IEEE P802.11
Wireless LANs

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| Comment Resolution for CIDs 7660, 7661 and 7664 |
| Date: 2016-02-19 |
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##### This submission presents proposed resolution to CIDs 7660, 7661 and 7664. Changes indicated by instructions.

##### Revision history:

##### R0 – initial version

R1 – revised version for CID 7661

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| --- | --- | --- | --- | --- | --- |
| CID | Clause | Page | Line | Comment | Proposed Change |
| 7660 | 9.4.1.53 | 716 | 5 | Why do only 2 of the cells say "--- See NOTE 2" and "(See NOTE 1)"? | Add "--- See NOTE 2" and "(See NOTE 1)" to all the other cells except the ones saying "Reserved". Or just delete all of them |
| 7661 | 9.4.1.53 | 716 | 23 | What about 80 MHz? | Add "80 MHz," before "80+80 MHz" |
| 7664 | 9.4.1.53 | 716 | 48 | It says "Transmitting STA supports 20, 40, 80, and 160 or 80+80 MHz PPDUs at Max VHT NSS." -- what does the "or" mean? For backward compatibility it must be 160 MHz but not 80+80 | Change to "Transmitting STA supports 20, 40, 80 and 160 MHz PPDUs at Max VHT NSS. Transmitting STA does not support 80+80 MHz PPDUs." |

***Discussion:***

***General***

There three CIDs are related to Operating Mode field, particularly the contents of the 2-bit Channel Width subfield and the 2-bit Dynamic Extended NSS BW subfield in Table 9-74.

***For CID 7660***

In the table, there are 4 notes as follows:

* NOTE 1—A transmitting STA refers to the STA transmitting the Channel Width and Dynamic Extended NSS BW subfield of the Operating Mode field.
* NOTE 2—Max VHT NSS is defined per MCS in 8.4.2.157.3 (Supported VHT-MCS and NSS Set field)
* NOTE 3—Half Max VHT NSS is equal to one half of Max VHT NSS rounded down to the nearest integer.
* NOTE 4—Three fourths Max VHT NSS is equal to three fourths of Max VHT NSS rounded down to the nearest integer.

For NOTE 1, it is related to the definition of a transmitting STA. In the table, the transmitting STA is actually mentioned in every entry under the column “Meaning” except that the values of the Channel Width subfield and the Dynamic Extended BSS BW subfields are reserved. Interestly, NOTE 1 is added only to the first two entries but not all of the remaining entries in the table. Similar situation holds for NOTE 2, i.e., NOTE 2 is added only to the first appearance of Max VHT NSS but not the rest.

As a related note, NOTE 3 and NOTE 4 are not added in any of the entries under the column “Meaning”. These two notes are just inserted at the end of the Table. It implies that there is also an inconsistency of referencing NOTEs in the table.

***For CID 7661***

In the table, different values of the Channel Width subfield indicate the support of different bandwidth operations, namely:

* Value = 0: support 20 MHz PPDUs
* Value = 1: support 20 MHz and 40 MHz PPDUs
* Value = 2: support 20 MHz, 40 MHz, and 80 MHz PPDUs
* Value = 3: support 20 MHz, 40 MHz, 80 MHz, 160 MHz, 80+80 MHz PPDUs.

In line 716.23, it describes the support of 20 MHz and 40 MHz PPDUs when the value of the Channel Width subfield is 1. There is a typo here because 80 MHz PPDUs are not supported by the transmitting STA.

***For CID 7664***

When the value the Channel Width subfield is 3, the support of 160 MHz and 80+80 MHz PPDUs is dependent on the value of Supported Channel Width Set subfield of the VHT Capabilities Information field of the STA transmitting the OMN. In particular,

* Value of Supported Channel Width Set subfield = 1: Transmitting STA supports 20, 40, 80, and 160 MHz PPDUs
* Value of Supported Channel Width Set subfield = 2: Transmitting STA supports 20, 40, 80, and 160 or 80+80 MHz PPDUs

It can be observed that the entry in line 716.48 with the corresponding tuple (3,1,0) has the same meaning with that in line 717.11 with the corresponding tuple (3,2,0). Given the value of the Supported Channel Width Set subfield is 1 in line 716.48, the actual meaning of this entry should be the support of 20, 40, 80 and 160 MHz PPDUs by the transmitting STA and the support of 80+80 MHz is excluded.





**Resolution for CID 7660**

**Accepted**

### TGmc Editor: Delete “(SEE NOTE 1) and “— SEE NOTE 2” in all entries under the column “Meaning”.

**Resolution for CID 7661**

**Accepted**

### TGmc Editor: In lines 716.22 and 716.23, replace “Transmitting STA does not support 80+80 or 160 MHz PPDUs.” With “Transmitting STA does not support 80, 80+80 or 160 MHz PPDUs”.

**Resolution for CID 7664**

**Accepted**

### TGmc Editor: In lines 716.48 and 716.49, replace “Transmitting STA supports 20, 40, 80, and 160 or 80+80 MHz PPDUs at Max VHT NSS.” with “Transmitting STA supports 20, 40, 80 and 160 MHz PPDUs at Max VHT NSS. Transmitting STA does not support 80+80 MHz PPDUs."