IEEE P802.11  
Wireless LANs

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Comment resolution to unsolicited RSS related CIDs | | | | |
| Date: 2018-12-17 | | | | |
| Author(s): | | | | |
| Name | Affiliation | Address | Phone | email |
| Dejian Li | Huawei |  |  | dejian.li@huawei.com |
|  |  |  |  |  |

Abstract

This submission proposes resolution to several CIDs 3073, 3397, 3569 and 3570 for the 11ay draft text.

The discussion is in reference to Draft IEEE P802.11ay D2.0.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **CID** | **Clause** | **Page** | **Comment** | **Proposed change** |
| 3073 | 9.3.4.2 | 81.17 | The statement "This subfield is ignored when received by a non-EDMG STA or when received from a non-EDMG STA." looks like it's making an assertion or placing a requirement on some older technology with respect to how it deals with new features. If in fact this subfield is put in a reserved field of a non-EDMG STA Management Frame, we'd expect it to be ignored by Clause 9.2.2 already, and otherwise you'd need to work around this assertion some other way. | As in comment. |

**Discussion:** The Unsolicited RSS Enabled subfield is NOT put in a reserved field, but reuses the existed “IsResponderTXSS” subfield when the Next A-BFT subfield is 0 (As in P81L15, “the Unsolicited RSS Enabled subfield is present when the Next A-BFT subfield is nonzero”). So it is necessary to keep this statement "This subfield is ignored when received by a non-EDMG STA or when received from a non-EDMG STA.".

**Proposed resolution**: Rejected

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **CID** | **Clause** | **Page** | **Comment** | **Proposed change** |
| 3397 | 9.5.3 | 159.1 | Unsolicted RSS Enabled field does not seem to be in the RSS SSW FBCK field in Fig 9-638 | Because unsolicted RSS only uses SSW frame, the RSS/ISS it responds to does not use short SSW frame. Use 1 reserved bit in SSW Feedback field as Unsolicited RSS Enabled field, when EDMG extension Flag=0 |

**Discussion:** Accept the proposed change in principle. Use one reserved bit in SSW Feedback field as Unsolicited RSS Enabled field, when EDMG extension Flag=0.

In the unsolicited RSS feature, the preceding SLS flow can be an ISS or RSS (see P159.24, the Unsolicited RSS Enabled subfield is set to 1 to indicate that the STA is capable of receiving an unsolicited RSS and completing the SLS with any other STA that opportunistically receives this ISS or RSS). To avoid confusion, change “preceding ISS” (P240.3) to “preceding ISS or RSS”.

**Proposed resolution**: Revised

***Change the caption of Figure 9-638 as follows***

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | B0 B5 | B6 B7 | B8 B15 | B16 | B17 B21 | B22 | B23 |
|  | Sector  Select | DMG  Antenna  Select | SNR Report | Poll Required | Sector  Select MSB | DMG  Antenna  Select MSB | EDMG  Extension Flag |
| Bits: | 6 | 2 | 1 | 1 | 5 | 1 | 1 |

**Figure 9-638—SSW Feedback field format when not transmitted as part of an ISS and the EDMG Extension Flag subfield is 1**

***Insert Figure 9-638a after Figure 9-638***

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | B0 B5 | B6 B7 | B8 B15 | B16 | B17 B21 | B22 | B23 |
|  | Sector  Select | DMG  Antenna  Select | SNR Report | Poll Required | Reserved | Unsolicited RSS  Enabled | EDMG  Extension Flag |
| Bits: | 6 | 2 | 1 | 1 | 5 | 1 | 1 |

**Figure 9-638a—SSW Feedback field format when not transmitted as part of an ISS and the EDMG Extension Flag subfield is 0**

**10.43.6.2 SLS phase execution**

***Change bullet b) as follows:***

An unsolicited RSS takes place when all of the following conditions are met:

1. A first EDMG STA transmits a DMG Beacon or SSW frame with the Unsolicited RSS Enabled subfield set to 1
2. Following the transmission of a DMG Beacon or SSW frame with the Unsolicited RSS Enabled subfield set to 1, the first EDMG STA receives an SSW frame from a second EDMG STA that is not a response to an immediately preceding ISS or RSS and that has the Direction field equal to 1 and the RA field equal to the first STA’s MAC address
3. In the case the first STA transmitted an SSW frame in (a), the second STA that transmitted the SSW frame identified in (b) is different than the STA addressed by the SSW frame transmitted by the first STA in (a).

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **CID** | **Clause** | **Page** | **Comment** | **Proposed change** |
| 3569 | 10.43.2.2.2 | 229.1 | The phrasing "During a CBAP, an EDMG STA may obtain a TXOP with an unsolicited RSS " is not clear. How TXOP is obtained with unsolicited RSS? Which frames and procedure are used ? | Clarify the text |

**Discussion:** In this paragraph, the unsolicited RSS procedure may use the Grant frame to obtain a TXOP, which follows the same rule of 10.38.2.2.2 Initiator TXSS (P1573, 802.11-2016).

**Proposed resolution**: Revised

During a CBAP, an EDMG STA may obtain a TXOP with an unsolicited RSS by transmitting a Grant frame at the beginning of the TXOP or use an existent TXOP for an unsolicited RSS (see 10.43.6.2). If a TXOP is obtained through the transmission of a Grant frame and the TXOP holder intends to start the TXOP with an unsolicited RSS, the TXOP holder shall set the Unsolicited RSS subfield in the Grant frame to 1 to indicate the SLS begins with an unsolicited RSS and is performed without an ISS.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **CID** | **Clause** | **Page** | **Comment** | **Proposed change** |
| 3570 | 10.43.2.2.2 | 229.1 | the phrase is confusing since the TXOP already starts with Grant frame "If a TXOP is obtained through the transmission of a Grant frame and the TXOP holder intends to start the TXOP with an unsolicited RSS" | Change to "If a TXOP is obtained through the transmission of a Grant frame and the TXOP holder intends to continue the TXOP with an unsolicited RSS" |

**Proposed resolution**: Accepted

***Change the first paragraph in 10.43.2.2.2 as follows:***

During a CBAP, an EDMG STA may obtain a TXOP with an unsolicited RSS by transmitting a Grant frame at the beginning of the TXOP or use an existent TXOP for an unsolicited RSS (see 10.43.6.2). If a TXOP is obtained through the transmission of a Grant frame and the TXOP holder intends to continue the TXOP with an unsolicited RSS, the TXOP holder shall set the Unsolicited RSS subfield in the Grant frame to 1 to indicate the SLS begins with an unsolicited RSS and is performed without an ISS.

**References:**

IEEE 802.11ay D2.0

IEEE 802.11-2016