IEEE P802.11
Wireless LANs

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| 11-16-0406-00-000m BSS type in SSW feedback subfield |
| Date: 2016-03-14 |
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Abstract

Provide BSS type in SSW Feedback field format when not transmitted as part of an ISS

Discussion:

Active scan in DMG requires procced with BTI/A-BFT and then exchange probes between stations. Role of the BTI/A-BFT is to provide basic connectivity between stations to allow probe exchange. In case a STA that initiates active scanning looks for specific type of BSS it gets the information only after completion of probe exchange due to luck of BSS type information in the SSW frame responded to the active scan initiator. For example looking only for PBSS and not BSS and vice versa the STA shall do probe exchange to get BSS type information. Providing BSS type information in the SSW frame improves link utilization and allows spending less power in scanning phase.

Using of 2 reserved bits in Sector Sweep Feedback field of SSW Feedback field format when not transmitted as part of an ISS to provide BSS type is proposed to resolve the issue.

*Editor – change as follows:*

*P1104L10*

*In the figure Figure 9-632—SSW Feedback field format when not transmitted as part of an ISS change reserved field as presented*

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | B0 B5 | B6 B7 | B8 B15 | B16 | B17 B18 | B19 B23 |
|  | Sector select | DMG Antenna Select  | SNR Report | Poll Required | BSS Type | Reserved |
| Bits | 6 | 2 | 8 | 1 | 2 | 5 |

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**9.5.3 Sector Sweep Feedback**

*Editor, add new paragraph at end of subclause*

The BSS Type subfield is defined in Table 9-64 (The BSS Type subfield)

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**9.4.1.47 DMG Parameters field**

*Editor, change as follows*

The BSS Type subfield is defined in Table 9-64 (The BSS Type subfield) for specific types of frame cited below. An AP sets the BSS Type subfield to 3 within transmitted DMG Beacon, Probe Response, or (Re)Association or in A-BFT in response to Beacon frame with the Discovery Mode field equal to 1. A PCP sets the BSS Type subfield to 2 within transmitted DMG Beacon, Probe Response, or (Re)Association Response frames, or in A-BFT in response to Beacon frame with the Discovery Mode field equal to 1. An IBSS STA or a STA that is not a member of a BSS sets the BSS Type subfield to 1 within transmitted DMG Beacon or Probe Response frames, or in A-BFT in response to Beacon frame with the Discovery Mode field equal to 1. The BSS Type subfield is reserved for all other types of frame.

**References:**

1. IEEE P802.11-REVmc/D5.0, Jan 2016