

Project	IEEE 802.16 Broadband Wireless Access Working Group < http://ieee802.org/16 >	
Title	Proposed Change on SRD	
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Re:	“IEEE 802.16n-11/0020,” in response to Call for Comments on GRIDMAN	
Abstract	Text change on SRD	
Purpose	To discuss and adopt the proposed text in the SRD on GRIDMAN	
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Proposed Change on SRD

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1. Introduction

In IEEE 802.16Rev3[4] and IEEE 802.16.1[5], relay operation is described to provide coverage extension. IEEE 802.16Rev3 describes RS having multihop relaying functionality, yet IEEE 802.16.1 describes the ARS having no more than 2 hop relaying functionality.

The requirement of coverage extension in IEEE 802.16n[1][2][3] can be achieved by the following operations:

- relay function for HR-BS/HR-MS
- Direct communication and FTN
- multihop relaying

In the GRIDMAN AWD[2][3], no functional description is defined how to support multihop relaying and its security (especially based on IEEE 802.16.1) but relay function for HR-MS/HR-MS, DC and FTN are described.

Furthermore, multihop relaying and its security on the 802.16Rev3 is already defined and the other function using relay function for HR-MS/HR-MS, DC, and FTN can be used instead of multihop relaying in the top of 802.16.1.

Thus, this document provides text change on the IEEE 802.16n SRD[1].

2. References

- [1] IEEE 802.16n-10/0048r2, 802.16n System Requirement Document including SARM annex, July 2011.
- [2] IEEE 802.16n-11/0024, P802.16n Draft AWD, October 2011.
- [3] IEEE 802.16n-11/0025, P802.16.1a Draft AWD, October 2011.
- [4] IEEE P802.16Rev3/D2, IEEE Draft Standard for Local and metropolitan area networks; Part 16: Air Interface for Fixed and Mobile Broadband Wireless Access Systems," October 2011.
- [5] IEEE P802.16.1TM/D2, [Draft] WirelessMAN-Advanced Air Interface for Broadband Wireless Access Systems, October 2011.

3. Proposed Text on the IEEE 802.16n SRD

Note:

The text in **BLACK** color: the existing text in the IEEE 802.16 GRIDMAN SRD

The text in **RED** color: the removal of existing IEEE 802.16 GRIDMAN SRD

The text in **BLUE** color: the new text added to the IEEE 802.16 GRIDMAN SRD

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

[Remedy1: Change the section 6.1.2.2 or remove the section 6.1.2.2 in GRIDMAN SRD as indicated:]

[Option 1]

6.1.2.2 Multi-hop relaying

HR-Network shall provide ~~at least~~ no more than 2 hop relaying function.

[Option 2]

~~6.1.2.2 Multi hop relaying~~

~~HR-Network shall provide at least a 2 hop relaying function.~~

[Remedy2: Remove the section 6.1.4.1.3 in GRIDMAN SRD as indicated:]

~~6.1.2.3 Security requirements for HR-Network nodes acting as relays~~

~~HR-station that functions as a relay shall forward security related messages between other HR-station and a security server, both during security association establishment and ongoing communications.~~

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