IEEE P802.11
Wireless LANs

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| CC40 CR for CSI related CIDs |
| Date: 2022-11-09 |
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Abstract

This submission proposes resolutions of comments received from TGbf comment collection 40 (TGbf Draft 0.1).

* CIDs: 19 and 296. (2 CIDs)

Revisions:

* Rev 0: Initial version of the document.

### Introduction

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 TGbf Draft. The introduction and the explanation of the proposed changes are not part of the adopted material.

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

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

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| **CID** | **Commenter** | **Clause** | **Page** | **Line** | **Comment** | **Proposed Change** | **Resolution** |
| 19 | Rajat Pushkarna | 11.21.18.6.5 | 70 | 59 | CSI variation captures and measures CSI variation for whole CSI, which may be computational heavy and may not be effective for power restrained devices. Moreover, not all application require full CSI feedback. | Threshold based reporting can be further extended to limit the feedback by using the CSI variation only for amplitude or phase and reporting the part i.e. amplitude or phase which has crossed the CSI variation | ***Rejected.***TGbf Editor to make **no** changes to the spec text.  |
| 296 | Rojan Chitrakar | 9.4.2.318 | 34 | 28 | In the sub-7 GHz, while some sensing applications make use of both amplitude and phase components of CSI, a vast majority of sensing applications only use one of them, either amplitude or phase, but not both. 11bf should support providing reports for either the amplitude component or the phase component of CSI in order to reduce the overhead of the sensing measurement report. | Add the following two optional Sensing Measurement Report Type values to Table 9-401s:1. CSI\_Amplitude2. CSI\_PhaseFor Type = 1 (CSI\_Amplitude), only the amplitude component of the CSI is reported and for Type = 2 ( CSI\_Phase), only the phase component of the CSI is reported. Refer to 21/1921r1 for further details. | ***Rejected.***TGbf Editor to make **no** changes to the spec text. |

**Baseline is D0.4**

**SP:** Do you agree to the resolutions provided in the document 11-22/1932r0 for the following CIDs: 19 and 296 for inclusion in the latest 11bf draft?

### Discussion

It has been already discussed in 802.11 TGbf that there will be only one measurement report type for sensing measurement report. Table 9-401r Sensing Measurement Report Type field definition describes only one measurement report type which is CSI. Therefore, TGbf has only 1 sensing measurement report type which is CSI. 

DCN 21/1921r1 presented a contribution related to the CIDs; upon discussion it was pointed that it would be simpler to have a single measurement report type which is CSI. The straw poll was run for the document and the document did not gain majority support. (10-May'22-r1 - SP: 24Y, 16N ,13A).

**References:**

[1] P802.11bf specification draft.