IEEE P802.11  
Wireless LANs

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| CID 24031 Resolution | | | | |
| Date: 2020-07-28 | | | | |
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Abstract

This submission provides resolution to CID 24031.

**Comment:**

The 6 GHz PPDU MCS selection can be controlled by minimum rate field which is completely new mechanism to configure the transmission rate that can be used. Sub 6 GHz HE rate selection configures the available HE rates by using HT-MCS support field. This configuration is similar to minimum rate control in HT and VHT.

The sub 6 GHz minimum rate control is capable to control more precisely which tansmission rates are available. In sub 6 GHz, the AP can configure more precisely:

- the range of BSS

- the BW of transmissions

- i.e. AP can control the transmission modes and coverage of the BSS.

It is unclear why 6 GHz minimum rate mechanism uses completely different mechanism from legacy HT, VHT and HE in sub 6 GHz modes. The new mechanism to control the minimum rate at 6 GHz requires implementation of completely new mechanism. It is hard to see value in the new configuration mechanism.

The 6 GHz minimum rate configuration causes a situation, in which STAs far away from the AP transmit with large BW and low MCS. These transmissions will have poor spectral efficiency and they will consume a lot of resources. Also the AP has poor control of hte BSS range.

**Proposed Change:**

Change the Minimum Rate field to lowest HE-MCS configuration that is similar to mechanism that is used for HE in sub 6 GHz bands.

# Discussion:

6 GHz band has different transmission power and spectral power density requirements than the legacy 2.4 GHz and 5 GHz bands. The MCS specific transmission rate could operate well in 6 GHz, but the current minimum rate signalling allows more precise control of the transmission rate for the BSS.

**Proposed Resolution:**

Rejected. The CRC considered the comment but was not in favour of changing the existing minimum rate mechanism. The existing minimum rate controlling mechanism allows AP to control more precisely the allowed transmission rate of the STA.