Abstract

Automated Software Testing

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This project focuses on automating the software testing process of software development in industry. Standard software engineering principles were adhered to during the design, development, implementation and testing of the system. The project was implemented during the period May to December 2002 at Lucent Technologies, Lisle, U.S.A where the author was an intern/co-op student.

The project is implemented using the Expect/Tcl programming language. The application resides on a UNIX operating system.

The design is built upon the concept of expandability, facilitation of code reuse and ease of maintenance such that the system can be expanded with relative limited complexity to other spheres of automation.

Keywords: Randall Mathura; UMTS, Universal Mobile Telecommunication system; OMC-U, Operation and Maintenance and Control Center for UTRAN, RNC, Radio Network Controller; LMT, Local Maintenance Terminal, Testing.