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SCHOOL OF ENGINEERING

ANALYSIS OF TCP PERFORMANCE OVER GENERAL PACKET RADIO SERVICE (GPRS)

FINAL REPORT

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Abstract

This project is a research and simulation project. In this project, we study the effect of TCP over General Packet Radio Services (GPRS). The software used to simulate the GPRS network is NS2.

GPRS is currently a common phenomenon in most mobile networks, nowadays. As GPRS becomes more widely deployed, it is often – times necessary to perform studies on data transmission on such networks, to check its efficiency and mechanisms. In doing so, it is then discovered where the network can be improved upon.

TCP is the most commonly transport protocol in networks, especially, those which are web – based. This ties in with GPRS in the transport aspect of data packets, over a GPRS network. Hence, its importance and necessity in this project

To observe GPRS, we will study the effects of NetSwap nodes, implemented and not implemented, and observe how it affects the whole GPRS network.