

Title (en)

METHOD FOR INCREASING DATA TRANSMISSION CAPACITY IN A RADIO NETWORK

Title (de)

VERFAHREN ZUR ERHÖHUNG DER DATENÜBERTRAGUNGSKAPAZITÄT IN EINEM FUNKNETZ

Title (fr)

PROCEDE D'AUGMENTATION DE LA CAPACITE DE TRANSMISSION DE DONNEES DANS UN RESEAU RADIO

Publication

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Application

**EP 98925661 A 19980609**

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Abstract (en)

[origin: WO9857509A2] The present invention relates generally to radio networks particularly to methods for increasing data transmission capacity in a radio network. In the invention, the capacity of a radio network is increased by utilising any pauses or moments when less transmission capacity is needed in a stream of information (voice or data signal) of a circuit-switched call, i.e. moments when a call is in a discontinuous transmission state (DTX), for transmitting packet data from a base station on the same downlink traffic channel (Radio TCH). When a circuit-switched call switches to a DTX state (transmission of information is interrupted), data (GPRS DATA) of a packet-mode call (calls) is transmitted on the traffic channel allocated for the circuit-switched call, until the discontinuous transmission state ends. A traffic channel can be allocated for packet data transmission (calls) separately in connection with each DTX state, and typically to different mobile stations than the one to which the traffic channel is allocated for circuit-switched transmission. The transmission capacity can thus be allocated effectively to network users that need capacity. The mobile stations may belong to different systems, such as a packet data radio network and a circuit-switched radio network.

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