<table>
<thead>
<tr>
<th>Project</th>
<th>IEEE 802.16 Broadband Wireless Access Working Group [<a href="http://ieee802.org/16">http://ieee802.org/16</a>]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Title</td>
<td>Proposed Change on SRD</td>
</tr>
<tr>
<td>Date Submitted</td>
<td>2011-10-31</td>
</tr>
<tr>
<td>Source(s)</td>
<td>Eunkyung Kim, Sungcheol Chang, Won-Ik Kim, Seokki Kim, Sungkyung Kim, Miyoung Yun, Hyun Lee, Chunsik Yoon, Kwangjae Lim</td>
</tr>
<tr>
<td>Voice</td>
<td>+82-42-860-5415</td>
</tr>
<tr>
<td>E-mail</td>
<td><a href="mailto:ekkim@etri.re.kr">ekkim@etri.re.kr</a></td>
</tr>
<tr>
<td></td>
<td><a href="mailto:scchang@etri.re.kr">scchang@etri.re.kr</a></td>
</tr>
<tr>
<td>Re:</td>
<td>“IEEE 802.16n-11/0020,” in response to Call for Comments on GRIDMAN</td>
</tr>
<tr>
<td>Abstract</td>
<td>Text change on SRD</td>
</tr>
<tr>
<td>Purpose</td>
<td>To discuss and adopt the proposed text in the SRD on GRIDMAN</td>
</tr>
<tr>
<td>Notice</td>
<td>This document does not represent the agreed views of the IEEE 802.16 Working Group or any of its subgroups. It represents only the views of the participants listed in the “Source(s)” field above. It is offered as a basis for discussion. It is not binding on the contributor(s), who reserve(s) the right to add, amend or withdraw material contained herein.</td>
</tr>
<tr>
<td>Copyright Policy</td>
<td>The contributor is familiar with the IEEE-SA Copyright Policy [<a href="http://standards.ieee.org/IPR/copyrightpolicy.html">http://standards.ieee.org/IPR/copyrightpolicy.html</a>].</td>
</tr>
</tbody>
</table>
Proposed Change on SRD

Eunkyung Kim, Sungcheol Chang, Won-Ik Kim, Seokki Kim, Sungkyung Kim, Miyoung Yun, Hyun Lee, Chulsik Yoon, Kwangjae Lim

ETRI

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

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 a **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-------------------------------------]