

## ABSTRACT

The introduction of GPRS services into GSM networks creates new challenges to network planning. This network planning for providing a certain quality of service for GPRS traffic without significantly degrading the performance of existing GSM services.

In a GSM/GPRS integrated network, it becomes necessary to reserve exclusive channels for GPRS in order to provide quality of service for GPRS users. This exclusive reservation channel means to reduce the capacity of GSM traffic so that has significant impact on the performance of GSM traffic.

In this case, the writer evaluates the performance degradation of GSM handover traffic which caused by GPRS channel addition in to GPRS/GSM network, and apply some priority schemes for handover traffic to increase its performance and comparing which priority schemes appropriate.