

Title (en)
METHODS AND SYSTEMS FOR WIRELESS NETWORKS WITH RELAYS

Title (de)
VERFAHREN UND SYSTEME FÜR DRAHTLOSE NETZWERKE MIT RELAIS

Title (fr)
PROCÉDÉS ET SYSTÈMES POUR DES RÉSEAUX SANS FIL AVEC DES RELAIS

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Abstract (en)
[origin: WO2008106797A1] Methods and systems are provided for use with wireless networks having one or more cell in which each cell includes a base station (BS), at least one relay station (RS) and at least one mobile station (MS). The at least one relay station can be used as an intermediate station for providing communication between the BS and MS. Methods are provided for allocating OFDM resources for communicating between the BS, RS and/or MS. In some embodiments on the invention, the methods are consistent and/or can be used in conjunction with existing standards such as 802.16e.

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Citation (search report)
• [A] US 2006153132 A1 20060713 - SAITO KENJI [JP]
• [X1] PETERSON R ET AL: "Proposal for a Frame Structure for IEEE 802.16j", IEEE 802.16 46TH SESSION, DALLAS, TX, USA,, no. C802.16j-06/155, 7 November 2006 (2006-11-07), pages 1 - 23, XP002625511, Retrieved from the Internet <URL:http://grouper.ieee.org/groups/802/16/relay/contrib/C80216j-06_155.pdf> [retrieved on 20110301]
• [X1] CHRISTIAN HOYMANN ET AL: "Multihop Communication in Relay Enhanced IEEE 802.16 Networks", PERSONAL, INDOOR AND MOBILE RADIO COMMUNICATIONS, 2006 IEEE 17TH INTERNATIONAL SYMPOSIUM ON, IEEE, PI, 1 September 2006 (2006-09-01), pages 1 - 4, XP031023538, ISBN: 978-1-4244-0329-5
• [X1] SCHULTZ D C ET AL: "On the Integration of Relaying in the WINNER MAC", INTERNET CITATION, April 2006 (2006-04-01), pages 1 - 6, XP002540527, Retrieved from the Internet <URL:http://www.comnets.rwth-aachen.de/publications/gesamtlisiten/abstracts/2006/scpaklwa-wwwf16.html> [retrieved on 20090805]
• [X1] HANG ZHANG ET AL: "Frame Structure to Support Relay Node Operations", INTERNET CITATION, 8 January 2007 (2007-01-08), pages 1 - 13, XP003027116, Retrieved from the Internet <URL:http://ieee802.org/16>
• [A] DEREK YU, HANG ZHANG, PEIYING ZHU, WEN TONG, DAVID STEER, GAMINI SENARATH, MARK NADEN, G.Q. WANG: "Dedicated Resource Assignment for RS", 17 January 2007 (2007-01-17), <http://ieee802.org/16>, pages 0 - 7, XP055000047, Retrieved from the Internet <URL:http://www.ieee802.org/16/relay/contrib/C80216j-07_101r2.pdf> [retrieved on 20110517]
• See references of WO 2008106797A1

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