

Mantosh Kumar.

Field Test Engineer

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Total Exp-9+ Years

CAREER OBJECTIVE:

To work in a challenging position to deliver the high-quality services where I can utilize my work experience with clients, to produce technical standards and to adopt quick technological changes.

PROFESSIONAL DETAILS

- Competent and diligent Telecom professional with Total Experience of 9 years in telecom domain. As NR/LTE/IMS Protocol Testing Engineer (2.4 years)
- Hands on experience on UE side testing, Android testing, GNB Side Testing, Extensively Logs Analyzing,
- Experience in SIP-IMS testing, Sanity testing, Functional Testing's as per given in Test Plans.
- Test failure reporting of collected logs using QXDM, QCAT, ELT & Wireshark.
- Good Knowledge of LTE Network Architecture in End-to-End flow of LTE Networks involving UE, ENB, EPC (MME, SGW, PGW, PCRF, PDN, HSS).
- Good Understanding of LTE Protocol stack (NAS, RRC, PDCP, RLC, MAC, PHY) Layers, X2-AP, S1-AP, GTP-U, SCTP, UDP, Diameter & LTE E2E Testing with its Test cases call flow msg IEs.
- Good on Lab Performance: Handover (X2/S1), Throughput, Carrier Aggregation, VoLTE, VoNR, ViNR, Vo-WiFi and EPSFB Mobility Emergency Call.
- Experience in Android Mobile Handset- Poco X5 Pro, Jio Phone 5G, One Plus 11, One Plus Nord CE 2, One Plus 9 RT, Poco M6, One plus Nord4, Infinix, Oppo Rano 6, Redmi K50i, M-80, M-85
- Testing and Analysis on interface like X2AP Messages & S1AP messages on behalf of ENB Testing.
- Performed VoNR, ViNR, VoLTE and EPSFB End to End Call Testing and log analysis for the failure cases & message i.e missing issue.
- Well in Troubleshooting & Failure detecting at UE Side as well as Network side like Radio Link Failure, HO Failure, RACH Failure, UE Crash, Uplink synchronization and many more.
- Good Understanding of 5G Architecture and Interfaces.
- Good Understanding of IMS Architecture and Interfaces.
- Experience in 5G device testing (SA/NSA).
- Strong understanding of LTE, VoLTE, VoNR, IMS and Carrier Aggregation.
- Hands-on experience with log analysis tools (ELT, Wireshark, QXDM, QCAT, etc.)
- Good Understanding of call flows, network protocols, and Mobility scenarios.
- Experience working with Qualcomm/Mediatek chipset-based devices.

ORGANISATIONAL EXPERIENCE

Project :- Reliance Jio(13 Mar- 2023 to till now) as Testing Engineer

Payroll: Marquis technology Pvt Ltd

Role : Test Engineer

Responsibility

- Testing on live network on both UE and gNB side as well as Lab Environments.
- Perform 5G/4G/3G devices testing,including functional ,performance,and network testing.
- Conduct log analysis using ELT,Wireshark,QXDM,QCAT,ADB, and other debugging tools.
- Work on Ue-Side testing for mobile devices and chipsets.
- Execute protocol and field testing for 5G SA & NSA, VoLTE,VoNR,and Carrier Aggregation.
- Identify and analyze network -related issues and provide root cause analysis.
- Collaborate with R&D teams to resolve device issues before market launch.
- Responsible for Testing of given Test Cases on Test Plan, almost 150 Test Cases is collected or checked in purpose of collecting logs on QXDM.
- Device: Jio Phone, Poco X5 Pro, One Plus 11,One Plus Nord 4, IQOO Neo 7 Pro Qualcomm Chipset
- Device: Redmi K50i,One Plus 9 RT, M-80, M85 Mediatek Chipset
- Collecting logs on QXDM, Wireshark, analysis with help of QXDM, Wireshark, QCAT, ELT
- Testing & analysis of PLMN Selection, Cell selection, Cell reselection, RACH procedure, HO procedure.
- Logs Analysis for the scenario like VoNR, VoLTE, VoWIFI, Emergency , Call forwarding , Call Conference, Call Hold and Unhold, ViNR, NR, LTE Registration & IMS Registration using QXDM & ELT.
- Capturing and analyzing logs using QXDM & ELT.
- Logs Analysis for the scenario like IMS Registration and VoLTE calls using QXDM & ELT.
- Logs Analysis of RRC Connection Setup, RRC Connection Reconfiguration, RRC Connection Reestablishment, RRC Connection Reject, HO Cancel, HO Failure, Path switch request, HO, attach success, Detach Success, CS Service Notification, Extended Service Request, UE Capability information, SIB, MIB, PHICH, PDDCH, PDSCH, PUCCH, PUSCH, Security mode command, RRC Connection Release, DRX Cycle.
- Testing & analysis of PLMN Selection, Cell selection, Cell reselection, RACH procedure, HO procedure, UE attach process, Wireshark & QCAT.
- Log Analysis for SIB, MIB, PDSCH, PDCCH, PCFICH, PHICH, RACH Procedure.

TECHNICAL DETAILS

Tools:- QXDM, QCAT, PCAT, QPST, QFIL, QPM, ELT, Wireshark, File zilla

Operating System- Windows, Android

Company	Client	Designation	Work Period
Aerial Telecom Solutions Pvt Ltd	ZTE/NOKIA	Radio Network Optimizer	Nov-21 to Feb-23
Nemhans Solutions Pvt Ltd	ZTE/NOKIA	Radio Network Optimizer	Dec-17 to Nov-19
Aerial Telecom Solutions Pvt Ltd	BSNL	DT Engineer	Jul-17 to Nov-17
Nemhans Solutions Pvt Ltd	BSNL	DT Engineer	Feb-17 to Jun-17
Teleysia Networks Pvt Ltd	Vodafone	RF Engineer	Aug-15 to Jan-17
Nutek India Ltd.	Airtel	DT Engineer	Jul-14 to Aug-15

Responsibility

- Drive test analysis and post processing using Tems, Nemo to confirm overshooting, swap DL/UL Throughput issues
- Physical recommendation for field optimization to enhance coverage, control overshooting, trying to avoid cell overlap to get better user experience
- Analysis of Various Parameters like RSSI, RSRP, RSRQ, SINR, PCI, BLER, SNR
- Analysis of neighbor relations and implementation of corrections Performs RF performance activities in customer projects independently, according to project plan and in project manager's guidance, Provides support to customers in field of expertise
- Analysis zero traffic cells & high utilized cells based on Cells Utilization and Blocking Coordinate with field team and resolve
- Support for Drive Test, Lock/Unlock Sites/Cells for Drive test for scft.
- Support Field Team for Handling customer complaints, checking for coverage, quality issues and proposing dedicated solutions such as ISC/ODSC or through redesign of tilts, heights, azimuth etc.
- Change and maintain basic configuration parameters like RET, EARFCN, MME Pool, Clock Control, Attenuation etc.
- Parameter Audit like, MME Pooling, TAC, Timer Info, EARFCN, VSWR/RSSI etc.
- Support field team for RRH Swap/4th sector and eNodeB Integration
- Check GTP loss & Perform Iperf Test for Bandwidth check/Throughput issue,
- Coordinate with Performance Team/Provisioning Team/TAC Team for critical issues like performance degradation, Parameter discrepancy & new up gradation
- Expertise in Drive Test using TEMS Investigation 10.0.5, 13.1, 16.2.3, 16.2.6, 17.2.4 & Nemo which involved conducting various measurements, aimed at gathering specific data representing a complete network.
- Analyzed the Drive Test log files using Tems Investigation. The activities included footprinting of all the sites in order to control the site overshoot, cell dragging, interference elimination, monitoring of Rx quality, two way neighbor relations, locating handover failure, call drops, call blocks, coverage holes, improving and expanding coverage areas.
- Identifying poor coverage and quality patches through drive test and making action plan to resolve the same.
- Analysis of Drive Log files and providing solutions.
- Monitoring network parameters like Rx Level, Rx quality SQI, BER, FER, and Neighbor site Handover analysis.
- Monitoring network parameters of 3G like RSCP, Ec/No, RSSI, TX power, Target SIR, SIR, SQI MOS, RRC States.
- Also resolve the issues related to pilot pollution.
- Expertise in Drive Testing with different technologies in 3G like IRAT, MULTIRADIO, H-RNTI, R99, HSUPA Analysis, HSDPA Analysis.

- Solving Cable SWAP, overshooting of sector by down tilting and less calls by Re-orient site azimuth.
- The 2G and 3G drive types are SCFT, CLUSTER and BASIC TESTING.
- Prepare Reports on MAX MAP and MAPINFO
- Comparison plots of pre and post.
- Line up teams and supporting on team viewer.

Tools Used

- Mycom, Citrix, Mapinfo
- Tems-Investigation, Tems-Discovery, Nemo Analyzer, Google Earth, NET-Monitor,

Educational Qualification:

CLASS / COURSE	Board/ University	CGPA/Percentage	Passing Year
B.E.(ECE)	RGPV, Bhopal	68%	2014
HSC	BSEB, Patna	60%	2010
SSC	BSEB, Patna	67.4%	2008

Curriculum Project

TITLE: BSNL telecommunication

Qualities

- A good team worker and leader too with efficient leadership qualities.
- A good socializing candidate with interest in analyzing people's character and a good critic.
- Good communication skills with a quality of logically convincing people.
- Full Stability in following determined plan.

Personal Profile:

- Nationality : Indian.
- Date of Birth : 17 May-1993
- Languages Known : English, Hindi
- Marital status : Married
- Gender : Male

Declaration:

- I here by declare that all the above details are true to the best of my knowledge

- **Place-Mumbai**
- **Date-11-07-2025**

Signature
Mantosh Kumar