EXTERNAL ADVERTISEMENT

Applications are invited for the Post of **Engineer Core Network Planning**

Posting Date	26th /Nov /2025
Department	Network
MTN Job level	2
No. of vacancies	1
Location	Juba, South Sudan
Contract type /Duration	permanent
Closing Date	17th /Dec/2025

COMPANY OVERVIEW

We at MTN are a purpose and value-led organization. At MTN, we believe that understanding our people's needs and aspirations is key in creating experiences that delight you as you work every day. We are committed to fostering an environment where every member of our Y'ello Family is heard, understood, and empowered to live an inspired life.

Our values keep us grounded and moving in the right direction. Most importantly, they keep us honest. It is not something we claim to be. It is in our DNA. As an organization, we consider it our mission to create an exciting and rewarding place to work, where our people can be themselves, thrive in positivity and ignite their potential.

A workplace that boosts creativity and innovation, improves productivity, and ultimately drives meaningful results. A workplace that is built on relationships and achieving a purpose that is bigger than us. This is what we want you to experience with us.

MISSION/CORE PURPOSE OF THE JOB

The Core Network Planning Engineer is responsible for strategic planning, detailed design, and optimization of the company's core network infrastructure (a mixture of legacy ATCA platforms and VNF/CNF platforms), covering 2G, 3G, 4G/LTE, and future 5G core network technologies

CONTEXT

- Rapid Technology evolution
- Rapid growth and expansion of MTN South Sudan operations.
- System capacity Planning
- Changes in policies and procedures.
- Exceptionally high customer expectations.
- Locally and regionally available skills and manpower.

RESPONSIBILITIES (Not limited to:)

Circuit Switched (CS) 2G/3G Core Network Planning and Design:
- Plan and design MSC, GMSC, MGW, HLR/EIR, and STP architectures, ensuring optimal capacity and performance.
- Conduct traffic analysis and forecasting to determine capacity requirements.
- Optimize network configurations for call routing, signaling, and handover procedures.
- Plan and implement upgrades and expansions of CS network elements.

UCC (Unified Communications and Collaboration) for EBU VoIP and Call Center Solutions.
- Design and configure SBCs and network servers (Media Servers, Application Servers) for VoIP services.
- Ensure seamless interoperability with other network domains.
- Optimize voice quality and latency.
- EBU Client onboarding on UCC platforms; SIP Trunking, Hosted PBX, Cloud IVR and Conferencing, WebEx Contact Center, BroadWorks Call Center.

Packet Switched (PS) 2G/3G Core Network Planning and Design:
- Plan and design SGSN, GGSN, HLR, Gn/Gp DNS, GRX, GTP routers/firewalls, and Gi-Firewalls.
- Optimize packet data routing and traffic management.
- Ensure secure roaming and data exchange with other networks via GRX/IPX.

4G/LTE Evolved Packet Core (EPC) Planning and Design:
- Plan and design MME, SGW, PGW, SGi-Firewalls, S5/S8/S11 DNS, HSS, and DRA.
- Optimize EPC architecture for high-speed data services and low latency.
- Ensure seamless mobility management and session continuity.

Policy and Charging Rules Function (PCRF) Planning and Design:
- Design and implement PCRF solutions for all data services across 2G, 3G, and 4G/LTE.
- Define and manage policy rules for QoS, charging, and traffic management.
- Ensure accurate and efficient charging and billing.
- Work Closely with IT OCS Teams and Marketing/Commercial Teams do develop, deploy, test and launch new data plans and offers.

Capacity Planning and Performance Management:
- Conduct regular capacity planning and forecasting for all core network domains.
- Monitor network performance metrics and identify bottlenecks.
- Generate performance reports and dashboards to be shared with management and stakeholders.
- Optimize network configurations to improve performance and efficiency.

Network Resilience and Disaster Recovery:
- Design and implement network redundancy and failover mechanisms.
- Develop and maintain disaster recovery plans and backup routines.
- Conduct regular disaster recovery drills and tests.
- Ensure business continuity in the event of network failures.

Security Planning:
- Integrate security considerations into all network designs.
- Plan and implement security measures, including firewalls, intrusion detection systems, and access controls.
- Collaborate with the IT Security teams to address security vulnerabilities within the core network.

Vendor and 3rd Party Governance:
- Manage vendor relationships during project implementation and support.
- Ensure compliance with vendor SLAs and contracts.
- Evaluate and select vendors for network equipment and services.

OPEX and CAPEX Planning:
- Develop and manage OPEX and CAPEX budgets for core network projects.
- Identify and implement cost-saving initiatives.
- Evaluate the financial impact of network upgrades and expansions.

Network Change Management:
- Plan and execute network changes in a controlled and efficient manner.
- Ensure minimal disruption to network services.
- Maintain accurate change records.

Incident Management:
- Collaborate with network operations teams, managed services teams (Engineering), 3rd party network service providers (e.g Bayobab) to resolve network incidents.
- Engage Vendor support (e.g ZTE) for incidents that require high level technical support.
- Conduct root cause analysis and implement corrective actions.
- Develop strategies to prevent recurring incidents.

Solution Design and Implementation:
- Develop High-Level Designs (HLDs) and Low-Level Designs (LLDs) for core network solutions.
- Oversee the implementation and testing of network solutions.

Project Management:
- Manage core network projects from initiation to completion.
- Develop project plans, timelines, and budgets
- Monitor project progress and report on status.

Network Function Virtualization (NFV) and Software Defined Networking (SDN):
- Plan and implement NFV and SDN solutions.
- Manage the transition from legacy ATCA platforms to VNF/CNF platforms.
- Optimize network automation and orchestration.

3GPP Standards:
- Stay up to date with the latest 3GPP standards and industry trends.

IT Security Responsibilities/ Tasks:

- Comply with all Information Security Policies and related documents.
- Report security weakness/incidents to either the respective head of department or the Enterprise Information Security Manager
- Must not exploit known security weaknesses.
- Participate in all forms of Information Security Awareness

QUALIFICATION

- BSc Degree in Telecommunications/Electrical/Computer Engineering or Computer Science/IT
- Expertise on Protocols such as SIP, H.248, SS7, ISUP, BICC, SIGTRAN, INAP, CAP, TCAP, MAP, SCCP, and Diameter.
- Experience working on/Integrating CS Core Network Elements such as MSC-S, MGW, HLR, HSS, BSC, RNC, CSCF, MGCF, SBC, ATS, MRFP, STP and DRA.

EXPERIENCE

At least 3 years' telecommunications Environment.

COMPETENCIES
Behavioural

- Cando with integrity
- Collaborate with agility.
- Lead with Care
- Act with inclusion.
- Serve with respect.

Should you wish to apply, please submit your Application (Cover letter & CV) including a copy of your National ID to MTN South Sudan Head Office Opposite Juba National Stadium or email **Recruitment.SS@mtn.com:** on or before closing date 17th /Dec /2025 @ 5:00 PM

Please note:

- This position is open exclusively to South Sudanese nationals.
- We strongly encourage qualified ladies to apply.
- Only shortlisted candidates will be contacted. If you do not hear from us within 14 days after the closing date, please consider your application unsuccessful
- By applying for this vacancy, you are consenting for MTN South Sudan to process your personal data for purposes of this application and further undertake verification of your personal credentials and related information including, but not limited to, qualifications, criminal record, credit record, current and historic disciplinary proceedings, as part of the selection process.
- MTN South Sudan reserves the right to not fill the advertised position.

Let's stay in touch