IEEE P802.11
Wireless LANs

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| D3.0 BF clarifications |
| Date: 2011-06-22 |
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Abstract

This document proposes clarification so some BF issues in D3.0.

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| 3037 |  |  | General |  | P | Some subclauses in the spec need clarification | Submissions will be made |

**Definition of CDOWN in 8.4a1 contradits the one in 9.35.2.2.2**

***TGad editor: modify the text in page 172 lines 22-25 as follows:***

The CDOWN field is a down-counter indicating the number of remaining DBand Beacon frame transmissions in the TXSS, or the number of remaining ScS frame transmissions to the end of the TXSS/RXSS. This field is set to 0 in the last frame DBand Beacon and ScS frame transmission. Possible values range from 0-511.

**Duration field in CBAP sector sweep**

In an initiator sector sweep in CBAP, the initiator may desire to have the duration field cover the length of the responder sector sweep.

***TGad Editor: add the following text at the end of 9.35.2.2.1 (P278L6):***

If the ISS is initiated in CBAP, and the initiator knows the number of sectors that the responder uses in an RSS, the duration field shall be set to the time remaining until the end of the RSS.

**Antenna ID in responder sector sweep**

Text for setting the antenna ID field for the responder sector sweep is missing.

***TGad Editor: modify P282L19 as follows:***

antenna. The initiator shall set the Sector ID and DBand Antenna ID fields in each transmitted BF frame to a value that uniquely identifies the single sector and DBand antenna through which the BF frame is transmitted. The responder shall set the CDOWN field in each transmitted ScS frame to contain the total

**Antenna pattern reciprocity capability is missing**

***TGad Editor: in P134L26 add the field antenna pattern reciprocity as the last field of the Dband STA capability information field and decrease the number of resrerved bits by 1.***

***TGad Editor: Add the following text at P137L26***

The antenna pattern reciprocity field is set to one to indicate that the transmit antenna pattern associated with an AWV is the same as the receive antenna pattern for the same AWV. Otherwise, this field is set to zero.

**Total Sector field**

A total sector sweep in the ScS packet can help a device receiving a packet in the sector sweep know how many packets it missed before the current packet.

***TGad Editor add the following text at P173L34:***

When transmitted as part of an ISS, the bit positions of the Sector Select and DBand Antenna Select fields are used to form another field named Total Sectors in ISS field. The Total Sectors in ISS field indicates the total number of sectors that the initiator uses in the ISS. Values are 0-255 representing 1-256 sectors. If the number of sectors in the ISS is higher than 256, a value of 255 is used.

***TGad Editor: Add the following text at P258L12:***

The initiator shall set the Total Sectors in ISS subfield within the ScS Feedback field to the total number of sectors that it is using in the ISS. If the total number of sectors the initiator is using in the ISS is greater than 256, the Total Sectors in ISS subfield shall be set to 255.