

Abstracts

Common-channel soft handoff in cdma2000 - The paging channel

S. Sarkar and E.G. Tiedemann. "Common-channel soft handoff in cdma2000 - The paging channel." 2000 Transactions on Microwave Theory and Techniques 48.6 (Jun. 2000 [T-MTT] (Mini-Special Issue on the 1999 IEEE Radio and Wireless Conference (RAWCON))): 938-950.

cdma2000 has been proposed as the standard in the US for next-generation (3G) mobile phones. This paper describes the proposed paging channel of the cdma2000. It provides both the physical layer details of operation, and the signaling and network issues required to support these new channels. The new paging channel significantly improves the standby times of the phones for the 3G systems. This paper looks at a way to put this common channel in soft handoff, thereby improving the reliability of call setup, and leading to a better standby time for the cdma2000 phones. It is shown that the method does not affect the call setup time, and causes no significant impact on the power budget of the base stations. Furthermore, it is completely backward compatible.

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