IEEE P802.11  
Wireless LANs

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| D2.0 Comment Resolution –Clause 22.3.8.2.1 ~ 22.3.8.2.2 | | | | |
| Date: March 12th 2011 | | | | |
| Author(s): | | | | |
| Name | Affiliation | Address | Phone | email |
| Minho Cheong | ETRI |  |  | minho@etri.re.kr |
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Abstract

This document provides resolutions for CID 5155, 5003, 5156, 5299, 5475, 5157 and 5300.

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| **CID** | **Page** | **Clause** | **Comment** | **Proposed change** | **Resolution** |
| 5155 | 204.18 | 22.3.8.2.1 | Redundant definition [Q]\_N | Since [Q]\_M:N already indicates a matrix consisting of columns M to N, there is no need for a separate notation to indicate the first N columns of Q. Just use notation [Q]\_1:N. Remove definition of [Q]\_N | ACCEPT.  See 12/0335. |
| <Discussion>  It is redundant as the commented pointed out.  Among the entire clause 22, there is only one place [Q]\_N type expression is used, that is, [Qk]NSTS Figure 22-15.  Also considering fixing error in its column number, it needs to be change into [Qk] 1:NSTS,total    **TGac editor: modify the D2.0 text from P204L12, as follows**  The following notational conventions are used in Clause 22:  indicates the element in row *m* and column *n* of matrix  indicates a matrix consisting of columns  to  of matrix  The index for the top left element of  is (1, 1)(#388)  **TGac editor: modify the D2.0 text from P213L20, as follows**  Change [Qk] NSTS in Figure 22-15 into [Qk] 1:NSTS,total | | | | | |
| 5003 | 204.37 | 22.3.8.2.2 | "prevent beamforming" should be changed to "prevent unnecessary beamforming". | As in comment | REVISE.  See 12/0335. |
| 5299 | 204.37 | 22.3.8.2.2 | "prevent beamforming when similar signals are transmitted in different space-time streams. The same cyclic shift is applied to these streams during the transmission of the Data field of the VHT PPDU. The cyclic shift value .." | Maybe say: "prevent unintentional beamforming when same signals are transmitted in multiple space-time streams. The cyclic shift values are applied to these streams also during the transmission of the Data field of the VHT PPDU. The cyclic shift values .." | REVISE.  See 12/0335. |
| 5475 | 204.38 | 22.3.8.2.2 | "similar signals" is not accurate in technology | Change "similar" to "correlated" | ACCEPT.  See 12/0335. |
| 5156 | 204.37 | 22.3.8.2.2 | Correct terminology | Replace "Throughout the VHT portion of the VHT format preamble" with "Throughout the VHT modulated fields of the preamble" | ACCEPT.  See 12/0335. |
| <Discussion>  What the commenter pointed out by CID 5003 is right. But, it seems better to re-write as “prevent unintentional beamforming” (CID 5299 suggests as a resolution) and “correlated signals” (CID 5475 suggests as a resolution).  As for CID 5156, what the commener pointed out is correct. CSD value for VHT modulated fields starting with VHT-STF defined in clause 22.3.8.2.2 is not applied to VHT-SIG-A, because VHT-SIG-A belongs to VHT portion of the VHT format preamble, but doesn’t belong to VHT modulated fields of the preamble as shown in Figure 22-10.  For your more understanding, “VHT portion of the VHT format preamble” means newly introduced fields for VHT preamble and “VHT modulated fields of the preamble” means fields to which the same CSD value is applied.    **TGac editor: modify the D2.0 text from P204L37, as follows**  Throughout the VHT modulated fields of the preamble, cyclic shifts are applied to prevent unintentional beamforming when correlated signals are transmitted in multiple space-time streams. The same cyclic shift is applied to these streams also during the transmission of the Data field of the VHT PPDU. | | | | | |
| 5157 | 204.42 | 22.3.8.2.2 | Correct terminology | Replace "the portion of the PPDU following the VHT-SIG-A field" with "VHT modulated fields of the preamble" | REVISE.  See 12/0335. |
| 5300 | 204.50 | 22.3.8.2.2 | (Cyclic shift values of VHT portion of PPDU) should be (Cyclic shift values of the VHT modulated fields). | As in comment, also fix title of Table 22-10. Maybe there are also problems elsewhere. | ACCEPT.  See 12/0335. |
| <Discussion>  I think the commenter’s intention is right. But, a little revision needed in order to include the VHT modulated fields of the preamble (what the commenter suggested) and the subsequent data field of the VHT PPDU as well.  We also need to change the title of Figure 22-10 and other related texts as pointed by CID5300.    **TGac editor: modify the D2.0 text from P204L42, as follows**  The cyclic shift value  for the VHT modulated fields for space-time stream *n* out of *NSTS,total* total spacetime streams is shown in Table 22-10 (Cyclic shift values of VHT modulated fields of PPDU).  **TGac editor: modify the D2.0 text from P205L01, as follows**  **Table 22-10—Cyclic shift values of VHT modulated fields of PPDU**  **TGac editor: modify the D2.0 text from P182L49, as follows**  These transmit blocks are also used to generate the non-VHT modulated fiels of the VHT PPDU, except that the BCC encoder and interleaver are not used when generating the L-STF and L-LTF fields.  **TGac editor: modify the D2.0 text from P205L04, as follows**  **values for VHT modulated fields of PPDU** | | | | | |