ABSTRACT

Load Management and Call Processing
For A Radio Network Controller Load Generator

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Testing of telecommunication network elements is very important. To ensure a successful network, it is necessary to measure the robustness, performance and reliability of such network elements. There are many test equipment available on the market, however, these equipment lack the ability to sufficiently load a network element, resulting in unknown performance of a network element under heavy traffic conditions.

In this project, the concept of platform re-use is introduced. In such a concept, the network element platform is used to build a load generator that can be used in system testing or network field trials. The following project describes the design and implementation of a load management and call processing subsystem for a Radio Network Controller (RNC) Load Generator. The RNC is a Third Generation mobile network element. The project was carried out by the author in Lucent Technologies, Chicago during his co-operative internship (January 2002 to December 2002).

Keywords: Varun Choyah; Load management and call processing, Third generation mobile networks, Radio network controller.