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Title	Corrections in the Implementation of C80216m-09/2532r1 on Four Sector Deployments (Sections 16.3.5 and 16.3.8)
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Re:	Category: P802.16m/D3 comments for LB30b Area: Sections 16.3.5 (DL PHY Structure) and 16.3.8 (UL PHY Structure)
Abstract	Errors were made during the implementation of contribution C80216m-09/2532r1, which was accepted at Session #64 in Atlanta, GA. This contribution proposes to correct the errors so that the text is as proposed in the previously accepted contribution.
Purpose	Discuss and adopt
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Corrections in the Implementation of C80216m-09/2532r1 on Four Sector Deployments (Sections 16.3.5 and 16.3.8)

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1. Introduction

Contribution C80216m-09/2532r1 proposed changes to the DL and UL PHY structure to better support four sector deployments. The contribution was accepted at Session #64 in Atlanta, GA but was implemented with errors. This contribution proposes changes which correct the errors made in implementing the previously accepted contribution.

2. Proposed Text Changes

[Modify Table 781 (5 MHz bandwidth) on page 325 as follows:]

DFPC	Freq. Partitioning (FP ₀ :FP ₁ :FP ₂ :FP ₃)	FPCT	FPS ₀	FPS _i (i>0)
0	1:0:0:0	1	N _{PRU}	0
1	0:1:1:1	3	0	N _{PRU} * 1/3
2	1:1:1:1	4	N _{PRU} * 1/4	N _{PRU} * 1/4
3	3:1:1:1	4	N _{PRU} * 1/2	N _{PRU} * 1/6
4	9:5:5:5	4	N _{PRU} * 3/8	N _{PRU} * 5/24
<u>5</u>	<u>0:1:1:0</u>	<u>2</u>	<u>0</u>	<u>N_{PRU} * 1/2 for i = 1, 2</u> <u>0 for i = 3</u>
<u>6</u>	<u>1:1:1:0</u>	<u>3</u>	<u>N_{PRU} * 1/3</u>	<u>N_{PRU} * 1/3 for i = 1, 2</u> <u>0 for i = 3</u>
5-7	Reserved			

[Modify the second line (to the right of the equals sign) in Equation 185 on p. 325 as follows:]

$$DFPSC \quad i>0, FPCT = \underline{4}, \text{ or } DFPC = 1$$

[Modify the last two lines (to the right of the equals sign) in Equation 185 on p. 325 as follows:]

$$\begin{aligned} K_{SBF}/2 & \quad i = 1, 2, FPCT = 2 \\ K_{SBF} & \quad i = 0, FPCT = 1 \end{aligned}$$

[Modify lines 62-65 on p. 328 and lines 1-2 on p. 329 as follows (2 changes):]

When $FPCT = 2$, $DCAS_{SB,i}$ and $DCAS_{MB,i}$ for $i=1$ and 2 are signaled using the $DCAS_{SB,0}$ and $DCAS_{MB,0}$ fields in the SFH. Since FP_0 and FP_3 are empty, $L_{SB-CRU,FP0} = L_{MB-CRU,FP0} = L_{DRU,FP0} = \underline{0}$ and $L_{SB-CRU,FP3} = L_{MB-CRU,FP3} = L_{DRU,FP3} = 0$. For $i=1$ and 2 , $L_{SB-CRU,FPi} = N_i * DCAS_{SB,0}$ and $L_{MB-CRU,FPi}$ is obtained using the mappings in Table 782 through Table 784 for system bandwidths of 20 MHz, 10 MHz and 5 MHz, respectively.

[Modify Table 874 (5 MHz bandwidth) on page 499 as follows:]

UFPC	Freq. Partitioning (FP ₀ :FP ₁ :FP ₂ :FP ₃)	FPCT	FPS _i (i=0)	FPS _i (i>0)
0	1:0:0:0	1	N _{PRU}	0
1	0:1:1:1	3	0	N _{PRU} * 1/3
2	1:1:1:1	4	N _{PRU} * 1/4	N _{PRU} * 1/4
3	3:1:1:1	4	N _{PRU} * 1/2	N _{PRU} * 1/6
4	9:5:5:5	4	N _{PRU} * 3/8	N _{PRU} * 5/24
<u>5</u>	<u>0:1:1:0</u>	<u>2</u>	<u>0</u>	<u>N_{PRU} * 1/2 for i = 1, 2</u> <u>0 for i = 3</u>
<u>6</u>	<u>1:1:1:0</u>	<u>3</u>	<u>N_{PRU} * 1/3</u>	<u>N_{PRU} * 1/3 for i = 1, 2</u> <u>0 for i = 3</u>
4-7	<i>Reserved</i>			

[Modify the options (i.e., to the right of the large brace) in Equation 237 on p. 499 as follows:]

$$\begin{array}{ll}
 K_{SB} - (FPCT - 1) \cdot \mathcal{D}UFPS_C & i = 0, FPCT = 4 \\
 \mathcal{D}UFPS_C & i > 0, FPCT = \mathcal{4}; \text{ or } UFPC = 1 \\
 K_{SB} - (FPCT - 1) \cdot UFPS_C & i = 0, FPCT = 3, UFPC \neq 1 \\
 UFPS_C & i = 1, 2, FPCT = 3, UFPC \neq 1 \\
 K_{SB}^E/2 & i = 1, 2, FPCT = 2 \\
 K_{SB}^E & i = 0, FPCT = 1
 \end{array}$$

[Modify lines 62-65 on p. 328 and lines 1-2 on p. 329 as follows:]

When $FPCT = 2$, $\mathcal{D}UCAS_{SB,i}$ and $\mathcal{D}UCAS_{MB,i}$ for $i=1$ and 2 are signaled using the $\mathcal{D}UCAS_{SB,0}$ and $\mathcal{D}UCAS_{MB,0}$ fields in the SFH. Since FP_0 and FP_3 are empty, $L_{SB-CRU,FP0} = L_{MB-CRU,FP0} = L_{DRU,FP0} = \mathcal{0}$ and $L_{SB-CRU,FP3} = L_{MB-CRU,FP3} = L_{DRU,FP3} = 0$. For $i=1$ and 2 , $L_{SB-CRU,FPi} = N_I \cdot \mathcal{D}UCAS_{SB,0}$ and $L_{MB-CRU,FPi}$ is obtained using the mappings in Table 8705 through Table 8747 for system bandwidths of 20 MHz, 10 MHz and 5 MHz, respectively.