Clarification on the Band AMC Operation

Title
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Abstract
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Purpose
Adopting of proposed method into P802.16d

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Clarification on the Band AMC Operation
**Introduction**

In section 6.3.17.4, differential CINR report for Band AMC operation using FAST_FEEDBACK channel is described, but it is not in in section 8.4.5.4.10 in which FAST_FEEDBACK channel is described. So it is needed to add the corresponding sub-section in section 8.4.5.4.10.

**Suggested change to the standard**

[Adopt the following changes in section 6.3.17.4, page 270, line 37]
A CINR measurement is quantized into \(32\) levels and encoded into \(4\) information bits.

[Adopt the following changes in section 6.3.17.4, page 270, line 50]
The REP-RSP (see 11.12 for the TLV encodings) includes the CINR measurements of \(4\) best bands.

[Adopt the following changes in section 6.3.17.4, page 270, line 61]
The BS acknowledges the trigger by allocating Band AMC subchannels. From the next frame when the SS sent the REP-RSP, the SS starts reporting the differential of CINR \(4\) selected bands (increment: 1 and decrement: 0 with a step of 1dB) on its CQICH.

[Add the following section after 8.4.5.4.10.3, page 544, line 65]

8.4.5.4.10.4 Band AMC differential CINR feedback

When the Band AMC operation is triggered, the SS shall report the differential of CINR for \(4\) selected bands (increment: 1 and decrement: 0 with a step of 1 dB) on its FAST_FEEDBACK channel.

[Adopt the following changes in section 11.12, page 700, line 52]

<table>
<thead>
<tr>
<th>REP-REQ Channel Type request</th>
<th>Name</th>
<th>Type</th>
<th>Length</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>...</td>
<td>...</td>
<td>...</td>
<td>...</td>
<td>...</td>
</tr>
<tr>
<td>Channel Type = 01</td>
<td>Band AMC Report</td>
<td>2.2</td>
<td>4.5</td>
<td>First 12 bits for the band indicating bitmap and Next 25 bits for CINR reports (5 bits per each band)</td>
</tr>
</tbody>
</table>