IEEE P802.11  
Wireless LANs

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| CR for CID 9463 on beamforming formulate | | | | |
| Date: 2017-09-12 | | | | |
| Author(s): | | | | |
| Name | Affiliation | Address | Phone | email |
| Sungeun Lee | Cypress Semiconductor Corporation | Hazlet, NJ, 07730 |  | sungeun.lee at cypress.com |

Abstract

* The submission provides resolution for the SU-MIMO and DL MU-MIMO beamforming formula.
* This document contains comment resolution for 1 CID:
  + CID 9463
* The proposed changes are based on **P802.11ax D1.4 on clauses 28.3.15.1**

Rev. 0 initial version of the document

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.***

* Technical comments for 28.3.15.1 of P802.11ax D1.0

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **CID** | **Page** | **Clause Number** | **Comment** | **Proposed Change** | **Resolution** |
| 9463 | 343.17 | 28.3.15.1 | In Equation (28-121), the sub-index for Q\_k,N\_user-1 should be corrected as Q\_k,N\_user,r -1 | As in comment | **Revised**  Agree in principal to update the formula, and while reviewing the formula, it is found there is another place to update, it is done together for consistency.  *TGax Editor*: For consistency, please change *Nuser* to *Nuser,r* (marked as CID 9463) as indicated in **doc.: IEEE 802.11-17/1468r0** |

**Discussion**

The modification resolves the CID

**Changes on Section 28.3.15.1**

***To TGax editor:***  *For consistency, replace the current text in* ***P441L32*** *and* ***P441L37*** *of* ***P802.11ax D1.4*** *with the proposed changes below.*

***------------- Begin Text Changes ---------------***

For SU-MIMO and DL MU-MIMO beamforming in RU *r*, the receive signal vector in subcarrier *k* (where subcarrier *k* is one of the subcarriers in RU *r*, ) at beamformee *u*, , is shown in Equation (28-115), where  denotes the transmit signal vector in subcarrier *k* for all *Nuser,r* (#9463) beamformees, with  being the transmit signal for beamformee *u*.

(#9463) where



***------------- End Text Changes ---------------***