178.45, change “If a non-AP STA operates with 20 MHz channel width and the 20 MHz In 160/80+80 MHz HE PPDU subfield is set to 0” to “If a non-AP STA operates with 20 MHz channel width and the 20 MHz In 160/80+80 MHz HE PPDU subfield is equal to 0”

[011] 184.9, change “if B0 of Supported Channel Width Set subfield is set to 1.” to “if B0 of Supported Channel Width Set subfield is equal to 1.”

[012] 184.18, change “if B2 of Supported Channel Width Set subfield is set to 1.” to “if B2 of Supported Channel Width Set subfield is equal to 1.”

[013] 184.27, change “if B2 of Supported Channel Width Set subfield is set to 1.” to “if B2 of Supported Channel Width Set subfield is equal to 1.”

[014] 184.38, change “if the HE SU PPDU With 1x HE-LTF And 0.8 μs GI subfield is set to 1,” to “if the HE SU PPDU With 1x HE-LTF And 0.8 μs GI subfield is equal to 1,”

[015] 184.40, change “if the HE ER SU PPDU With 1x HELTF And 0.8 μs GI subfield is set to 1” to “if the HE ER SU PPDU With 1x HELTF And 0.8 μs GI subfield is equal to 1”

[016] 184.49, change “if the HE SU PPDU With 1x HE-LTF And 0.8 μs GI subfield is set to 1” to “if the HE SU PPDU With 1x HE-LTF And 0.8 μs GI subfield is equal to 1”

[017] 184.52, change “if the HE ER SU PPDU With 1x HE-LTF And 0.8 μs GI subfield is set to 1” to “if the HE ER SU PPDU With 1x HE-LTF And 0.8 μs GI subfield is equal to 1”

[018] 186.8, change “if the PPE Thresholds Present subfield is set to 0.” to “if the PPE Thresholds Present subfield is equal to 0.”

[019] 186.24, change “if the PPE Thresholds Present subfield is set to 1.” to “if the PPE Thresholds Present subfield is equal to 1.”

[020] 187.47, change “if B2 of the Supported Channel Width Set subfield of the HE PHY Capabilities Information field is set to 1;” to “if B2 of the Supported Channel Width Set subfield of the HE PHY Capabilities Information field is equal to 1;”

[021] 187.57, change “if B2 of the Supported Channel Width Set subfield of the HE PHY Capabilities Information field is set to 1;” to “if B2 of the Supported Channel Width Set subfield of the HE PHY Capabilities Information field is equal to 1;”

[022] 188.12, change “if B3 of the Supported Channel Width Set subfield of the HE PHY Capabilities Information field is set to 1;” to “if B3 of the Supported Channel Width Set subfield of the HE PHY Capabilities Information field is equal to 1;”

[023] 188.24, change “if B3 of the Supported Channel Width Set subfield of the HE PHY Capabilities Information field is set to 1;” to “if B3 of the Supported Channel Width Set subfield of the HE PHY Capabilities Information field is equal to 1;”

[024] 189.38, change “if bit *k* of the RU Index Bitmask subfield (bit 3 + *k* of the PPE Thresholds field) is set to 1.” to “if bit *k* of the RU Index Bitmask subfield (bit 3 + *k* of the PPE Thresholds field) is equal to 1.”

[025] 189.39, change “if B0 of the RU Index Bitmask subfield (B3 of the PPE Thresholds field) is set to 1,” to “if B0 of the RU Index Bitmask subfield (B3 of the PPE Thresholds field) is equal to 1,”

[026] 189.42, change “If B0 of the RU Index Bitmask subfield is set to 0” to “If B0 of the RU Index Bitmask subfield is equal to 0”

[027] 192.61, change “if the Co-Hosted BSS subfield in HE Operation Parameters field is set to 1” to “if the Co-Hosted BSS subfield in HE Operation Parameters field is equal to 1”

[028] 196.56, change “If the Non-SRG Offset Present subfield is set to 1” to “If the Non-SRG Offset Present subfield is equal to 1”

[029] 196.64, change “If the SRG Information Present subfield is set to 1” to “If the SRG Information Present subfield is equal to 1”

[030] 197.24, change “if the corresponding bit of the bitmap is set to 1. If a bit in the bitmap is set to 0,” to “if the corresponding bit of the bitmap is equal to 1. If a bit in the bitmap is equal to 0,”

[031] 197.34, change “if the corresponding bit of the bitmap is set to 1. If a bit in the bitmap is set to 0” to “if the corresponding bit of the bitmap is equal to 1. If a bit in the bitmap is equal to 0”

[032] 263.39, change “If the Duration field value in the MAC header of an MPDU carried in an HE TB PPDU is set to 0” to “If the Duration field value in the MAC header of an MPDU carried in an HE TB PPDU is equal to 0”

[033] 290.15, change “If the Planned ESS subfield is set to 1” to “If the Planned ESS subfield is equal to 1”

[034] 290.24, change “If the Planned ESS subfield is set to 1,” to “If the Planned ESS subfield is equal to 1,”

[035] 299.18, change “if the GROUP\_ID parameter of the RXVECTOR has a value of 0 and the bit in the SRG Partial BSSID Bitmap field which corresponds to the numerical value of PARTIAL\_AID[0:5] of the RXVECTOR is set to 1” to “if the GROUP\_ID parameter of the RXVECTOR has a value of 0 and the bit in the SRG Partial BSSID Bitmap field which corresponds to the numerical value of PARTIAL\_AID[0:5] of the RXVECTOR is equal to 1”

[036] 299.24, change “if BSSID information from an MPDU of the PPDU is correctly received and the bit in the SRG Partial BSSID Bitmap field which corresponds to the numerical value of BSSID[39:44] is set to 1.” to “if BSSID information from an MPDU of the PPDU is correctly received and the bit in the SRG Partial BSSID Bitmap field which corresponds to the numerical value of BSSID[39:44] is equal to 1.”

[037] 299.29, change “if the bit in the SRG Partial BSSID Bitmap field that corresponds to the numerical value of bits [39:44] of the RA field of any correctly received MPDU from the PPDU is set to 1.” to “if the bit in the SRG Partial BSSID Bitmap field that corresponds to the numerical value of bits [39:44] of the RA field of any correctly received MPDU from the PPDU is equal to 1.”

[038] 299.34, change “if the bit in the SRG Partial BSSID Bitmap field that corresponds to the numerical value of bits [39:44] of the TA field of any correctly received MPDU from the PPDU is set to 1.” to “if the bit in the SRG Partial BSSID Bitmap field that corresponds to the numerical value of bits [39:44] of the TA field of any correctly received MPDU from the PPDU is equal to 1.”

[039] 299.40, change “if the bit in the SRG Partial BSSID Bitmap field that corresponds to the numerical value of bits [39:44] of the RA field of any correctly received MPDU from the PPDU is set to 1.” to “if the bit in the SRG Partial BSSID Bitmap field that corresponds to the numerical value of bits [39:44] of the RA field of any correctly received MPDU from the PPDU is equal to 1.”

[040] 318.51, change “When the Buffer Size field in the ADDBA Request frame is set to 0” to “When the Buffer Size field in the ADDBA Request frame is equal to 0”

[041] 319.10, change “If the LSB of the Fragment Number subfield of the BlockAck frame is set to 1” to “If the LSB of the Fragment Number subfield of the BlockAck frame is equal to 1”

[042] 336.30, change “if the Doppler subfield in the Common Info field of the Trigger frame is set to 1.” to “if the Doppler subfield in the Common Info field of the Trigger frame is equal to 1.”

[043] 341.51, change “If the CS Required subfield in a Trigger frame is set to 1,” to “If the CS Required subfield in a Trigger frame is equal to 1,”

[044] 353.57, change “If the Feedback Type subfield in the User Info field of the NFRP Trigger frame is set to 0,” to “If the Feedback Type subfield in the User Info field of the NFRP Trigger frame is equal to 0,”

[045] 370.3, change “if the Feedback Type field in the HE MIMO Control field of the preceding HE NDP Announcement frame is set to either SU or MU” to “if the Feedback Type field in the HE MIMO Control field of the preceding HE NDP Announcement frame is equal to either SU or MU”

[046] 379.7, change “The Trigger frame shall contain at least one User Info field addressed to a TWT scheduled STA whose TIM bit in the Beacon is set to 1” to “The Trigger frame shall contain at least one User Info field addressed to a TWT scheduled STA whose TIM bit in the Beacon is equal to 1”

[047] 410.50, change “If an RU is intended for an AP (i.e., the TXVECTOR parameter UPLINK\_FLAG is set to 1)” to “If an RU is intended for an AP (i.e., the TXVECTOR parameter UPLINK\_FLAG is equal to 1)”

[048] 423.39, change “if the bit N in the traffic indication virtual bitmap carried in the Partial Virtual Bitmap field of the current TIM element is set to 0” to “if the bit N in the traffic indication virtual bitmap carried in the Partial Virtual Bitmap field of the current TIM element is equal to 0”

[049] 434.1, change “if either B0 or B1 of the Supported Channel Width Set subfield of the HE Capabilities element is set to 1” to “if either B0 or B1 of the Supported Channel Width Set subfield of the HE Capabilities element is equal to 1”

[050] 441.8, change “If the OCT Recommended subfield is set to 1” to “If the OCT Recommended subfield is equal to 1”

[051] 447.12, change “HE BSSs(#20439) that are not part of a multiple BSSID set (i.e., dot11MultiBSSIDImplemented is set to false)” to “HE BSSs(#20439) that are not part of a multiple BSSID set (i.e., dot11MultiBSSIDImplemented is equal to false)”

[052] 467.26, change “If the CH\_BANDWIDTH parameter is set to CBW80” to “If the CH\_BANDWIDTH parameter is equal to CBW80”

[053] 467.34, change “If the CH\_BANDWIDTH parameter is set to CBW160” to “If the CH\_BANDWIDTH parameter is equal to CBW160”

[054] 500.40, change “when the Beam Change subfield in HE-SIG-A field is set to 1.” to “when the Beam Change subfield in HE-SIG-A field is equal to 1.”

[055] 500.43, change “when the Beam Change subfield in HE-SIG-A field is set to 1,” to “when the Beam Change subfield in HE-SIG-A field is equal to 1,”

[056] 501.30, change “when the Beam Change subfield in HE-SIG-A field is set to 0.” to “when the Beam Change subfield in HE-SIG-A field is equal to 0.”

[057] 501.33, change “if the Beam Change subfield in HE-SIG-A field is set to 0” to “if the Beam Change subfield in HE-SIG-A field is equal to 0”

[058] 502.37, change “if the SIGB DCM field in the HE-SIG-A field is set to 1” to “if the SIGB DCM field in the HE-SIG-A field is equal to 1”

[059] 503.5, change “if the DCM indication for the RU is set to 1” to “if the DCM indication for the RU is equal to 1”

[060] 504.1, change “if the DCM indication for the RU is set to 1.” to “if the DCM indication for the RU is equal to 1.”

[061] 526.63, change “if TXVECTOR parameter BEAM\_CHANGE is set to 1” to “if TXVECTOR parameter BEAM\_CHANGE is equal to 1”

[062] 527.1, change “if TXVECTOR parameter BEAM\_CHANGE is set to 0” to “if TXVECTOR parameter BEAM\_CHANGE is equal to 0”

[063] 534.12, change “if the Beam Change field is set to 1.” to “if the Beam Change field is equal to 1.”

[064] 534.19, change “if the Beam Change field is set to 0.” to “if the Beam Change field is equal to 0.”

[065] 536.8, change “if the Beam Change field is set to 0.” to “if the Beam Change field is equal to 0.”

[066] 536.36, change “if the Coding field is set to 0.” to “if the Coding field is equal to 0.”

[067] 540.7, change “If the HE-SIG-B Compression field is set to 0,” to “If the HE-SIG-B Compression field is equal to 0,”

[068] 540.29, change “If the HE-SIG-B Compression field is set to 1,” to “If the HE-SIG-B Compression field is equal to 1,”

[069] 541.7, change “if TXVECTOR parameter TXOP\_DURATION is set to UNSPECIFIED.” to “if TXVECTOR parameter TXOP\_DURATION is equal to UNSPECIFIED.”

[070] 541.28, change “If the Doppler field is set to 0,” to “If the Doppler field is equal to 0,”

[071] 541.36, change “If the Doppler field is set to 1” to ” If the Doppler field is equal to 1”

[072] 547.7, change “if TXVECTOR parameter TXOP\_DURATION is set to UNSPECIFIED.” to “if TXVECTOR parameter TXOP\_DURATION is equal to UNSPECIFIED.”

[073] 553.1, change “If the SIGB Compression field in the HE-SIG-A field of an HE MU PPDU is set to 1 (indicating full bandwidth MU-MIMO transmission),” to “If the SIGB Compression field in the HE-SIG-A field of an HE MU PPDU is equal to 1 (indicating full bandwidth MU-MIMO transmission),”

[074] 553.4, change “If the SIGB Compression field in the HE-SIG-A field of an HE MU PPDU is set to 0” to “If the SIGB Compression field in the HE-SIG-A field of an HE MU PPDU is equal to 0”

[075] 553.25, change “if the SIGB Compression field in the HE-SIG-A field of an HE MU PPDU is set to 1” to “if the SIGB Compression field in the HE-SIG-A field of an HE MU PPDU is equal to 1”

[076] 553.41, change “if the Bandwidth field in the HE-SIG-A field is set to 0 or 1 (indicating a 20 MHz or 40 MHz HE MU PPDU) *N* = 2 if the Bandwidth field in the HE-SIG-A field is set to 2, 4, or 5 (indicating an 80 MHz HE MU PPDU) *N* = 4 if the Bandwidth field in the HE-SIG-A field is set to 3, 6, or 7 (indicates a 160 MHz or 80+80 MHz HE MU PPDU)” to “if the Bandwidth field in the HE-SIG-A field is equal to 0 or 1 (indicating a 20 MHz or 40 MHz HE MU PPDU) *N* = 2 if the Bandwidth field in the HE-SIG-A field is equal to 2, 4, or 5 (indicating an 80 MHz HE MU PPDU) *N* = 4 if the Bandwidth field in the HE-SIG-A field is equal to 3, 6, or 7 (indicates a 160 MHz or 80+80 MHz HE MU PPDU)”

[077] 554.9, change “The Center 26-tone RU field is present if the Bandwidth field in the HE-SIG-A field is set to indicate a bandwidth greater than 40 MHz and not present otherwise” to “The Center 26-tone RU field is present if the Bandwidth field in the HE-SIG-A field indicates a bandwidth greater than 40 MHz and not present otherwise(#Ed).

[078] 554.13, change “If the Bandwidth field in the HE-SIG-A field is set to 2, 4 or 5 (indicating 80 MHz):” to “If the Bandwidth field in the HE-SIG-A field is equal to 2, 4 or 5 (indicating 80 MHz):”

[079] 554.21 change “If the Bandwidth field in the HE-SIG-A field is set to 3, 6 or 7 (indicating 160 MHz or 80+80 MHz):” to “If the Bandwidth field in the HE-SIG-A field is equal to 3, 6 or 7 (indicating 160 MHz or 80+80 MHz):”

[080] 560.1 change “If the Bandwidth field of the HE-SIG-A field in an HE MU PPDU is set to 2, 4 or 5” to “If the Bandwidth field of the HE-SIG-A field in an HE MU PPDU is equal to 2, 4 or 5”

[081] 560.5, change “If the Bandwidth field of the HE-SIG-A field in an HE MU PPDU is set to 3, 6 or 7” to “If the Bandwidth field of the HE-SIG-A field in an HE MU PPDU is equal to 3, 6 or 7”

[082] 560.59, change “If the SIB Compression subfield in the HE-SIG-A field of an HE MU PPDU is set to 0,” to “If the SIB Compression subfield in the HE-SIG-A field of an HE MU PPDU is equal to 0,”

[083] 560.62, change “If the SIGB Compression field in the HE-SIG-A field of an HE MU PPDU is set to 1” to “If the SIGB Compression field in the HE-SIG-A field of an HE MU PPDU is equal to 1”

[084] 561.1, change “If the SIGB Compression field in the HE-SIG-A field of an HE MU PPDU is set to 1 (indicating full bandwidth MU-MIMO transmission) and the Number Of HE-SIG-B Symbols Or MU-MIMO Users field in the HE-SIG-A field of an HE MU PPDU is set to 0” to “If the SIGB Compression field in the HE-SIG-A field of an HE MU PPDU is equal to 1 (indicating full bandwidth MU-MIMO transmission) and the Number Of HE-SIG-B Symbols Or MU-MIMO Users field in the HE-SIG-A field of an HE MU PPDU is equal to 0”

[085] 561.40, change “If the SIGB Compression field in the HE-SIG-A field of an HE MU PPDU is set to 0,” to “If the SIGB Compression field in the HE-SIG-A field of an HE MU PPDU is equal to 0,”

[086] 561.46, change “If the SIGB Compression field in the HE-SIG-A field of an HE MU PPDU is set to 1” to “If the SIGB Compression field in the HE-SIG-A field of an HE MU PPDU is equal to 1”

[087] 561.64, change “If the SIGB Compression field in the HE-SIG-A field of an HE MU PPDU is set to 0,” to “If the SIGB Compression field in the HE-SIG-A field of an HE MU PPDU is equal to 0,”

[088] 562.4, change “If the Bandwidth field in HE-SIG-A is set to 0 or 1,” to “If the Bandwidth field in HE-SIG-A is equal to 0 or 1,”

[089] 562.8, change “If the Bandwidth field in HE-SIG-A is set to 2, 4 or 5,” to “If the Bandwidth field in HE-SIG-A is equal to 2, 4 or 5,”

[090] 562.15, change “If the Bandwidth field in HE-SIG-A is set to 3, 6 or 7” to “If the Bandwidth field in HE-SIG-A is equal to 3, 6 or 7”

[091] 562.27, change “the SIGB Compression field in the HE-SIG-A field of an HE MU PPDU is set to 1,” to “the SIGB Compression field in the HE-SIG-A field of an HE MU PPDU is equal to 1,”

[092] 562.30, change “If the SIGB Compression field in the HE-SIG-A field of an HE MU PPDU is set to 0,” to “If the SIGB Compression field in the HE-SIG-A field of an HE MU PPDU is equal to 0,”

[093] 562.35, change “if the SIGB Compression field in the HE-SIG-A field of an HE MU PPDU is set to 1,” to “if the SIGB Compression field in the HE-SIG-A field of an HE MU PPDU is equal to 1,”

[094] 562.47, change “If the Bandwidth field in the HE-SIG-A field of an HE MU PPDU (see Table 27-20 (HE-SIG-A field of an HE MU PPDU)) is set to 4 or 5” to “If the Bandwidth field in the HE-SIG-A field of an HE MU PPDU (see Table 27-20 (HE-SIG-A field of an HE MU PPDU)) is equal to 4 or 5”

[095] 562.53, change “If the Bandwidth field in the HE-SIG-A field of an HE MU PPDU is set to 6 or 7” to “If the Bandwidth field in the HE-SIG-A field of an HE MU PPDU is equal to 6 or 7”

[096] 564.62, change “If the SIGB Compression field in the HE-SIG-A field is set to 0” to “If the SIGB Compression field in the HE-SIG-A field is equal to 0”

[097] 564.16, change “If the STA-ID subfield is set to 2046” to “If the STA-ID subfield is equal to 2046”

[098] 564.50, change “If the STA-ID subfield is set to 2046,” to “If the STA-ID subfield is equal to 2046,”

[099] 565.1, change “If the SIGB Compression field in the HE-SIG-A field is set to 0” to “If the SIGB Compression field in the HE-SIG-A field is equal to 0”

[100] 565.9, change “If the SIGB Compression field in the HE-SIG-A field is set to 1,” to “If the SIGB Compression field in the HE-SIG-A field is equal to 1,”

[101] 569.39, change “If the Bandwidth field in the HE-SIG-A field of an HE MU PPDU (see Table 27-20 (HE-SIG-A field of an HE MU PPDU)) is set to” to “If the Bandwidth field in the HE-SIG-A field of an HE MU PPDU (see Table 27-20 (HE-SIG-A field of an HE MU PPDU)) is equal to”

[102] 569.47, change “If the Bandwidth field in the HE-SIG-A field of an HE MU PPDU (see Table 27-20 (HE-SIG-A field of an HE MU PPDU)) is set to 6 or 7” to “If the Bandwidth field in the HE-SIG-A field of an HE MU PPDU (see Table 27-20 (HE-SIG-A field of an HE MU PPDU)) is equal to 6 or 7”

[103] 614.46, change “If the Doppler field of the HE-SIG-A field is set to 1 in an HE SU PPDU, HE ER SU PPDU, or HE MU PPDU, or if the Doppler subfield in the Common Info field in the Trigger frame preceding an HE TB PPDU is set to 1,” to “If the Doppler field of the HE-SIG-A field is equal to 1 in an HE SU PPDU, HE ER SU PPDU, or HE MU PPDU, or if the Doppler subfield in the Common Info field in the Trigger frame preceding an HE TB PPDU is equal to 1,”

[104] 615.49, change “if the Doppler field of HE-SIG-A field is set to 1” to “if the Doppler field of HE-SIG-A field is equal to 1”

[105] 648.34, change “In addition, if the FORMAT parameter is NON\_HT and the NON\_HT\_MODULATION parameter is set to OFDM” to “In addition, if the FORMAT parameter is NON\_HT and the NON\_HT\_MODULATION parameter is equal to OFDM”

[106] 648.38, change “If the FORMAT parameter is NON\_HT and the NON\_HT\_MODULATION parameter is set to NON\_HT\_DUP\_OFDM” to “If the FORMAT parameter is NON\_HT and the NON\_HT\_MODULATION parameter is equal to NON\_HT\_DUP\_OFDM”

[107] 654.42, change “If the check of the parity bit is valid and the RATE field is set to 6 Mb/s in non-HT” to “If the check of the parity bit is valid and the RATE field is equal to 6 Mb/s in non-HT”

### Style Guide 2.4.1 – Information Elements/subelements – Naming

Po-Kai

No findings.

### Style Guide 2.4.2 – Definition Conventions

Po-Kai

[001] 206.20, change “The Element Id, Length and Element Id Extension fields(#20489) are defined in 9.4.2.1 (General).” to “The Element ID, Length and Element ID Extension fields(#20489) are defined in 9.4.2.1 (General).”

### Style Guide 2.6 – Removal of functions and features

Po-Kai

[001] 324.60, change “The AP follows the MPDU aggregation rules in 26.6 (A-MPDU operation in an HE PPDU),(#20027) which obsolete the rules in 10.24.2.7 (Sharing an EDCA TXOP).” to “The AP follows the MPDU aggregation rules in 26.6 (A-MPDU operation in an HE PPDU),(#20027) which supersede the rules in 10.24.2.7 (Sharing an EDCA TXOP).”

[002] 334.8, change “If the PPDU contains frames that are not Trigger frames in addition to a Trigger frame, then the AP follows the MPDU aggregation rules in 26.6 (A-MPDU operation in an HE PPDU)(#20027), which obsoletes the rules in 10.24.2.7 (Sharing an EDCA TXOP).” to “If the PPDU contains frames that are not Trigger frames in addition to a Trigger frame, then the AP follows the MPDU aggregation rules in 26.6 (A-MPDU operation in an HE PPDU)(#20027), which supersedes the rules in 10.24.2.7 (Sharing an EDCA TXOP).”

### Style Guide 2.7 – Capitalization

Po-Kai

[001] 55.26, change “Indicates information on BSS Color Change.” to “Indicates information on BSS color change.”

[002] 58.19, change “Indicates information on BSS Color Change.” to “Indicates information on BSS color change.”

[003] 61.19, change “Indicates information on BSS Color Change.” to “Indicates information on BSS color change.”

[004] 64.19, change “Indicates information on BSS Color Change.” to “Indicates information on BSS color change.”

[005] 153.61, change “BSS Color Collision” to “BSS color collision”. Change the reference to this event correspondingly.

[006] 153.63, change “BSS Color In Use” to ” BSS color in use”. Change the reference to this event correspondingly.

[007] 154.31, change “The Event Report field for a BSS Color Collision event report is 8 octets” to “The Event Report field for a BSS color collision event report is 8 octets”

[008] 399.11, change “order to help determine the BSS Color information of the neighboring APs” to “order to help determine the BSS color information of the neighboring APs”

[009] 443.39, change “An HE AP shall set the TXVECTOR parameter BSS\_COLOR of an HE PPDU to the existing BSS Color.” to “An HE AP shall set the TXVECTOR parameter BSS\_COLOR of an HE PPDU to the existing BSS color.”

[010] 653.62, change “BSS Color” to “BSS color” in Figure 27-63

[011] 654.8, change “(i.e., BSS Color value and STA-ID in the BSS)” to “(i.e., BSS color value and STA-ID in the BSS)”

[012] 654.60, change “the PHY entity shall report TXOP, BSS Color and check Format field,” to “the PHY entity shall report TXOP, BSS color and check Format field,”

[013] 655.38, change “The PHY entity shall check CRC of the HE-SIG-A field. If the CRC check is valid, the PHY entity shall report TXOP, BSS Color, and continue to receive HE-STF. The PHY entity shall report to the MAC entity the predicted duration of the TXOP in HE-SIG-A.” to “The PHY entity shall check CRC of the HE-SIG-A field. If the CRC check is valid, the PHY entity shall report TXOP, BSS color, and continue to receive HE-STF. The PHY entity shall report to the MAC entity the predicted duration of the TXOP in HE-SIG-A.”

[014] 656.21, change “If the CRC check is valid, the PHY entity shall report TXOP, BSS Color, and continue to receive HE-SIG-B.” to “If the CRC check is valid, the PHY entity shall report TXOP, BSS color, and continue to receive HE-SIG-B.”

[015] 440.58, change “If the 6 GHz AP reported in a TBTT Information field in a Reduced Neighbor Report is not part of a multiple BSSID set, then the BSS Parameters subfield shall be included with the Multiple BSSID subfield set to 0. If the 6 GHz AP reported in a TBTT Information field in a Reduced Neighbor Report is a transmitted BSSID, then the BSS Parameters subfield shall be included with the Multiple BSSID subfield set to 1 and the Transmitted BSSID subfield set to 1. If the 6 GHz AP reported in a TBTT Information field in a Reduced Neighbor Report is a nontransmitted BSSID, then the BSS Parameters subfield shall be included with the Multiple BSSID subfield set to 1 and the Transmitted BSSID subfield set to 0.” to

“If the 6 GHz AP reported in a TBTT Information field in a Reduced Neighbor Report element is not part of a multiple BSSID set, then the BSS Parameters subfield shall be included with the Multiple BSSID subfield set to 0. If the 6 GHz AP reported in a TBTT Information field in a Reduced Neighbor Report element is a transmitted BSSID, then the BSS Parameters subfield shall be included with the Multiple BSSID subfield set to 1 and the Transmitted BSSID subfield set to 1. If the 6 GHz AP reported in a TBTT Information field in a Reduced Neighbor Report element is a nontransmitted BSSID, then the BSS Parameters subfield shall be included with the Multiple BSSID subfield set to 1 and the Transmitted BSSID subfield set to 0.”

[016] 151.17, change “Co-located AP” to “Co-Located AP” to align with the naming of revmd and Neighbor AP Information field. Change the reference to the name correspondingly.

[017] 420.19, change “Intra-PPDU power save is the power save mechanism for an HE STA to enter the doze state or become unavailable until the end of a received PPDU that is identified as an Intra-BSS frame” to “Intra-PPDU power save is the power save mechanism for an HE STA to enter the doze state or become unavailable until the end of a received PPDU that is identified as an intra-BSS frame”

### Style Guide 2.8 – Terminology: frame vs packet vs PPDU vs MPDU

Po-Kai

[001] 482.38, change “UL MU transmissions are preceded by a triggering frame(#21348) from the AP.” to “UL MU transmissions are preceded by a PPDU that carries a triggering frame(#21348) from the AP.”

[002] 493.4, change “UL MU transmissions are preceded by a Trigger frame or frame carrying a TRS Control subfield from the AP.” to “UL MU transmissions are preceded by a PPDU that carrying a Trigger frame or a frame carrying a TRS Control subfield from the AP.”

[003] 497.41, change “The format of the HE TB PPDU is defined as in Figure 27-11 (HE TB PPDU format). This format is used for a transmission that is a response to a triggering frame” to ”The format of the HE TB PPDU is defined as in Figure 27-11 (HE TB PPDU format). This format is used for a transmission that is a response to a PPDU that carries a triggering frame”

[004] 499.31, change “Transmissions of frames with TXVECTOR parameter NO\_SIG\_EXTN equal to false are followed by a period of no transmission for a duration of aSignalExtension. See 10.3.8 (Signal extension).” to “Transmissions of PPDUs with TXVECTOR parameter NO\_SIG\_EXTN equal to false are followed by a period of no transmission for a duration of aSignalExtension. See 10.3.8 (Signal extension).”

[005] 75.32, change “that contains an MPDU that solicits a response in an HE TB PPDU” to “that contains a frame that solicits a response carrying in an HE TB PPDU”

[006] 75.46, change “that contains an MPDU that solicits a response in an HE TB PPDU” to “that contains a frame that solicits a response carrying in an HE TB PPDU”

[007] 75.51, change “The frame is carried in an HE MU PPDU, HE SU PPDU or HE ER SU PPDU that contains an MPDU (#20281)that solicits a response in an HE TB PPDU” to “The frame is carried in an HE MU PPDU, HE SU PPDU or HE ER SU PPDU that contains a frame (#20281)that solicits a response carrying in an HE TB PPDU”

[008] 88.13, change “(including the MSDUs or A-MSDUs in the same PSDU as the MPDU containing the BSR Control subfield)” to “(including the MSDUs or A-MSDUs in the same PSDU as the frame containing the BSR Control subfield)”

[009] 89.63, change “The SR PPDU subfield indicates whether the PPDU carrying the MPDU carrying the CAS Control subfield is an SR PPDU.” to “The SR PPDU subfield indicates whether the PPDU carrying the frame containing the CAS Control subfield is an SR PPDU.”

[010] 172.51, change “For a non-AP STA, indicates support for receiving an MPDU that contains a TRS Control subfield.” to “For a non-AP STA, indicates support for receiving a frame that contains a TRS Control subfield.”

[011] 173.6, change “For an AP, indicates support for receiving an MPDU that contains a BSR Control subfield. For a non- AP STA, indicates support for generating an MPDU that contains a BSR Control subfield.” to “For an AP, indicates support for receiving a frame that contains a BSR Control subfield. For a non- AP STA, indicates support for generating a frame that contains a BSR Control subfield.”

[012] 173.51, change “Indicates support for receiving an MPDU that contains an OM Control subfield.” to “Indicates support for receiving a frame that contains an OM Control subfield.”

[013] 174.58, change “For an AP, indicates support for receiving an MPDU that contains a BQR Control subfield. For a non- AP STA, indicates support for generating an MPDU that contains a BQR Control subfield.” to “For an AP, indicates support for receiving a frame that contains a BQR Control subfield. For a non- AP STA, indicates support for generating a frame that contains a BQR Control subfield.”

[014] 270.26, change “Transmission of an MPDU by an HE RD initiator that contains a CAS Control subfield with the RDG/More PPDU subfield equal to 1 indicates that the duration indicated by the Duration/ID field is available for the RD response burst and RD initiator final PPDU (if present).” to “Transmission of a frame by an HE RD initiator that contains a CAS Control subfield with the RDG/More PPDU subfield equal to 1 indicates that the duration indicated by the Duration/ID field is available for the RD response burst and RD initiator final PPDU (if present).”

[015] 271.24, change “Transmitting a control response frame aggregated with other MPDUs with the RDG/More PPDU subfield set to 0” to “Transmitting a control response frame aggregated with other frames with the RDG/More PPDU subfield set to 0”

[016] 299.24, change “A received PPDU that is an inter-BSS PPDU is an SRG PPDU if BSSID information from an MPDU of the PPDU is correctly received and the bit in the SRG Partial BSSID Bitmap field which corresponds to the numerical value of BSSID[39:44] is set to 1.” to “A received PPDU that is an inter-BSS PPDU is an SRG PPDU if BSSID information from a frame of the PPDU is correctly received and the bit in the SRG Partial BSSID Bitmap field which corresponds to the numerical value of BSSID[39:44] is set to 1.”

[017] 299.28, change

“A VHT PPDU that is received with RXVECTOR parameter GROUP\_ID equal to 0 is an SRG PPDU if the bit in the SRG Partial BSSID Bitmap field that corresponds to the numerical value of bits [39:44] of the RA field of any correctly received MPDU from the PPDU is set to 1.

A VHT PPDU that is received with RXVECTOR parameter GROUP\_ID equal to 63 is an SRG PPDU if the bit in the SRG Partial BSSID Bitmap field that corresponds to the numerical value of bits [39:44] of the TA field of any correctly received MPDU from the PPDU is set to 1.

An HE SU PPDU, HE ER SU PPDU or HE MU PPDU that is received with the RXVECTOR parameter UPLINK\_FLAG equal to 1 is an SRG PPDU if the bit in the SRG Partial BSSID Bitmap field that corresponds to the numerical value of bits [39:44] of the RA field of any correctly received MPDU from the PPDU is set to 1.”

To

“A VHT PPDU that is received with RXVECTOR parameter GROUP\_ID equal to 0 is an SRG PPDU if the bit in the SRG Partial BSSID Bitmap field that corresponds to the numerical value of bits [39:44] of the RA field of any correctly received frame from the PPDU is set to 1.

A VHT PPDU that is received with RXVECTOR parameter GROUP\_ID equal to 63 is an SRG PPDU if the bit in the SRG Partial BSSID Bitmap field that corresponds to the numerical value of bits [39:44] of the TA field of any correctly received frame from the PPDU is set to 1.

An HE SU PPDU, HE ER SU PPDU or HE MU PPDU that is received with the RXVECTOR parameter UPLINK\_FLAG equal to 1 is an SRG PPDU if the bit in the SRG Partial BSSID Bitmap field that corresponds to the numerical value of bits [39:44] of the RA field of any correctly received frame from the PPDU is set to 1.”

[018] 329.31, change “An AP that sends a BFRP Trigger frame shall allocate sufficient resources for the HE TB PPDU response form each HE beamformee to include all the solicited feedback, including feedback that is segmented and including an HT Control field in each MPDU.” to ” An AP that sends a BFRP Trigger frame shall allocate sufficient resources for the HE TB PPDU response form each HE beamformee to include all the solicited feedback, including feedback that is segmented and including an HT Control field in each frame.”

[019] 332.14, change “A TRS Control subfield shall not be included in a group addressed MPDU.” to ” A TRS Control subfield shall not be included in a group addressed frame.”

[020] 333.63, change “If an AP receives an immediate response with at least one MPDU from at least one non-AP STA solicited by a Trigger frame or frame carrying a TRS Control subfield, the frame exchange is successful.” to ” If an AP receives an immediate response with at least one frame from at least one non-AP STA solicited by a Trigger frame or frame carrying a TRS Control subfield, the frame exchange is successful.”

[021] 334.1, change “”If an AP does not receive an immediate response with at least one MPDU from at least one non-AP STA solicited by a PPDU that contains at least one Trigger frame, then the frame exchange is not successful and the AP shall follow the backoff procedure in 10.24.2.2 (EDCA backoff procedure)(#20416).” to “If an AP does not receive an immediate response with at least one frame from at least one non-AP STA solicited by a PPDU that contains at least one Trigger frame, then the frame exchange is not successful and the AP shall follow the backoff procedure in 10.24.2.2 (EDCA backoff procedure)(#20416).”

[022] 334.30, change “The received PPDU contains either a Trigger frame (that is not an MU-RTS variant) with a User Info field addressed to the non-AP STA, or an MPDU addressed to the non-AP STA that contains an TRS Control subfield.” to “The received PPDU contains either a Trigger frame (that is not an MU-RTS variant) with a User Info field addressed to the non-AP STA, or a frame addressed to the non-AP STA that contains an TRS Control subfield.”

[023] 338.5, change “The RA field of the MPDUs sent in response of a GCR MU-BAR Trigger frame or MU-BAR Trigger frame is set as defined in 9.3.1.8 (BlockAck frame format).” to “The RA field of the frames sent in response of a GCR MU-BAR Trigger frame or MU-BAR Trigger frame is set as defined in 9.3.1.8 (BlockAck frame format).”

[024] 338.40, change “A non-AP STA that responds to a DL MU PPDU containing MPDU(s) addressed to it that include TRS Control subfield(s)” to “A non-AP STA that responds to a DL MU PPDU containing frame(s) addressed to it that include TRS Control subfield(s)”

[025] 340.31, change “in the UPH Control subfield of MPDUs carried in the HE TB PPDU” to “in the UPH Control subfield of frames carried in the HE TB PPDU”

[026] 340.57, change “A non-AP STA shall include an HE variant HT Control field containing the UPH Control subfield in the MPDUs carried in the A-MPDU of the HE TB PPDU unless one of the following apply:

— The remaining space in the A-MPDU, after inclusion of solicited MPDUs that cannot contain an HE variant HT Control field, is not sufficient to contain MPDU(s) that contain an HE variant HT Control field.

— The non-AP STA includes other Control fields in the HE variant HT Control field and the available space in the HE variant HT Control field is not sufficient to contain an additional UPH Control subfield.

— The MPDU is a Control frame.

” to

“A non-AP STA shall include an HE variant HT Control field containing the UPH Control subfield in the frames carried in the A-MPDU of the HE TB PPDU unless one of the following apply:

— The remaining space in the A-MPDU, after inclusion of solicited frames that cannot contain an HE variant HT Control field, is not sufficient to contain frame(s) that contain an HE variant HT Control field.

— The non-AP STA includes other Control fields in the HE variant HT Control field and the available space in the HE variant HT Control field is not sufficient to contain an additional UPH Control subfield.

— The frame is a Control frame.”

[027] 341.3, change “A non-AP STA shall not include a Control subfield with a Control ID subfield set to 15 in the HE variant HT Control field of the MPDUs carried in an HE TB PPDU.” to ” A non-AP STA shall not include a Control subfield with a Control ID subfield set to 15 in the HE variant HT Control field of the frames carried in an HE TB PPDU.”

[028] 347.34, change “If a non-AP STA transmits an HE TB PPDU that contains an MPDU that solicits an immediate response in an RA-RU and the expected response is not received, the transmission is considered unsuccessful.” to “If a non-AP STA transmits an HE TB PPDU that contains a frame that solicits an immediate response in an RA-RU and the expected response is not received, the transmission is considered unsuccessful.”

[029] 374.23, change “NOTE 2—The Trigger frame can also be a TRS Control subfield contained in an MPDU carried in a DL MU PPDU, provided that the AP allocates enough resources in the HE TB PPDU for the STA to at least deliver its BSRs in response to the soliciting DL MU PPDU, and is recommended to allocate enough resources in subsequent Trigger frames sent during the TWT SP so that the STA can send as much as possible of the data reported in the BSR.” to “NOTE 2—The Trigger frame can also be a TRS Control subfield contained in a frame carried in a DL MU PPDU, provided that the AP allocates enough resources in the HE TB PPDU for the STA to at least deliver its BSRs in response to the soliciting DL MU PPDU, and is recommended to allocate enough resources in subsequent Trigger frames sent during the TWT SP so that the STA can send as much as possible of the data reported in the BSR.”

[030] 378.45, change “NOTE 2—The Trigger frame can also be a TRS Control subfield contained in an MPDU carried in a DL MU PPDU, provided that the AP allocates enough resources in the HE TB PPDU for the STA to at least deliver its BSRs in response to the soliciting DL MU PPDU, and is recommended to allocate enough resources in subsequent Trigger frames sent during the TWT SP so that the STA can send as much as possible of the data reported in the BSR.” to “NOTE 2—The Trigger frame can also be a TRS Control subfield contained in a frame carried in a DL MU PPDU, provided that the AP allocates enough resources in the HE TB PPDU for the STA to at least deliver its BSRs in response to the soliciting DL MU PPDU, and is recommended to allocate enough resources in subsequent Trigger frames sent during the TWT SP so that the STA can send as much as possible of the data reported in the BSR.”

[031] 393.55, change “NOTE—An OM Control field is transmitted before an Operating Mode field in the same MPDU.” to “NOTE—An OM Control field is transmitted before an Operating Mode field in the same frame.”

[032] 409.60, change “An HE STA that identifies an SRP opportunity shall not transmit an MPDU during the SRP opportunity that elicits a response transmission from a STA from which it has not received an HE Capabilities element with the SRP Responder subfield equal to 1.” to “An HE STA that identifies an SRP opportunity shall not transmit a frame during the SRP opportunity that elicits a response transmission from a STA from which it has not received an HE Capabilities element with the SRP Responder subfield equal to 1.”

[033] 409.63, change “An HE STA that identifies an SRP opportunity shall not transmit an MPDU that does not include a CAS Control subfield(#20960) with the SR PPDU subfield set to 1 and that solicits a response transmission during that SRP opportunity.” to “An HE STA that identifies an SRP opportunity shall not transmit a frame that does not include a CAS Control subfield(#20960) with the SR PPDU subfield set to 1 and that solicits a response transmission during that SRP opportunity.”

[034] 410.3, change “An HE STA that receives a PPDU which contains at least one MPDU with a CAS Control subfield with an(#20960) SR PPDU subfield equal to 1 shall not transmit a response PPDU elicited by the received PPDU if all outstanding SRP and OBSS PD transmit power requirements are not met by the response transmission.” to “An HE STA that receives a PPDU which contains at least one frame with a CAS Control subfield with an(#20960) SR PPDU subfield equal to 1 shall not transmit a response PPDU elicited by the received PPDU if all outstanding SRP and OBSS PD transmit power requirements are not met by the response transmission.”

[035] 411.15, change “A STA transmitting an HE PPDU containing MPDUs that are addressed(#20710) to an AP shall set the TXVECTOR parameter UPLINK\_FLAG to 1 unless the HE PPDU is an HE ER SU PPDU with the TXVECTOR parameter TXOP\_DURATION set to UNSPECIFIED and contains an RTS or CTS frame in which case the STA may set the TXVECTOR parameter UPLINK\_FLAG to 0.” to “A STA transmitting an HE PPDU containing frames that are addressed(#20710) to an AP shall set the TXVECTOR parameter UPLINK\_FLAG to 1 unless the HE PPDU is an HE ER SU PPDU with the TXVECTOR parameter TXOP\_DURATION set to UNSPECIFIED and contains an RTS or CTS frame in which case the STA may set the TXVECTOR parameter UPLINK\_FLAG to 0.”

[036] 413.28, change “NOTE—For a TXOP responder, the Duration field in the MAC header of an MPDU carried in the response PPDU is set based on the Duration field in the MAC header of an MPDU carried in the soliciting PPDU as described in 9.2.5.7 (Setting for control response frames) or 9.2.5.8 (Setting for other response frames).” to ” NOTE—For a TXOP responder, the Duration field in the MAC header of a frame carried in the response PPDU is set based on the Duration field in the MAC header of a frame carried in the soliciting PPDU as described in 9.2.5.7 (Setting for control response frames) or 9.2.5.8 (Setting for other response frames).”

[037] 418.12, change “A STA transmitting an HE PPDU that carries a broadcast MPDU shall set the value of the TXVECTOR parameter NOMINAL\_PACKET\_PADDING to 16 μs. A STA transmitting an HE PPDU that carries a group addressed, but not broadcast, MPDU shall not set the value of the TXVECTOR parameter NOMINAL\_ PACKET\_PADDING to a value which is less than that required for any of the recipients in the multicast group.(#21209)” to “A STA transmitting an HE PPDU that carries a broadcast frame shall set the value of the TXVECTOR parameter NOMINAL\_PACKET\_PADDING to 16 μs. A STA transmitting an HE PPDU that carries a group addressed, but not broadcast, a frame shall not set the value of the TXVECTOR parameter NOMINAL\_ PACKET\_PADDING to a value which is less than that required for any of the recipients in the multicast group.(#21209)”

[038] 420.7, change “from the HE non-AP STA in response to a Trigger frames and MPDUs containing TRS Control fields addressed to it.” to “from the HE non-AP STA in response to a Trigger frames and frames containing TRS Control fields addressed to it.”

[039] 427.7, change “An HE STA that sends a Control frame in response to a frame carried in an HE SU PPDU or an HE ER SU PPDU or an HE MU PPDU that carries an MPDU with the Normal Ack or Implicit BAR ack policy(#20545)” to “An HE STA that sends a Control frame in response to a frame carried in an HE SU PPDU or an HE ER SU PPDU or an HE MU PPDU that carries a frame with the Normal Ack or Implicit BAR ack policy(#20545)”

[040] 427.16, change “NOTE—A preamble punctured HE MU PPDU can't carry an MPDU with Normal Ack or Implicit BAR ack policy(# 20545) if the solicited PPDU containing a control response occupies one ore more punctured 20 MHz channels of the preamble punctured HE MU PPDU (see 26.4.4.3 (Responding to an HE MU PPDU with an SU PPDU)).” to “NOTE—A preamble punctured HE MU PPDU can't carry a frame with Normal Ack or Implicit BAR ack policy(# 20545) if the solicited PPDU containing a control response occupies one ore more punctured 20 MHz channels of the preamble punctured HE MU PPDU (see 26.4.4.3 (Responding to an HE MU PPDU with an SU PPDU)).”

[041] 436.52, change “A 6 GHz HE STA shall not transmit in an HE PPDU an MPDU other than an HE Compressed Beamforming/ CQI frame (” to “A 6 GHz HE STA shall not transmit in an HE PPDU a frame other than an HE Compressed Beamforming/ CQI frame (”

[042] 442.50, change

“— A non-AP HE STA should use the Address 1, Address 2(#20064) and Duration/ID fields of the MPDUs contained in the received HE PPDUs instead of the RXVECTOR parameters BSS\_COLOR and TXOP\_DURATION to determine whether the STA should update the intra-BSS NAV.

— A non-AP HE STA should use the Address 1, Address 2 fields(#20064) of the MPDUs contained in the received HE PPDUs instead of the RXVECTOR parameters BSS\_COLOR and STA\_ID\_LIST to determine whether the STA may go to doze state for the duration of that PPDU (see 26.14.1 (Intra-PPDU power save for non-AP HE STAs)).

” to

“— A non-AP HE STA should use the Address 1, Address 2(#20064) and Duration/ID fields of the frames contained in the received HE PPDUs instead of the RXVECTOR parameters BSS\_COLOR and TXOP\_DURATION to determine whether the STA should update the intra-BSS NAV.

— A non-AP HE STA should use the Address 1, Address 2 fields(#20064) of the frames contained in the received HE PPDUs instead of the RXVECTOR parameters BSS\_COLOR and STA\_ID\_LIST to determine whether the STA may go to doze state for the duration of that PPDU (see 26.14.1 (Intra-PPDU power save for non-AP HE STAs)).

”

[043] 444.28, change “The STA shall declare that a color collision has occurred if it receives, on its associated AP’s primary channel, an MPDU with at least three Address fields in the MAC header” to “The STA shall declare that a color collision has occurred if it receives, on its associated AP’s primary channel, a frame with at least three Address fields in the MAC header”

[044] 538.50, change “NOTE—The TDLS peer can identify the TDLS frame by To DS and From DS fields in the MAC header of the MPDU.” to “NOTE—The TDLS peer can identify the TDLS frame by To DS and From DS fields in the MAC header of the frame.”

[045] 179.30, change “Indicates support for the transmission and reception of LDPC encoded packets.” to “Indicates support for the transmission and reception of LDPC encoded PPDUs.”

[046] 353.57, change “If the Feedback Type subfield in the User Info field of the NFRP Trigger frame is set to 0, a STA that is scheduled may send an NDP feedback report response in order to signal to the AP that it has packets in its queues” to “If the Feedback Type subfield in the User Info field of the NFRP Trigger frame is set to 0, a STA that is scheduled may send an NDP feedback report response in order to signal to the AP that it has frames in its queues”

[047] 594.21, change “The LDPC Coding In Payload subfield of the HE Capabilities element indicates support for the transmission and reception of the LDPC encoded packets.” to “The LDPC Coding In Payload subfield of the HE Capabilities element indicates support for the transmission and reception of the LDPC encoded PPDUs.”

[048] change “packet detect” to “PPDU detect” across the draft

[049] change “packet detection” to “PPDU detection” across the draft

### Style Guide 2.9 – Use of verbs & problematic words

Carol

#### normative, non-normative, ensure

#### which/that

#### articles

#### missing nouns

#### unnecessary nouns

#### unicast and multicast

### Style Guide 2.10 – Numbers

Carol

### Style Guide 2.11 – Maths operators and relations

Carol

### Style Guide 2.12 – Hyphenation

Carol

### Style Guide 2.13 – References to SAP primitives

### Style Guide 2.14 – References to the contents of a field/subfield

### Style Guide 2.15 – References to MIB variables/attributes

### Style Guide 2.16 – Hanging Paragraphs

### Style Guide 2.17 – Abbreviations

### Style Guide 2.18 – Format for code/pseudocode

### Style guide 3 – Style applicable to specific Clauses

Edward

#### Definitions (Clause 3)

#### General Description (Clause 4)

#### Frame formats (Clause 9) – shall or may?

#### SAP interfaces (Clause 6)

#### New top level clauses

#### Annex A – Bibliography

Not applicable

#### Annex B – PICS

#### Annex G – Frame exchange sequences

## ANA

Check for correct use of numbers against database.

Check names against database (update database if names have changed).

Robert Stacey

## MIB

Conformance to 09/533r1 and 15/355r13 – Mark Hamilton

### Detailed proposed changes

Annex C of TGax Draft 4.1 has been added on top of Annex C of REVmd D2.1 and Annex C of TGay Draft 3.1. It is embedded as REVmdD2\_1\_An\_C\_plus\_TGayD3\_1\_An\_C\_plus\_TGaxD4\_2\_An\_C\_old.txt file in the below.

And, the correct MIB file is embedded as REVmdD2\_1\_An\_C\_plus\_TGayD3\_1\_An\_C\_plus\_TGaxD4\_2\_An\_C\_new.txt file in the below.

REVmdD2\_1\_An\_C\_plus\_TGayD3\_1\_An\_C\_plus\_TGaxD4\_2\_An\_C\_diff.txt file shows the different between two files.







**ACTION ITEM: TGax Editor changes Annex C as the following:**

Dot11HEStationConfigEntry ::=

SEQUENCE {

…

dot11SRGAPOBSSPDMinOffset Integer32,

dot11SRGAPOBSSPDMaxOffset Integer32,

dot11SRGAPBSSColorBitmap OCTET STRING ~~(SIZE(8))~~,

dot11SRGAPBSSIDBitmap OCTET STRING ~~(SIZE(8))~~,

dot11NonSRGAPOBSSPDMaxOffset Integer32,(#20337)

dot11HTVHTTriggerOptionImplemented TruthValue,

}

dot11HEMCSFeedbackOptionImplemented OBJECT-TYPE

SYNTAX INTERGER {none(0), unsolicited(2), solicited~~\_~~and~~\_~~unsolicited(3)}

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This is a capability variable.

Its value is determined by device capabilities.

This attribute indicates the HE-MCS feedback capability supported by the station implementation."

DEFVAL { 0 }

::= { dot11HEStationConfigEntry 6}

dot11HEDynamicFragmentationLevel OBJECT-TYPE

~~SYNTAX INTEGER{ HEDynamicFragmentationLevel1(1), HEDynamicFragmentationLevel2(2), HEDynamicFragmentationLevel3(3)}~~

SYNTAX INTEGER { hedynamicfragmentationlevel1(1), hedynamicfragmentationlevel2(2), hedynamicfragmentationlevel3(3)}

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This is a capability variable.

Its value is determined by device capabilities.

HEDynamicFragmentationLevel1 indicates support for up to one dynamic fragment that is a non-A-MPDU frame(#20464), no support for dynamic fragments within an A-MPDU that does not contain an S-MPDU(#21303).

HEDynamicFragmentationLevel2 indicates support for up to one dynamic fragment that is a non-A-MPDU frame(#20464) and support for up to one dynamic fragment for each MSDU, each A-MSDU (if supported by the recipient) and one MMPDU (if present(#20435)) within an A-MPDU that does not contain an S-MPDU(#21303).

HEDynamicFragmentationLevel3 indicates support for up to one dynamic fragment that is a non-A-MPDU frame(#20464) and support for up to 4 dynamic fragments for each MSDU and for each A-MSDU (if supported by the recipient) within an A-MPDU and up to one dynamic fragment for one MMPDU (if present(#20435)) in an A-MPDU that does not contain an S-MPDU(#21303)"

::= { dot11HEStationConfigEntry 7}

dot11SRGAPOBSSPDMinOffset OBJECT-TYPE

SYNTAX Integer32

UNITS "dBm"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This is a control variable.

It is written by an external management entity.

Changes take effect as soon as practical in the implementation.

This attribute indicates the SRG OBSS PD Min Offset for an AP."

DEFVAL { 0 }

::= { dot11HEStationConfigEntry 29}

dot11SRGAPOBSSPDMaxOffset OBJECT-TYPE

SYNTAX Integer32

UNITS "dBm"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This is a control variable.

It is written by an external management entity.

Changes take effect as soon as practical in the implementation.

This attribute indicates the SRG OBSS PD Max Offset for an AP."

DEFVAL { 0 }

::= { dot11HEStationConfigEntry 30}

dot11NonSRGAPOBSSPDMaxOffset OBJECT-TYPE

SYNTAX Integer32

UNITS "dBm"

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This is a control variable.

It is written by an external management entity.

Changes take effect as soon as practical in the implementation.

This attribute indicates the Non SRG OBSS PD Max Offset for an AP."

DEFVAL { 0 }

::= { dot11HEStationConfigEntry 33}(#20337, #20338)

Dot11PPEThresholdsMappingsEntry ::= SEQUENCE {

dot11PPEThresholdsMappingIndex Unsigned32,

dot11PPEThresholdsMappingNSS ~~Integer~~ Unsigned32,

dot11PPEThresholdsMappingRUIndex ~~Integer~~ Unsigned32,

dot11PPEThresholdsMappingPPET8 ~~Integer~~ Unsigned32,

dot11PPEThresholdsMappingPPET16 ~~Integer~~ Unsigned32,

dot11PPEThresholdsMappingStatus RowStatus}

dot11PPEThresholdsMappingNSS OBJECT-TYPE

SYNTAX ~~Integer~~Unsigned32

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The NSS value portion of the NSS/RU pair for which the values from this

Thresholds mapping entry are to be used."

::= { dot11PPEThresholdsMappingsEntry 2 }

dot11PPEThresholdsMappingRUIndex OBJECT-TYPE

SYNTAX ~~Integer~~Unsigned32

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"The index of the RU value portion of the NSS/RU pair for which the values

from this Thresholds mapping entry are to be used. The index values

map to an RU as follows: RU Index of 0 is 996 tones, 1 is 448 tones,

2 is 996 tones, 3 is 2x996 tones."

::= { dot11PPEThresholdsMappingsEntry 3 }

dot11PPEThresholdsMappingPPET8 OBJECT-TYPE

SYNTAX ~~TruthValue~~Unsigned32

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"An index that determines a constellation value at or above which a

nominal packet padding(#20882) value of at least

8 microseconds is required for the given NSS/RU pair

corresponding to the row of the entry. The index values are mapped

as follows: 0 is BPSK, 1 is QPSK, 2 is 16-QAM, 3 is 64-QAM,

4 is 256-QAM, 5 is 1024-QAM, 6 is reserved, 7 is the special

value of NONE."

::= { dot11PPEThresholdsMappingsEntry 4 }

dot11PPEThresholdsMappingPPET16 OBJECT-TYPE

SYNTAX ~~TruthValue~~Unsigned32

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"An index that determines a constellation value at or above which a

nominal packet padding(#20882) value of 16 microseconds

is required for the given NSS/RU pair corresponding to the row of the

entry. The index values are mapped as follows: 0 is BPSK, 1 is QPSK,

2 is 16-QAM, 3 is 64-QAM, 4 is 256-QAM, 5 is 1024-QAM, 6 is reserved,

7 is the special value of NONE."

::= { dot11PPEThresholdsMappingsEntry 5 }

Need Discussion:

dot11AMPDUwithMultipleTIDOptionImplemented is duplicatly used in TGax and TGay amendements.

Recommendation is to change dot11AMPDUwithMultipleTIDOptionImplemented in TGax amendement to dot11HEAMPDUwithMultipleTIDOptionImplemented, and dot11AMPDUwithMultipleTIDOptionImplemented in TGay amendement to dot11EDMGAMPDUwithMultipleTIDOptionImplemented.

--Editor Note: EDMG already used dot11PHYType 14.

dot11PHYType OBJECT-TYPE

SYNTAX INTEGER {

fhss(1),

dsss(2),

irbaseband(3),

ofdm(4),

hrdsss(5),

erp(6),

ht(7)

dmg(8),

vht(9),

tvht(10),

s1g(11),

cdmg(12),

cmmg(13),

he (~~14~~15)}

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This is a status variable.

It is written by the PHY.

This is an 8-bit integer value that identifies the PHY type supported by the attached PLCP and PMD. Currently defined values and their corresponding PHY types are:

FHSS 2.4 GHz = 01, DSSS 2.4 GHz = 02, IR Baseband = 03,

OFDM = 04, HRDSSS = 05, ERP = 06, HT = 07, DMG = 08, VHT = 09,

TVHT = 10, S1G = 11, CDMG = 12, CMMG = 13, HE = ~~14~~15"(#21039)

::= { dot11PhyOperationEntry 1 }

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

-- \* dot11 Phy HE TABLE

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

dot11~~HE~~PhyHETable OBJECT-TYPE

SYNTAX SEQUENCE OF Dot11PhyHEEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Entry of attributes for dot11PhyHETable. Implemented as a table indexed

on ifIndex to allow for multiple instances on an Agent."

::= { dot11phy 31 }

Dot11PhyHEEntry ::=

SEQUENCE {

dot11HECCAIndicationMode INTEGER,

dot11HECurrentChannelWidthSet Unsigned32,

dot11HEPuncturedPreambleRxImplemented ~~Unsigned32~~OCTET STRING,

dot11HEPuncturedPreambleRxActivated ~~Unsigned32~~OCTET STRING,

…

dot11HEMidambleRxMaxNSTS(#20565) Unsigned32 ~~(0..3)~~,

dot11HEPuncturedPreambleRxImplemented OBJECT-TYPE

SYNTAX OCTET STRING(~~Size~~SIZE(2))

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This is a capability variable.

Its value is determined by device capabilities.

This attribute indicates the preamble prunctured channel, equal to 0 for the reception of an 80 MHz preamble where the secondary 20 MHz subchannel is punctured, equal to 1 for the reception of an 80 MHz preamble where one of the two 20 MHz subchannels in the secondary 40 MHz is punctured, equal to 2 for the reception of a 160 MHz or 80+80 MHz preamble where in the primary 80 MHz of the preamble only the secondary 20 MHz is punctured, and equal to 3 for the reception of a 160 MHz or 80+80 MHz preamble where in the primary 80 MHz of the preamble, the primary 40 MHz is present."

::= { dot11PhyHEEntry 3}

dot11HEPuncturedPreambleRxActivated OBJECT-TYPE

SYNTAX OCTET STRING(~~Size~~SIZE (2))

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"This is a control variable.

It is written by an external management entity.

Changes take effect as soon as practical in the implementation.

This attribute indicates the preamble prunctured channel, equal to 0 for the reception of an 80 MHz preamble where the secondary 20 MHz subchannel is punctured and that this has been enabled, equal to 1 for the reception of an 80 MHz preamble where one of the two 20 MHz subchannels in the secondary 40 MHz is punctured and that this has been enabled, equal to 2 for the reception of a 160 MHz or 80+80 MHz preamble where in the primary 80 MHz of the preamble only the secondary 20 MHz is punctured and that this has been enabled, and equal to 3 for the reception of a 160 MHz or 80+80 MHz preamble where in the primary 80 MHz of the preamble, the primary 40 MHz is present and that this has been enabled."

::= { dot11PhyHEEntry 4}

dot11HEPuncturedSoundingOptionImplemented OBJECT-TYPE(#20565)

SYNTAX TruthValue

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This is a capability variable.

Its value is determined by device capabilities.

This attribute, when true, indicates that the STA implementation is capable of operating in a mode where some 242-tone RUs are not allowed to be used within a channel of width 80 MHz or 160 MHz. The capability is disabled, otherwise"

DEFVAL { false }

::= { ~~dot11StationConfigEntry~~dot11PhyHEEntry 47}

Need Discussion: It looks like the following is an incomplete list. TGax edior please updates the dot11HEComplianceGroup based on the recent changes of MIB variables.

dot11HEComplianceGroup OBJECT-GROUP

OBJECTS {

dot11TRSOptionImplemented(#20043),

dot11ULMUMIMOOptionImplemented,

dot11OFDMARandomAccessOptionImplemented,

dot11HEControlFieldOptionImplemented,

dot11OMIOptionImplemented,

dot11HEMCSFeedbackOptionImplemented,

dot11HEDynamicFragmentation~~Implemented~~Level,

dot11AMPDUwithMultipleTIDOptionImplemented,

dot11MPDUAskedforAckInMultiTIDAMPDU,

dot11TXOPDurationRTSThreshold,

dot11PPEThresholdsRequired,

dot11IntraPPDUPowerSaveOptionActivated,

dot11PartialBSSColorImplemented,

dot11ObssNbRuToleranceTime,

dot11HESubchannelSelectiveTransmissionImplemented,

dot11SRResponderOptionImplemented}

STATUS current

DESCRIPTION

"Attributes that configure the HE Group for IEEE 802.11."

::= { dot11Groups 100 }

dot11PhyHEComplianceGroup OBJECT-GROUP

OBJECTS {

dot11HECurrentChannelWidthSet,

dot11HEPuncturedPreambleRxImplemented,

dot11HEPuncturedPreambleRxActivated,

dot11HEDeviceClass,

dot11HELDPCCodingInPayloadImplemented,

dot11HELDPCCodingInPayloadActivated,

dot11HESUPPDUwith1xHELTFand0point8GIlmplemented,

dot11HESUPPDUwith1xHELTFand0point8GIActivated,

dot11HESUPPDUandHEMUPPDUwith4xHELTFand0point8GIlmplemented,

dot11HESUPPDUandHEMUPPDUwith4xHELTFand0point8GIActivated,

dot11HEERSUPPDUwith4xHELTFand0point8GIImplemented,

dot11HEERSUPPDUwith4xHELTFand0point8GIActivated,

dot11HEERSUPPDUwith1xHELTFand0point8GIImplemented,

dot11HEERSUPPDUwith1xHELTFand0point8GIActivated,

dot11HEMidambleRxMaxNSTS,(#20565)

dot11HENDPwith4xHELTFand3point2GIImplemented,

dot11HENDPwith4xHELTFand3point2GIActivated,

~~dot11HESTBCTxImplemented,~~

~~dot11HESTBCTxActivated,~~

~~dot11HESTBCRxImplemented,~~

~~dot11HESTBCRxActivated,~~

dot11HESTBCTxLessThanOrEqualTo80Implemented,

dot11HESTBCTxLessThanOrEqualTo80Activated,

dot11HESTBCRxLessThanOrEqualTo80Implemented,

dot11HESTBCRxLessThanOrEqualTo80Activated,

dot11HESTBCTxGreaterThan80Implemented,

dot11HESTBCTxGreaterThan80Activated,

dot11HESTBCRxGreaterThan80Implemented,

dot11HESTBCRxGreaterThan80Activated,

dot11HEDopplerTxImplemented,

dot11HEDopplerTxActivated,

dot11HEDopplerRxImplemented,

dot11HEDopplerRxActivated,

dot11HEDCMImplemented,

dot11HEDCMActivated,

dot11HEFullBWULMUMIMOImplemented,

dot11HEFullBWULMUMIMOActivated,

dot11HEPartialBWULMUMIMOImplemented,

dot11HEPartialBWULMUMIMOActivated,

dot11HEPartialBWDLMUMIMOImplemented,

dot11HEPartialBWDLMUMIMOActivated,

dot11HEULMUPayloadImplemented,

dot11HEULMUPayloadActivated,

dot11HESRPbasedSRSupportImplemented,(#20565)

dot11HESRPbasedSRSupportActivated,(#20565)

dot11HEPowerBoostFactorImplemented,

dot11HEPowerBoostFactorActivated,

dot11HEPartialBWERSUPayloadImplemented,

dot11HEPartialBWERSUPayloadActivated }

STATUS current

DESCRIPTION

"Attributes that configure the HE PHY."

::= { dot11Groups 103 }

--Editor Note: REVmd changed dot11SMTbase13 to dot11SMTbase15. Please update the following accordingly.

dot11Compliance MODULE-COMPLIANCE

STATUS current

DESCRIPTION

"The compliance statement for SNMPv2 entities that implement the IEEE

802.11 MIB."

MODULE -- this module

MANDATORY-GROUPS {

~~dot11SMTbase13~~ dot11SMTbase14,

dot11MACbase4,

dot11CountersGroup4,

dot11SmtAuthenticationAlgorithms,

dot11ResourceTypeID,

dot11PhyOperationComplianceGroup2 }

# Collateral findings

# IEEE-SA MEC

At the time of writing this report, the IEEE-SA mandatory editorial coordination (MEC) is ongoing. When complete, the findings will be added to this report.

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