IEEE P802.11
Wireless LANs

|  |
| --- |
| **CC40 CR for CID 575** |
| **Date:** 2022-12-xx |
| **Author(s):** |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Name** | **Affiliation** | **Address** | **Phone** | **Email** |
| Dongguk Lim  | LG Electronics | 19, Yangjae-daero 11gil, Seocho-gu, Seoul 137-130, Korea  |   | dongguk.lim@lge.com  |
| Insun Jang |  | insun.jang@lge.com |
| Sanggook Kim |  | sanggook.kim@lge.com |
| Jinsoo Choi |  | js.choi@lge.com |

Abstract

This submission proposes the resolutions for following 2 CID

* 575, 501

Revisions:

* Rev 0: Initial version of the document.
* Rev 1 : update the resolution based on the decision of related CR documents and add CID 501

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 D0.5 Draft. This introduction is not part of the adopted material.

***Editing instructions formatted like this are intended to be copied into the TGbf D0.5 Draft (i.e. they are instructions to the 802.11 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.***

#### *CID 575, 501*

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **CID** | **Clause** | **PP.LL** | **Comment** | **Proposed Change** | **Resolution** |
| 575 | 11.21.19.2 | 73.26 | The text of the Editor's note defines the measurement between the responder to the responder. But, detailed things for the R2R are not described yet, Define the detailed procedure for the R2R measurement in the SBP. | Define the detailed procedure for the R2R measurement in the SBP. | Revised The details for the R2R sounding were defined by the DCN 22/1368r4. And, we determinded that the sensing measurement parameters element defined in clause 9.4.2.319 is used in the SBP procedure. Based on the 22/1988r0, SR2SR indication is defined in the sensing measurement parameters element and sensing elements. So, we don’t need to further change. TGbf editor: No further change needs.  |
| 501 | 11.21.19.2 | 73.26 | Regarding the Editor's Note, would it mean the SBP initiator may indicate if the requested WLAN sensing procedure needs to allow for a sensing responder to sensing responder sounding (R2R sounding), or the requested WLAN sensing procedure may allow for the R2R sounding  regardless of a certain indication from the SBP initiator? Need to clarify that and specify how it works accordingly. | As in comment. | Revised The details for the R2R sounding were defined by the DCN 22/1368r4. And, And, we determinded that the sensing measurement parameters element defined in clause 9.4.2.319 is used in the SBP procedure. Based on the 22/1988r0, SR2SR indication is defined in the sensing measurement parameters element and sensing elements. So, we don’t need to further change. TGbf editor: No further change needs.  |

P76L26 in D0.1



Discussion:

In the previous meeting, we discussed the SBP procedure and related signaling based on the DCN 1396r5. And we decided that the Sensing Measurement Parameters element defined in clause 9.4.2.319 is included in the SBP request and SBP response frame.

In 11bf D0.5,



****



We also discussed about the various parameters that should be exchanged between the sensing initiator and sensing receiver or indicated by the sensing initiator. As a result, we decided that the SR2SR support is indicated by the Sensing element and TB Specific subelement of the Sensing Subelements in the Sensing Measurement Parameters element. Based on the DCN 1998r1, we can check below.

**In DCN 22/1998r1**

The Sensing field is defined in Figure 9-1002bb (Sensing field format).

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Responders Needed | BW  | Max Tx STS ≤ 80 MHz | Max Tx STS = 160 MHz | Max Tx STS = 320 MHz |

Bits: 1 3 3 3 3

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Max Rx STS ≤ 80 MHz | Max Rx STS = 160 MHz | Max Rx STS =320 MHz | Max Tx HE-LTF Repetition | Max Rx HE-LTF Repetition |

Bits: 3 3 3 3 3

|  |  |  |
| --- | --- | --- |
| Max Tx HE-LTF Total | Max Rx HE-LTF Total | Max Rx EHT-LTF Total |

Bits: 2 2 3

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Device Class | Full Bandwidth UL MU-MIMO | Max number of Supported Setups as Responder | MinTIme between measurements | Poll Required | Threshold-based Reporting |

Bits: 1 1 4 23 1 1

|  |  |  |
| --- | --- | --- |
| SR2SR Support | Maximum Number of Rx Antennas  | Reserved |

Bits: 1 3 2

Figure 9-1002bb—Sensing field format (#5)

The SR2SR Support subfield is set to 1 to indicate that the transmitter STA supports SR2SR sounding (see 11.55.1.2.x SR2SR sounding phase) and is set to 0 otherwise (#5).

The format of the TB Specific subelement is as shown in Figure 9-1002az (TB Specific subelement format).

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Subelement ID | Length | AID/USID | Poll Assigned | CSI Variation Threshold | SR2SR | Reserved | Availability Window |
| Bits: | 8 | 8 | 16 | 1 | 4 | 1(#5) | 2 | 64 |
|  | * TB Sensing Specific subelement format (#5)
 |

As shown above, based on DCN 1396r5 and DCN 1998r1, SR2SR indication was already applied to the TB Sensing Specific subelement format in the sensing measurement parameter element and Sensing element and it is also applied to the SBP procedure.

Thus, we don’t need to define the additional signaling for SR2SR in the SBP procedure.

In addition, the set of the Sensing measurement Parameters field is already described as follows. So, we don’t need to add the additional text for the set of those parameters.

