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Title	ARQ selective map	
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Re:	IEEE P802.16e/D32004	
Abstract	ARQ selective map	
Purpose		
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ARQ selective map

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1. Motivation

ARQ selective map is a 16bits (=16 blocks) fields in the Selective feedback IE. The definition of it is the following:.

Selective ACK Map

Each bit set to one indicates the corresponding ARQ block has been received without errors. The bit corresponding to the BSN value in the IE, is the most significant bit of the first map entry. The bits for succeeding block numbers are assigned left-to-right (MSB to LSB) within the map entry. If the ACK Type is 0x2, then the most significant bit of the first map entry shall be set to one and the IE shall be interpreted as a cumulative ACK for the BSN value in the IE. The rest of the bitmap shall be interpreted similar to ACK Type 0x0.

The problem with this definition is that it does not specify the meaning/usage of the bits when only less than 16 blocks require a feedback.

We are proposing to define that in a case when feedback allocation is less than 16 blocks , all the least significant bits will be zeros and meaningless. The motivation is that in ARQ you can know that you can de-acknowledge a block only after you receive a block with higher block number. This is why zeros without "one" in front of them can be ignored.

2. Changes summary:

In section

6.3.4.2 ARQ Feedback IE format

Add the following sentence to the end of the "Selective ACK Map" definition:

Contiguous zeros bit stream starting from the least significant bit of this 16 bitmap field, shall be simply ignored and should not be treated as a NACK indication.