

BUFFER STATUS REPORTING IN A MOBILE COMMUNICATION SYSTEM

ABSTRACT

The invention relates to methods for transmitting a buffer status report (BSR) in a mobile communication system, more particularly to the definition of rules for triggering, generating and transmitting buffer status reports. The invention also relates to a data transmission method utilizing new rules to decide data of which radio bearers is transmitted within a given transmission time interval. Moreover, the invention relates to scheduling method for radio resources that is taking into account additional scheduling-relevant information from the buffer status reporting and/or data transmission method. To avoid unnecessary grants from the network and to suggest an advanced handling of data transmissions the invention suggests a buffer status reporting and data transmission schemes that take into account the scheduling mode of data of radio bearers pending for transmission to decide whether to report on it in a buffer status report, respectively, whether to multiplex the data to a transport block for transmission.

Figure 5