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<th>Project</th>
<th>IEEE 802.16 Broadband Wireless Access Working Group <a href="http://ieee802.org/16">http://ieee802.org/16</a></th>
</tr>
</thead>
<tbody>
<tr>
<td>Title</td>
<td>Clarification Of PRBS Seeds</td>
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<tr>
<td>Date Submitted</td>
<td>2005-05-05</td>
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</tbody>
</table>
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| DateSubmitted    | 2005-05-05 |
| Re:              | IEEE 802.16 WG Recirculation Ballot #17a on P802.16-2004/Cor1/D2       |
| Abstract         | This contribution is for clarification of renumbering and permutation based on DL PermBase parameter |
| Purpose          | To incorporate the text modification proposed in this contribution into P802.16-2004/Cor1/D3. |
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Clarification Of PRBS Seeds

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1. Problem Statement

The seed description of ranging code PRBS and the diagram are not consistent.

2. Specific text changes

=== Start text changes ====

[Modify the following text to section 8.4.7.3 Ranging codes in Cor1/D2:]

The PRBS generator shall be initialized by the seed \(b_0...b_{154} b_{14}...b_0=0,0,1,0,1,0,1,s_0,s_1,s_2,s_3,s_4,s_5,s_6\) where \(s_6\) is the MSB of the PRBS seed, and \(s_6:s_0 = UL_{IDcellPermBase}\), where \(s_6\) is the MSB of \(UL_{IDcellPermBase}\).

[Modify Figure 243 in Cor1/D2:]
Replace “MSB” In the diagram with “LSB”, and “LSB” with “MSB”.

[Modify Figure 204 in IEEE802.16-2004:]
Replace “MSB” In the diagram with “LSB”, and “LSB” with “MSB”.

[Modify Figure 262 in IEEE802.16-2004:]
Replace “MSB” In the diagram with “LSB”, and “LSB” with “MSB”.

[Modify 8.4.9.4.1 Permutation definition in IEEE802.16-2004:]
Replace “b10” with “b0”
Replace “b9” with “b1”
Replace “b8” with “b2”
Replace “b7” with “b3”
Replace “b6” with “b4”
Replace “b4” with “b6”
Replace “b3” with “b7”
Replace “b2” with “b8”
Replace “b1” with “b9”
Replace “b0” with “b10” in the section text.

[Modify Figure 260 in IEEE802.16-2004:]
Replace “MSB” In the diagram with “LSB”, and “LSB” with “MSB”.

[Modify Figure 253 in IEEE802.16-2004:]
Replace “MSB” In the diagram with “LSB”, and “LSB” with “MSB”.

[Modify Figure 197 in IEEE802.16-2004:]
Replace “MSB” In the diagram with “LSB”, and “LSB” with “MSB”.

[Modify Figure 198 and Figure 199 in IEEE802.16-2004:]
Replace “MSB” In the diagram with “LSB”, and “LSB” with “MSB” ONLY in the bottom registers.
Replace “b14” with “b0”
Replace “b13” with “b1”
Replace “b12” with “b2”
Replace “b11” with “b3”
Replace “b8” with “b6”
Replace “b7” with “b7”
Replace “b5” with “b9”
Replace “b4” with “b10”
Replace “b3” with “b11”
Replace “b2” with “b12”
Replace “b1” with “b13”
Replace “b0” with “b14”

No changes on the upper three register arrays and the notations.

=== End text changes =====

3. References

[1] IEEE 802.16-2004
[2] P80216_Cor1_D2