IEEE P802.11
Wireless LANs

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| CR for CID21506 |
| Date: 2018-07-09 |
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Abstract

This document provides CR for CIDs:

21506

1. **Introduction**

Interpretation of a Motion to Adopt

A motion to approve this submission means that the editing instructions and any changed or added material are actioned in the TGax Draft. The introduction and the explanation of the proposed changes are not part of the adopted material.

***Editing instructions formatted like this are intended to be copied into the TGax Draft (i.e. they are instructions to the 802.11 editor on how to merge the text with the baseline documents).***

***TGax Editor: Editing instructions preceded by “TGax Editor” are instructions to the TGax editor to modify existing material in the TGax draft. As a result of adopting the changes, the TGax editor will execute the instructions rather than copy them to the TGax Draft.***

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| **CID** | **Commenter** | **Clause Number(C)** | **Page** | **Comment** | **Proposed Change** | **Resolution** |
| 21506 | Yonggang Fang | 9.4.2.170.2 | 154.58 | It might be a case that co-located ESS HE AP operating in 2.4 GHz and 6 GHz bands cannot be detected by an HE STA due their beacons' coverage difference in those bands when the AP transmits a non-HT beacon in 2.4 GHz and an HE beacon in 6 GHz. Therefore the HE STA may not be able to detect HE AP in 6 GHz band when using the "Member of Co-located ESS". We need to address this issue. |  | Revised – the commenter highlights an important problem. It is important for a STA to have hints about the transmit power of the 6 GHz reported AP, in order to know if it can be in range of this 6 GHz AP. We have only 2 bits left in the BSS parameters in the RNR element that is used to advertise the parameters of the 6 GHz AP, the proposal is therefore to define a new field that describes the transmit power difference between the reported and reporting AP. Apply the changes as proposed in <this document>. |

1. **Proposed changes**
* Reduced Neighbor Report element
* Neighbor AP Information field

[…]

***TGax editor: Modify the following table 9.624 (BSS Parameters subfield) as follows***

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | B0 | B1 | B2 | B3 | B4 | B5 | B6          B7 |
|  | OCT Recommended | Same SSID | Multiple BSSID | Transmitted BSSID | Member Of Co-located ESS | 20 TU Probe Response Active | Transmit Power Difference |
| Bits:  | 1 | 1 | 1 | 1 | 1 | 1 | 2 |
| * BSS Parameters subfield
 |

***[…]***

***TGax editor: Add the following sentence in this subclause after the paragraph starting with “The 20 TU Probe Response Active, …”***

The Transmit Power Difference subfield indicates the difference between the transmit power of the reported AP and the transmit power of the reporting AP, as measured at the output of the antenna connector. It is set following Table 9-xxx Transmit Power Difference subfield encoding.

|  |
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| Table 9-xxx Transmit Power Difference subfield encoding |
| Transmit Power Difference subfield value | Description |
| 0 | Transmit power of the reported AP is between 3 dB lower and 3 dB higher than the transmit power of the reporting AP. |
| 1 | Transmit power of the reported AP is between 3 and 6 dB lower than the transmit power of the reporting AP. |
| 2 | Transmit power of the reported AP is between 3 dB and 6 dB higher than the transmit power of the reporting AP. |
| 3 | Transmit power of the reported AP is more than 6 dB lower or more than 6 dB higher than the transmit power of the reporting AP, or the transmit power difference is unknown. |

***TGax editor: Change the following section 26.17.2.4 Out of band discovery of a 6 GHz BSS***