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Abstract		
Purpose		
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Subchannelized Network Entry correction

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1. Introduction

SS can perform subchannelized network entry by energizing a single subchannel. The BS need only detect that energy is sent on a single subchannel and may respond by providing an allocation in subchannelized region. The SS is identified by the Transmit Opportunity and Frame Number, in which the subchannelized network entry signal was received. According to 802.16-2003/D0, this needs to be followed by an allocation of initial maintenance region with CID=0, during which the SS will transmit a RNG-REQ so that this can be decoded by the BST. For a subchannelized SS this Initial Maintenance allocation needs to be performed in subchannelized region (otherwise the SNR is inadequate for decoding) – an action that is currently forbidden by the 802.16d-D3. This submission elaborates the changes needed to support this capability.

The ~~text to delete is denoted by blue~~, while the text to add is denoted by red

2. Proposed Text

[Change in 8.4.5.3]

When subchannelization is active (see 8.4.5.3.5), UIUC's = 3 ~~1 and 3~~ shall not be used. Allocation specified in subchannelized region by UL MAP IE with UIUC = 1 (Initial Ranging) shall be used only by those SSs that 1) support subchannelization 2) have performed successful subchannelized initial ranging attempt meaning that SS has received RNG-RSP message referencing to Transmit Opportunity and Frame Number and performed timing, power and frequency adjustment prescribed by RNG-RSP message

[Change in 8.4.6.2 Ranging]

"The BS needs only detect that energy is sent on a single subchannel and may respond by issuing a RNG-RSP message ~~allocating a single subchannel~~ identifying the SS by the Transmit Opportunity and Frame Number in which the transmission was received. The RNG-RSP message may be followed by an allocation of Initial Maintenance transmit opportunities in subchannelized region, which is accomplished by sending an UL MAP IE with UIUC = 1 and CID=0 (see 8.4.5.3). The size of each Transmit Opportunity shall be big enough as to contain at least RNG-REQ message (6.2.2.3.5)."