IEEE P802.11  
Wireless LANs

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Resolution for “Obsolete?” DMG OFDM | | | | |
| Date: 2017-08 | | | | |
| Author(s): | | | | |
| Name | Affiliation | Address | Phone | email |
| Graham SMITH | SR Technology | Davie, FL, USA. | 916 799 9563 | gsmith@srtrl.com |
| Lei Huang | Panasonic |  |  | Lei.huang@sg.panasonic.com |

Abstract

This submission proposes resolutions for CID 64

Green indicates material agreed to in the group,

yellow material to be discussed, red material rejected by the group and

cyan material not to be overlooked.

The “Final” view should be selected in Word.

R1 – corrected reference to Figure 20-21 and added new Figure diagram.

R2 – Review by Lei.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| CID | Commenter | Clause | Page | Line | Comment | Proposed |
| 64 | Graham Smith | 20.5.1 | 2627 | 7 | Time to remove DMG OFDM? | Remove |

CID 64 DMG OFDM

*Transmission and reception of DMG OFDM mode PPDUs is optional. The use of the DMG OFDM mode is obsolete. Consequently, this option may be removed in a later revision of the standard.*

Seems clear to me. Delete 20.5 etc.

139 instances but about 30+ are in the Index.

Discussed 8/9 by 11ay

**11ay meeting on August 9, 2017**

Carlos: Provided the obsolete text. Mode not used and could be removed. Concern with resolution global text. No general issue to remove but needs careful work

Lei: Agree with Carlos. Special MAC features related to OFDM need to be removed correctly. Timing features need to be arr

Assaf: Highly supportive to remove. Need to have a contribution willing to support removal.

Dorothy: Specific detailed actions required. Helpful to look at original contribution that introduced DMG OFDM. D1.0 slated for January. Like to resolve as many comments as possible.

Mark H observation : General support. Removal is more complicated, including clean-up of MCS rates, (consider/remove?) dynamic tone pairing, PHY timing. Need a detailed contribution. (Carlos C, Assaf and Lei can help.)

Note to self : MCS 13 – 24 are the DMG OFDM that need to be removed.

Consensus to remove

**RESOLUTION**

**REVISED**

176.28 delete “DTP dynamic tone pairing”

214.60 delete “20.5 (DMG OFDM mode)”

840.15 Table 9-77, replace “Dynamic Tone Pairing Report (see 9.4.2.146 (Dynamic Tone Pairing (DTP) Report element))” by “Reserved”

1123.20 replace “DTP Supported” by “Reserved”

1124.54 replace “an integer in the range 0 to 31” by “an integer in the range 0 to 12, or an integer in the range 25 to 31”

1125.5 replace “Maximum OFDM Rx MCS” by ‘Reserved”

1125.5 replace “Maximum OFDM Tx MCS” by “Reserved”

1125.20 delete the whole paragraph regarding the Maximum OFDM Rx MCS subfield

1125.33 delete the whole paragraph regarding the Maximum OFDM Tx MCS subfield

1125.46 Change as shown “MCS with 13/16 code rate specified in Table 20-19 (DMG SC mode modulation and coding schemes) is not supported regardless of the value in Maximum SC Tx/Rx MCS subfields.”

1125.52 delete the whole paragraph regarding the DTP Supported subfield

1151.45 delete 9.4.2.146 Dynamic Tone Pairing (DTP) Report element in its entirety

1364.6, replace “DTP Request” by “Reserved”

1364.7, replace “DTP Response” by “Reserved”1368.32 delete 9.6.20.8 DTP Request frame format in its entirety

1368.54 delete 9.6.20.9 DTP Report frame format in its entirety

1461.36 delete “or DMG OFDM modulation class”

1464.22 Table 10-6, delete row “DMG OFDM”

1685.37 delete 10.40 DMG dynamic tone pairing (DTP) in its entirety

2605.9 replace “three” by “two”

2605.16 delete “- An OFDM modulation using MCS 13 to MCS 24 (the DMG OFDM mode; see 20.5 (DMG OFDM mode))”

2605.29 delete “DMG OFDM mode,”

2606.34 delete “— MCS values of 13 to 24 indicates use of OFDM modulations. The value is an index to Table 20-14 (DMG OFDM mode modulation and coding schemes).

2607.51 Table 20-1, delete row “DTP\_TYPE”

2607.57 Table 20-1, delete row “DTP\_INDICATOR”

2609.41 delete “OFDM”

2609.41 replace “four” by “three”

2610.9 delete “or, equivalently, in OFDM (MCS 13-24), +2.5 dB relative to the average power of a subcarrier, measured

over a subcarrier spacing bandwidth”

2611.38 Table 20-3, delete row “13” to row “24”

2612.23 Table 20-4, delete row “*NSD*: Number of data subcarriers” to row “*NSR*: Number of subcarriers occupying half of the overall BW”

2612.35 Table 20-4, delete two rows “Δ*F*: subcarrier frequency spacing” and “*Fs*: OFDM sample rate”

2612.40 Table 20-4, delete row “*Ts*: OFDM Sample Time”

2612.44 Table 20-4, delete two rows “*TDFT*: OFDM IDFT/DFT period” and “*TGI*: guard interval duration”

2613.11 Table 20-4, delete row “*TSYM*: Symbol Interval”2613.13 delete “0.242 μs=*TSYM* (OFDM)”

2613.25 delete “*NSYM* × *TSYM* (OFDM)”

2613.28 delete “*NSYM* is defined in 20.5.3.2.3.3 (LDPC encoding process) and”

2613.46 Table 20-5, delete row “*NBPSC*”

2614.33 delete whole parapraph ((2614.33 to 2614.47) regarding the OFDM base band waveform rField(nTs)

2615.1 delete 20.3.5.2 Windowing function in its entirety

2615.48 delete “indication of modulation (SC or OFDM)”

2615.49 delete “is common to both OFDM packets and SC packets and”

2615.50 delete “The content of the Short Training field is the same between SC and OFDM packets (see 20.3.6.2 (Short Training field)), but the content of the Channel Estimation field is not the same between such packets (see 20.3.6.3 (Channel Estimation field)).”

2615.54 delete “and Figure 20-5 (OFDM preamble) illustrates the OFDM packet preamble”

2616.4 delete Figure 20-5—OFDM preamble

2616.65 delete “When the data field of the packet is modulated using OFDM, the Gu512 and Gv512 fields are concatenated in the order illustrated in Figure 20-7 (Channel Estimation field for OFDM packets).”

2617.17 delete Figure 20-7—Channel Estimation field for OFDM packets

2617.35 delete equation of rCEOFDM(nTc)

2617.42 delete 20.3.6.4 Transmission of the preamble and BRP fields in an OFDM packet in its entirety

2618.42 delete “**DMG OFDM mode,”**

2621.22 delete “and OFDM”

2624.14 delete “DMG OFDM mode,”

2624.27 delete “DMG OFDM mode,”

2627.1 delete 20.5 DMG OFDM mode in its entirety

2643.26 delete “DMG OFDM mode,”

2656.60 replace “, SC blocks or OFDM symbols” by “or SC blocks”

2657.6 replace “, SC, or OFDM” by “or SC”

2657.14 delete “20.5.3.2.3 (Encoding),”

2657.15 delete “20.5 (DMG OFDM mode),”

2658.1 Figure 20-21

Replace Figure 20-21 with following:

Note to Editor: Visio version is available



2659.35 replace “, SC blocks or OFDM symbols” by “or SC blocks”

2659.47 replace “according to the PHY type determined” by “following”

2659.48 delete “the CE field indicated a SC mode,”

2661.1 Figure 20-23

Replace Figure 20-23 with following:



2662.31 replace “LP SC mode header, and OFDM mode header” by “and LP SC mode header”

2662.58 delete “The minimum duration of the data field of a BRP packet when sent in an DMG OFDM mode is aBRPminOFDMblocks OFDM blocks and, if needed, the data field of the packet shall be extended by extra zero padding to generate the required number of OFDM symbols.”

2663.47 delete “OFDM or”

2664.42 delete 20.10.2.2.8 BRP resampling in an OFDM packet in its entirety

2666.54 delete “the DMG OFDM mode and for”

2666.56 delete “– see, for example, Table 20-13 (DMG OFDM mode header fields)”

2666.64 delete the last row of the equation of *TXTIME*

2667.7 delete “δ = aBRPminOFDMblocks”

2667.49 delete “; DMG OFDM mode: 3.3 μs”

2668.19 Table 20-32 delete row “aBRPminOFDMblocks”

3025.57 delete “DMG-M12” entry

3029.17 delete “DMG-M22.7” entry

3030.13 delete “DMG-P2.3” entry

3030.32 delete DMG-P2.5.3 entry

3654.4 delete “For DMG OFDM mode modulation samples, no symbol shaping has been applied to the data because the implementation of OFDM symbol shaping is not defined in this standard.”

3667.17 delete I.7 in its entirety