IEEE P802.11
Wireless LANs

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| SB0 Comment Resolution for Sectorization |
| Date: 2016-1-17 |
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Abstract

This submission proposes resolutions of comments received from TGah 1st Sponsor Ballot (TGah Draft 5.0).

* 8 CIDs: 8178, 8331, 8332, 8334, 8335, 8336, 8452, 8180

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 TGah Draft. This introduction is not part of the adopted material.

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

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

| **CID** | **Page** | **Clause** | **Comment** | **Proposed Change** | **Resolution** |
| --- | --- | --- | --- | --- | --- |
| 8178 | P318L11 | 9.50.2 | "A sectorized beam-capable non-AP STA shall exchange its S1G Capabilities element with an AP." -- utterly meaningless. The STA necessarily exchanges them to associate. | Delete cited sentence. | Accept. Instruct the editor to delete the sentence P318L11 "A sectorized beam-capable non-AP STA shall exchange its S1G Capabilities element with an AP." |
| 8331 | P197L63 | 8.6.25.11 | What is the technical definition of highest quality? | Define | Revised- Instruct the editor to modify L63"The Preferred Sector ID field indicates the sector ~~in which highest quality of AP signal is received~~ selected by theSTA. The method in which a STA selects the ~~determines the high quality~~ Sector ID ~~AP signal~~ is out of the scope of this standard." |
| 8332 | P197L64 | 8.6.25.11 | What is the difference between "high quality" and "highest quality"? | Clarify | Revised- See resolution of CID 8331 |
| 8334 | P326L10 | 9.50.5.2 | Is "received signal quality" related to "highest quality of AP signal"? Seems to be as it is mentioned in 9.50.5 Sector training operation | Harmonize terminology if referring to the same topic | Revised- Instruct the editor to modify the sentence“The STA(s) may perform training by selecting the antenna sector based on ~~estimating the received signal quality corresponding to each~~~~training~~ NDP CTS training frames.” |
| 8334 | P325L43 | 9.50.5.2 | "This use of ""signal"" seems in conflict to the use of signal later in this subclause (""received signal quality"").The former seem to infer ""indicate"" while the later seems to refer to ""electromagnetic waves""." | Use "indicate" when that is the intent. | Accept.Instruct the editor to modify the sentence to“The STA may use the Sector ID feedback frame (see 8.6.25.11 (Sector ID Feedback frame format)) to ~~signal~~Indicate to the AP which sector is the best sector found.” |
| 8335 | P325L49 | 9.50.5.2 | "This use of ""signal"" seems in conflict to the use of signal later in this subclause (""received signal quality"").The former seem to infer ""indicate"" while the later seems to refer to ""electromagnetic waves""." | Use "indicate" when that is the intent. | Accept.Instruct the editor to modify the sentence to“By setting the MAI=14 in the Link Adaptation Control subfield of the HT Variant Controlfield, the STA indicates HT variant control field is used for ~~signaling~~ indicating sector training (or Antenna Selection)information.” |
| 8452 | P324L32 | 9.50.4 | Four SO sequences are discussed in 9.50.4, all containing an omni-portion and a sectorized portion, it is much easier to include an early sector indication in the omni-directional transmissions of the existing omni-directional portion of the SO, instead of using a separate CTS to self, since using an extra CTS-to-self will provide the same function but with higher overhead | Include early sector indication in the omni-directional transmissions in the omni-directional portion of the SO sequence exchanges, to provide the same indication of sectorized transmissions but with reduced overhead. | Rejected- Reject. There is no more bit left in the SIG A for signaling sectorized transmission. |
| 8180 | P322L14 | 9.50.4 | Figure 9-98 doesn't follow IEEE-SA style. | Remove the shading in three places. | Revised. Instruct the editor to replace Figures 9-98, 9-99, 9-100, and 9-101 |

**CID 8180:**

*Instruct the editor to replace Figures 9-98, 9-99, 9-100, 9-101*



Figure 9-98



Figure 9-99



Figure 9-100



Figure 9-101