IEEE P802.11
Wireless LANs

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| RXVECTOR Parameter CSI\_ESTIMATE |
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Abstract

This submission proposes a possible definition for the RXVECTOR parameter CSI\_ESTIMATE.

**Discussion**:

* It is necessary to define an RXVECTOR parameter that allows the MAC/SME to retrieve CSI measurements needed to support the WLAN sensing procedure.
* TGbf’s draft already assume the existence of such parameter. For example,



**Modifications**: Editor – Please add the following parameter to Table 27-1 (TXVECTOR and RXVECTOR parameters) under 27.2.2 (TXVECTOR and RXVECTOR parameters) and 27.2 (HE PHY service interface)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Parameter** | **Condition** | **Value** | **TXVECTOR** | **RXVECTOR** |
| CSI\_ESTIMATE | FORMAT is either HE\_SU or HE\_TB, and PSDU\_LENGTH is 0 | Contains an array of CSI values based on the channel measured during the training symbols of the received HE Ranging NDP or HE TB Ranging NDP (see 11.55.1 (WLAN sensing procedure)). The number of complex elements is $N\_{SC}×N\_{TX}×N\_{RX}$ where $N\_{SC}$ is the total number of subcarriers, $N\_{TX}$ is the number of transmit antennas, and $N\_{RX}$ is the number of receive antennas. |   N |   Y |
| Otherwise | Not present |  N | N |

Editor – Please add the following parameter to Table 36-1 (TXVECTOR and RXVECTOR parameters) under 36.2.2 (TXVECTOR and RXVECTOR parameters) and 36.2 (EHT PHY service interface)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Parameter** | **Condition** | **Value** | **TXVECTOR** | **RXVECTOR** |
| CSI\_ESTIMATE | FORMAT is EHT\_MU, PSDU\_LENGTH is 0, and CH\_BANDWIDTH is either CBW320-1 or CBW320-2 | Contains an array of CSI values based on the channel measured during the training symbols of the received EHT sounding NDP (see 11.55.1 (WLAN sensing procedure)). The number of complex elements is $N\_{SC}×N\_{TX}×N\_{RX}$ where $N\_{SC}$ is the total number of subcarriers, $N\_{TX}$ is the number of transmit antennas, and $N\_{RX}$ is the number of receive antennas. |   N |   Y |
| Otherwise | Not present |  N | N |

**Notes (for HE text):**

* PSDU Length



* Format



* Main reference:



**Notes (for EHT text):**





