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Source(s)	Kanchei (Ken) Loa, Yi-Hsueh Tsai, Chih-Chiang Hsieh, Yung-Ting Lee, Hua-Chiang Yin, Shiann-Tsong Sheu, Frank C.D. Tsai, Youn-Tai Lee, Heng-Iang Hsu Institute for Information Industry 8F., No. 218, Sec. 2, Dunhua S. Rd., Taipei City, Taiwan.	Voice: +886-2-2739-9616 loa@iii.org.tw
	Hang Zhang, Peiying Zhu, Mo-Han Fong, Wen Tong, David Steer, Gamini Senarath, Derek Yu, Mark Naden, G.Q. Wang Nortel 3500 Carling Avenue Ottawa, Ontario K2H 8E9	Voice: +1 613 7631315 WenTong@nortel.com pyzhu@nortel.com
	Gang Shen, Zhang KaiBin Alcatel Shanghai Bell Co., Ltd.	Voice: 86-21-58541240-8194 Gang.A.Shen@alcatel-sbell.com.cn
	[add co-authors here]	
Re:	IEEE 802.16j-07/007r2: “Call for Technical Comments and Contributions regarding IEEE Project 802.16j”	
Abstract	This contribution proposes procedures for MS handover ranging with RS	
Purpose	Text proposal for 802.16j Baseline Document	
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MS Handover Ranging in RS system

Introduction

This contribution describes MS handover ranging in RS system. An RS that supports MS handover ranging shall take a process similar to that defined in C80216j-07/001r4 “MS Network Entry for transparent Relay Station”, C80216j-07/008r2 “MS network entry for non-transparent Relay Station with Centralized Scheduling” and C80216j-07/024r2 “MS network entry for non-transparent Relay Station with Distributed Scheduling”. In order to facilitate the incorporation of this proposal into IEEE 802.16j standard, specific changes to the baseline working document IEEE 802.16j-06/026r2 are listed below.

Text Proposal

6.3.10 Ranging

6.3.10.3 OFDMA based ranging

6.3.10.3.4 Relaying support for OFDMA based ranging

6.3.10.3.4.5 MS CDMA handover ranging and automatic adjustment in RS system

An RS that supports MS handover ranging shall take a process similar to that defined in section 6.3.9.16.1 (MS network entry procedures in transparent RS systems) with the following modifications.

In CDMA handover ranging process, the CDMA handover ranging code is used instead of the initial ranging code. The code is selected from the handover-ranging domain as defined in 8.4.7.3.

Alternatively, if the RS is pre-notified by the serving MR-BS for the upcoming handover MS, MR-BS may provide BW allocation information for MS by transmitting an RS UL-MAP to the RS. Afterward, the RS should construct Fast_Ranging_IE and send to MS for transmitting an RNG-REQ message.