DHANANJAY KUMAR

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**PROFESSIONAL EXPERIENCE**

**ARICENT GROUP, GURGAOn**

***Senior Engineer TestingJune 2008 – Present***

**PROFILE**

* Five years of experience in the testing majorly in the
* wireless communication domain 3G-UMTS RRC and in IMS network (SIP protocol).
* Involved in Manual testing as well as in development of automation test suites using Perl,Python

**EXPERIENCE SUMMARY**

3G Layer3 (RRC) Procedures.

* IMS network (SIP protocol) testing
* Experience in development of automation test suites using Perl,Python
* Strong understanding of C and data structure

**TECHNICAL BACKGROUND**  
Domain 3G-UMTS,IMS

Protocol 3G-UMTS , SIP protocol  
LANGUAGES C,C++  
O.S Windows, UNIX  
Scripting Perl, Python,Shell scripting

DBMS Mysql

**EDUCATIONAL QUALIFICATION**

MCA ,NIT Durgapur, May2008

CGPA-7.9

**Projects**

**Project 1:mcRNC /cRNC (NSN RNC) Intergration testing**

**Project Description:-**

mcRNC is the new generation of the RNC solution of Nokia Siemens Networks. mcRNC defines cost efficient Radio Network Controller (RNC) based on a new platform for future business needs. The new product replaces IPA2800 based RNC in the long term. The requirement of next generation RNC is to provide higher capacities on smaller footprint with reduced product costs.   
Functional test cases like data transfer, throughput & data correctness for different call types(CCH/DCH/HSDPA/HSUPA) are tested.

**Tools Used:**

* Platform Linux
* Protocols UMTS Protocols
* Defect tracking tool Pronto
* Monitoring/Debugging tool Emil, Wireshark
* Test Management HP Mercury Quality Centre 9.0

**Responsibilities :-**

* New Feature Study for mcRNC release.
* Test plan preparation Test case identification
* Test Case Description.
* Test Environment Set up and Configuration
* Regression Testing of CCH/DCH/HSDPA/HSUPA calls.
* New Feature Testing.
* Analyzing & raising bugs against the RNC .
* Follow up with Development Team RNC

Weekly status updating in the Quality Centre tool used as a central repository for TCs, TC plans, TC Reports

**Project 2: A5020 Call and Session Controller (CSC)**

**Project Description:**

A5020 Call and Session Controller (CSC) is Alcatel-Lucent’s Soft switch for IP Telephony, Multimedia and Long-Distance Bypass applications.

The A5020 CSC enables IP telephony or Voice-over-IP (VoIP) on a SIP based network The Alcatel-Lucent 5020 CSC and RGC components rely on a best in class middle ware to assure functions such as overload control, optimized database access, independence of hardware.

* Analysis and understanding of Solution Architecture Definition (SAD) & Requirements Definition Document (RDD).
* Involved in writing and reviewing Test Plan (System, Integration and Regression Test Plan) for E2E testing.
* Involved in E2E testing (Configuration, Functionality, Interface, Performance, Robustness, Stability, Regression, Stress, Migration and Load testing).
* Tracking of various defects found during testing.
* Support to R&D team

**Tools Used:**

* Scripting Language Perl,Python
* Platform Linux
* Protocols SIP Protocols
* Defect tracking tool Clear Quest, Clear Case

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| --- | --- |
| Database | Mysql |
| **Project 3: IPTK**  **Project Description:**  The IP Packet Phone Signalling Toolkit consists of HSS micro SIP Stack, HSS micro SIP UA as well as HSS SIP Call and service controllers. The SIP Call and service controllers have functional interface with the HSS micro SIP Stack, HSS micro SIP UA. The IP Packet Phone Signalling Toolkit has single entry point. It waits for messages from IWU i.e. Interworking Unit, from configuration manager, from system manager and from network.  VoIP is used to manage the delivery of voice information using the Internet protocol by sending Voice information in packets instead of circuits by the PSTN. Telephone calls are sent over data networks, such as Internet, instead of traditional telephone network. VoIP can deliver new services that combine voice and data with tradition telephone services, such as long-distance call. The ISAM with integrated Voice-band services (ISAM-V) is a product where voice-band services are integrated in ISAM. It plays the role of Media Gateway (MG) also called Access Media Gateway (AG). The 7302 ISAMV provides POTS services.  **Tools Used:** Scripting Language Perl,Python   * Platform Linux * Protocols SIP Protocols * Defect tracking tool Clear Quest, Clear Case | |

**Personal Information:-**

* Father’s name:- Mr. Surendra Prasad Tiwari
* DOB:- 30-06-1982
* Passport:- H4829933