IEEE P802.11
Wireless LANs

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| SA2 CID 25020 |
| Date: 2020-10-29 |
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Abstract

This submission proposes resolutions for the following comments from the SA2 on P802.11ax D7.0:

25020

NOTE – Set the Track Changes Viewing Option in the MS Word to “All Markup” to clearly see the proposed text edits.

**Revision History:**

R0: Initial version.

R1: Updated during teleconference on 10/29/2020.

# CID 25020

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| **CID** | **Clause** | **Page.Line** | **Comment** | **Proposed Change** |
| 25020 | 4.3.15a | 49.14 | The overview of an HE STA could be clearer. An HE STA operating in the 6 GHz band might be a VHT STA but it does not transmit VHT or HT PPDUs. A 20 MHz-only HE STA is defined for the 5 GHz band only. Also, the term that is defined is "20 MHz non-AP HE STA" (not "20 MHz HE STA"). To clarify, break this paragraph into separate requirements for 5 GHz and 6 GHz bands. And update the 2.4 GHz paragraph appropriately. | Replace the paragraphs at 49.14 and 49.25 with"For an HE STA that operates in the 2.4 GHz band, the following apply:- The HE STA is also an HT STA- Support for 20 MHz operating channel width is mandatory- Support for 40 MHz operating channel width is optionalFor an HE STA operating in the 5 GHz band, the following apply:- The HE STA is also a VHT STA except that a 20 MHz-only non-AP HE STA does not support operating channel widths greater than 20 MHz- Support for 20 MHz operating channel width is mandatory- Support for 40 MHz and 80 MHz operating channel width is mandatory unless the HE STA is a 20 MHz-only non-AP HE STA- Support for 160 MHz and 80+80 MHz operating channel widths is optional unless the HE STA is a 20 MHz-only non-AP HE STAFor an HE STA operating in the 6 GHz band, the following apply:- The HE STA is also a VHT STA except that it does not transmit VHT or HT PPDUs- Support for 20 MHz, 40 MHz and 80 MHz operating channel widths is mandatory- Support for 160 MHz and 80+80 MHz operating channel widths is optional" |

**Proposed Resolution: CIDs 25020**

**Revised**

Agree with the commenter that some more clarification would be useful. However, the suggested change by the commenter has some error. For example, proposed resolution by the commenter says that the 6 GHz band does not support 20 MHz-only HE STA, and that support for 160/80+80 MHz channel width is not optional for 20 MHz-only STA, which are both incorrect.

Instruction to Editor: Implement the proposed text update for CID 25020 in <https://mentor.ieee.org/802.11/dcn/20/11-20-1734-01-00ax-sa2-cid-25020.docx>

**Proposed Text Updates: CIDs 25020**

*Instruction to Editor: Update 11ax D7.0 P49L14 as shown below.*

**4.3.15a High efficiency (HE) STA**

The IEEE 802.11 HE STA operates in frequency bands between 1 GHz and 7.125 GHz.

In the 5 GHz and 6 GHz bands, the following apply:

— An HE STA is also a VHT STA if operating in the 5 GHz band except that a 20 MHz-only HE STA
does not support 40 MHz and 80 MHz channel widths

— An HE STA is also a STA that supports the OFDM PHY defined in Clause 17 (Orthogonal frequency division multiplexing (OFDM) PHY specification) if operating in the 6 GHz band

— Support for 20 MHz operating channel width is mandatory in an HE STA

— Support for 40 MHz and 80 MHz operating channel width is mandatory in an HE STA that is not a
20 MHz-only non-AP HE STA

— Support for 160 MHz and 80+80 MHz operating channel width is optional in an HE STA

In the 2.4 GHz band, the following apply:

— An HE STA is also an HT STA

— Support for 20 MHz operating channel width is mandatory in an HE STA

— Support for 40 MHz operating channel width is optional in an HE STA

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