TEK Transfer in Relay Systems

IEEE 802.16 Presentation Submission Template (Rev. 8.3)

Document Number:

IEEE S802.16j-07/149

Date Submitted:

2007-01-14

Source:

Masato Okuda, Yuefeng Zhou, Mike Hart
Fujitsu

Voice: +81-44-754-2811
okuda@jp.fujitsu.com

[Add co-authors]

Venue:

IEEE 802.16 Session #47, London, UK

Base Document:

IEEE C802.16j-07/149

Purpose:

For discussion and approval of inclusion of the proposed text into the P802.16j baseline document.

Introduction

- This contribution proposes MS TEK transfer to RS.
- Necessities of MS TEK at RS
  - Subheaders
    - Subheaders are encrypted as a part of MAC-PDU payload. So, RS cannot get subheader information (ex. Piggybacked BW request) without MS TEK.
  - Fragmentation/Packing
    - In distributed systems, fragment/pack PDUs at RS will improve bandwidth usage efficiency. In order to reconstruct PDUs at RS, RS need to decrypt/encrypt the PDUs with MS TEK.

Example of MS TEK transfer