IEEE P802.11  
Wireless LANs

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| BRP Feedback Request | | | | |
| Date: 2017-06-08 | | | | |
| Author(s): | | | | |
| Name | Affiliation | Address | Phone | email |
| Assaf Kasher | Qualcomm |  |  | akasher@qti.qualcomm.com |
| Alecsander Eitan | Qualcomm |  |  | eitana@qti.qualcomm.com |
| Solomon Trainin | Qualcomm |  |  | strainin@qti.qualcomm.com |
| Amichai Sanderovich | Qualcomm |  |  | amichais@qti.qualcomm.com |
|  |  |  |  |  |

Abstract

This document suggests small changes to enable request for sector sweep feedback for BRP-TX packets.

Changes are based on Draft 0.50

**Discussion**:

The following change modifies the BRP based request for channel feedback to deal with EDMG type requests.

***TGay Editor: Modify the 4th paragraph of P1564 of 802.11-16 as follows***

A STA may request a TXSS sector list feedback by sending a BRP frame with the TXSS-FBCK-REQ field set to 1, the SNR Requested subfield within the FBCK-REQ field set to 1 and the remaining subfields within the FBCK-REQ field set to 0. The responding STA shall respond with a BRP frame with the SNR Present subfield within the FBCK-TYPE field set to 1 and Sector ID Order Present subfield set to 1, with a list of sector IDs indicating the sector IDs of the received SSW frames or DMG Beacon frames, and with the SNR values with which those frames were received in the last TXSS. The Number of Measurements subfield in the FBCK-TYPE field is set to indicate the number of sectors received during the last SLS for which an SNR measurement is included. An EDMG STA may request a TXSS sector list feedback by sending a BRP frame with the TXSS-FBCK-REQ field set to 1, the SNR requested subfield with the FBCK-REQ field set to 1 and the remaining subfields within the FBCK-REQ field set to 0. The responding EDMG STA shall respond with a BRP frame with the SNR Present subfield within the FBCK-TYPE field set to 1, the Sector ID Order subfield set to 1, the EDMG Extension Flag set to 1 and the EDMG Channel Measurement Present set to 1. In the EDMG Sector ID Order subfield the SISO IDs indicate the sector IDs/CDOWN/AWV IDs, TX antennas and RX Antennas of Sectors that were received in the last TXSS. The SNRs subfield in the Channel Measurement Feedback indicates the SNRs with which these sectors have been received. The last TXSS may have been performed using DMG Beacons, Sector Sweep frames, Short Sector Sweep Packets or BRP-TX packets. If the last TXSS has been performed using BRP-TX packets the BRP-CDOWNs associated with each SISO ID indicate the BRP-CDOWN of the packet in which the sector has been received. If the feedback is for a TXSS performed in BRP-TX packet, the Number of Measurements subfield of FBCK-TYPE field is at least the minimum of {16, N-TRN-SB}, where and N-TRN, TRN-M and TRN-N are the values of the EMDG-TRN-LEN, EDMG-TRN-M and EDMG-TRN-N respectively in the received BRP-TX packet.