IEEE P802.11
Wireless LANs

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| Comment resolution for CIDs: 289, 970, 557, 610, 663, 971, 1619, 125, 1342, 851, 550, 549 |
| Date: 2011-05-08 |
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Abstract

The document provides the comment resolution for the CIDs: 289, 970, 557, 610, 663, 971, 1619, 125, 1342, 851, 550, 549.

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| 610 | Kim, Youhan | 22.3.9.2.3 | 101 | 53 | TR | The field name is "No TXOP PS", but a value of 1 means TXOP PS is allowed. This seems a little confusing. | Please consider changing the polarity of the bit (i.e. 1 if TXOP PS is NOT permitted.) | AGREE. Changed the text accordingly |
| 663 | Kneckt, Jarkko | 22.3.9.2.3 | 101 | 53 | ER | The bit No TXOP PS set to 1 logically suggests that TXOP PS is not in use. "No" could be removed from the name | Change: "No TXOP PS" to "TXOP PS" | AGREE. Changed the text accordingly |
| 125 | Au, Edward (Kwok Shum) | 22.3.9.2.3 | 101 | 53,54 | TR | The sentences "No TXOP PS: Set to 1 if TXOP PS permitted. Set to 0 otherwise." are inconsistent with the corresponding sentences in 11-09-0992-21-00ac-proposed-specification-framework-for-tgac, which are "No TXOP PS: Set to 1 to indicate that TXOP PS is not allowed. Set to 0 to indicate that TXOP PS is allowed."  | These sentences should be modified into "Set to 1 if TXOP PS not permitted. Set to 0 otherwise." | AGREE. Changed the text accordingly |
| 1342 | Zhang, Hongyuan | 22.3.9.2.3 | 101 | 53-54 | TR | This field is named as "No TxOP PS field", so default should be 1 | Change description to "Set to 0 if TXOP PS permitted, Set to 1 otherwise" | AGREE. Changed the text accordingly |
| 971 | Santosh Abraham, Simone Merlin | 22.3.9.2.3 | 101 | 53 | TR | B22 "No TXOP PS" is set to 1 if TXOP PS permittedSet to 0 otherwise;" bit setting description is opposite of what name suggest. Description need be consistent with motion; |  Motion 36 in January Agenda DCN 11/0011r4, which refers to slide #4 of 11/0091r0, defines the B22=1 if no TXOP PS is allowed, and B22=0 if TXOP PDS is allowed; Keep the field name and change the description to the "set to 1 if TXOP PS is not permitted; Set to 1 if TXOP PS is permitted"; this is consistent with the definition of the parameter TXOP\_PS\_NOT\_ALLOWED (11.2.1.4a); Note that it is also preferred from a PHY perspective: reserved bits in PHY preamble are set to 1; an AP which des not support the TXOP PS mode can leave the bit set to 1. | AGREE. Changed the text accordingly |
| 1619 | Zhu, Chunhui | 22.3.9.2.3 | 101 | 53 | TR | The field name "No TXOP PS" does not match the descriptions well; when it is set to 1 (which usually means TRUE), the description says it indicates TXOP PS permitted.  | change the description to "Set to 1 if TXOP PS not permitted; Set to 0 otherwise" | AGREE. Changed the text accordingly |
| 970 | Santosh Abraham, Simone Merlin | 22.2.2 | 77 | 49 | TR | the name of the parameter TXO P\_PS is not consistent with the one used in 11.2.1.4a (TXOP\_PS\_NOT\_ALLOWED) | use TXOP\_PS\_NOT\_ALLOWED | AGREE. Changed the text accordingly |
| 557 | Hsieh, Jing-Rong | 22.2.2 | 77 | 47-51 | ER | To be consistent with what mentioned in line 19, page 61, change the parameter name from "TXOP\_PS" to "TXOP\_PS\_NOT\_ALLOWED." Also, it is suggested to use the term "Doze state" instead of "doze mode." | TXOP\_PS\_NOT\_ALLOWED. 0 indicates AP allows non-AP VHT STAs to enter Doze state during a TXOP. | AGREE. Changed the text accordingly |

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| 851 | Perahia, Eldad | 22.3.9.2.3 | 101 | 52-54 | TR | This is a new Bit. This could use more definition. It is not clear what this bit does and there is no other description in the PHY portion of the document. Could this be signaled in a packet instead of using the SIG field. |  | The TXOP power save is basically applicable during the SU/MU transmissions in a TXOP, the complete packet is not decodable by all the STAs for the power save. Hence it is signaled in the VHT-SIG-A |

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| 550 | Hsieh, Jing-Rong | 22.3.9.23 | 101 | 52-54 | TR | Originally, the "NO TXOP PS" subfield in the preamble of VHT PPDU does not have definition in the uplink direction. If the VHT TXOP PS subfield in VHT Capability Info field is approved to represent whether or not a STA supports the TXOP PS mode as the comment above, it is suggested that "NO TXOP PS" can be used to indicate if the non-AP VHT STA is in VHT TXOP PS mode. It can thus prevent from executing the association process to change the power management mode. | In the description of "NO TXOP PS" subfield, for the downlink VHT PPDU, it is set to 1 if non-AP STAs are not allowed to enter Doze state during TXOP and set to 0 otherwise. As for uplink VHT PPDU, the "NO TXOP PS" subfield is set to 1 if the STA is not in TXOP PS mode and set to 0 otherwise. If the TXOP PS mode is not supported, this subfield is ignored. As an alternative, the subfield can be renamed to "TXOP PS" and its values and definitions can be set accordingly. | DISAGREE. The bit is resevered when transmitted from STA. It will be an overhead if the bit needs to be monitored for every frame transmitted/received for the feature that does not change so often. |
| 289 | Hart, Brian | 22.2.2 | 77 | 48 | TR | What if the STA is not an AP? | Define | AGREE. Set to 1, the default value of reserved bit. |

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| 549 | Hsieh, Jing-Rong | 7.3.2.61.2 | 31 | 9-12 | TR | The usage of VHT TXOP PS subfield in VHT Capabilities Info field for STAs is suggested to be modified as follows. For a non-AP VHT STA, the VHT TXOP PS subfield is recommended to advertise whether or not "it supports this functionality" rather than indicating "it is in VHT TXOP PS mode". Otherwise, it may raise the situation that non-AP VHT STA has VHT TXOP PS subfield set while VHT AP does not support VHT TXOP PS mode. Even both sides support this function, the STA needs to perform association process every time to switch among VHT TXOP PS mode, Active mode, and PS mode. Hence, it is also suggested to use an alternative and more flexible method to indicate whether or not the STA is in VHT TXOP PS mode. | Indicates whether or not STA supports VHT TXOP PS mode. Set to 0 if STA does not support VHT TXOP PS mode. Otherwise, set to 1. Use an alternative method to indicate if a STA is in VHT TXOP PS mode. | Added clarification for the same on the behaviour of the AP in the section 11.2.1.4a. “If the dot11VHTTXOPPowerSave at VHT AP is set to false then the VHT AP shall set the TXOP\_PS\_NOT\_ALLOWED to 1 in the TXVECTOR of the frames with FORMAT VHT.” In addition, as clarification provided for the CID #550, for the feature that is not going to change frequently, it is not required to be monitored every frame. |

**Editing Instructions**

Change the lines 52~54 in the Table 22-9 VHT-SIG-A fields as follows:

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| B22 | TXOP\_PS\_NOT\_ALLOWED | 1 | Set to 0 by VHT AP if it allows non-AP VHT STAs in TXOP power save mode to enter Doze state during aTXOP. Set to 1 otherwise.The bit is reserved and set to 1 in the VHT PPDUs transmitted by non-AP VHT STA. |

Change the lines 47-58 in the Table 22-1 TXVECTOR and RXVECTOR parameters

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| TXOP\_PS\_NOT\_ALLOWED | FORMAT is VHT | Indicates whether or not VHT AP allows non-AP VHT STAs in TXOP power save mode to enter Doze state during the TXOP.0 indicates that the VHT AP allows non-AP VHT STAs to enter Doze state. 1 indicates that theVHT AP does not allow non-AP VHT STAs to enter the Doze state. | Y | Y |

Pre-Motion 1:

Do you accept the resolutions provided to the CIDs 289, 970, 557, 610, 663, 971, 1619, 125, 1342, 851, 550, 549 and the changes to the spec text as presented in editing instructions section of this document?

Yes:

No:

Abstain:

**References:**

1. IEEE Draft P802.11ac\_D0.1
2. IEEE 11-11-0276-05-00ac-tgac-d0-1-comments