

Abstract

Simulation Of 3rd Generation Mobiles For Network Element Testing

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The RNC Load Generator (RLG) is a simulator used by Lucent Technologies Inc. to simulate mobile terminals for capacity testing of 3rd generation Radio Network Controllers (RNC). This project is concerned with an extension of the RLG; enabling the generation of packet based user traffic by simulated mobiles.

The report presents a general approach to the problem of packet based traffic generation. The methods developed here are applicable to the testing of arbitrary packet switched network components.

The application is distributed; running on both UNIX and VxWorks operating systems. The project is implemented in C/C++ and Perl.

Keywords: UMTS, (Universal Mobile Telecommunication system); RNC, (Radio Network Controller); RLG, (RNC Load Generator); IP ,(Internet Protocol); Packet Switched Traffic; SMS, (Short Messaging Service); Wireless Internet.