IEEE P802.11
Wireless LANs

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| Proposed Comment Resolution for CIDs 2310, 2315 and 2316 |
| Date: 2022-03-17 |
| Author(s): |
| Name | Company | Address | Phone | email |
| Stephen McCann | Huawei Technologies Co., Ltd | Southampton, UK |  | stephen.mccann@ieee.org  |

Abstract

This document proposes a comment resolutions for CIDs 2310, 2315 and 2316 (REVme D1.0).

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| **CID** | **Page** | **Clause** | **Comment** | **Proposed Change** | **Resolution** | **Owning Ad-hoc** |
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| 2310 | 1340.30 | 9.4.2.36 | The use of the term "detected access point" appears to be unecessary. All transmitted sub-fields in a frame tranmitted from an access point might be detected by a STA (or not). I don't think it is required to spell out every occurance of an access point sub-field that "might" be detected. | There are 6 or 7 occruances of this phrase throughout the draft and all of them can be re-moved, together with the definition of "detected access point" in clause 3.2. The commentor will bring a submission. | Revised: Please make the changes shown in document: <https://mentor.ieee.org/802.11/dcn/22/11-22-0311-02-000m-comment-resolution-for-cid-2310-2315-2316.docx> indicated by #2310. | MAC |
| 2315 | 1714.3 | 9.4.2.256 | What is "the extended service area". This is only mentioned once in the draft and is not mentioned in any behavioural text. | Delete the text "over the Extended Service Area (ESA)" from the cited sentence. | Revised:Please make the changes shown in document: <https://mentor.ieee.org/802.11/dcn/22/11-22-0311-02-000m-comment-resolution-for-cid-2310-2315-2316.docx> indicted by #2315. | MAC |
| 2316 | 2930.22 | 11.22.3.2.1 | The term "GAS frame sequence" appears to be the same as "GAS transaction", in other words the transmission and reception of GAS request and response messages. | Replace the 3 occurances of "GAS frame sequence" in the draft with "GAS transaction". The places are within the titles of Figure 11-42 (P2930L22), Figure 11-43 (P2930L62) and Figure 11-44 (P2931L37). The only other occurances of this term are references to these three figures. | Revised:Agree with commenter. The caption has been changed to “GAS Frame Exchange” per <https://mentor.ieee.org/802.11/dcn/21/11-21-1782-06-000m-annex-g-cids-resolution.doc>.Note to editor: No changes are required. | MAC |

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**CID 2310 Discussion**

*There are 7 occurrences of the phrase “detected access point” in the draft, all with specific references to the definition in clause 3.2. The clause 3.2 definition is [P217L23]:*

**detected access point (AP)**: An AP might be detected by a station (STA) if the STA and the AP are on the same channel and in range.

*For example, the next occurrence is [P1340L30]:*

The Unsolicited Probe Responses Active subfield is set to 1 if the reported AP is part of an ESS where all the APs that operate in the same channel as the reported AP and that might be detected by a STA receiving this frame [see the definition of “detected access point (AP)” in 3.2 (Definitions specific to IEEE Std 802.11)] have dot11UnsolicitedProbeResponseOptionActivated equal to true and so are transmitting unsolicited Probe Response frames every 20 TUs or less (see 26.17.2.3 (Scanning in the 6 GHz band))

*So, substituting the definition into the paragraph results in:*

The Unsolicited Probe Responses Active subfield is set to 1 if the reported AP is part of an ESS where all the APs that operate in the same channel as the reported AP and that might be detected by a STA receiving this frame [An AP might be detected by a station (STA) if the STA and the AP are on the same channel and in range.] have dot11UnsolicitedProbeResponseOptionActivated equal to true and so are transmitting unsolicited Probe Response frames every 20 TUs or less (see 26.17.2.3 (Scanning in the 6 GHz band)).

*Apart from the words “in range”, the 2 highlighted sentences repeat the same statement. Since “might be detected” is implied by “in range”, the definition of “detected access point” is not required.*

*In all of the other 6 occurrences, the sentence structure is very similar, with the same terminology and the same explicit reference to “detected access point (AP)” in 3.2)*

*In conclusion all 8 occurrences of “detected access point (AP)” can be removed*.

**Proposed Comment Resolution**

REVISED: Make the following changes:

**3.2 Definitions specific to IEEE Std 802.11**

***TGme editor: Please delete the following definition on page 217 as follows:***

 (#2310)

**9.4.2.36 Neighbor Report element**

***TGme editor: Please change paragraph 5 on page 1340 as follows:***

The Unsolicited Probe Responses Active subfield is set to 1, if the reported AP is part of an ESS where all the APs that operate in the same channel as the reported AP and might be in range of a STA receiving this frame, (#2310) have dot11UnsolicitedProbeResponseOptionActivated equal to true and so are transmitting unsolicited Probe Response frames every 20 TUs or less (see 26.17.2.3 (Scanning in the 6 GHz band)).

***TGme editor: Please change paragraph 6 on page 1340 as follows:***

The Member Of ESS With 2.4/5 GHz Co-Located AP subfield is set to 1, if the reported AP is part of an ESS where each AP in the ESS are operating in the same band as the reported AP (irrespective of the operating channel in that band) and might be in range of a STA receiving this frame, (#2310) has dot11MemberOfColocated6GHzESSOptionActivated equal to true and also has a corresponding AP operating in the 2.4 GHz or 5 GHz bands that is in the same co-located AP set as that AP.

**9.4.2.170.2 Neighbor AP Information field**

***TGme editor: Please change paragraph 9 on page 1568 as follows:***

The Member Of ESS With 2.4/5 GHz Co-Located AP subfield is set to 1, if the reported AP is part of an ESS where each AP in the ESS and operating in the same band as the reported AP (irrespective of the operating channel in that band) and might be range of a STA receiving this frame, (#2310) has dot11MemberOfColocated6GHzESSOptionActivated equal to true and also has a corresponding AP operating in the 2.4 GHz or 5 GHz bands that is in the same co-located AP set as that AP.

***TGme editor: Please change paragraph 11 on page 1568 as follows:***

The Unsolicited Probe Responses Active subfield is set to 1, if the reported AP, is part of an ESS where all the APs that operate in the same channel as the reported AP and might be range of a STA receiving this frame, (#2310) have dot11UnsolicitedProbeResponseOptionActivated equal to true and are transmitting unsolicited Probe Response frames every 20 TUs or less (see 26.17.2.3 (Scanning in the 6 GHz band)).

**11.53 Out-of-band discovery of a 6 GHz BSS**

***TGme editor: Please change paragraph 1 on page 3048 as follows:***

An AP may set the Unsolicited Probe Responses Active subfield to 1 for a reported AP in a Reduced Neighbor Report element or Neighbor Report element in a frame it transmits, if all 6 GHz APs, of the same ESS as the reported AP that operate in the same channel as the reported AP and might be in range of a STA receiving this frame, (#2310) have dot11UnsolicitedProbeResponseOptionActivated equal to true and so are transmitting unsolicited Probe Response frames every 20 TUs (see 26.17.2.3.2 (AP behavior for fast passive scanning)).

***TGme editor: Please change paragraph 2 on page 3048 as follows:***

An AP may set the Member Of ESS With 2.4/5 GHz Co-Located AP subfield to 1 in a Reduced Neighbor Report element in a frame it transmits, if the reported AP is a 6 GHz AP, is part of an ESS where each AP in the ESS that is operating in the same band as the reported AP and might be in range of a STA receiving this frame (irrespective of the operating channel), has dot11MemberOfColocated6GHzESSOptionActivated equal to true and also has a corresponding AP operating in the 2.4 GHz or 5 GHz band that is in the same co-located AP set as that AP. (#2310)

**26.17.2.3.3 Non-AP STA scanning behavior**

***TGme editor: Please change paragraph 6 on page 4276 as follows:***

Otherwise, if the STA has discovered the presence of an AP in that channel through means that are beyond the scope of this standard and the AP might be in range of the STA, (#2310) then the STA may send a Probe Request frame to the broadcast destination address in that channel, with the Address 3 field set to the BSSID of that AP, starting from step c) of 11.1.4.3.2 (Active scanning procedure for a non-DMG STA).

**CID 2315 Discussion**

*The phrase “the Extended Service Area (ESA)” is only used once in the document and does not provide any additional information.*

REVISED

***TGme editor: Please make the following deletion on page 195 as follows:***

**3.1 Definitions**

 (#2315)

***TGme editor: Please make the following changes to the 1st 4 paragraphs on change on page 1714 as follows:***

**9.4.2.256 ESS Report element**

The Planned ESS subfield indicates whether the BSS is part of an ESS that is planned with several BSSs. (#2315) This subfield is set to 1 to indicate that the ESS has at least two BSSs whose coverage overlap and:

 (#2315)

* The Edge Of ESS subfield indicates whether the BSS is at the edge of the ESS. This subfield is set to 1 to indicate the BSS is at the edge of the ESS. Otherwise, this subfield is set to 0.
* The Recommended BSS Transition RSSI Threshold Within ESS subfield indicates the RSSI below which an associated STA is recommended to initiate BSS transition to a neighbor BSS belonging to the ESS. The resolution for the Recommended BSS Transition RSSI Threshold Within ESS subfield is 1 dB. The encoding is defined in Table 9-373 (Recommended BSS Transition RSSI Threshold Within ESS subfield encoding(11ax)).

Otherwise, the Planned ESS (#2315)subfield is set to 0 and the Edge Of ESS and Recommended BSS Transition RSSI Threshold Within ESS subfields are reserved. (#2315)

***TGme editor: Please make the following change to the 2nd paragraph on page 2907 as follows:***

**11.21.7.5 Planned ESS**

If the AP transmits an ESS Report element, it shall set the Planned ESS subfield in the ESS Information field to 1 if it is part of an ESS that has at least two BSSs whose coverage overlap, (#2315) whereby an associated STA may adjust its BSS transition algorithms accordingly. Otherwise, it shall set the Planned ESS subfield to 0.