

WIRELESS COMMUNICATION METHOD AND APPARATUS FOR PROVIDING HIGH SPEED DOWNLINK PACKET ACCESS SERVICES

Abstract

A method and wireless multi-cell communication system for providing high speed downlink packet access (HSDPA) services (FIG. 1). The system includes a radio network controller (RNC) (105) in communication with a plurality of base stations (110, 115 and 120). The RNC sends a control signal (140A, 140B, and 140C) to at least one base station having a plurality of timeslots, e.g., in a time division duplex (TDD) system and/or frames including transmission timing intervals (TTIs), e.g., in a frequency division duplex (FDD) system assigned thereto for the establishment of HSDPA channels. The control signal indicates a maximum allowed HSDPA transmit power for each of the timeslots and/or TTIs. The base station (110, 115 and 120) sends a feedback signal (145A, 145B and 145C) to the RNC indicating the results of measurements of the power of the transmitted HSDPA timeslots and/or TTIs during a predetermined time period.

Fig. 1