Project	IEEE 802.16 Broadband Wireless Access Working Group http://ieee802.org/16 >
Title	Text Proposal of HR-MS Operating at BS Mode
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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.

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4. Text Proposal for IEEE 602.1011 AWD
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Note:
The text in BLACK color: the existing text in AWD
The text in RED color: the removal of existing AWD text
The text in BLUE color: the new text added to AWD
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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 or other metrics. 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

