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| Project | **IEEE 802.16 Broadband Wireless Access Working Group <**<http://ieee802.org/16>**>** | |
| Title | **Dual-role operation of multimode HR-MS over IEEE 802.16n** | |
| Date Submitted | **2012-05-04** | |
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| Re: | “IEEE 802.16-12-271,” in response to Letter Ballot Recirc #37a on P802.16n/D2 | |
| Abstract | This contribution is a proposal related to dual-role operation of HR-MS in IEEE 802.16n to be consistent with 802.16.1a. | |
| Purpose | To discuss and adopt the proposed text in the draft amendment document on GRIDMAN | |
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**Dual-role operation of multimode HR-MS over IEEE 802.16n**

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# Introduction

At the session #76 meeting, Section 6.12.1.2.5 of IEEE 802.16.1a has been updated by a contribution (IEEE C802.16n-11/0244). However, the contribution did not include a proposed text for IEEE P802.16n/D2. This contribution describes the proposed text related to dual-role operation of HR-MS in IEEE 802.16n to be consistent with IEEE P802.16.1a/D2.

# References

[1] IEEE P802.16nTM/D2, Air Interface for Broadband Wireless Access Systems - Draft Amendment: Higher Reliability Networks, April 2012.

[2] IEEE P802.16.1aTM/D2, WirelessMAN-Advanced Air Interface for Broadband Access Systems - Draft Amendment: Higher Reliability Networks, April 2012.

[3] EEE P802.16Rev3/D6, IEEE Draft Standard for Local and metropolitan area networks; Part 16: Air Interface for Fixed and Mobile Broadband Wireless Access Systems,” April 2012.

[4] IEEE P802.16.1TM/D6, IEEE Draft for WirelessMAN-Advanced Air Interface for Broadband Wireless Access Systems, April 2012.

# Proposed Text for the 802.16.1a AWD

Note:

The text in **BLACK** color: the existing text in the 802.16.1a AWD

The text in **~~RED~~** color: the removal of existing 802.16.1a AWD

The text in **BLUE** color: the new text added to the 802.16.1a AWD

[-------------------------------------------------Start of Text Proposal---------------------------------------------------]

**[*Remedy1: Insert the following subsection in Section 16.1.2 in IEEE P802.16.1a/D2.*]**

***[page# 70, line# 38]***

**16.1.2 Relay function for HR-MS**

**…**

**16.1.2.4 Dual-role operation of HR-MS**

An HR-MS acting as RS may maintain MS functionalities in company with RS functionalities. When an HR-MS in connected state receives RS\_Config-CMD message, the HR-MS establishes relay link with the superordinate HR-BS and starts the RS mode. At this time, the MS mode in the HR-MS is behaving as a subordinate station of the RS mode. For connecting the MS’s service flow(s), the MS mode shall communicate with the RS mode through internal interfaces in the dual-role HR-MS. The RS mode in the dual-role HR-MS requests to the superordinate HR-BS for switching the data path of the MS mode by exchanging the MS\_Context-REQ/RSP message, as if the MS’ handover process had been performed.