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(54) Title: PRIORITIZATION OF DATA TO BE TRANSMITTED IN A ROUTER

(57) Abstract

General Packet Radio Service GPRS is a new service designed for digital mobile systems. Because of bottlenecks, such as an air interface (Um), queues may be formed in routers (SGSN, GGSN, 13, BTS, BSC). Long transmissions of data may slow the operation of interactive applications so that it is no longer sensible to use the applications. In the routers (SGSN, GGSN, 13, BTS, BSC) of the invention, separate queues are formed for each service, quality of service, connection, subscriber and/or application/application class. The quality of service can be indicated by providing each packet with an identity indicating the quality, or a change in the quality can be signalled as separate messages. In a preferred embodiment of the invention, the amount of data sent from a queue at one go is controlled primarily on the basis of the quality of service of the subscriber. When packets are sent from a queue, it is monitored whether only a small number of packets remains in the queue, and if so, these packets are sent as well.

