IEEE P802.11
Wireless LANs

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| CID 20073 |
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Abstract

This submission proposes resolutions for CID 20073 received for TGax LB238

Revisions:

* Rev 0: Initial version of the document.
* Rev 1: on-the-fly updates when the doc was presented during PM3 on 9/16/19

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. This introduction is 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** | **Pg/Ln** | **Section** | **Comment** | **Proposed Change** | **Resolution** |
| 20073 | Abhishek Patil | 424.54 | 26.15.7 | A 6GHz AP should have the ability to reject an association request based on the RSSI of the received request. Further AP must providing appropriate information (e.g., status code, retry-timeout, approrpiate RSSI threshold) to the STA to take further action (e.g., retry after some time if certain criteria are met). Provide appropriate rules for non-AP STA. Such a signaling will prevent STA from operating close to TPC limit and/or causing excessive retries when it can't exceed the set TxPower threshold | As in comment | **Revised**Agree in principle with the comment. Proposed resolution is to use Status code 34 (DENIED\_POOR\_CHANNEL\_CONDITIONS) to reject an association request if the frame was received at an RSSI below a threshold. Further, a new Reason code is added (POOR\_CHANNEL\_CONDITIONS). An AP can disassociate a STA if the frames from the STAs RSSI are received below a threshold for a certain amount of time. A non-AP STA that is denied association or receives disassociation frame with the above mentioned status or reason code is recommended to rety after sufficient amount of time has passed or the STA’s frames can be received by the AP at a sufficiently high RSSI level compared to its previous transmission.**TGax editor to make the changes shown in 11-19/0552r1 tagged as CID 20073.** |

**9.4.1.7 Reason Code field**[20073]

***TGax Editor: Insert a new row in Table 9-51 as follows and update the reserved row:***

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| Table 9-51 – Reason codes |
| Reason code | Name | Meaning |
| … |  |  |
| <ANA> | POOR\_RSSI\_CONDITIONS | Disassociated due to poor RSSI.[20073] |

**26.17.2 HE BSS operation in the 6 GHz band**

**26.17.2.1 General**[20073]

***TGax Editor: Insert the following paragraphs at the end of this subclause as follows:***

A 6 GHz HE AP may respond with a (Re)Association Response frame with the Status Code field indicating DENIED\_POOR\_CHANNEL\_CONDITIONS if it receives a (Re)Association Request frame from a non-AP STA below a minimum RSSI threshold value. A 6 GHz HE AP may send a Disassociation frame with the Reason Code field indicating POOR\_RSSI\_CONDITIONS to an associated non-AP STA if it receives frames from the STA below a minimum RSSI threshold value for a sufficiently long period of time. How an AP selects a minimum RSSI threshold value or sufficient interval of time is out of scope of this specification.

A 6 GHz HE non-AP STA that receives a (Re)Association Response frame with the Status Code field indicating DENIED\_POOR\_CHANNEL\_CONDITIONS or a Disassocation frame with the Reason Code field indicating POOR\_RSSI\_CONDITIONS from a 6 GHz HE AP should not transmit a (Re)Association Request frame or a Probe Request frame to the AP until one of the following condition is met:

* Sufficient time has passed since it received the (Re)Association Response frame or Disassociation frame from the AP
* The STA has determined that a (Re)Association Request frame or Probe Request frame that it transmits will be received by the AP at a sufficiently high RSSI level than its previous transmission to the AP.

How a non-AP STA determines sufficient time has passed or a suitable RSSI threshold is out of scope this specification.