

Basharat Hussain (HCCDA-Cloud)

Cloud Associate, RNPO Regulatory Compliance, Site Design & Performance Expert
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SUMMARY

Telecom Professional with of experience in **Regulatory Compliance, Site Design, Radio Network Planning Optimization, Network Performance, and ICT Manage Services.**

Hands on experience for Voice, Data and Internet Services over **5G NR, 4G (FDD/TDD), VoLTE, WiMAX 3G, 2G** with **Roll out, Delivery and Manage services** for **Fixed/Mobile Networks.**

Skills and Qualifications equipped within **Telecommunication and Management** fields to handle **Roll out, Delivery and Manage services** projects to implement corporate strategy, ensuring consistency within the group and across the organization

CAREER PROFILE

- **Multi-Vendor** experience on **Ericsson, NSN, Huawei, ZTE, Alcatel Lucent, and Motorola.**
- **Multi-Domain** experience in **Cloud Services, RF NPO, Performance, Regulatory Compliance, ICT Cloud, Core and RAN.**
- International Experience in countries **Bahrain, UAE, Yemen and Iraq**
- **RF Planning Optimization, Performance** for **NR, VoLTE, LTE FDD+TDD Multilayers/ WiMAX /UMTS/GSM** Including Lead Skills for **Managed services** Projects
- **Level 3 LTE RNPO exam Passed** Huawei Exam ID: **TUW68UI1MEHP6IKMCS**
- **RF Optimization** on daily, weekly, and monthly KPI/KQIs highlight degradation factors to maintain contractual KPIs.
- **Change Request Management** approvals for all domains on **OWS** for **CRs** and **RFCs** approvals and engage stc teams.
- **Masters in Telecommunication Systems and MBA (Telecom Merger and Acquisition Management)**

WORK EXPERIENCE

Project: HCCDA-Cloud Tech Essential (May 2025 – Aug 2025)

Huawei Cloud Systems – NVTEC-Corvit Systems Multan



HCCDA-Cloud Tech Essential:

- **Huawei Cloud Eco System** guidelines to troubleshoot issues effectively and maintain overall system stability
- Linux Virtual Machines to configure and manage network services, storage solutions (VPCs ECS, EVS & OBS)
- **Configure NW and Storage Services** using **EVS** of different OS for initialization, formatting, and creating snapshots for backup and cloning.
OBS for storage Operations by creating buckets and managing file uploads and downloads for unstructured data.
SFS to share across multiple OS servers, demonstrating seamless cross-platform file access
- **Deploy Enterprise Web** on Secure VPC to integrate required cloud resources (ECS, ELB, RDS, CES, auto scaling)
- **Compute Services** for different OS to use IMS services for customize templates, life cycles and Identical ECS
- **Deep Seek** Deployed a high-bandwidth ECS and installed the Ollama framework.
Downloaded and staged the large DeepSeek 1.5B model from a preconfigured OBS bucket
Launched the LLM, enabling direct, interactive conversations with the AI from the server's command line.

Project: Korek Telecom Iraq Radio Networks (Oct 2024 – Nov 2024)

RNPO & Performance Engineer – Korek Telecom Iraq Manage Services

Employer: **MSELECT International (Iraq Erbil)**

Worked with **mselect** International on Korek Iraq (Kurdistan Region) Project.

Networks Optimization and Performance Team:

- Korek CMC Regulatory, special Complains, all regions for 2G,3G and 4G Voice, Data, Throughput and coverage issue
- 4G Capacity analysis for PRB and CCE Utilization, Overlapping analysis for different layers, Call muting issues.
- NBR audit, ANR, VOLTE, DL/UL 256 QAM, MLB, 4G Superior UL Coverage, LTE Intelligent UL Retransmission Trail
- Cluster benchmark optimization for all regions, coordination with all subcontractors for optimization actions.

Project: Zain Iraq Radio Networks (July 2024 – Nov 2024)

RNPO & Performance Engineer – Zain Iraq Manage Services

mselect

mselect

Employer: **MSELECT International (Iraq Baghdad)**

Worked with **mselect** International on Zain Iraq MS Project.

Ericsson Networks Optimization and Performance Professional:

- Daily Dashboard for LTE, UMTS and GSM for related regions (Center, East-West, South Arabic North, Mid Euphrates)
- FTK sites, RRU Swap, Modernization, Sector Addition, 4T4R, neighbor, TA, Frequency audits, Sites PAC/FAC queries/verification/acceptance related to Swap/Neighbor sites for 2G, 3G and 4G for all Ericsson Subcontractors
- Event Monitoring(1446Hijri) New Year, Moharram, Arabian 4G Ericsson (Najaf, Karbala, Kufa, Baghdad and Samarra)
- Formula Definition and Mapping queries for Multi-Vendor SmartCare/Discovery, CRs for Ericsson 4G requirements
- Co-ordination with all subcontractors (IPT, SimTelco, Metco, ATC-TNS for issues, resolution and final approvals
- CMC regulatory authority and Zain VIP complain queries
- KPIs queries for Zain Consultant MSI UK, also raise Ticket and follow-up with Ericsson support team.

Project: stc Radio Network Bahrain (June 2023 – Till June 2024)

RNPO & Performance Engineer – stc Radio Networks) Bahrain



Employer: **Wajda International Bahrain**

Working with Wajda international on stc Bahrain project.

Huawei Radio Networks Planning/Optimization and Performance Expert:

- RF Planning, Optimization, **Dashboard/Contractual** KPIs Management, Automation, Network Strategy Parameters Implementation and Refarming for **GULNR**.
- WCL (Daily, Weekly monthly) NR, LTE(TDD-FDD) MIMO, VoLTE, SRVCC, CSFB for **Macro, Micro, Pico & IBS**
- **CTO, CTDO, CDR, Network Operations, NR performance, Network Cluster Utilization, Network Experience Evaluation, Network information Collection** (Gulf North), **Strategy, Performance/Throughput, QoS regulatory, application related issues, NPO Network Governance** Weekly, Monthly, Quarterly report for all technologies.
- **Special Events** Parameters Implementation/ **GULNR** KPIs Automation /License Planning/ Live monitoring for Events
- Network Parameters audit, TAC/LAC Re-Planning, discrepancy removal, VIP complaints analysis/optimization.

Project: MSI stc Bahrain (April 2022 – April2023)

Consultant MSI (RNPO – Regulatory Compliance Site Design) Bahrain



Employer: **MSI (Mobile System International Consultancy Limited)**

Worked with MSI (Mobile system international) on stc Bahrain project.

Radio Networks:

- TDD-5G and TDD-LTE Massive MIMO sites (**5G Band N78, N1, N41, N75, LTE Band 42** 3.5GHz, **LTE Band 41**, 2.6GHz)
- FDD-LTE Sites (**LTE Band 1** 2.1GHz, **Band 3** 1.8GHz, **Band 20** L800 MHz, **Band8** L900)
- LTE-3G **Macro, Micro & Pico, IBS** Sites (**LTE 1.8/2.1** GHz, **UMTS** U900MHz/U2.1GHz), **GSM** G900, G1800
- Trace Analysis for 5G-4G throughput with and without Split, 4T4R, 256QAM & 3CC/4CC Carrier Aggregation in LTE.
- Network Neighbor audit, KPI's Monitoring, Top Cell, Worst cell analysis/interference to improve degraded KPI's
- Cluster Optimization for Coverage, Throughput, and Quality Improvement using Discovery plots.
- **New, Expansion, Relocation, Modernization, ROT** Sites acceptance after physical and parameter optimization
- Device Performance analysis before commercial launch related to **Firmware, 5G Split/Without Split performance, CA combinations, Latency, 2.4/5Mhz Wi-Fi functionality.**
- Device Trace analysis for failures related mobility, accessibility, retainability, Modulation schemes verification, Intra-**NR/ Inter-RAT mobility, Addition/ Release/ Modification/Change of SN**
- **IDU/ODU CPEs, MiFi's, Tablets and Mobiles** 2G/3G/4G/NR technical functionality/trace analysis before stc commercial launch for following vendors like **Samsung, Apple, Nokia, Huawei and Xiaomi**

Regulatory Compliance and Site Design:

- Sites Application Submission to **TRA, BDF, CD-MOI, SCE, CAA, GDCCD, and EWA** (TRA Online RIMS Portal)
- Weekly meetings with **TRA** (Telecom regulatory Authority) **Engineers/Consultants** for Design, Structures issues.
- Co-Ordinate/Manage all Telecom subcontractors to rectify issues for **Guyed Mast, Palm Tree, GRD, Wall Mount, COW, Self-Support, Rectification, Pico, Macro and Camouflage** towers.
- **PRS Tracker Updates** for **Remedial/Rectification Application to Share, Add/Remove/Extend and Replace** sites.
- Verification of **Radio or MW Antennas** Counts, Types, Heights, **Bands, Frequencies, EIR Power, Polarization, Horizontal or Vertical Beam Width, Antenna Gains, Agreements, Design** and **TSSRs** based on OLO response.

Project: STC Bahrain (3.5 years: June 2018 – Till Mar 2022)

Radio, Core and RAN ICT MS Engineer

Employer: (Hayat Communications & Wajda Group International Bahrain)



- **Change Request Management** for all domains on **OVS** for CRs and RFCs approvals and engage stc teams.
- Interface with **Operator, Vendor Management, Product/Support teams** for final solution.
- Radio, Core weekly, monthly Backups/Reports for Calls, Data and SMS.
- **CBS Services/products** Issues (Balance, Transfers/Validity/Recharge Fraud Cases
- **VAS Cloud, NGIN Cloud and SDP Cloud (Service Delivery Platform)**, SMSC, USSD, VM, **SP Account Management**
- **Bulk SMS, IR (International Roaming** definition on SMSC for (**Direct, AMEX and BICS**
- **Smart Care, Teklec Oracle and CN Nastar GENEX** signaling traces for **subscribers Throughput** analysis.
- 5G BB devices on **Tr069** Related **XML** modifications for VoBB, FBB devices, **Codec, Calls/CLI/Route** setup issues and VOBB Services on Tr069 and IMS, **Multi-Vendor ODU/IDU (More than 50 types)** Firmware on Tr069.
- **IDU/ODU CPEs, MiFi's, Wi-Fi's, SIP services, KZs, PABX related issues, VPNs and CLI issues** for **2.5G and 5G**

Project: STC Bahrain/Menatelecom Bahrain (6.5 years: Dec 2011 –June 2018)

Sr. RF Planning & Performance Engineer

Employer: (Mobitel & FCCI Bahrain)



Radio Network Planning & Optimization:

- LTE RF Planning and Optimization of **PCC & SCC** for **Carrier aggregation, PRACH/RSI, PCI, Mod3, and EARFCN**.
- 5G NR issues related to addition SR, modification SR, abnormal releases, HO, and Throughput.
- Activation/manage **features** and **parameters** of eRAN Versions. Define KPI's **formulas** and **counters activation**
- Spectrum Refarming and activate **SON** Features **MLB, MRO, Beam forming, ICIC, VoLTE, Dynamic DRX and ANR**.
- **Signaling trace management** at Cell level and traces on SMSC, E2E, UU, S1, Cell DT Signaling traces
- **Top N Utilization Sectors** and **IMSIs** by **applications/protocols** from **PRS** and take actions accordingly.
- Generating **Coverage/ Capacity** prediction Plots (**RSRP, SINR, CA /HO Zones, DL/UL MAC Peak Throughput**)
- **Worst cell analysis** by monitor RRC & ERAB, access/setup failures and HO for Intra/Inter Frequency, Interference.
- **Interference** and cross border **overspill control** optimization for (**Bahrain, KSA, Qatar, and Iran**), on the basis of **Scanner Logs** and "**Anritsu Spectrum Analyzer**" and prepare reports for **TRA** (Telecom Regulatory Authority)

Network Performance Monitoring:

- Raise **TT/CR/SR/RFC** with **R&D**, identify risk involved, Coordination with teams, implement schedule plans and filter Corporate, Business, Individuals and take end to end responsibilities for final solution.
- **KPI Analysis, Manage dashboards, Report management**, data analysis by **Applications, Protocols usage**.
- Ensure contractual **KPIs/KQIs** for **EPC, PS, CS, TXN, Datacom, and RF** based on **daily, weekly and monthly** stats.
- **Investigating and escalating** NW issues to concerned department in weekly, monthly, quarterly Reports.
- KPI's related to **Accessibility, Retain ability & Mobility** of **Pre & Post-activity** and impact for any degradation.
- **Identification** and **suggestions** for internal and external issues in the Networks.
- **Performance Reports** CBS performance report, MMS, SMS, VM report, Change Request/RFC activities
- Report, Network Trouble tickets, Customer complaint/Change Request Report, ISMS and 124 calling stats report.

Project: MTN – ALU to NSN Swap Project Yemen (1+ year: Sep 2010 – Nov 2011)

Planning and Optimization Engineer Team Lead

Employer: NSN (Optimus UAE-Star Zone Yemen)



- **Nominal Cell Plans** and conducting initial site surveys for NSN.
- Retuning of **BCCH, BSIC, MA LIST, MAIO** and **HSN** based on stats, performance.
- **Pre and Post processing** of Clusters, analysis of areas for **Dropped calls, Blocked calls and Handover failures**.
- **Analyze** test results, troubleshooting hardware issues, fine tuning appropriate physical and parameter changes.
- Handling and rectifying the Issue based on KPIs (**DCR, CSSR, HOSR, SDCCH/TCH Drop and Blocking**).
- **Traffic dimensioning** for 2G networks, recommended Additions/Removals and pointing out one-way definition.
- Rectify discrepancies based on Audit report of Planning and Optimization.

Project: DU UAE & Zain Projects Bahrain (9 months: Jan 2010 – Sep 2010)

Planning and Optimization Engineer Team Lead

Employer: FNCC Bahrain-FCCI UAE



- Resolving **RRC/RAB, HSPA** setup failures and identifying the main failure contributor (**Radio, lu, NodeB, lur, RNC**).
- Monitoring KPI's mainly **CSSR, CDR, HOSR, HSPA Accessibility, Retain ability, CQI, Modulation Usage** etc.
- Monitoring Handover KPI's: **HOSR, SHO/IFHO/IRAT Attempts, Success rates and Failures**.
- **Resolving Handover related issues**, by Adding/Removal of neighbors, pointing out one-way defined neighbors and tuning the threshold parameters as per requirement. Cluster Optimization, SSV/KPIs, Throughput Reports.

- Site and Cluster basis optimization using **PCTEL, Actix, Nemo Analyze**, and **Qualcomm** (HSDPA, HSUPA).
- Recommended Additions/Removals and pointing out one-way defined Neighbors.
- Resolved Poor Coverage RSCP/Pilot pollution issues in clusters/major highways for appropriate changes.

Project: Zong, Warid, Ufone Projects Pakistan (1.5 years: Mar 2008 – Sep 2009)

Planning & Optimization Engineer Team Lead

Employer: Huaxin Consulting



- **CW (Continue Wave) Test, Model tuning** of the complete city and conduct **Planning/Design Surveys**.
- **Site Design, Sites Auditing**, and **Drive Testing logs Analysis** of newly integrated sites and Frequency Scanning Analysis.
- Performed **Bench Marking** for Zong in central region and south region.
- 1200 CQT Hotspots audit & comparison between different operators (**Zong, Ufone, Warid, Moblink, Telenor**).
- **BSC Cutover** and Handle RF Site Audit for Zong in Sahiwal region.
- **Site acquisition** and **TSSR** (Technical Site Surveys) reports for Macro, IBS, Pico Sites.

TRAININGS AND COURSES

Huawei Technologies LTE (FDD & TDD) Middle East Head Office Bahrain

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|---|-----------------|
| • HCCDA-Cloud Eco system, Deploy Linux, Configure NW and Storage Services, Deploy Enterprise Web, Compute Services | May, 2025 |
| • Advance SmartCare and Discovery training stc Bahrain | Dec, 2023 |
| • Stc 5G RNPO Advance training for consultants (stc HQ Bahrain) and Ookla | Jan, 2023 |
| • SS7 Training for SINCH Firewall (M3UA, SCCP, Signaling Filters and SCTP) | June, 2020 |
| • VAS Cloud, NGIN Cloud, SDP Cloud, and CBS | September, 2017 |
| • Antenna Modernization for 4.5/5G Network evolution. Active (AAU), Passive (Multi-band-beam, TDD Antenna, Digital Antenna System (RET & IM, Antenna Line Products (TMA, Combiner, Filters) | August, 2017 |
| • OMStar_V500R012C00 LTE Training, VOLTE Optimization Training | March, 2016 |
| • LTE FMA/ENodeB/M2000/U2000/SDM/iManager/PRS/SPU/CPE Manager Training | April, 2014 |
| • LTE Training for TDD& FDD (Idle Mode, HO, Power Control, DL/UL Throughput, CS Fallback). | May, 2013 |
| • LTE Air Interface/Parameter Planning for PCI & PRACH, U-Net/Probe/Assistant/Signaling Analysis | February, 2013 |
| • Green Packet, Gemteck, Huawei, NSN Falcon, CelaLink & B2 IDU/ODU devices Mena, Bahrain | January, 2013 |
| • NSN LTE Training sessions, Sana Yemen | October, 2010 |
| • RF Planning Optimization, Continuous Wave test & Model Tuning Huaxin consulting, Pakistan | February, 2008 |
| • Internee Huawei Technologies RF, BSS and Microwave (RTN 600 and RTN 620) | September 2007 |
| • Corvet Lahore CCNA, CCNP, Wireless and ONT (Optimized Converged Networks) | June, 2007 |

EDUCATION

Master's in Telecommunication Systems

Master's in Business Administration

Bahauddin Zakriya University Multan, Pakistan (2007)

The Virtual University of Pakistan (2018)

(Telecom Merger and Acquisition Management)

SKILLS AND INTERESTS

ICT MS Operations Tools, RF Network Optimization and Planning Tools

- **ENM, BO/BI, AMOS, Cell Sense, Secure CRT, CN Naster, Smartcare**, and **Teklec, U-Net, OMStar, SmartRNO, HiDS** LTE Advance, Atoll, Asset, Actix, CME, FMA, OMStar and NSN Netact Planner, NetNumen, and Smart care. OmStar 9.1.0, Genex Cloud, QGIS 3.28.5
- **U2000, PRS, LTE CPE Manager**, NSN Reporting Suite, Anritsu Spectrum Analyzer **MS2724C**, GIS, MapInfo, MCOM, Global Mapper, Python, VsCode, ATOM, and Git hub
- Ericsson NMS & TEMS Investigation Data Collection Route Analysis, GENEX Probe & GENEX Assistant for analysis.
- NEMO Outdoor, NEMO Analyzer, "XCAL-M, XCAP-M", "XCAL-X, XCAP-X" (DRT 4301 Scanner) & COUIE
- PCTEL (Seagull **EX mini-Scanner & Seagull EX flex Scanner**), Qualcomm for HSDPA+, Google Earth
- **OWS, iCare, MOS7100, SDM, Crestel, PRTG, PCRF, UGW, U2000, U2520 (NEU10P)**