### **IEEE P802.11 Wireless LANs**

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| Comment Resolutions on Sensing Measurement Report | | | | |
| Date: 2022-12-12 | | | | |
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**Abstract**

The document provides comment resolutions for CIDs: 8, 9, 120, 209, 294, 297, 298, 306, 471, 472, 489, 510, 511, 512, 513, 523, 650, 655, 668, 836, 838, 903, 904.

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| **CID** | **Clause** | **Page/Line** | **Comment** | **Proposed Change** | **Resolution** |
| 8 | 9.4.2.318 | 34/49 | “The Sensing Measurement Report Control field contains information necessary to interpret the Sensing Measurement Report field" the information necessary is not described in the text here. What are the exact information which is required to interpret the Sensing measurement report field? | Please specify the information which is required by the sensing initiator to interpret the sensing measurement report correctly. | **Revised**  This comment has been resolved in Draft 0.5 |
| 9 | 9.4.2.318 | 34/57 | Subfields of the sensing measurement control field include multiple subfields, are these to be filled with single measurement report split over multiple subfields or are these different measurement reports? | Please specify the description for subfields of sensing measurement report control field. | **Revised**  This comment has been resolved in Draft 0.5 |
| 120 | 9.4.2.318 | 34/40 | The definition of the "The Sensing Measurement Report Control" subfield doesn't make sense: N (TBD) subfields of TBD length with TBD description. "The Sensing Measurement Report Control" is already indicated as TBD in Figure 9-1002au. Remove superfluous text and add description as agreements are reached. | Delete text after "The Sensing Measurement Report Control field contains information necessary to interpret the Sensing  Measurement Report field." | **Revised**  This comment has been resolved in Draft 0.5 |
| 209 | 9.4.2.318 | 34/49 | The names of the subfields in the Sensing Measurement Report Control field in Figure 9-1002ax and Table 9-401t should be TBD since we did not decide them yet. | Add (TBD) to the name of each subfield, i.e., Subfield1(TBD) | **Revised**  This comment has been resolved in Draft 0.5 |
| 294 | 9.4.2.318 | 34/1 | Since elements can only carry up to 255 octets, using elements to carry sensing measurement reports will limit the report size to 255 or less. It would be better to use fields instead as is done in HT/VHT/HT/EHT for the beamforming feedback. | Use field(s) to carry to carry the sensing measurement reports instead of element. |  |
| 297 | 9.4.2.318 | 34/57 | I assume Table 9-401t will describe the parameters required to decode the following sensing measurement report field, but they need to be elaborated. | Elaborate the contents of Table 9-401t. | **Revised**  This comment has been resolved in Draft 0.5 |
| 298 | 9.4.2.318 | 34/57 | I assume one of the parameters in Table 9-401t will the Ng (for grouping of subcarriers). A passed motion suggests a mandatory Ng value of 4 and optional higher values. The actual value of Ng that best captures the characteristics of a channel, especially for wide channels (e.g., 80 MHz and higher) may vary from one sub-channel (e.g. 20 MHz) to another, so a single Ng value for the entire wideband channel may not be the most efficient solution. | Add signaling to allow a sensing measurement report to use different Ng values for different sub-channels in a wide band channel. | **Revised**  This comment has been resolved in Draft 0.5 |
| 306 | 9.6.36.2 | 63/53 | Since elements can only carry up to 255 octets, using elements to carry sensing measurement reports will limit the report size to 255 or less. It would be better to use fields instead as is done in HT/VHT/HT/EHT for the beamforming feedback. | Use field(s) to carry to carry the sensing measurement reports instead of element. | **Revised**  This comment has been resolved in Draft 0.5 |
| 471 | 9.4.2.318 | 34/51 | The Sensing Measurement Report Control field should be filled out. Following subfields need to be there to be filled out. Feedback Bandwidth (TBD Bits),I2R N\_STS (TBD Bits), R2I N\_STS (TBD Bits),Ng (Number of Subcarrier Groups) (TBD Bits),Scale Factor (TBD Bits),CSI FB Bit Size (TBD Bits), etc. | Please, see the comment | **Revised**  This comment has been resolved in Draft 0.5 |
| 472 | 9.6.7.51 | 59/4 | The Measurement Set-up ID subfield is necessary along with the Sounding Dialog Token subfield which indicates the Measurement Sounding Instance ID in Figure 9-1139d. | Introduce a subfield called "Measurement Set-up ID" right after the Sounding Dialog Token subfield in Figure 9-1139d, and provide a description for the Measurement Set-up ID subfield. This is needed for an aggregated CSI report for the multiple Measurement Set-ID. | **Revised**  This comment has been resolved in Draft 0.5 |
| 489 | 9.4.2.317 | 34/44 | It's not clear what are the subfields for in Figure 9-1002ax and Table 9-401t since we haven't defined the method on how the CSI report is done yet. This is an important part for getting channel measurement information in sensing, so it needs to be defined for D1.0 | Define a sensing measurement report method(s) and specify these related fields accordingly. | **Revised**  This comment has been resolved in Draft 0.5 |
| 510 | 9.4.2.318 | 34/12 | The Sensing Measurement Report type is included in the sensing measurement parameters fields. so it is better to move this field to the sensing measurement report control field  also, 1 or 2 bits are enough to accommodate the candidate report types. | Delete the Sensing Measurement Report type in the Sensing Measurement Report element format and add this field to Sensing Measurement Report Control field. | **Revised**  This comment has been resolved in Draft 0.5 |
| 511 | 9.4.2.318 | 34/24 | It is better to be included the sensing measurement report type in the sensing measurement report control field. And we don't need to allocate the one octet to indicate this information. | Delete the following text " The Sensing Measurement Report Type values that have been allocated are shown in Table 9-  401s (Sensing Measurement Report Type field definition)." and also delete the table 9-401s | **Revised**  This comment has been resolved in Draft 0.5 |
| 512 | 9.4.2.318 | 34/45 | Figure 9-1002ax included the many subfields, but it is ambiguous what subfields mean. This report control field is similar to the MIMO control field. Define the subfield that should be included in this field by referring to the MIMO control field. | Commenter will provide a contribution to address this issue | **Revised**  This comment has been resolved in Draft 0.5 |
| 513 | 9.4.2.318 | 35/11 | Basically, we agreed that CSI report is mandatory in 11bf, so, we can define the sensing measurement report field for the CSI report. | Delete the TBD and Define the CSI report field. | **Revised**  This comment has been resolved in Draft 0.5 |
| 523 | 9.6.7.51 | 59/15 | The measurement setup ID was not included in this frame. to clarify that, it is better to include the setup ID in the report frame. | Add the measurement setup ID field into the figure 9-1139d | **Revised**  This comment has been resolved in Draft 0.5 |
| 650 | 9.4.2.318 | 34/35 | There is only one sensing measurement type in the Table 9-401s. The other values are reserved and more description is needed. | As in comment. | **Revised**  This comment has been resolved in Draft 0.5 |
| 655 | 9.4.2.318 | 34/57 | Subfields of the Sensing Measurement Report Control field when the Sensing Measurement Report Type field is set to 0 are TBD | Add "Bandwidth", "NDP Type","Nc", "Nr", "Nb", "Ng", "Partial BW Info" subfields into Table 9-401t. | **Revised**  This comment has been resolved in Draft 0.5 |
| 668 |  | 24/38 | The TG needs to discuss if "Sensing Measurement Report Control" is really needed. While I may be wrong I think Action frames don't usually include a control field. The fact that the field is not specified is probably and indication it may not be needed | As in comment. Delete the control field if it serves no purpose. | **Revised**  This comment has been resolved in Draft 0.5 |
| 836 | 9.4.2.317 | 33/58 | The second sentence is not complete, as there are other cases not covered when the measurement report type subfield can be ignored. The measurement report type subfield should be considered meaningful only when the sensing measurement report subfield bit is set to 1. | Change text to:  "If the Sensing Measurement Report subfield is 0, then the Sensing Measurement Report Type subfield is reserved." | **Revised**  This comment has been resolved in Draft 0.5 |
| 838 | 9.4.2.318 | 34/15 | The Sensing Measurement Report Type field shows as TBD octets in Figure 9-1002aw, however Table 9-401s limits the values to 255, meaning this is a single octet. | Change the "TBD" under the Sensing Measurement Report Type field to "1". | **Revised**  This comment has been resolved in Draft 0.5 |
| 903 | 9.4.2.318 | 34/16 | The length of the Sensing Measurement Report Type field is TBD. However, Table 9-401s shows the Sensing Measurement Report Type field definition which has 256 values (equivalent to 8 bits or 1 Octet) | Change the length of the Sensing Measurement Report Type from "TBD" to 1 | **Revised**  This comment has been resolved in Draft 0.5 |
| 904 | 9.4.2.318 | 34/15 | What does the Subfield 1 (or 2 or.. N) mean? How to determine the number of Subfields that are contained in the Sensing Measurement Report Control field? | Need to specify the Subfield definition and the number of Subfield subfields | **Revised**  This comment has been resolved in Draft 0.5 |