IEEE P802.11  
Wireless LANs

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 802.11  IEEE P802.11ax D4.2 Mandatory Draft Review (MDR) Report | | | | |
| Date: 2019-09-10 | | | | |
| 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.

r2: includes Edward and Carol’s findings.

r3: TG editor review with responses.

# 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

[RS: accepted]

[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”

[RS: accepted]

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

[RS: also, missing noun on TRS Control. Change to “Control Information subfield format in a TRS Control subfield”]

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

[RS: Change to “Control Information subfield format in an OM Control subfield”]

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

[RS: Change to “Control Information subfield format in an HLA Control subfield”]

[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”

[RS: accepted]

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

[RS: change to “Control Information subfield format in a BSR Control subfield”]

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

[RS: change to “Control Information subfield format in a UPH Control subfield”]

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

[RS: change to “Control Information subfield format in a BQR Control subfield”]

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

[RS: change to “Control Information subfield format in a CAS Control subfield”]

[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

[RS: accepted]

[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

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

[RS: accepted]

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

[RS: accepted]

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

[RS: accepted]

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

[RS: accepted]

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

[RS: accepted]

[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”

[RS: Accepted, but with “format in” instead of “format for”]

[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”

[RS: Change to “Trigger Dependent User Info subfield format in the BFRP variant”][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”

[RS: Accepted, but with “format in” instead of “format for”]

[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”

[RS: Accepted, but with “format in” instead of “format for”]

[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”

[RS: Accepted, but with “format in” instead of “format for”]

[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

[RS: accepted]

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

[RS: accepted]

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

[RS: accepted]

[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

[RS: accepted]

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

[RS: accepted]

[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”

[RS: accepted]

[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”

[RS: accepted]

[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”

[RS: accepted]

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

[RS: accepted]

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

[RS: accepted]

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

[RS: accepted]

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

[RS: accepted]

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

[RS: accepted]

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

[RS: accepted]

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

[RS: accepted]

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

[RS: accepted]

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

[RS: accepted]

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

[RS: accepted]

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

[RS: accepted]

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

[RS: accepted]

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

[RS: accepted]

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

[RS: accepted]

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

[RS: accepted]

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

[RS: accepted]

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

[RS: accepted]

### 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”

[RS: The term UL trigger information is no longer used (and not defined). Change to “A-MPDU with triggering frame”]

[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.”

[RS: accepted]

[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).”

[RS: accepted]

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

[RS: accepted]

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

[RS: accepted]

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

[RS: change to “BFRP Trigger frame”]

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

[RS: accepted]

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

[RS: accepted]

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

[RS: accepted]

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

[RS: accepted]

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

[RS: accepted]

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

[RS: accepted]

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

[RS: accepted]

[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”

[RS: accepted]

[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”

[RS: accepted]

[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”

[RS: accepted]

[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.”

[RS: accepted]

[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”

[RS: accepted]

[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”

[RS: accepted]

[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”

[RS: accepted]

[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,”

[RS: accepted]

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

[RS: accepted]

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

[RS: change to “BFRP Trigger frame”]

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

[RS: accepted]

[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),”

[RS: appears to have been fixed]

[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”

[RS: missing conjunction: change to “Signaling of STA capabilities in Probe Request frames and (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).”

[RS: appears to have been fixed. No change]

[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).”

[RS: appears to have been fixed. No change]

[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.”

[RS: change to “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)).”

[RS: accepted]

[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.”

[RS: Also, no attecedent for “the HE ER SU PPDU”. change “beaconing using the HE ER SU PPDU” to “transmitting Beacon frames using an HE ER SU PPDU”]

[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)”

[RS: the term ER beacon has been defined. no change]

[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)”

[RS: the term ER beacon has been defined. no change]

[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.”

[RS: accept]

[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.”

[RS: beacon is defined and is a more general term than Beacon frame, which is a specific type of beacon. No change.]

[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.”

[RS: beacon is defined and is a more general term than Beacon frame, which is a specific type of beacon. No change.]

[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:”

[RS: beacon is defined and is a more general term than Beacon frame, which is a specific type of beacon. No change.]

[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”

[RS: ER beacon is defined. No change.]

[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”

[RS: HE SU beacon is defined. No change.]

[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.

[RS: accepted. Change present in D4.3]

[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”

[RS: “beacon” is a widely used term. No change.]

[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.”

[RS: accepted]

[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”

[RS: ER beacon is defined. No change]

[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”

[RS: Capitilzation is only used on frame names. ER beacon is not a frame name, it is a term.]

[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”

[RS: ER beacon is defined. No change.]

[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).”

[RS: appears to be fixed in D4.3]

### 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”.

[RS: accepted]

### Style Guide 2.3 – “is set to”

Po-Kai

In general, “if <parameter> is equal to <something>” is unnecessary and “if <parameter> is <something>” is sufficient.

[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”

[RS: change to “is 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”

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

[RS: change to “If the Unsolicited MFB subfield is 1” (adding “the”)]

[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,”

[RS: accepted]

[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”

[RS: accepted]

[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,”

[RS: In this case, the condition is how the STA operates. No change.]

[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,”

[RS: In this case, the condition is how the STA operates. No change.]

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

[RS: change to “If B2 is 1, then B1 is set to 1”]

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

[RS: change to “If B2 is 1, then B1 is set 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”

[RS: change “is set to 0” to “is 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.”

[Change to “is 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.”

[Change to “is 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.”

[Change to “is 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,”

[RS: Change to “is 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”

[RS: Change to “is 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”

[RS: Change to “is 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”

[RS: Change to “is 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.”

[RS: Change to “is 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;”

[RS: Change to “is 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;”

[RS: Change to “is 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;”

[RS: Change to “is 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;”

[RS: Change to “is 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.”

[RS: Change to “is 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,”

[RS: Change to “is 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”

[RS: Change to “is 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”

[RS: Change to “is 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”

[RS: Change to “is 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”

[RS: Change to “is 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,”

[RS: Change to “is 1” and “is 0”, respectively][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”

[RS: Change to “is 1” and “is 0”, respectively]

[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”

[RS: change to “is 0”]

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

[RS: change to “is 1”]

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

[RS: change to “is 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”

[RS: change to “is 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.”

[RS: change to “is 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.”

[RS: change to “is 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.”

[RS: change to “is 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.”

[RS: change to “is 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”

[RS: Change to “is 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”

[RS: Change to “is 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.”

[RS: Change to “is 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,”

[RS: Change to “is 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,”

[RS: Change to “is 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”

[RS: change to “indicates 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”

[RS: Change to “is 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)”

[RS: Change to “is 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”

[RS: change to “is 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”

[RS: change to “is 1”]

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

[RS: change to “is 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)”

[RS: change to “is false”]

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

[RS: delete “set to”]

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

[RS: delete “set to”]

[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.”

[RS: delete “set to”][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,”

[RS: delete “set to”]

[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.”

[RS: delete “set to”]

[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”

[RS: delete “set to”]

[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”

[RS: “DCM indication” is not a field. DCM is either indicated or not indicated. Change sentence to read: “The DCM tone mapper, which is part of the constellation mapper, is applied only if DCM is indicated for the RU.”]

[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.”

[RS: See previous.]

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

[RS: Delete “set to”]

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

[RS: delete “set to”]

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

[RS: delete “set to”]

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

[RS: delete “set to”]

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

[RS: delete “set to”]

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

[RS: delete “set to”]

[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,”

[RS: delete “set to”]

[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,”

[RS: delete “set to”]

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

[RS: delete “set to”]

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

[RS: delete “set to”]

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

[RS: delete “set to”]

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

[RS: delete “set to”]

[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),”

[RS: delete “set to”]

[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”

[RS: delete “set to”]

[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”

[RS: delete “set to”]

[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)”

[RS: delete “set to”]

[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).

[RS: accepted]

[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):”

[RS: delete “set to”]

[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):”

[RS: delete “set to”]

[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”

[RS: delete “set to”]

[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”

[RS: delete “set to”]

[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,”

[RS: delete “set to”]

[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”

[RS: delete “set to”]

[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”

[RS: delete “set to”]

[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,”

[RS: delete “set to”]

[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”

[RS: delete “set to”]

[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,”

[RS: delete “set to”]

[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,”

[RS: delete “set to”]

[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,”

[RS: delete “set to”]

[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”

[RS: delete “set to”]

[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,”

[RS: delete “set to”]

[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,”

[RS: delete “set to”]

[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,”

[RS: delete “set to”]

[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”

[RS: delete “set to”]

[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”

[RS: delete “set to”]

[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”

[RS: delete “set to”]

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

[RS: delete “set to”]

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

[RS: delete “set to”]

[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”

[RS: delete “set to”]

[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,”

[RS: delete “set to”]

[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”

[RS: delete “set 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”

[RS: delete “set to”]

[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,”

[RS: delete “set to”]

[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”

[RS: delete “set to”]

[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”

[RS: delete “set to”]

[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”

[RS: delete “set to”]

[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”

[RS: Change to “the RATE field indicates 6 Mb/s”]

### 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).”

[RS: accepted]

### 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).”

[RS: accepted]

[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).”

[RS: accepted]

### 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.”

[RS: 1-4 accepted]

[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.

[RS: 5-6 rejected. Names are capitalized. In this case the name of an event. See ack policy, for example.]

][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”

[RS: accepted]

[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”

[RS: accepted]

[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.”

[RS: accepted]

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

[RS: accepted. Also added missing hyphen on “HE SIG-A”. Deleted “set to” in “RATE is set to 6 Mb/s”]

[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)”

[RS: accepted]

[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,”

[RS: accepted]

[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.”

[RS: accepted]

[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.”

[RS: accepted]

[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.”

[RS: accepted]

[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.

[RS: accepted. Changed throughout. Also, consistently use “Member Of ESS With 2.4/5 GHz Co-Located AP” (not capitalization and space after “2.4/5”)]

[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”

[RS: corrected with #20308]

### 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”

[RS: 1-3 rejected. I think these changes are unnecessary. We often refer to frames in OTA sequences without reference to the PPDU carrying them][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).”

[RS: Also, make singular and avoid “with no transmission”. change to “A PPDU transmitted with the TXVECTOR parameter NO\_SIG\_EXTN set to false is followed by a period of duration aSignalExtension without transmission.”

[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”

[RS: accepted]

[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”

[RS: accepted]

[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”

[RS: accepted]

[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)”

[RS: accepted]

[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.”

[RS: Also fix grammar. Change sentence to “The SR PPDU subfield indicates whether or not the PPDU carrying the frame with 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.”

[RS: “that contains” is cumbersome. Change to “For a non-AP STA, indicates support for receiving a frame with 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.”

[RS: “that contains” is cumbersome. Change to “For an AP, indicates support for receiving a frame with a BSR Control subfield. For a non-AP STA, indicates support for generating a frame with 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.”

[RS: “that contains” is cumbersome. Change to “Indicates support for receiving a frame with 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.”

[RS: “that contains” is cumbersome. Change to “For an AP, indicates support for receiving a frame with a BQR Control subfield. For a non-AP STA, indicates support for generating a frame with 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).”

[RS: accepted]

[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”

[RS: accepted]

[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.”

[RS: accepted]

[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.”

[RS: accepted]

[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.”

[RS: accepted]

[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.”

[RS: accepted]

[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).”

[RS: accepted]

[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.”

[RS: accepted]

[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).”

[RS: accepted]

[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)”

[RS: Also, fix the number. There are one or more frames each of which has a single TRS Control field. Change to “A non-AP STA that responds to a DL MU PPDU containing one or more frames addressed to it that include a TRS Control subfield…”]

[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”

[RS: accepted]

[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.”

[RS: It looks like D4.3 has modifications to these statements. These modifications have grammatical issues, most significantly “No UPH Control subfield is included”. Change “No UPH Control subfield is included” to “A UPH Control subfield is not included”. With the corrections for MPDU, the statement should read:

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 with the following exceptions:

* A UPH Control subfield is not included in any frame if 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.
* A UPH Control subfield is not included in a frame if the other Control subfields in the HE variant HT Control field and the available space in the HE variant HT Control field, other than Control subfields with a Control ID subfield equal to 15, are included in the HE variant HT Control field of the frame, is not sufficient to contain an additional UPH Control subfield as well.
* A UPH Control subfield is not included in a frame that 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.”

[RS: accepted]

[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.”

[RS: accepted]

[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.”

[RS: accepted (I’ll ignore the factually incorrect “The Trigger frame can also be a TRS Control subfield”)]

[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.”

[RS: accepted]

[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.”

[RS: accepted]

[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.”

[RS: accepted]

[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.”

[RS: accepted]

[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.”

[RS: accepted]

[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.”

[RS: accepted]

[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).”

[RS: appears to be fixed in D4.3]

[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)”

[RS: change to “broadcast frame” and “group addressed, but not broadcast, frame” respectively]

[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.”

[RS: appears to be fixed in D4.3]

[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)”

[RS: accepted]

[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)).”

[RS: accepted]

[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 (”

[RS: accepted]

[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)).

”

[RS: accepted]

[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”

[RS: accepted]

[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.”

[RS: accepted]

[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.”

[RS: accepted. All occurances of “LDPC endocded packets” changed to “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”

[RS: accepted]

[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.”

[RS: accepted]

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

[RS: rejected: the term “packet detect” is not defined. “PPDU detect” is also not defined, so we should leave the term as “packet detect” until the technical meaning is clarified]

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

[RS: rejected: the use of “packet detection level” in this definition is ambiguous and remains so when changed to “PPDU detection level”. This is a technical error, so we should leave it as “packet detection level” until the meaning is clarified]

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

Carol

#### normative, non-normative, ensure

#### p.153.26 change “Each Nontransmitted BSSID Profile subelement only contains elements for a BSS with a nontransmitted BSSID.” to: “Each Nontransmitted BSSID Profile subelement contains only elements for a BSS with a nontransmitted BSSID.”

#### [RS: accepted]

#### p.237.20 change “NOTE 1—A non-AP HE STA maintains two NAVs, but an HE AP might only maintain one NAV (see 26.2.4 (Updating two NAVs)).” to “NOTE 1—A non-AP HE STA maintains two NAVs, but an HE AP might maintain only one NAV (see 26.2.4 (Updating two NAVs)).”

#### [RS: accepted]

#### p.274.50 change “The requesting STA can send a new request, but will only receive an Accept TWT if it uses the dictated TWT parameters.” to “The requesting STA can send a new request, but will receive an Accept TWT only if it uses the dictated TWT parameters.”

#### [RS: accepted]

p. 367.32 change “NOTE 2—Partial BW feedback can only be solicited with an HE TB sounding sequence and cannot be solicited with an HE non-TB sounding sequence.” to “NOTE 2—Partial BW feedback shall be solicited with an HE TB sounding sequence and shall not be solicited with an HE non-TB sounding sequence.**”**

[RS: rejected. We can’t have normative requirements in a note. I think the intent here is to inform the reader on the implications of a normative requirement stated elsewhere. “Can” is appropriate here because it means “is allowed to” in this context.]

p.369.34 change “In this case the HE beamformee can only repeat the entire non-TB sounding sequence.” to “In this case the HE beamformee shall repeat the entire non-TB sounding sequence.”

[RS: rejected. Informative statement. “Can” is appropriuate here and means “is allowed to”]

p.383.33 change “The TWT scheduled STA can send a new request, but will only receive an Accept TWT if it uses the dictated TWT parameters.” to “The TWT scheduled STA can send a new request, but will receive an Accept TWT only if it uses the dictated TWT parameters.”

[RS: accepted]

p.385.23 change “A TWT scheduled STA should only send frames that satisfy the Broadcast TWT Recommendation subfield recommendations in Table 9-298a” to “A TWT scheduled STA should not send frames that do not satisfy the Broadcast TWT Recommendation subfield recommendations in Table 9-298a”

[RS: accepted (only is inappropriate here because it could be interpreted to mean the STA cannot do anything else)]

p478 Figure 27-1 change “A 20 MHz-only non-AP HE STA only supports VHT transmission on 20 MHz channel width” to “A 20 MHz-only non-AP HE STA supports VHT transmission only on 20 MHz channel width”

p478 Figure 27-1 change “A 20 MHz-only non-AP HE STA only supports HT transmission on 20 MHz channel width” to “A 20 MHz-only non-AP HE STA supports HT transmission only on 20 MHz channel width”

[RS: accepted (both changes)]

p478 Figure 27-2 change “Receive Procedure (A 20 MHz-only non-AP HE STA only supports HT PHY reception on 20 MHz channel width)” to “Receive Procedure (A 20 MHz-only non-AP HE STA supports HT PHY reception only on 20 MHz channel width)”

p478 Figure 27-2 change “Receive Procedure (A 20 MHz-only non-AP HE STA only supports VHT PHY reception on 20 MHz channel width)” to “Receive Procedure (A 20 MHz-only non-AP HE STA supports VHT PHY reception only on 20 MHz channel width)”

[RS: accepted (both changes)]

p516.10 change “An HE ER SU PPDU with a 242-tone RU can only be transmitted with the <HE-MCS, NSS> tuples <MCS 0, 1>, <MCS 1, 1> and <MCS 2, 1>.” to “An HE ER SU PPDU with a 242-tone RU shall be transmitted with the <HE-MCS, NSS> tuples <MCS 0, 1>, <MCS 1, 1> and <MCS 2,1>.”

[RS: accepted]

p516.12 change “An HE ER SU PPDU with a 106-tone RU can only be transmitted with the <HE-MCS, NSS> tuple <MCS 0, 1>.” to “An HE ER SU PPDU with a 106-tone RU shall be transmitted with the <HE-MCS, NSS> tuple<MCS 0, 1>.”

[RS: accepted]

555.15 change “each user is only described by one User field,” to “each user is described by only one User field,”

[RS: accepted]

588.35 change “and then only transmitting(#21394) the first ¼ of the OFDM symbol in the time domain” to “and then transmitting(#21394) only the first quarter of the OFDM symbol in the time domain”

[RS: accepted]

588.55 change “and then only transmitting(#21394) the first half” to “and then transmitting(#21394) only the first half”

[RS: accepted]

614.41 change “Midambles are only inserted if NSTS ≤ 4.” to “Midambles are inserted only if

NSTS ≤ 4.”

[RS: accepted]

change “The HE-STF and the pre-HE modulated fields are only transmitted on the 20 MHz channel where the STA is assigned” to “The HE-STF and the pre-HE modulated fields are transmitted only on the 20 MHz channel where the STA is assigned”

[RS: accepted]

#### which/that

87.39 change “It is up to the non-AP STA that reports the buffer status to determine which queue deserves higher priority with respect to the other queues” to “It is up to the non-AP STA that reports the buffer status to determine the queue that deserves higher priority with respect to the other queues”

89.22 change “The Available Channel Bitmap subfield contains a bitmap indicating which subchannels are available at the STA transmitting the BQR.” to “The Available Channel Bitmap subfield contains a bitmap indicating the subchannels available at the STA transmitting the BQR.”

[RS: accepted]

95.22 change ”The subfieldsBAR Type subfield indicates which of the possible BlockAckReq frame variants is used” to “The subfieldsBAR Type subfield indicates the possible BlockAckReq frame variants used”

[RS: Change sentence to read: “The BAR Type subfield indicates the BlockAckReq frame variant as defined in Table 9-28.”]

96.49 change “The BA Type subfield of the BA Control field determines which of the possible BlockAck frame variants is represented” to “BA Type subfield of the BA Control field determines the possible BlockAck frame variants represented”

[RS: change to read: “The BA Type subfield in the BA Control field indicates the BlockAck frame variant as defined in Table 9-30 (BlockAck frame variant encoding).”]

107.20 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 and which 242-RUs are to be included in requested sounding feedback.” to “The Disallowed Subchannel Bitmap subfield indicates the 20 MHz subchannels and the 242-tone RUs

present in HE sounding NDPs(#20568) announced by the HE NDP Announcement and the 242-RUs to be included in requested sounding feedback.”

[RS: change to “indicates the 20 MHz subchannels and the 242-tone RUs that are present… and the 242-tone RUs that are…”]

134.35 change “A beamformer or beamformee, depending which of the two decides on the feedback parameters, reduces Ns” to “A beamformer or beamformee, depending upon which of the two selects the feedback parameters, reduces Ns”

[RS: change to “depending which of the two decides” to “depending upon which of the two dermines”]

155.28 change “that is under negotiation for the TID which is defined” to “that is under negotiation for the TID, which is defined”

[RS: change “for the TID which is defined” to “for the TID indicated”]

164.10 change “A TWT requesting or TWT scheduled STA requests to join a TWT and specifies a demanded set of TWT parameters which, if not accommodated by the responding STA or TWT scheduling AP will cause the TWT requesting STA or TWT scheduled STA to reject the TWT setup.” to “A TWT requesting or TWT scheduled STA requests to join a TWT and specifies a demanded set of TWT parameters. If the demanded set is not accommodated by the responding STA or TWT scheduling AP, the TWT requesting STA or TWT scheduled STA will reject the TWT setup.”

[RS: change to “A TWT requesting or TWT scheduled STA requests to join a TWT and specifies a demanded set of TWT parameters. If the demanded set of TWT parameters is not accommodated by the responding STA or TWT scheduling AP, then the TWT requesting STA or TWT scheduled STA will reject the TWT setup.”]

165.50 change “The TWT Flow Identifier subfield contains a 3-bit value which identifies the specific information for this TWT request” to “The TWT Flow Identifier subfield contains a 3-bit value that identifies the specific information for this TWT request”

[RS: accepted]

167.55 change “The value 0 in the Broadcast TWT ID subfield indicates the broadcast TWT whose membership corresponds to all STAs that are members of the BSS corresponding to the BSSID of the Management frame carrying the TWT element and which is permitted to contain Trigger frames with RA-RUs for unassociated STAs.” to ” The value 0 in the Broadcast TWT ID subfield indicates the broadcast TWT whose membership corresponds to all STAs that are members of the BSS corresponding to the BSSID of the Management frame carrying the TWT element and that is permitted to contain Trigger frames with RA-RUs for unassociated STAs.” (NOTE the phrase now starting with “that” is still vague, but I’m not sure what was originally meant)

[RS: accepted]

197.19 change “The SRG BSS Color Bitmap field is a bitmap that indicates which BSS color values are used by members of the SRG” to “The SRG BSS Color Bitmap field is a bitmap that indicates the BSS color values used by members of the SRG”

[RS: accepted]

197.28 change “The SRG Partial BSSID Bitmap field(#20296) is a bitmap that indicates which Partial BSSID values are used by members of the SRG” to “The SRG Partial BSSID Bitmap field(#20296) is a bitmap that indicates the Partial BSSID values used by members of the SRG”

[RS: accepted]

202.33 change “The Planned ESS subfield indicates whether the BSS is part of an ESS which is planned with several BSSs in an overlapping configuration.” to “The Planned ESS subfield indicates whether the BSS is part of an ESS that is planned with several BSSs in an overlapping configuration.”

[RS: accepted]

204.34 change “N is the number of busy events that occurred during the total measurement time which is less than or equal to dot11ChannelUtilizationBeaconIntervals consecutive beacon intervals” to “N is the number of busy events that occurred during the total measurement time, which is less than or equal to dot11ChannelUtilizationBeaconIntervals consecutive beacon intervals”

[RS: I believe this is a condition on the measurement time. Change “which” to “that”]

204.36 change “NRU is the number of RUs which are allocated within the BSS bandwidth during time interval Ti” to “NRU is the number of RUs allocated within the BSS bandwidth during time interval Ti”

[RS: change “which” to “that”]

227.56, 229.55, and 232.7 change “NOTE 1—MPDUs from the same TID all have the same ack policy, which is Implicit BAR, HTP Ack or Block Ack” to “NOTE 1—MPDUs from the same TID all have the same ack policy, which can be Implicit BAR, HTP Ack or Block Ack”

[RS: rejected, ok as written]

260.14 change “An AP can protect an immediate response by preceding the VHT MU PPDU or the HE MU PPDU (which might have TXVECTOR parameter NUM\_USERS > 1)” to “An AP can protect an immediate response by preceding the VHT MU PPDU or the HE MU PPDU, which might have TXVECTOR parameter NUM\_USERS > 1,”

[RS: I think this is ok as written. No need to change parethesis to commas]

268.62 change “the originator determines from the information provided in the BlockAck bitmap and from the missing BlockAck frames which, if any, A-MSDUs need to be retransmitted.” to “the originator determines from the information provided in the BlockAck bitmap and from the missing BlockAck frames the A-MSDUs, if any, that need to be retransmitted.”

[RS: accepted]

275.1 change “A TWT requesting STA indicates which single channel it desires to use as a temporary primary channel” to “A TWT requesting STA indicates the single channel it desires to use as a temporary primary channel”

[RS: accepted]

275.3 change “A TWT responding STA indicates which single channel the TWT requesting STA is permitted to use as a temporary primary channel” to “A TWT responding STA indicates the single channel the TWT requesting STA is permitted to use as a temporary primary channel”

[RS: accepted]

280.41 change “Each BSS of the Multiple BSSID set may have a different DTIM interval which is signaled in the DTIM Period and DTIM Count fields” to “Each BSS of the Multiple BSSID set may have a different DTIM interval signaled in the DTIM Period and DTIM Count fields”

[RS: it is probably better to break the sentence in two. Change to “Each BSS in the Multiple BSSID set may have a different DTIM interval. The DTIM interval is signaled in the DTIM Period and DTIM Count fields that are present in the Multiple BSSID-Index element carried in the nontransmitted BSSID profile for that BSS.”]

284.27 change “and that was transmitted by the AP with which it is associated and which had an Element Status value in the FMS Status subelement of “Accept”.” to “and that was transmitted by the AP with which it is associated and that had an Element Status value in the FMS Status subelement of “Accept”.”

[RS: accepted]

299.11 change “An HE AP may use an SRG that is different from that which it transmits to other STAs in Spatial Reuse” to “An HE AP may use an SRG that is different from that it transmits to other STAs in Spatial Reuse”

[RS: change “from that which it” “from the SRG that”]

299.19 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 corresponding to the numerical value of PARTIAL\_AID[0:5] of the RXVECTOR is set to 1”

[RS: change “which” to “that”]

308.37 change “the HE STA follows the fragmentation level which is indicated in the Dynamic Fragmentation Support subfield” to “the HE STA follows the fragmentation level indicated in the Dynamic Fragmentation Support subfield”

[RS: change “which” to “that”]

308.42 change “in which case the HE STA follows the fragmentation level which is indicated in an ADDBA Extension element in the ADDBA Response frame it receives” to “in which case the HE STA follows the fragmentation level indicated in an ADDBA Extension element in the ADDBA Response frame it receives”

[RS: change “which” to “that”]

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” to “The AP follows the MPDU aggregation rules in 26.6 (A-MPDU operation in an HE PPDU),(#20027) that obsolete the rules in 10.24.2.7”

[RS: change “which obsolete” to “that “supersede”. (see above for inappropriate use of obsolete)]

332.44 change “Order in which User Info fields appear in a Trigger frame” to “Order of User Info fields in a Trigger frame”

[RS: accepted]

342.26 change “The UL Length subfield value 76(#20874) is acquired from the duration of 128 s which is acquired from the HE TB PPDU with 4 HE-LTFs and PE.” to “The UL Length subfield value 76(#20874) is obtained from the duration of 128 s that is obtained from the HE TB PPDU with 4 HE-LTFs and PE.”

[RS: I think the intent of “acquired” is to say that the value is derived from a duration representative of a certain PPDU format. Change sentence to read “The UL Length subfield value 76 is derived from the duration 128 us, which is the duration of an HE TB PPDU with 4 HE-LTF symbols and a PE field”]

346.57 change “Since STA 1's OBO counter decrements to 0, it transmits its pending frames on RU2 which it randomly selects from the eligible set of RUs” to “Since STA 1's OBO counter decrements to 0, it transmits its pending frames on RU2 that it randomly selected from the eligible set of RUs”

[RS: change which to that]

382.17 change “the MAC address which is the TA of the MMPDU that contained the TWT element is equal to the MAC address of the AP with which the STA is associated,” to “the MAC address is the TA of the MMPDU that contained the TWT element is equal to the MAC address of the AP with which the STA is associated,”

[RS: change “which” to “that”]

390.8 change “A STA participating in multiple TWT SPs which overlap in time stays in the awake state” to “A STA participating in multiple TWT SPs that overlap in time stays in the awake state”

[RS: change “which” to “that”]

392.14 change “The TWT request may have a TWT Channel field with up to one bit set to 1 to indicate which of the secondary channel is requested to contain the RU allocations addressed to the SST STA that is a 20 MHz operating STA” to “The TWT request may have a TWT Channel field with up to one bit set to 1 to indicate the secondary channel requested to contain the RU allocations addressed to the SST STA that is a 20 MHz operating STA”

[RS: accepted]

392.22 change “The TWT response shall have a TWT Channel field with up to one bit set to 1 to indicate which of the secondary channel will contain the RU allocations addressed to the SST STA that is a 20 MHz operating STA” to “The TWT response shall have a TWT Channel field with up to one bit set to 1 to indicate the secondary channel requested to contain the RU allocations addressed to the SST STA that is a 20 MHz operating STA”

[RS: Change “indicate which of the secondary channel will” to “indicate the secondary channel that will”]

396.15 change “If a non-AP STA cannot tolerate frame loss during that period it can set the Power Management subfield of the Frame Control field of the frame which carries OM Control subfield to 1 to indicate that the STA has entered power save” to “If a non-AP STA cannot tolerate frame loss during that period it can set the Power Management subfield of the Frame Control field of the frame carrying the OM Control subfield to 1 to indicate that the STA has entered power save”

[RS: change “which carries” to “that carries the”]

407.1 change “It defers during the TxOP S1'' set by the intra-BSS PPDU from S1'' which belongs to its own BSS” to “It defers during the TxOP S1'' set by the intra-BSS PPDU from S1'' that belongs to its own BSS”

[RS: accepted]

409.61 change “shall not extend beyond the SRP opportunity endpoint which is the earliest ending of all of the durations” to “shall not extend beyond the SRP opportunity endpoint that is the earliest ending of all of the durations”

[RS: accepted]

410.4 change “An HE STA that receives a PPDU which contains at least one MPDU with a CAS Control subfield” to “An HE STA that receives a PPDU containing at least one MPDU with a CAS Control subfield”

[RS: appears to have been fixed in D4.3]

413.46 change “where the duration of the HE TB PPDU which is defined in Equation (27-134).” to “where the duration of the HE TB PPDU is defined in Equation (27-134).”

[RS: accepted]

418.16 change “to a value which is less than that required for any of the recipients in the multicast group” to “to a value that is less than that required for any of the recipients in the multicast group”

[RS: accepted]

457.24 change “For each user, contains a vector in the number of all the subcarriers within the RU which is assigned to this user.” to “For each user, contains a vector in the number of all the subcarriers within the RU assigned to this user.”

[RS: change “within the RU which is” to “in the RU that is”]

459.54 change “This parameter is used to indicate which of the available transmit output power levels defined in dot11Tx-PowerLevelExtended shall be used for the current transmission.” to “This parameter is used to indicate the available transmit output power levels defined in dot11TxPowerLevelExtended that shall be used for the current transmission.”

[RS: which is not necessarily incorrect here. I would leave as is.]

477.8 change “All bits set to 1 except for the four bits corresponding to the primary 80 MHz channel which are set to 0” to “All bits set to 1 except for the four bits corresponding to the primary 80 MHz channel that are set to 0”

[RS: change to “All bits set to 1 except for the four bits corresponding to the primary 80 MHz channel, which are set to 0”]

482.61 change “In OFDMA, users are allocated different subsets of subcarriers which can change from one PPDU to the next.” to “In OFDMA, users are allocated different subsets of subcarriers that can change from one PPDU to the next.”

[RS: accepted]

496.28 change “if the HE TB PPDUs use MU-MIMO in an RU which does not span the entire PPDU bandwidth” to “if the HE TB PPDUs use MU-MIMO in an RU that does not span the entire PPDU bandwidth”

[RS: accepted]

540.29 change “based on the number of User fields in the HE-SIG-B content channel which is indicated by HE-SIG-B common field in this case” to “based on the number of User fields in the HE-SIG-B content channel indicated by HE-SIG-B common field in this case”

[RS: keep which. add comma after channel]

547.51 change “each of the Spatial Reuse fields that corresponds to a 20 MHz sub-band is also applicable to the 242-tone RU which is most closely aligned in frequency” to “each of the Spatial Reuse fields that corresponds to a 20 MHz sub-band is also applicable to the 242-tone RU that is most closely aligned in frequency”

[RS: accepted]

547.64 change “is also applicable to the 484-tone RU which is most closely aligned in frequency” to “is also applicable to the 484-tone RU that is most closely aligned in frequency”

[RS: accepted]

553.15 change “the User Specific field is organized into User Block fields which in turn contain User fields” to “the User Specific field is organized into User Block fields that in turn contain User fields”

[RS: accepted]

560.33 change “if either of the two 20 MHz subchannels which the center 26-tone RU straddles have the preamble punctured.” to “if either of the two 20 MHz subchannels that the center 26-tone RU straddles have the preamble punctured.”

[RS: accepted]

617.2 change “for an HE TB feedback NDP (see 27.3.4 (HE PPDU formats)) which has a TPE = 0.” to “for an HE TB feedback NDP (see 27.3.4 (HE PPDU formats)) that has a TPE = 0.”

[RS: the T\_PE=0 is parenthetical. Keep “which” and add a comma after bracketed reference.]

726.16 change “This variable is a 64 bit bitmap that indicates which BSS color values are used by members of the SRG of which the AP is a member.” to “This variable is a 64 bit bitmap that indicates the BSS color values used by members of the SRG of which the AP is a member.”

[RS: accepted]

726.31 change “This variable is a 64 bit bitmap that indicates which Partial BSSID values are used by members of the SRG of which the AP is a member.” to “This variable is a 64 bit bitmap that indicates the Partial BSSID values used by members of the SRG of which the AP is a member.”

[RS: accepted]

761.32 change “An HE BSS advertises BSS color information which is a value between 1-63 that identifies the BSS.” to “An HE BSS advertises BSS color information, which is a value between 1-63 that identifies the BSS.”

[RS: accepted]

#### articles

437.43 change “An HE AP 6G transmits Beacon frames as defined in 11.1 (Synchronization), which may be contained in either non-HT PPDU, non-HT duplicate PPDU, or HE SU PPDU.” to “An HE AP 6G transmits Beacon frames as defined in 11.1 (Synchronization), which may be contained in either a non-HT PPDU, a non-HT duplicate PPDU, or a HE SU PPDU.”

[RS: add “a” before “non-HT PPDU”. I don’t think it is necessary before the other two PPDU types. Delete “either” (there is more than two).]

437.50 change “An HE AP 6G that transmits a Beacon frame in non-HT duplicate PPDU shall follow the rules” to “An HE AP 6G that transmits a Beacon frame in a non-HT duplicate PPDU shall follow the rules”

437.55 change “If an HE AP 6G schedules for transmission the Beacon frame in non-HT duplicate PPDU” to “If an HE AP 6G schedules a Beacon frame for transmission in a non-HT duplicate PPDU”

[RS: accepted. There is no antecedent for Becon frame, hence “a” and not “the”. Transmission in a PPDU format is more consistent with useage elsewhere than scheduling a PPDU format for transmission.]

437.60 change “An HE AP 6G that transmits a Beacon frame in HE SU PPDU shall follow the rules” to “An HE AP 6G that transmits a Beacon frame in an HE SU PPDU shall follow the rules”

[RS: accepted]

447.3 change “An HE AP may use larger CP length of HE ER SU PPDU to further improve” to “An HE AP may use the larger CP length of HE ER SU PPDUs to further improve”

[RS: improve grammar by changing “larger CP length of HE ER SU PPDU” to “a longer GI duration on HE ER SU PPDUs”. Still has issues since “longer” is relative and the sentence does not state what it is longer than. Anyway, at least it has an article ☺]

481.28 change “A 20 MHz-only non-AP HE STA(#20696) supports HT transmission only on 20 MHz channel width.” to ” A 20 MHz-only non-AP HE STA(#20696) supports HT transmission only on a 20 MHz channel width.”

[RS: rejected]

481.48 change “A 20 MHz-only non-AP HE STA(#20696) supports HT reception only on 20 MHz channel width.” to ” A 20 MHz-only non-AP HE STA(#20696) supports HT reception only on a 20 MHz channel width.”

[RS: rejected]

481.64 change “The 20 MHz-only non-AP HE STA supports VHT transmission only on 20 MHz channel

width.” to “The 20 MHz-only non-AP HE STA supports VHT transmission only on a 20 MHz channel

width.”

[RS: rejected]

482.11 change “The 20 MHz-only non-AP HE STA supports VHT reception only on 20 MHz channel

width.” to “The 20 MHz-only non-AP HE STA supports VHT reception only on a 20 MHz channel

width.”

[RS: rejected]

547.43 and 45 change “The Spatial Reuse fields only apply to 20 MHz used in the transmission.” to “The Spatial Reuse fields apply only to the 20 MHz used in the transmission.”

[RS: accepted. Note that 20 MHz is not a noun. Presumable means “20 MHz channel”, but that is a different problem.]

#### missing nouns

151.35 and 151.41 change “included in the neighboring AP's Beacon.” to “included in the neighboring AP's Beacon frame.”

[RS: accepted]

243.47 change “a non-STBC PSMP frame or a non-STBC Beacon frame, ER beacon or HE SU beacon(#21163)” to “a non-STBC PSMP frame, a non-STBC Beacon frame, an ER beacon frame or an HE SU beacon frame(#21163)”

[RS: change to “a non-STBC PSMP frame, non-STBC Beacon frame, ER beacon, or HE SU beacon”. There is no such thing as an ER beacon frame or HE SU beacon frame.]

243.49 change “An ER beacon is transmitted as defined 26.15.5” to “An ER beacon frame is transmitted as defined in 26.15.5”

[RS: insert “in” but not “frame”. There is no such thing as an ER beacon frame, but the term ER beaon is defined]

243.50 change “an HE SU beacon(#21163) is transmitted as defined in 26.15.6” to “an HE SU beacon frame(#21163) is transmitted as defined in 26.15.6”

[RS: rejected]

280.63 change “HE (ER) Beacon, FILS Discovery frame or OPS frame” to “an HE (ER) Beacon frame, a FILS Discovery frame or an OPS frame”

[RS: change to “HE SU beacon, ER beacon, FILS Discovery frame or OPS frame”]

281.33 change : Send a probe request to the broadcast destination address. The probe request is sent with the SSID” to “Send a Probe Request frame to the broadcast destination address. The Probe Request frame is sent with the SSID”

[RS: accepted]

281.53, 281.63 and 282.9 change “the AP is reported by the STA in a Reduced Neighbor Report element in Beacons and Probe Responses” to “the AP is reported by the STA in a Reduced Neighbor Report element in Beacon frames and Probe Response frames”

[RS: appears to be fixed in D4.3]

376.31 change “STA 1 and STA 2 wake to receive the Beacon determine the broadcast TWT” to “STA 1 and STA 2 wake to receive the Beacon frame to determine the broadcast TWT”

[RS: accepted]

378.24 change “has indicated to receive the Beacon preceding the beacon interval that contains this TWT SP” to “has indicated to receive the Beacon frame preceding the beacon interval that contains this TWT SP”

[RS: accepted]

379.9 change “whose TIM bit in the Beacon is set to 1” to “whose TIM bit in the Beacon frame is set to 1”

[RS: accepted (without “set to”)]

381.25 “The termination occurs at the TBTT at which a Beacon is transmitted by the TWT scheduling AP” to “The termination occurs at the TBTT at which a Beacon frame is transmitted by the TWT scheduling AP”

384.60 change “if the missed beacon corresponds to a TBTT” to “if the missed Beacon frame corresponds to a TBTT”

[RS: accepted]

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, Probe Response and (Re)Association response frames.”

[RS: Change to “Beacon frames, Probe Response frames and (Re)Association Response frames”]

423.10 change “an OPS AP shall include a TWT element in beacons” to “an OPS AP shall include a TWT element in Beacon frames”

[RS: rejected. “beacon” is widely used and may refer to frame types other than the Beacon frame]

430.23 change “Additional rules for ER beacons and group addressed frames” to “Additional rules for ER Beacon frames and group addressed frames”

[RS: rejected. ER beacon is defined]

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

[RS: rejected. HE SU beacon is defined]

431.32 change “An HE AP may transmit a FILS Discovery, or a broadcast Probe Response frame” to “An HE AP may transmit a FILS Discovery frame or a broadcast Probe Response frame”

[RS: accepted]

431.37 change “FILS Discovery and broadcast Probe Responses shall be carried in an S-MPDU” to “FILS Discovery and broadcast Probe Response frames shall be carried in an S-MPDU”

[RS: change to “FILS Discovery frames and broadcast Probe Response frames”]

435.59 change “if the HE AP transmits ER Beacon in HE ER SU PPDU with 106-tone RU.” to “if the HE AP transmits an ER Beacon frame in an HE ER SU PPDU with a 106-tone RU.”

[RS: change to “HE AP transmits ER beacon in an HE ER SU PPDU with a 106-tone RU”. I think this contradicts the ER beacon definition (“An ER beacon is a Beacon frame carried in an HE ER SU PPDU using a 242-tone RU and transmitted in the primary 20 MHz channel.”)]

437.41 change “Beacons in the 6 GHz band” to ”Beacon Frames in the 6 GHz band”

[RS: rejected – beacon is a widely used term]

446.51 change “ER beacon generation in an ER BSS” to “ER Beacon Frame Generation in an ER BSS”

[RS: rejected]

446.54 change “An ER beacon is a Beacon frame carried in HE ER SU PPDU using a 242-tone RU” to “An ER Beacon frame is a Beacon frame carried in an HE ER SU PPDU using a 242-tone RU”

[RS: add “an”]

446.55 change “An ER beacon provides additional link budget for downlink” to ” An ER Beacon frame provides additional link budget for downlink”

[RS: rejected]

#### unnecessary nouns

Carol – did not find anything

#### unicast and multicast

284.10 change “the STA has been granted by the AP an alternate delivery interval for a multicast stream,” to “the STA has been granted by the AP an alternate delivery interval for a group addressed stream,”

[RS; rejected - baseline text]

418.16 change “to a value which is less than that required for any of the recipients in the multicast group.” to “to a value which is less than that required for any of the recipients in the group addressed group.”

[RS: change “multicast group” to “group”. It is not clear that “multicast group” is the same group that is “group addressed”. It is sufficient to just refer back to the group]

### Style Guide 2.10 – Numbers

Carol

Figure 9-64j uses 80MHz, 40MHz and 20MHz multiple times

[RS: add space]

157.4 change “and at least one bit corresponding to any 20MHz subchannel in the secondary 40 MHz channel is set to 1;” to “and at least one bit corresponding to any 20 MHz subchannel in the secondary 40 MHz channel is set to 1;”

[RS: accepted]

392.19 change “whether the primary 80MHz channel or the secondary 80 MHz channel is requested to contain the RU allocations addressed to the SST STA that is an 80MHz operating STA” to “whether the primary 80 MHz channel or the secondary 80 MHz channel is requested to contain the RU allocations addressed to the SST STA that is an 80 MHz operating STA”

[RS: accepted]

### Style Guide 2.11 – Maths operators and relations

Carol – did not find anything obvious

### Style Guide 2.12 – Hyphenation

Carol – “trigger-based” and “non-trigger-based” should be added to the allowed list of hyphenated words

262.39 change “Initial transmission of a non-dynamic fragment of an MSDU or MMPDU” to “Initial transmission of a nondynamic fragment of an MSDU or MMPDU”

262.41 change “Transmission of a non-dynamic fragment of an MSDU or MMPDU fragmented into 16 fragments” to “Transmission of a nondynamic fragment of an MSDU or MMPDU fragmented into 16 fragments”

263.13 change “Initial transmission of a non-dynamic fragment of a fragmented MSDU/MMPDU” to “Initial transmission of a nondynamic fragment of a fragmented MSDU/MMPDU”

[RS: globally change non-dynamic to nondynamic]

308.20 change “This subclause defines the procedure for generating non-uniformly fragmented MSDUs” to “This subclause defines the procedure for generating nonuniformly fragmented MSDUs”

[RS: accepted]

361.29 change “indicated by the inclusion of a non-zero Disallowed Subchannel Bitmap subfield” to “indicated by the inclusion of a nonzero Disallowed Subchannel Bitmap subfield”

[RS: accepted]

368.45 change “includes a Disallowed Subchannel Bitmap field with a non-zero value” to “includes a Disallowed Subchannel Bitmap field with a nonzero value”

[RS: accepted]

370.58 change “by allocating STAs to operate at non-overlapping times and/or frequencies” to “by allocating STAs to operate at nonoverlapping times and/or frequencies”

[RS: accepted]

425.32 “and a non-compressed HE-SIG-B to a peer STA” to “and a noncompressed HE-SIG-B to a peer STA”

[RS: not found. probably fixed]

444.36 “help its associated AP select a new non-overlapping BSS color” to “help its associated AP select a new nonoverlapping BSS color”

[RS: accepted]

449.56 “80+80 MHz non-contiguous channel width” to “80+80 MHz noncontiguous channel width”

[RS: accepted]

449.60 “are not transmitted in one or more of the non-primary 20 MHz channels” to “are not transmitted in one or more of the nonprimary 20 MHz channels”

[RS: accepted]

539. 39 change “Set to 2 for 80 MHz non-preamble puncturing mode. Set to 3 for 160 MHz and 80+80 MHz non-preamble” to “Set to 2 for 80 MHz nonpreamble puncturing mode. Set to 3 for 160 MHz and 80+80 MHz nonpreamble”

[RS: rejected for now because the non- applies to preamble punctured not just preamble]

631.56 change ‘Non-occupied subcarriers of the transmitted HE PPDUs” to “Nonoccupied subcarriers of the transmitted HE PPDUs”

[RS: accepted]

642.59 change “that is attempting a non-preamble puncturing transmission” to “that is attempting a nonpreamble puncturing transmission”

[RS: rejected for now because the non- applies to preamble punctured not just preamble]

643.3 change “the primary 20 MHz channel and dot11OFDMEDThreshold for each non-primary 20 MHz subchannel” to “the primary 20 MHz channel and dot11OFDMEDThreshold for each nonprimary 20 MHz subchannel”

[RS: accepted]

643.18 change “for primary 20 MHz channel and dot11OFDMEDThreshold for each non-primary 20 MHz channel” to “for the primary 20 MHz channel and dot11OFDMEDThreshold for each nonprimary 20 MHz channel”

[RS: accepted]

### 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

No findings

### Style Guide 2.17 – Abbreviations

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

No findings

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

Edward

#### Definitions (Clause 3)

[001] Abbreviations used in definitions should be spelled out in full on their first use in each definition. At 37.29, replace “An OFDM-based” with “An orthogonal frequency division multiplexing (OFDM)-based”.

[RS: accepted]

[002] Abbreviations used in definitions should be spelled out in full on their first use in each definition. At 41.64, replace “from same TID” with “from same traffic identifier (TID)”.

[RS: accepted]

[003] Abbreviations used in definitions should be spelled out in full on their first use in each definition. At 42.1, replace “ack-enabled multi-TID” with “ack-enabled multi-traffic identifier”.

[RS: appears to have been fixed in D4.3]

[004] Abbreviations used in definitions should be spelled out in full on their first use in each definition. At 42.10, replace “transmitted by an AP” with “transmitted by an access point (AP)”.

[RS: accepted]

[005] Abbreviations used in definitions should be spelled out in full on their first use in each definition. At 42.11, replace “in the BSS” with “in the basic service set (BSS)”.

[RS: accepted]

[006] Abbreviations used in definitions should be spelled out in full on their first use in each definition. At 42.28, replace “transmitted by an AP” with “transmitted by an access point (AP)”.

[RS: accepted]

[007] Abbreviations used in definitions should be spelled out in full on their first use in each definition. At 42.61, replace “high efficiency (HE) masked HE-LTF sequence mode” with “high efficiency (HE) masked HE-long training field (LTF) sequence mode”.

[RS: accepted]

[008] Abbreviations used in definitions should be spelled out in full on their first use in each definition. At 43.7, replace “high efficiency (HE) multi-user (MU) physical layer protocol data unit (PPDU) mode: An HE-LTF mode used in HE TB PPDU” with “high efficiency (HE) multi-user (MU) physical layer (PHY) protocol data unit (PPDU) mode: An HE-LTF mode used in HE trigger based (TB) PPDU ”.

[RS: accepted]

[009] Abbreviations used in definitions should be spelled out in full on their first use in each definition. At 43.12, replace “high efficiency (HE) no pilot HE-LTF mode: An HE-LTF mode used in HE TB PPDU.” with “high efficiency (HE) no pilot HE-long training field (LTF) mode: An HE-LTF mode used in HE trigger based (TB) PPDU”.

[RS: accepted]

[010] Abbreviations used in definitions should be spelled out in full on their first use in each definition. At 43.16, replace “high efficiency (HE) physical layer protocol data unit (PPDU)” with “high efficiency (HE) physical layer (PHY) protocol data unit (PPDU)”.

[RS: accepted]

[011] Abbreviations used in definitions should be spelled out in full on their first use in each definition. At 43.19, replace “HE extended range (ER) single user (SU) PPDU (HE ER SU PPDU)” with “HE extended range (ER) SU PPDU (HE ER SU PPDU)” because SU has been defined in the same definition at 43.18.

[RS: accepted]

[012] Abbreviations used in definitions should be spelled out in full on their first use in each definition. At 43.26, replace “high efficiency (HE) single stream pilot HE-LTF mode: An HE-LTF mode used in HE SU, HE ER SU, HE MU and HE TB PPDU” with “high efficiency (HE) single stream pilot HE-long training field (LTF) mode: An HE-LTF mode used in HE single user (SU), HE extended range (ER) SU, HE multi-user (MU) and HE trigger based (TB) physical layer protocol data unit (PPDU)”.

[RS: accepted]

[013] Abbreviations used in definitions should be spelled out in full on their first use in each definition. At 43.31, replace “high efficiency (HE) single-user (SU) physical layer protocol data unit (PPDU)” with “high efficiency (HE) single-user (SU) physical layer (PHY) protocol data unit (PPDU)”.

[RS: accepted]

[014] Abbreviations used in definitions should be spelled out in full on their first use in each definition. At 43.36, replace “high efficiency (HE) trigger-based (TB) physical layer protocol data unit (PPDU)” with “high efficiency (HE) trigger based (TB) physical layer (PHY) protocol data unit (PPDU)”.

[RS: accepted]

[015] Abbreviations used in definitions should be spelled out in full on their first use in each definition. At 43.55, replace “from a STA that is a member of a BSS” with “from a station (STA) that is a member of a basic service set (BSS)”.

[RS: accepted]

[016] Abbreviations used in definitions should be spelled out in full on their first use in each definition. At 44.11, replace “with RUs smaller than 242-tone” with “with resource units (RUs) smaller than 242-tone”.

[RS: accepted]

[017] Abbreviations used in definitions should be spelled out in full on their first use in each definition. At 44.37, replace “of an HE TB PPDU” with “of a high efficiency (HE) trigger based (TB) physical layer protocol data unit (PPDU)”.

[RS: accepted]

[018] Abbreviations used in definitions should be spelled out in full on their first use in each definition. At 44.40, replace “an HE STA when SRP conditions” with “a high efficiency (HE) station (STA) when spatial reuse parameters (SRP) conditions”.

[RS: rejected. SRP already spelled out in this definition]

[019] Definitions should appear in alphabetical order. In addition, ignore (treat as not present) stuff in parentheses. Please swap the positions of the definition of “spatial reuse (SR) physical layer (PHY) protocol data unit (PPDU) (SR PPDU)” from 44.40 to 44.43 with the definition of “spatial reuse parameters (SRP)(#20496) physical layer (PHY) protocol data unit (SRP PPDU)” from 44.45 to 44.48.

[RS: accepted]

[020] Abbreviations used in definitions should be spelled out in full on their first use in each definition. At 44.54, replace “target wake time (TWT) scheduled STA” with “target wake time (TWT) scheduled station (STA)”.

[RS: accepted]

[021] Definitions should appear in alphabetical order. Please swap the positions of the definition of “target wake time (TWT) scheduling access point (AP)” from 44.50 to 44.52 with the definition of “target wake time (TWT) scheduled STA” from 44.54 to 44.55.

[RS: accepted]

[022] Abbreviations used in definitions should be spelled out in full on their first use in each definition. At 44.57, replace “A mechanism by which one or more non-AP stations (STAs) simultaneously participate in an uplink (UL) transmission to an access point (AP)” with “A mechanism by which one or more non-access point (AP) stations (STAs) simultaneously participate in an uplink (UL) transmission to an AP”.

[RS: modified. abbreviate as non-access point (non-AP) and access point (AP), i.e., non-AP is a different acronym from AP.]

[023] Abbreviations used in definitions should be spelled out in full on their first use in each definition. At 45.2, replace “An HE MU PPDU transmitted by a non-AP STA. An UL HE MU PPDU carries only one PSDU” with “An HE MU PPDU transmitted by a non-access point (non-AP) station (STA). An UL HE MU PPDU carries only one physical layer service data unit (PSDU)”.

[RS: accepted]

[024] Abbreviations used in definitions should be spelled out in full on their first use in each definition. At 45.6, replace “for non-AP HE STAs” with “for non-access point (non-AP) high efficiency (HE) stations (STAs)”.

[RS: accepted]

#### General Description (Clause 4)

[001] Clause 4 provides a general description of the wireless system. It should be written in declarative, not normative, language. At 47.21, replace “An HE STA shall support a 20 MHz operating channel width” with “Mandatory support for a 20 MHz operating width in a HE STA”.

[RS: modified. “Support for 20 MHz operating channel width is mandatory in an HE STA”]

[002] Clause 4 provides a general description of the wireless system. It should be written in declarative, not normative, language. At 47.22, replace “An HE STA that is not a 20 MHz-only non-AP HE STA shall support operation with a 40 MHz and 80 MHz channel width” with “Mandatory support for a 40 MHz and 80 MHz channel width in an HE STA that is not a 20 MHz-only non-AP HE STA”.

[RS: modified. “Support for 40 MHz and 80 MHz operating channel width is mandatory in an HE STA that is not a 20 MHz-only non-AP HE STA”]

[003] Clause 4 provides a general description of the wireless system. It should be written in declarative, not normative, language. At 47.25, replace “An HE STA may support operation with a 160 MHz and 80+80 MHz channel width” with “Optional support for a 160 MHz and 80+80 MHz channel width in an HE STA”.

[RS: modified. “Support for 160 MHz and 80+80 MHz operating channel width is optional in an HE STA”]

[004] Clause 4 provides a general description of the wireless system. It should be written in declarative, not normative, language. At 47.30, replace “An HE STA shall support a 20 MHz operating channel width” with “Mandatory support for a 20 MHz operating channel width in an HE STA”.

[RS: modified. “Support for 20 MHz operating channel width is mandatory in an HE STA”]

[005] Clause 4 provides a general description of the wireless system. It should be written in declarative, not normative, language. At 47.32, replace “An HE STA may support a 40 MHz operating channel width” with “Optional support for a 40 MHz operating channel width in an HE STA”.

[RS: modified. “Support for 40 MHz operating channel width is optional in an HE STA”]

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

[001] Clause 9 is reserved for describing structure (apart from statements in 9.1). Statements that describe the actions of a STA in order to determine a value for a field and any other behavioural specification should not be present in Clause 9. At 106.30, the following sentence describes a behaviour: “The Disambiguation subfield is set to 1 to prevent a non-HE VHT STA from wrongly determining its AID in the HE NDP Announcement frame”.

[RS: disagree. This is describing the purpose of the field]

#### SAP interfaces (Clause 6)

[001] The “Presence” statements should, wherever possible, follow this template: *The <name> <type of structure> is [optionally] present if <some condition>[; otherwise not present].*At 49.34, replace “One or more Short SSID fields that are optionally present if dot11ShortSSIDList is true” with “One or more Short SSID fields that are optionally present if dot11ShortSSIDList is true; otherwise not present”.

[RS: disagree. if something is “optionally present” then obviously it is not present if the option is not excercised. So the statement “otherwise not present” adds nothing. The style guide captures this with square brackets around “; otherwise not present”, meaning the “; otherwise not present” is optional]

[002] The parameters of a .indication should match the .request. At 53.14, “Channel Switing Timing” is added to MLME-ASSOCIATE.request. At 53.52, however, both “HE Capabilities” and “Channel Switch Timing” are added to MLME-ASSOCIATE.indication. Please fix the inconsistency.

[RS: I agree that this is a technical error. Add rows to the request for HE Capabilities (description: “Specifies the parameters in the HE Capabilities element that are supported by the STA. The parameter is present if dot11HEOptionImplemented is true; otherwise not present.”) and HE 6 GHz Band Capabilties (description: “Specifies the parameters in the HE 6 GHz Band Capabilities element that are supported by the STA. The parameter is present if dot11HE6GOptionImplemented is true; otherwise not present.”).]

[003] The parameters of a .indication should match the .request. At 58.47, “Channel Switing Timing” is added to MLME-REASSOCIATE.request. At 61.43, however, both “HE Capabilities” and “Channel Switch Timing” are added to MLME-REASSOCIATE.indication. Please fix the inconsistency.

[RS: I agree, add same rows to reasssociate request as for the associate request above]

[004] The parameters of MLME-ASSOCIATE.confirm does not match with the parameters of MLME-ASSOCIATE.response. In particular, “BSS Color Change Announcement” is missing in MLM-ASSOCIATE.confirm at 53.50. Please fix the inconsistency.

[RS: rejected. BSS Color Change Announcement present in both]

#### New top level clauses

No findings

#### Annex A – Bibliography

Not applicable. There are neither normative nor informative references.

#### Annex B – PICS

[001] At 703.63, there is an PICS item “\*CFHE6G”. At 703.65, there is an PICS item “CFHE6G”. Delete the row corresponding to “CFHE6G” at 703.65 because \* is required to provide reference to other PICS items.

[RS: accepted]

[002] At 704.41, replace “PC6.2.3” with “PC45.3”.

[RS: accepted]

[003] At 708.57, replace “\*HEM6.7” with “HEM6.7”.

[RS: accepted]

[004] At 708.61, replace “\*HEM6.8” with “HEM6.8”.

[RS: accepted]

[005] At 713.36, replace “\*HEM11.1.3” with “HEM11.1.3”.

[RS: accepted (HEP11.1.3 not HEM11.1.3)

[006] At 713.47, replace “\*HEM11.1.6” with “HEM11.1.6”.

[RS: accepted (HEP11.1.6 not HEM11.1.6)

[007] At 712.44, if there are no HEP8 and HEP9, please update the items from HEP10 to HEP11.2.16 to HEP8 to HEP9.2.16, respectively.

[RS: accepted]

#### Annex G – Frame exchange sequences

[001] At 759.33, replace “The preceding frame or A-MPDU is part of a VHT MU PPDU” with “The preceding frame or A-MPDU is part of an HE MU PPDU”.

[RS: mu-users-not-respond is not used. Delete row. Implemented.]

[002] What is the function of “mu-users-not-respond” at 759.33 as it is not used in neither G.4 nor G.5? Can it be deleted from G.1?

[RS: mu-users-not-respond is not used. Delete row. (see previous).]

[003] At 759.40, replace “A Trigger frame where Trigger Type field indicates MU-RTS Trigger variant” with “A Trigger frame where Trigger Type field indicates MU-BAR Trigger variant”.

[004] What is the function of “MU-BAR\_Trig” at 759.40 as it is not used in G.5. Can it be deleted from G.1?

[005] What is the function of “BSRP\_Trig” at 759.44 as it is not used in G.5. Can it be deleted from G.1?

[006] What is the function of “GCR MU-BAR\_Trig” at 759.46 as it is not used in G.5. Can it be deleted from G.1?

[007] What is the function of “BQRP\_Trig” at 759.48 as it is not used in G.5. Can it be deleted from G.1?

[008] What is the function of “NFRP\_Trig” at 759.50 as it is not used in G.5. Can it be deleted from G.1?

[RS: for 003-008 I will leave the definitions in place. They seem to indicate that some sequences are not defined.]

## ANA

Check for correct use of numbers against database.

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

Robert Stacey

|  |  |  |  |
| --- | --- | --- | --- |
| **Resource** | **Value** | **Name** | **Status** |
| [Categories](file:///C:\Users\rjstacey\Documents\802.11\ANA\11-11-0270-rr-0000-ana-database.xls#'Categories'!A1) | 30 | HE | OK |
| [Categories](file:///C:\Users\rjstacey\Documents\802.11\ANA\11-11-0270-rr-0000-ana-database.xls#'Categories'!A1) | 31 | Protected HE | OK |
| [ControlSubTypes](file:///C:\Users\rjstacey\Documents\802.11\ANA\11-11-0270-rr-0000-ana-database.xls#'ControlSubTypes'!A1) | 2 | Trigger | OK |
| [dot11Compliances](file:///C:\Users\rjstacey\Documents\802.11\ANA\11-11-0270-rr-0000-ana-database.xls#'dot11Compliances'!A1) | 22 | dot11HECompliance | OK |
| [dot11Groups](file:///C:\Users\rjstacey\Documents\802.11\ANA\11-11-0270-rr-0000-ana-database.xls#'dot11Groups'!A1) | 100 | dot11HEComplianceGroup | OK |
| [dot11Groups](file:///C:\Users\rjstacey\Documents\802.11\ANA\11-11-0270-rr-0000-ana-database.xls#'dot11Groups'!A1) | 101 | dot11SMTbase14 | OK |
| [dot11Groups](file:///C:\Users\rjstacey\Documents\802.11\ANA\11-11-0270-rr-0000-ana-database.xls#'dot11Groups'!A1) | 102 | dot11HETransmitBeamformingGroup | OK |
| [dot11Groups](file:///C:\Users\rjstacey\Documents\802.11\ANA\11-11-0270-rr-0000-ana-database.xls#'dot11Groups'!A1) | 103 | dot11PhyHEComplianceGroup | OK |
| [dot11mac](file:///C:\Users\rjstacey\Documents\802.11\ANA\11-11-0270-rr-0000-ana-database.xls#'dot11mac'!A1) | 15 | dot11MUEDCATable | OK |
| [dot11phy](file:///C:\Users\rjstacey\Documents\802.11\ANA\11-11-0270-rr-0000-ana-database.xls#'dot11phy'!A1) | 31 | dot11PhyHETable | OK |
| [dot11phy](file:///C:\Users\rjstacey\Documents\802.11\ANA\11-11-0270-rr-0000-ana-database.xls#'dot11phy'!A1) | 32 | dot11HETransmitBeamformingConfigTable | OK |
| [dot11smt](file:///C:\Users\rjstacey\Documents\802.11\ANA\11-11-0270-rr-0000-ana-database.xls#'dot11smt'!A1) | 42 | dot11HEStationConfigTable | OK |
| [dot11smt](file:///C:\Users\rjstacey\Documents\802.11\ANA\11-11-0270-rr-0000-ana-database.xls#'dot11smt'!A1) | 43 | dot11PPEThresholdMappingsTable | OK |
| [dot11StationConfigEntry](file:///C:\Users\rjstacey\Documents\802.11\ANA\11-11-0270-rr-0000-ana-database.xls#'dot11StationConfigEntry'!A1) | 181 | dot11HEOptionImplemented | OK |
| [dot11StationConfigEntry](file:///C:\Users\rjstacey\Documents\802.11\ANA\11-11-0270-rr-0000-ana-database.xls#'dot11StationConfigEntry'!A1) | 182 | dot11OBSSNarrowBWRUinULOFDMATolerated | OK |
| [dot11StationConfigEntry](file:///C:\Users\rjstacey\Documents\802.11\ANA\11-11-0270-rr-0000-ana-database.xls#'dot11StationConfigEntry'!A1) | 194 | dot11HE6GOptionImplemented | OK |
| [Element ID Extension 1](file:///C:\Users\rjstacey\Documents\802.11\ANA\11-11-0270-rr-0000-ana-database.xls#'Element ID Extension 1'!A1) | 35 | HE Capabilities | OK |
| [Element ID Extension 1](file:///C:\Users\rjstacey\Documents\802.11\ANA\11-11-0270-rr-0000-ana-database.xls#'Element ID Extension 1'!A1) | 36 | HE Operation | OK |
| [Element ID Extension 1](file:///C:\Users\rjstacey\Documents\802.11\ANA\11-11-0270-rr-0000-ana-database.xls#'Element ID Extension 1'!A1) | 37 | RAPS | OK. Rename in ANA database (UORA Parameter Set in draft) |
| [Element ID Extension 1](file:///C:\Users\rjstacey\Documents\802.11\ANA\11-11-0270-rr-0000-ana-database.xls#'Element ID Extension 1'!A1) | 38 | MU EDCA Parameter Set | OK |
| [Element ID Extension 1](file:///C:\Users\rjstacey\Documents\802.11\ANA\11-11-0270-rr-0000-ana-database.xls#'Element ID Extension 1'!A1) | 39 | Spatial Reuse Parameter Set | OK |
| [Element ID Extension 1](file:///C:\Users\rjstacey\Documents\802.11\ANA\11-11-0270-rr-0000-ana-database.xls#'Element ID Extension 1'!A1) | 41 | NDP Feedback Report Parameter Set | OK |
| [Element ID Extension 1](file:///C:\Users\rjstacey\Documents\802.11\ANA\11-11-0270-rr-0000-ana-database.xls#'Element ID Extension 1'!A1) | 42 | BSS Color Change Announcement | OK |
| [Element ID Extension 1](file:///C:\Users\rjstacey\Documents\802.11\ANA\11-11-0270-rr-0000-ana-database.xls#'Element ID Extension 1'!A1) | 43 | Quiet Time Period Setup | OK |
| [Element ID Extension 1](file:///C:\Users\rjstacey\Documents\802.11\ANA\11-11-0270-rr-0000-ana-database.xls#'Element ID Extension 1'!A1) | 45 | ESS Report | OK |
| [Element ID Extension 1](file:///C:\Users\rjstacey\Documents\802.11\ANA\11-11-0270-rr-0000-ana-database.xls#'Element ID Extension 1'!A1) | 46 | OPS | OK |
| [Element ID Extension 1](file:///C:\Users\rjstacey\Documents\802.11\ANA\11-11-0270-rr-0000-ana-database.xls#'Element ID Extension 1'!A1) | 47 | HE BSS Load | OK |
| [Element ID Extension 1](file:///C:\Users\rjstacey\Documents\802.11\ANA\11-11-0270-rr-0000-ana-database.xls#'Element ID Extension 1'!A1) | 57 | Known BSSID | OK |
| [Element ID Extension 1](file:///C:\Users\rjstacey\Documents\802.11\ANA\11-11-0270-rr-0000-ana-database.xls#'Element ID Extension 1'!A1) | 58 | Short SSID List | OK |
| [Element ID Extension 1](file:///C:\Users\rjstacey\Documents\802.11\ANA\11-11-0270-rr-0000-ana-database.xls#'Element ID Extension 1'!A1) | 59 | HE Extended Capabilities | OK. Rename in ANA database (HE 6 GHz Band Capabilities in draft) |
| [Element ID Extension 1](file:///C:\Users\rjstacey\Documents\802.11\ANA\11-11-0270-rr-0000-ana-database.xls#'Element ID Extension 1'!A1) | 60 | UL MU Power Capabilities | OK |
| [ExtendedCapabilities](file:///C:\Users\rjstacey\Documents\802.11\ANA\11-11-0270-rr-0000-ana-database.xls#'ExtendedCapabilities'!A1) | 77 | TWT Requester Support | OK |
| [ExtendedCapabilities](file:///C:\Users\rjstacey\Documents\802.11\ANA\11-11-0270-rr-0000-ana-database.xls#'ExtendedCapabilities'!A1) | 78 | TWT Responder Support | OK |
| [ExtendedCapabilities](file:///C:\Users\rjstacey\Documents\802.11\ANA\11-11-0270-rr-0000-ana-database.xls#'ExtendedCapabilities'!A1) | 79 | OBSS Narrow Bandwidth RU In UL OFDMA Tolerance Support | OK |
| [ExtendedCapabilities](file:///C:\Users\rjstacey\Documents\802.11\ANA\11-11-0270-rr-0000-ana-database.xls#'ExtendedCapabilities'!A1) | 83 | Enhanced Multi-BSSID Advertisement Support | OK |
| [StatusCodes](file:///C:\Users\rjstacey\Documents\802.11\ANA\11-11-0270-rr-0000-ana-database.xls#'StatusCodes'!A1) | 124 | DENIED\_HE\_NOT\_SUPPORTED | OK |

Additional Actions:

Reassign Multiple BSSID Configuration to TGax (from TGmd).

## 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,

}

[RS: Accepted]

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}

[RS: Accepted]

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}

[RS: Accepted]

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}

[RS: Accepted]

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}

[RS: Accepted]

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)

[RS: Accepted]

Dot11PPEThresholdsMappingsEntry ::= SEQUENCE {

dot11PPEThresholdsMappingIndex Unsigned32,

dot11PPEThresholdsMappingNSS ~~Integer~~ Unsigned32,

dot11PPEThresholdsMappingRUIndex ~~Integer~~ Unsigned32,

dot11PPEThresholdsMappingPPET8 ~~Integer~~ Unsigned32,

dot11PPEThresholdsMappingPPET16 ~~Integer~~ Unsigned32,

dot11PPEThresholdsMappingStatus RowStatus}

[RS: Accepted]

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 }

[RS: Accepted]

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.

[RS: Change name to dot11HEAMPDUwithMultipleTIDOptionImplemented. Email TGay editor about changing name there, too]

--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 }

[RS: Since the amendment ordering is 11ax followed by 11ay, I will have 11ay update the draft and use 15. No change.]

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

-- \* 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 }

[RS: accepted]

Dot11PhyHEEntry ::=

SEQUENCE {

dot11HECCAIndicationMode INTEGER,

dot11HECurrentChannelWidthSet Unsigned32,

dot11HEPuncturedPreambleRxImplemented ~~Unsigned32~~OCTET STRING,

dot11HEPuncturedPreambleRxActivated ~~Unsigned32~~OCTET STRING,

…

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

[RS: accepted]

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}

[RS: accepted]

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}

[RS: accepted]

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}

[RS: accepted]

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 }

[RS: Update as follows (also adds missing objects):

dot11HEComplianceGroup OBJECT-GROUP(#mdr)

OBJECTS {

dot11HEOptionImplemented,

dot11OBSSNarrowBWRUinOFDMATolerated,

dot11HE6GOptionImplemented,

dot11OCTOptionImplemented(#21533, #20372),

dot11TRSOptionImplemented(#20043),

dot11ULMUMIMOOptionImplemented,

dot11OFDMARandomAccessOptionImplemented,

dot11HEControlFieldOptionImplemented,

dot11OMIOptionImplemented,

dot11HEMCSFeedbackOptionImplemented,

dot11HEDynamicFragmentationLevel,

dot11AMPDUwithMultipleTIDOptionImplemented,

dot11MPDUAskedforAckInMultiTIDAMPDU,

dot11TXOPDurationRTSThreshold,

dot11PPEThresholdsRequired,

dot11IntraPPDUPowerSaveOptionActivated,

dot11AMSDUFragmentationOptionImplemented,

dot11BSSColorCollisionAPPeriod,

dot11BSSColorCollisionSTAPeriod,

dot11AutonomousBSSColorCollisionReportingImplemented,

dot11HESRPOptionImplemented,

dot11HEBSRControlImplemented,

dot11HEUPHControlActivated,

dot11HEBQRControlImplemented,

dot11HECASControlImplemented,

dot11PartialBSSColorImplemented,

dot11ObssNbRuToleranceTime,

dot11HESubchannelSelectiveTransmissionImplemented,

dot11SRResponderOptionImplemented,

dot11AutonomousBSSColorInUseReportingImplemented,

dot11ShortSSIDListImplemented,

dot11ColocatedRNRImplemented,

dot11SRGAPOBSSPDMinOffset,

dot11SRGAPOBSSPDMaxOffset,

dot11SRGAPBSSColorBitmap,

dot11SRGAPBSSIDBitmap,

dot11NonSRGAPOBSSPDMaxOffset,

dot11HTVHTTriggerOptionImplemented,

dot11HEDynamicSMPowerSaveOptionImplemented,

dot11MUEDCAParametersActived,

dot11CoHostedBSSIDImplemented,

dot1120TUProbeResponseActiveOptionImplemented(#21535,#Ed),

dot11MemberOfColocatedESSOptionImplemented(#21536,#Ed),

dot11AckEnabledAMPDUOptionImplemented}

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 }

[RS: accepted]

--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 }

[RS: accepted]

# 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.

|  |
| --- |
| Robert Stacey,  Thank you for submitting IEEE P802.11ax for MEC.  Upon review, I have found no editorial issues that would prevent the draft from moving on to ballot.  Please let me know if you have any questions.  **NOTE—Fonts shall be embedded in the draft PDF. Instructions on creating a PDF with embedded fonts can be found at:** <http://standards.ieee.org/develop/stdswritten.html>  Thank you,  Julie  ------------------------------------------  Julie Alessi  Program Manager  Content Production & Management  IEEE Standards Association  445 Hoes Lane  Piscataway, NJ 08854  732-562-5435  IEEE - Advancing Technology for Humanity |