IEEE P802.11  
Wireless LANs

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| [CR for LB272 NDPA Instance TTT Part2] | | | | |
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| Author(s): | | | | |
| Name | Affiliation | Address | Phone | email |
| Junghoon Suh | Huawei |  |  | junghoon.suh@huawei.com |
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Abstract

This submission proposes resolutions for the follwing 16 LB272 CIDs: 1629, 1642, 1685, 1686,

1687, 1759, 1767, 1768, 1769, 1770, 1824, 1825, 1826, 1827, 1828, and 1829. The proposed changes are based on IEEE 802.11bf D1.1 [1].

Revisions:

* Rev 0: Initial version of the document.
* Rev 1: Update the CR for some CIDs
* Rev 2:

## CID 1629, 1642, 1685, 1686, 1687, 1759, 1767, 1768, 1769, 1770, 1824, 1825, 1826, 1827, 1828, and 1829

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| **CID** | **Page in [0] (Page in [1])** | **Clause** | **Comment** | **Proposed Change** | **Resolution** |
| 1629 | 72.07  (31.07) | 9.3.1.19.5 | In Figure 9-83c, "B20 B22" for SI2SR Rep subfield must be "B28 B30". | Please fix this typo. | Accepted |
| 1642 | 73.09  (32.11) | 9.3.1.19 | The sentence that "When used in a TB sensing measurement instance, if the bandwidth of Sensing NDP Announcement frame is equal to 320 MHz, both the SI2SR Rep and the SR2SI Rep subfields are reserved." is redundant since the sentence at P72L54 has similar meaning. | remove this sentence | Accepted |
| 1685 | 72.20  (31.20) | 9.3.1.19.5 | Change the text "AID11 subfield equal to or less than 2007" to | "AID11 subfield less than 2008" to align with other relates texts | Accepted |
| 1686 | 72.25  (31.25) | 9.3.1.19.5 | Change the text "and the RA field is set to the address of that STA" to | and the RA field is set to the address of that STA (i.e., AP) | Revised  Basically agreed with the comment, and the revised texts are given below.  Instruction to editor: Please incorporate the changes in https://mentor.ieee.org/802.11/dcn/23/11-23-1035-01-00bf-cr-for-lb272-ndpa-instance-ttt-part2.docx |
| 1687 | 74.05  (33.05) | 9.3.1.19.5 | Add a new text to indicate estimate TX power & RSSI target values/ranges. | The SI2SR NDP Tx Power subfield indicates the combined average power per 20 MHz bandwidth referenced to the antenna connector, of all antennas used to transmit the following SI2SR NDP. The transmit power is reported with a resolution of 1 dB, with values in the range 0 to 60 representing -20 dBm to 40 dBm, respectively. Values above 60 are reserved. The SR2SI NDP Target RSSI subfield indicates the preferred receive signal power, averaged over the non-AP STA's antenna connectors, for future SR2SI NDPs to be transmitted by the AP. The preferred receive signal power in units of dBm is TargetRSSI = -110 + FVal, where FVal is the value of the SR2SI NDP Target RSSI subfield, except that values above 90 indicate that the non-AP STA has no receive signal power preference for the SR2SI NDPs. | Revised  Already resolved in the D1.1  NOTE to the editor: no further changes are needed. |
| 1759 | 73.03  (32.07) | 9.3.1.19.5 | the text "If the SI2SR and SR2SI Rep subfields are both equal to 0, then ..." is incorrect. | to revise the text as: If the SI2SR Rep and SR2SI Rep subfields are both equal to 0, then ..." | Revised  Change the sentence as following,  If the SI2SR Rep and SR2SI Rep subfields  are both equal to 0, then there is no HE-LTF repetition in the SI2SR NDP and SR2SI NDP subfields, |
| 1767 | 70.22  (29.21) | 9.3.1.19.1 | Claiming that there are five (5) variants of the NDP Announcement frame, while the table has two (2) bits is overly complicated. Why not make the Sensing NDP Announcement frame a variant of the Ranging NDP Announcement frame (which is is anyways). | Remove statements here; and define the "Sensing NDP Announcement frame" as a variant of the Ranging NDP Announcement frame later on. | Rejected  It is good to keep five formats.  Sensing NDPA is not a sub-variant of Ranging NDPA (see 9.3.1.19.5) |
| 1768 | 70.42  (29.42) | 9.3.1.19.1 | In the case of Sensing NDP Announcement frames, the RA address is set to the address of the AP or non-AP STA that is the intended recipient of the frame - how is that different from the other cases? | Either remove or clarify how this differs from the other two cases. | Revised  Change the text as follows,  In the case of Sensing NDP Announcement frames, the RA is set to the address of the Sensing Responder, which is either  an AP (in Non-TB Sensing Measurement exchanges) or a non-AP STA (in TB Sensing Measurement exchanges). |
| 1769 | 71.20  (30.20) | 9.3.1.19.1 | Table 9-42b - the four cases are not clearly separated, one rwo has N/A and two other columns are identical (?) | What is the point of this table? It doesn't clearly separate the various cases. If it is just an overview of what is present in which case, I suggest swtiching the rowss (last to go first). | Rejected  A separate row was necessary to emphasize the TB Sensing measurement instance distinguished from the Ranging exchange. The similar CID was rejected during the resolution of 1433 in 11-23-0872-01-00bf-cr-for-lb272-ndpa-instance-ttt. |
| 1770 | 72.14  (31.14) | 9.3.1.19.5 | All three STA info field definitions are bit identical to the ones defined for Ranging; why not refer to those figures? | Cosolidate the STA Info field definitions between Sensing/Ranging. | Rejected  This STA Info field belongs to the Sensing NDPA frame format sub-clause and no need to reiterate the Ranging NDPA format in this sub-clause. The relevance of Sensing/Ranging NDPA frame format has already been described in the 9.3.1.19.1 General description sub-clause. |
| 1824 | 70.22  (29.22) | 9.3.1.19.1 | Missing article "an" | Change "with AID subfield" to "with an AID subfield". There are also two other locations where "an" is missing before AID subfield at P70L25 and P70L27 | Revised  Insert the Article “the” in the cited locations |
| 1825 | 72.20  (31.20) | 9.3.1.19.5 | The sentence states "AID11 subfield equal to or less than 2007....". However, the sentence at P72L32 states "If the AID11 subfield is less than 2008". These are both the same and perhaps one of them should be preferred. | Change the cited sentence to "A Sensing NDP Announcement frame contains at least one STA Info field with an AID11 subfield less than 2008, per STA that is an intended recipient of this frame". | Accepted |
| 1826 | 73.12  (32.15) | 9.3.1.19.5 | The sentence should be re-arranged for clarity | Change the cited sentence to "When the AID11 subfield is equal to 2044, the format of the STA Info field is shown in Figure 9-83d (STA Info field in a Sensing NDP Announcement frame with AID11 subfield equal to 2044)". | Accepted |
| 1827 | 73.18  (32.22) | 9.3.1.19.5 | The "AID" subfield in Figure 9-83d should be "AID11" | Change "AID" to "AID11" in Figure 9-83d. The same change also needs to be made to Figure 9-83e. | Accepted |
| 1828 | 73.30  (32.33) | 9.3.1.19.5 | The paragraph can be shortened. | Change the paragraph to: "The STA Info field is used in TB sensing measurement instances (see 11.55.1.5.2 (TB sensing measurement instance)) and carries a Partial TSF subfield. If the AP that transmitted the Sensing Poll Trigger frame that preceded the Sensing NDP Announcement frame carries this STA Info field variant, then the Partial TSF subfield contains 16 bits of the AP's TSF time, TSF[21:6]." | Revised  This has already been resolved for CID 1228 in 11-23-0872-01-00bf-cr-for-lb272-ndpa-instance-ttt.docx.  NOTE to the editor: no further changes are needed. |
| 1829 | 73.42  (32.44) | 9.3.1.19.5 | The sentence should be re-arranged for clarity | Change the cited sentence to "When the AID11 subfield is equal to 2045, the format of the STA Info field is shown in Figure 9-83e (STA Info field in a Sensing NDP Announcement frame with AID11 subfield equal to 2045)." | Accepted |

Propose:

***TGbf editor: please modify the senstence between P31L24 and P31L25 in D1.1 as follows***

In a non-TB sensing measurement instance (see 11.55.1.5.3 (Non-TB sensing measurement instance)), there is always only one intended recipient STA and the RA field is set to the address of that STA*, which is the AP*. (#1686)

**References:**

**[0] 802.11bf D1.0**

**[1] 802.11bf D1.1**