IEEE P802.11
Wireless LANs

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| CC36 - CR for CIDs on 36.3.2 |
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This submission includes the resolution for two CIDs 4610 and 6987 on Subsection 36.3.2 of P802.11be D1.0.

##### Revision history:

##### R0 – initial version

**CID: 4610**

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| CID | Clause | Page | Line | Comment | Proposed Change | Proposed resolution |
| 4610 | 36.3.2 | 369 | 7 | 20MHz-only STAs introduce enormous inefficiency in BSSs using wider bandwidths | Make SST mandatory for 20MHz-only STAs operating in 5 or 6 GHz. Also P316L15-19 | **REJECTED**Discussion is shown as below.Note to the Editor: The rejection reason of this CID is shown in the discussion below. Please copy and paste the discussion to the comment database as the rejection reason. |

The motivation of CID 4610 is good to improve spectrum efficiency and utilization of a BSS. However, several issues need be considered if the SST operation for 20 MHz-only STAs is mandated.

***Discussion 1: 20 MHz-only non-AP EHT STA operation in 2.4 GHz and 5 GHz only***

What a 20 MHz-only non-AP EHT STA shall or may support has been specified in Subclause 36.1.1 (Introduction to the EHT PHY) (in particular, in P315L59-64 and P316L1-20) in 802.11be D1.0, in which a 20 MHz-only non-AP EHT STA does not support an operation in the 6 GHz band, and optionally supports SST operation in the 2.4 GHz and 5 GHz bands.

***Discussion 2: potential increase in complexity/cost of 20 MHz-only non-AP EHT STAs supporting mandatory SST operation***

The SST operation is related to a TWT operation that is optional for an HE non-AP STA. A mandatory SST operation requires a mandatory TWT operation as well. Currently, not all non-AP STA products support TWT operation. A 20 MHz-only non-AP EHT STA may be a relatively low-cost STA. Mandating SST operation for 20 MHz-only non-AP EHT STA increases the complexity and cost of such type of STAs.

***Discussion 3: 20 MHz operating non-AP EHT STA other than 20 MHz-only non-AP EHT STA***

As defined in Subclause 3.2 (Definitions specific to IEEE 802.11) (P41L55-59) in 802.11be D1.0 (text as below),



mandating the use of SST for a 20 MHz-only non-AP EHT STA implies mandating the use of SST for a 20 MHz operating non-AP EHT STA that reduces its operating channel width to 20 MHz as well in order to achieve the efficiency improvement with the same reason as for a 20 MHz-only non-AP EHT STA.

Furthermore, mandating SST operation for a 20 MHz operating non-AP EHT STA other than a 20 MHz-only non-AP EHT STA implies mandating SST operation for a larger channel width such as 80 MHz for a non-AP EHT STA. The reason to mandate SST operation for the larger channel width is not as strong as that for STAs with operating channel width of 20 MHz.

***Proposed resolution***

To keep the SST operation for 20 MHz-only non-AP EHT STA to be optional as specified in 802.11be D1.1.

**CID: 6987**

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| CID | Clause | Page | Line | Comment | Proposed Change | Proposed resolution |
| 6987 | 36.3.2 | 317 | 18 | Typo 'n a' | change 'n a' to 'in a' | **REVISED**Note: the text that this CID comments should be located in P371L18 rather than P317L18 in 802.11be D1.0. TGbe editor: Please revise the text in P371L18 in 802.11be D1.0 (or P421L18 in 802.11be D1.1) as “… on the primary 160 MHz channel in a 320 MHz EHT MU PPDU”. |