

Project	<b>IEEE 802.16 Broadband Wireless Access Working Group</b> < <a href="http://ieee802.org/16">http://ieee802.org/16</a> >	
Title	<b>Text Proposal of HR-MS Operating at BS Mode</b>	
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Re:	Call for Comments for 802.16n AWD	
Abstract	In this contribution, we propose text of multi-mode operation for 802.16n.	
Purpose	To discuss and adopt the proposed text in the 802.16n draft Text	
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## Text Proposal for HR-MS Operating at BS Mode

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### 1. Introduction

This Document specifies the process of HR-MS to operate as an HR-BS. Two operation modes are specified: proactive mode and reactive mode.

### 4. Text Proposal for IEEE 802.16n AWD

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Note:

The text in **BLACK** color: the existing text in AWD

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[-----Insert the following text to Section 17.3.1-----]

#### 17.3.1 Multi-mode operation

##### 17.3.1.3 Base Station Function for HR-MS (BS Mode)

HR-MS shall only start its BS mode when its superordinate HR-BS is unavailable in the HR network. The HR-MS may start operating as a HR-BS in a Proactive mode or a Reactive mode. For proactive mode, the mode switch is directed by the superordinate HR-BS of the HR-MS; In reactive mode, the mode switch is initiated by the HR-MS itself.

##### Proactive Mode Operation

For proactive mode operation, the superordinate HR-BS shall maintain a table of its 1-hop HR-MS neighbors which are capable of role changing to HR-BS. The candidate HR-MSs may be ranked according to the measured signal power at HR-BS. When the HR-BS fails, the HR-MS at the first place of maintained table will start to operate on its BS mode. The HR-BS updates this table periodically based on the topology information obtained.

##### Reactive Mode Operation

For reactive mode, the HR-MSs which are capable of role changing to HR-BS may contend for operating at BS mode when the superordinate HR-BS fails.

[-----End of Text Proposal-----]