IEEE P802.11
Wireless LANs

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| SRP Comments |
| Date: 2019-04-01 |
| Author(s): |
| Name | Affiliation | Address | Phone | email |
| Matthew Fischer | Broadcom |  |  | Matthew.fischer@broadcom.com |
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Abstract

Proposed language to address comments on SRP from LB238 of TGax D4.0.

Changes are referenced to TGax D4.2.

**REVISION NOTES:**

**R0**:

Initial

**R1**:

Updated to TGax D4.2

Remove CID 20615 – already addressed elsewhere

**R2**:

Fix revision numbering in header

Add the following CIDs - 20336 20345 21115 21116 21117 21118 20678

Updated doc references

**END OF REVISION NOTES**

Interpretation of a Motion to Adopt

A motion to approve this submission means that the editing instructions and any changed or added material are actioned in the TGax Draft. This introduction is not part of the adopted material.

***Editing instructions formatted like this are intended to be copied into the TGax Draft (i.e. they are instructions to the 802.11 editor on how to merge the text with the baseline documents).***

***TGax Editor: Editing instructions preceded by “TGax Editor” are instructions to the TGax editor to modify existing material in the TGax draft. As a result of adopting the changes, the TGax editor will execute the instructions rather than copy them to the TGax Draft.***

**CIDs**

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| 20342 | Kaiying Lv | 26.10.3.1 | 401.43 | Change to "SRP opportunities are identified from the value of the RXVECTOR parameter SPATIAL\_REUSE of an HE TB PPDU and/or the contents of a Trigger frame." | As in comment. | Revise - TGax editor to make changes as shown in 11-19/0613r2 that are marked with CID 20342 which generally agree with the commenter’s suggestion. |
| 20343 | Kaiying Lv | 26.10.3.1 | 401.51 | change " the SR field in the Common Info field of the Trigger frame" to " the UL spatial reuse field in the Common Info field of the Trigger frame" in whole text | As in comment. | Revise - TGax editor to make changes as shown in 11-19/0613r2 that are marked with CID 20343 which generally agree with the commenter’s suggestion. |
| 20559 | Mark Rison | 26.10.3.4 | 403.24 | Make the clarifications to the terms of Equation (26-7) that are suggested for triggering PPDUs in 27.3.14.2 (Equations (27-124) and (27-125)). Ditto RPL in 26.10.3.2 and UL Target RSSI in 9.3.1.22.9 and HE TB feedback NDP in 26.5.6.2 [powerprecorr] | As it says in the comment | Revise - TGax editor to make changes as shown in 11-19/0613r2 that are marked with CID 20559 which generally change the description of equation components so that they are consistent and refer to fields in triggers and TRS fields when possible. |
| 20948 | Mark Rison | 26.10.3.2 | 402.17 | Re CID 16157: this change omits the L-SIG field, which sounds as if it would be included in the "legacy portion" referred to in D3.0.  Also why "or"? | Change "which is measured from the L-STF, L-LTF and L-SIG fields" | Reject – throughout the SR subclauses, the received power is indicated to be measured on L-STF and L-LTF, omitting L-SIG, as STF and LTF can be boosted. |

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| 20168 | Bo Sun | 26.2.3 | 291.01 | The term "SRG PPDU" and "Non-SRG PPDU" are confusing. Both term are used for MAC function of spatial reuse operation. But PPDU is a PHY layer conception. PHY layer has no idea what's an SRG PPDU or a Non-SRG PPDU while MAC layer only knows A-MPDU/MPDU | Change the terms "SRG PPDU" to "SRG A-MPDU/MPDU" and "Non-SRG PPDU" to "Non-SRG A-MPDU/MPDU". | Reject – the PPDU is the entity that is subject to the SR operation and it is possible to identify, through PPDU SIG field information, whether the SR operation is allowed or not, thereby creating the possibility that no MPDU is ever identified. |
| 20304 | Kaiying Lv | 26.2.3 | 297.24 | "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." Can this case cover the cases for VHT PPDU and HE PPDU? If yes, then the subsequent paragraphs about VHT PPDU and HE PPDU are not necessary. Or clarify that here the BSSID information is the A3 address. | Please clarify it. | Reject – It is possible for a single PPDU to pass more than one test for identification as an SRG PPDU, but this does not mean that some conditions are redundant. The conditions have been written so that one can identify a PPDU reception event wherein the received PPDU matches only one condition in the subclause, thereby rendering that condition as essential and not redundant. As an example, for the case for the commenter’s cited conditions, it is quite possible that the GROUP\_ID value is decoded correctly, but no MPDU is decoded correctly, so only one of the two suspected redundant conditions matches. |
| 20305 | Kaiying Lv | 26.2.3 | 297.28 | "A VHT PPDU that is received with RXVECTOR parameter GROUP\_ID equal to 0 is an SRG PPDU...". It should be identified as an inter-BSS PPDU first. | Change the whole sentence to "A VHT PPDU that is an inter-BSS PPDU is an SRG PPDU if the received RXVECTOR parameter GROUP\_ID equal to 0 and 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." | Revised – TGax editor to make changes as shown in 11-19/0613r2 that are marked with CID 20305 which add a requirement that the AP shall set its own BSS color bitmap bit and partial BSSID bitmap bit to 0 in the SRP element. With this new condition, the color or bitmap position matching test described in the cited text can only succeed when the PPDU is indeed, definitively inter-BSS and the condition of inter-BSS therefore does not need to be added into the paragraph cited by the commenter. |
| 20306 | Kaiying Lv | 26.2.3 | 297.33 | "A VHT PPDU that is received with RXVECTOR parameter GROUP\_ID equal to 0 is an SRG PPDU...". It should be identified as an inter-BSS PPDU first. | Change the whole sentence to "A VHT PPDU that is an inter-BSS PPDU is an SRG PPDU if the received RXVECTOR parameter GROUP\_ID equal to 63 and 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." | Revised – TGax editor to make changes as shown in 11-19/0613r2 that are marked with CID 20306 which add a requirement that the AP shall set its own BSS color bitmap bit and partial BSSID bitmap bit to 0 in the SRP element. With this new condition, the color or bitmap position matching test described in the cited text can only succeed when the PPDU is indeed, definitively inter-BSS and the condition of inter-BSS therefore does not need to be added into the paragraph cited by the commenter. |
| 20307 | Kaiying Lv | 26.2.3 | 297.38 | It should be identified as an inter-BSS PPDU first. | Change the whole sentence to "An HE SU PPDU, HE ER SU PPDU or HE MU PPDU that is inter-BSS PPDU is an SRG PPDU if the received RXVECTOR parameter UPLINK\_FLAG equal to 1 and 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." | Revised – TGax editor to make changes as shown in 11-19/0613r2 that are marked with CID 20307 which add a requirement that the AP shall set its own BSS color bitmap bit and and partial BSSID bitmap bit to 0 in the SRP element. With this new condition, the color or bitmap position matching test described in the cited text can only succeed when the PPDU is indeed, definitively inter-BSS and the condition of inter-BSS therefore does not need to be added into the paragraph cited by the commenter. |

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| 20279 | Kaiying Lv | 3.2 | 40.01 | SRP opportuntiy can be identified by the HE-SIG-A of the HE TB PPDU and/or the UL SR field in common info field of trigger frame | Change to "spatial reuse parameters (SRP) opportunity: a spatial reuse opportunity that is established based on the value of the Spatial Reuse field in the HE-SIG-A field of an HE TB PPDU and /or the UL spatial reuse field in the common info field of a Trigger frame." | Revised – TGax editor to make changes as shown in 11-19/0613r2 that are marked with CID 20306 which add a requirement that the AP shall set its own BSS color bitmap bit and partial BSSID bitmap bit to 0 in the SRP element. With this new condition, the color or bitmap position matching test described in the cited text can only succeed when the PPDU is indeed, definitively inter-BSS and the condition of inter-BSS therefore does not need to be added into the paragraph cited by the commenter. |
| 20336 | Kaiying Lv | 26.10.2.3 | 395.25 | change "the BSS color and partial BSSID bitmap values" to "the bits of the SRG BSS color bitmap field and the SRG partial BSSID bitmap field" | As in comment. | Revised – TGax editor to make changes as shown in 11-19/0613r2 that are marked with CID 20336 which change the statements to refer to the bits in the fields as suggested by the commenter. |
| 20345 | Kaiying Lv | 26.10.3.2 | 402.14 | delete "the Spatial Reuse information of" | As in comment. | Revised – TGax editor to make changes as shown in 11-19/0613r2 that are marked with CID 20345 which use the correct formal language which in the case of a reception, should refer to RXVECTOR parameters and not a subfield of the HE SIGA. |
| 21115 | Oghenekome Oteri | 27.3.10.7.2 | 526.28 | Define other values of SPATIAL REUSE field here or under the table. Difficult to find definitions in reference. | 1) define the additional parameters (2) give a more precise reference (3) possibly define the paramters below the table i.e. Table 27-22. For example:"Set SR\_RESTRICTED to limit the SR PPDU transmisison to the duration of the received PPDU. Set SR\_DELAY to reset CCA at the end of the PPDU. See 26.10.2.2 and 26.10.2.3" | Revised – TGax editor to make changes as shown in 11-19/0613r2 that are marked with CID 21115 which move all relevant descriptions to the MAC subclauses where they belong. The language is rewritten so that there is a more natural flow of the information as desired by the commenter. |
| 21116 | Oghenekome Oteri | 27.3.10.7.2 | 529.42 | Define other values of SPATIAL REUSE field here or under the table. Difficult to find definitions in reference. | 1) define the additional parameters (2) give a more precise reference (3) possibly define the paramters below the table i.e. Table 27-22. For example:"Set SR\_RESTRICTED to limit the SR PPDU transmisison to the duration of the received PPDU. Set SR\_DELAY to reset CCA at the end of the PPDU. See 26.10.2.2 and 26.10.2.3" | Revised – TGax editor to make changes as shown in 11-19/0613r2 that are marked with CID 21116 which move all relevant descriptions to the MAC subclauses where they belong. The language is rewritten so that there is a more natural flow of the information as desired by the commenter. |
| 21117 | Oghenekome Oteri | 27.3.10.7.2 | 533.12 | Define other values of SPATIAL REUSE field here or under the table. Difficult to find definitions in reference. (All 4 entries) | 1) define the additional parameters (2) give a more precise reference (3) possibly define the paramters below the table i.e. Table 27-22. For example:"Set SR\_RESTRICTED to limit the SR PPDU transmisison to the duration of the received PPDU. Set SR\_DELAY to reset CCA at the end of the PPDU. See 26.10.2.2 and 26.10.2.3" | Revised – TGax editor to make changes as shown in 11-19/0613r2 that are marked with CID 21117 which move all relevant descriptions to the MAC subclauses where they belong. The language is rewritten so that there is a more natural flow of the information as desired by the commenter. |
| 21118 | Oghenekome Oteri | 27.3.10.7.2 | 538.10 | Define other values inf SPATIAL REUSE field in Table 27-22 | Definitions all over the place e.g. See 526 line 28 and See 26.10.2.2 and 26.10.2.3" pg 394 line 31 and line 25 | Revised – TGax editor to make changes as shown in 11-19/0613r2 that are marked with CID 21118 which move all relevant descriptions to the MAC subclauses where they belong. The language is rewritten so that there is a more natural flow of the information as desired by the commenter. |
| 20678 | Mark Rison |  |  | The terms "SR PPDU" and "SRP PPDU" are easy to confuse | Change the abbreviations so they are not so similar | Revised – TGax editor to make changes as shown in 11-19/0613r2 that are marked with CID 21118 which move all relevant descriptions to the MAC subclauses where they belong. The language is rewritten so that there is a more natural flow of the information as desired by the commenter. |

**Discussion:**

xxxx

**Proposed Changes to TGax D4.2:**

***TGax editor: within subclause 9.3.1.22.9 NDP Feedback Report Poll (NFRP) variant of TGax D4.2, change the following text:***

**9.3.1.22.9 NDP Feedback Report Poll (NFRP) variant**

The UL Target RSSI subfield indicates the target RSSI at the antenna connector(s), over the PPDU bandwidth, from the non-HE portion of the preamble of the HE TB feedback NDP, averaged over all antennas used to receive the PPDU for all scheduled STAs. The resolution for the UL Target RSSI subfield is 1 dB. The UL Target RSSI subfield encoding is defined in Table 9-31h (UL Target RSSI subfield encoding). **(#20559)**

***TGax editor: within subclause 26.2.3 SRG PPDU identification of TGax D4.2, change the following text:***

**26.2.3 SRG PPDU identification**

A received HE PPDU is an SRG PPDU if the bit in the SRG BSS Color Bitmap field indexed by the value of the RXVECTOR parameter BSS\_COLOR is 1 (see 9.4.2.246 (Spatial Reuse Parameter Set element)). A received VHT PPDU is an SRG PPDU 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 (see 9.4.2.246 (Spatial Reuse Parameter Set element)). **(#20305)(#20306)(#20307)**

A received 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. **(#20305)(#20306)(#20307)**

***TGax editor: within subclause 26.10.2.3 General operation with SRG OBSS PD level of TGax D4.2, change the following text:***

**26.10.2.3 General operation with SRG OBSS PD level**

An AP that sends a Spatial Reuse Parameter Set element with the SRG Information Present subfield in the SR Control field set to 1 shall set the SRG BSS Color Bitmap and SRG Partial BSSID Bitmap fields as follows:

* If the transmitting AP is in the same ESS as another AP (i.e. with the same SSID, and connected by a DS), or is controlled by the same external management entity as another AP (irrespective of SSID), then the transmitting AP may set to 1 the bits of the SRG BSS Color Bitmap and/or SRG Partial BSSID Bitmap fields that correspond to that other AP if they do not correspond to the AP’s own BSS Color and/or Partial BSSID and if they do not correspond to those of any AP from which the most recently received HE Operation element has the BSS Color Disabled field equal to 1 **(#20305)(#20306)(#20336)(#20307)**
* Else, the AP shall set the bits in the SRG BSS Color Bitmap and/or SRG Partial BSSID Bitmap to 0.

***TGax editor: within subclause 26.10.3.1 General of TGax D4.2, change the following text:***

**26.10.3.1 General**

An SRP opportunity is identified from the value of the RXVECTOR parameter SPATIAL\_REUSE of an HE TB PPDU and/or the contents of a Trigger frame. An HE STA may initiate an SR transmission during an SRP opportunity for the duration of an ongoing PPDU when certain conditions, designed to avoid interfering with the reception of the ongoing PPDU at the recipient, are met. If the RXVECTOR parameter SPATIAL\_REUSE of the ongoing PPDU has the value SRP\_DISALLOW or SRP\_AND\_NON\_SRG\_OBSS\_PD\_PROHIBITED, no SRP-based SR transmission is allowed for the duration of that PPDU. **(#20342)**

An AP sending a Trigger frame may set the Spatial Reuse *n* field(s) in the UL Spatial Reuse subfield of the Common Info field of the Trigger frame to SRP\_- DISALLOW or, if permitted by the rules in 26.11.6 (SPATIAL\_REUSE)(#20615), to SRP\_AND\_NON\_SRG\_ OBSS\_PD\_PROHIBITED to disallow OBSS STAs from performing SRP-based SR transmission during the ensuing uplink PPDU duration. An AP sending a Trigger frame shall not set the SR field in the Common Info field of the Trigger frame to SR\_DELAYED(#21485) or SR\_RESTRICTED. **(#20343)**

***TGax editor: within subclause 26.10.3.2 SRP-based spatial reuse initiation of TGax D4.2, change the following text:***

**26.10.3.2 SRP-based spatial reuse inititation**

The value of RPL is equal to the RSSI at the antenna connector(s), over the triggering PPDU bandwidth, during the non-HE portion of the HE PPDU preamble of the triggering PPDU, averaged over all antennas used to receive the PPDU. **(#20559)**

**For reference:**

**D4.0:**

b) The value of the Spatial Reuse information of the Spatial Reuse field in the HE-SIG-A field of the HE TB PPDU that follows the SRP PPDU

**D4.1:**

b) The value of the (#20345)Spatial Reuse field in the HE-SIG-A field of the HE TB PPDU that follows the SRP PPDU

**Back to proposed changes:**

***TGax editor: within subclause 26.10.3.2 SRP-based spatial reuse initiation of TGax D4.2, change the following text:***

2) An SR PPDU is queued for transmission and the intended transmit power of the SR PPDU, after normalization to 20 MHz bandwidth (i.e., the transmit power in dBm minus the value, in dB of the intended transmit bandwidth divided by 20 MHz), is below the value of SRP minus RPL, where SRP is the value obtained from Table 27-23 (Spatial Reuse field encoding for an HE TB PPDU) based on at least one of:

1. The value of the UL Spatial Reuse field(#20344) in the Common Info field of the SRP PPDU **(#20678)**
2. The value of the Spatial Reuse parameter of the RXVECTOR of the PHY-RXSTART.indication of the HE TB PPDU that follows the SRP PPDU **(#20345)**

***TGax editor: within subclause 26.10.3.4 Spatial Reuse subfield of Trigger frame of TGax D4.2, change the following text:***

**26.10.3.4 Spatial Reuse subfield of Trigger frame**

Where

 *TX\_PWRAP* is the total power at the antenna connector(s), in dBm per 20 MHz bandwidth, over all antennas used to transmit the PPDU containing the Trigger frame for each 20 MHz transmit bandwidth for 20 MHz, 40 MHz, and 80 MHz PPDU or in each of the 40 MHz transmit bandwidths for an 80+80 MHz or 160 MHz PPDU. **(#20559)**

Acceptable Receiver Interference LevelAP is a value in dBm normalized to a 20 MHz bandwidth (i.e., minus transmit bandwidth divided by 20 MHz bandwidth in dB) for each 20 MHz transmit bandwidth for 20 MHz, 40 MHz, and 80 MHz PPDU or in each of the 40 MHz transmit bandwidths for an 80+80 MHz or 160 MHz PPDU and should be set to value of the UL target RSSI indicated in the Trigger frame minus the minimum SNR value that yields ≤ 10% PER for the highest MCS of the ensuing uplink HE TB PPDU, minus a safety margin value not to exceed 5 dB as determined by the AP.

**27.3.10.7.2 Content**

***TGax editor: within subclause 27.3.10.7.2 Content of TGax D4.2, change the “Description” entry for each occurrence of the “Field” “Spatial Reuse” and each occurrence of a the “Field” “Spatial Reuse n” where n==[1,4], within each of the Tables***

**Table 27-18—HE-SIG-A field of an HE SU PPDU and HE ER SU PPDU**

**Table 27-20—HE-SIG-A field of an HE MU PPDU**

**Table 27-21—HE-SIG-A field of an HE TB PPDU**

***as follows:***

1. ***In each table, remove the paragraph that begins with “Set to SRP\_DISALLOW to prohibit” (1 location each for Table 27-18, Table 27-19, four locations for Table 27-21)***
2. ***In each table, modify the paragraph that begins with “Set to the value of the SPATIAL\_” by adding the reference “and 26.10 (Spatial reuse operation)” to the existing reference of “see 26.11.6 (SPATIAL\_REUSE))”***

***The following text is shown as an example:***

Set to the value of the SPATIAL\_REUSE(1) parameter of the TXVECTOR, which contains a value from Table 27-23 (Spatial Reuse field encoding for an HE TB PPDU) for an HE TB PPDU (see 26.11.6 (SPATIAL\_ REUSE) and 26.10 (Spatial reuse operation)).

 **(#21115)(#21116)(#21117)(#21118)**

**26.11.6 SPATIAL\_REUSE**

***TGax editor: within subclause 26.11.6 SPATIAL\_REUSE of TGax D4.2, modify the text of the first paragraph of the subclause as shown:***

The contents of the Spatial Reuse fields(#20874) are carried in the TXVECTOR parameter SPATIAL\_ REUSE for an HE PPDU indicating spatial reuse information. The behavior of STAs upon reception of an HE PPDU with different SPATIAL\_REUSE values is described in 26.10.2 (OBSS PD-based spatial reuse operation) and 26.10.3 (SRP-based spatial reuse operation). The different values that may be indicated in the SPATIAL\_REUSE parameter of the TXVECTOR are listed in Table 27-22—Spatial Reuse field encoding for an HE SU PPDU, HE ER SU PPDU, and HE MU PPDU and Table 27-23—Spatial Reuse field encoding for an HE TB PPDU. The value SRP\_DISALLOW is used to prohibit SRP-based spatial reuse during the transmission of the corresponding PPDU. The value SRP\_AND\_NON\_SRG\_ OBSS\_PD\_PROHIBITED is used to prohibit both SRP-based spatial reuse and non-SRG OBSS PD-based spatial reuse during the transmission of the corresponding PPDU. The interpretation of other values are described in this subclause and in 26.10 (Spatial reuse operation). The conditions for a STA to set the SPATIAL\_ REUSE parameter to its different values are described in this subclause. **(#21115)(#21116)(#21117)(#21118)**

***TGax editor: within subclause 27.3.14.2 Power pre-correction of TGax D4.2, change the following text:***

**27.3.14.2 Power pre-correction**

where

*TxAPpwr* is in dBm and represents the AP's transmission power and is equal to the value of the AP Tx Power subfield of the Common Info field in the Trigger frame, the encoding of which is specified in 9.3.1.22 (Trigger frame format) or the DL Tx Power subfield of the TRS Control field as specified in 9.2.4.6a.1 (TRS Control).

*DLRSSI* represents the RSSI at the antenna connector(s) of the STA, over the triggering PPDU bandwidth, during the non-HE portion of the HE PPDU preamble of the triggering PPDU, normalized to 20 MHz bandwidth. *DLRSSI* in dBm is an average of the received power over the antennas on which the average *PLDL* is being computed. If the triggering PPDU is an HT-mixed, VHT or HE PPDU, then the received power is measured from the fields prior to the HT-STF, VHT-STF or HE-STF, respectively. (#20560) **(#20559)**

***TGax editor: within and throughout TGax D4.2, make the following changes, in the order shown:***

1. ***Change all occurrences of “the Trigger frame of the SRP PPDU” to “the SRPR PPDU”***
2. ***Change all occurrences of “SRP PPDU” to “SRPR PPDU”***
3. ***Change all occurrences of “SR PPDU” to “SRPT PPDU”***
4. ***Change all occurrences of the MIB variable dot11SRResponderOptionImplemented to dot11SRPTResponderOptionImplemented***

***Editor to note that there are a few occurrences of affected text within diagrams as follows:***

**9.2.4.6a.7 CAS Control**

**Figure 9-22h—Control Information subfield for CAS Control**

**26.10.3.2 SRP-based spatial reuse initiation**

**Figure 26-12—SRP PPDU spatial reuse**

***Editor to note that the DESCRIPTION field of the MIB variable dot11SRResponderOptionImplemented is also affected.***

***Editor to mark all of these changes with CID 20678, as per precedent and editor’s discretion***

**3.2 Definitions specific to IEEE 802.11**

***TGax editor: within subclause 3.2 Definitions specific to IEEE 802.11 of TGax D4.2, change the following text:***

**spatial reuse parameters transmission (SRPT) physical layer (PHY) protocol data unit (PPDU) (SRPT PPDU):** a PPDU that is trans-mitted during a spatial reuse parameters (SRP)(#20496) opportunity by an HE STA when SRP conditions for SRP-based spatial reuse operation are satisfied and that has the SRPT PPDU subfield of the CAS Control field equal to 1. **(#20678)**

**spatial reuse parameters reception (SRPR)(#20496) physical layer (PHY) protocol data unit (SRPR PPDU):** a PPDU that contains a Trigger frame that has a value in the UL Spatial Reuse subfield of the Common Info field that is neither SRP\_DISALLOW nor SRP\_AND\_NON\_SRG\_OBSS\_PD\_PROHIBITED. **(#20678)**

**End of proposed changes.**