

ABSTRACT

Traffic load increases along with subscriber growth of GSM cellular. Especially on certain events or certain moments which high traffic increase happened in the short time (temporary). Finite resources that operator provide (traffic channels) and traffic axcalation in a cell in a certain period made GSM operator to provide more traffic channels in order to prevent call blocking. In this case, a fast, exact solution and efficient to solve that issue has to be made.

TCH Halfrate is one of many solutions which is offered to handle traffic increase temporary. The availablity of TCHs Fullrate cannot accommodate high traffic load.

Activation of TCH Halfrate is able to push high call blocking down because TCH fullrate cannot allocate the traffic load. TCH halfrate may increase capacity up to 100% without expanding new hardware. TCH halfrate concept which can double the exist resources, can increase the capacity and push down the high TCH blocking effectively and efficiently

Key Word: TCH Halfrate, TCH Fullrate, blocking, capacity

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