

NASEEM RAHMAN

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Professional Summary

Telecom professional with extensive experience in wireless network technologies, including GSM, UMTS, LTE (4G), VoLTE, and 5G Core. Expert in lab certification of vendor software releases, network integration, and cross-functional project leadership. Proven track record in product verification, test automation, and performance validation of carrier-grade network platforms. Deep expertise in system integration, bug resolution, and tier-4 technical support for large-scale telecom environments, ability to troubleshoot complex core network issues, manage vendor relations, and lead innovations across EPC, IMS, and cloud-based virtualized environments.

Core Competencies

- **Technologies:** GSM/GPRS/EDGE/UMTS/LTE/5G/IMS/SMS
 - **Protocols:** Diameter, HTTP2, SCTP, GTPV2, MAP, ISUP, SIP, TCAP, CAP2/3
 - **Network Elements:** HSS, HLR, AAA, UDM, AUSF, UDR, MSC, MGW, KMS
 - **Virtualization & Tools:** RedHat OpenStack, vHSS, Tenable, QXDM, Wireshark, ALM QC, Jira
 - **Specialties:** Network Design & Troubleshooting, Lab Certification, VNF Deployments
 - **Soft Skills:** Project Leadership, Vendor Collaboration, Documentation, Cross-Functional Communication
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Professional Experience

AT&T Mobility – Redmond, WA

Principal Member of Technical Staff | Oct 2006 – Mar 2025

- Led multiple CTO projects from concept to deployment, including lab certification and core network compliance.
- Supervised lab SDM (Subscriber Data Management) teams in the testing and validation of HSS/HLR/AAA software release and integration test with UDM/UDR/AMF/SMF/NRF entities.
- Authored test plans, design documents, and implementation guides for core network elements.
- Performed vulnerability scanning (Tenable) and resolved compliance issues.
- Provided Tier 4 technical support, log analysis, debugging and collaborated with teams like PCRF, E911, AMF/MME, Roaming, CALEA, and MCPTT.
- **Key Projects & task:**
- Virtualization of HSS (vHSS) in OpenStack and migration of subscribers from HPE One NDS HSS to vHSS
- IHSS to combine HLR and HSS subscriber databases in common DB for HLR and HSS front ends.

- HPE AAA: AAA integration with EPDG for VoWiFi testing and successfully deployed VoWiFi services
 - VoWiFi enhanced security using IMSI encryption in AAA/KMS – Brought Wi-Fi calling capability to LTE via non-3GPP access using KMS (Key Management Server) to generate pseudonym to encrypt IMSI over public Wi-Fi/internet.
 - Device Entitlement: Ericsson EPDG to HPE AAA integration for entitlement. Troubleshoot issues related to entitlement flows between IT/Provisioning, UE, ePDG and AAA
 - HLR decommissioning, 3G shutdown and SS7/STP network decommissioning
 - VoLTE service launch: VoLTE subscriber data, New APN profiles creation and testing with IT provisioning teams, Supported DSR and EPC teams on VoLTE service testing and commercial launch.
 - LTE and VoLTE Roaming with domestic and international roaming partners. HSS configurations for roaming profile management.
 - Project Polaris – Space-based cellular broadband using standard smartphones. Enabled HSS profile for premium satellite services on some devices to test Satellite radio access via MME.
 - Duplicate eSIM Activation – Enabled eSIM reuse for factory-reset devices.
 - HPE NIR/HLR/HSS for Hot SIMs to pre-provision batch of SIMs for care activation online. Enabled bootstrapped SIM activation.
 - Support IT/Provisioning for IMSI batch provisioning and validate on HLR/HSS Hot IMSI provisioning and troubleshoot issues.
 - Extended Notification for IOT subscribers – Enabled IoT subscriber log forwarding to remote servers.
 - 5G SDM NFs (AUSF, UDM, UDR): deployment and integration/testing with 5G Core for broadband data, voice EPS fallback and IRAT HO using UDM – HSS interworking
 - 5G SA provisioning with IT: 5G DNN profile, 5G SA testing and commercial launch.
 - 5G SA roaming trials in lab.
- Daily Technical Support on Subscriber Data Management Platforms:
- Support cross functional teams on HLR, HSS, AAA, 5G SDM CNFs to troubleshoot and isolate issues. Closely work with colleagues from IT/Provisioning, MME/AMF, PCRF/PCF, E911, Roaming, CALEA, Wi-Fi and MCPTT.
 - NetScout tracing to troubleshoot issues. Isolate issues and triage with EPC and IMS teams to resolve complex issues.
 - HSS KPIs and logs monitoring on each Diameter interface.
 - Automate daily health check of HLR, HSS, AAA platforms
 - Vendor RFP & Evaluation – Assessed and selected VNF solution providers.
 - HPE software upgrades and features deployment
 - Review HPE MOPs and schedule change requests to deploy network changes

Nortel Networks – Richardson, TX

1999 – 2006

Member of Nortel R&D Scientific Staff for GSM and UMTS development teams

Key Projects:

- GSM-R Integration for High-Speed Rail (Cologne–Frankfurt)
- CAMEL Phase 3 Enhancements (CAP3) on MSC for prepaid services and SCP interworking for real-time call control
- Wireless Priority Services (WPS) Deployment
- ATCA MSC GSM features, interfaces and compliance with Nortel HLR.

- ATCA MSCs Integration for UMTS feature testing for voice call routing, supplementary services and SMS
 - MSC 3GPP compliance and commercial readiness for customer trials.
 - 3G roaming features configuration and deployment verification
 - VoIP Dry Run for CTC/MII (China Trial)
 - Conducted third-party interoperability testing with carriers and equipment vendors.
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MCI WorldCom – Richardson, TX

Test Engineer III | 1998 – 1999

- Designed and executed test plans for Storage and Verification Element (SAVE).
 - Installed and upgraded SAVE software in live production networks.
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Education

Bachelor of Science in Mathematics

University of Texas at Arlington, Arlington, TX | 1998