

Role profile

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| Role title: IP Network and Service Integration Engineer | Function: Mobile Payment Systems |
| Band: | Department: Group Operation/Network Services |
| Reports to: MPesa Engineering | Location: Market Based Tz |
| Role purpose:  **Fintech Service Integration, Architecture and Planning of International IP Networks supporting OpCo and MPS Internet and Private VPN layer 2/3 Services.** | |
| Key accountabilities and decision ownership :   * Work on numerous Greenfield projects, holding some of the responsibility to both design and implement the infrastructures, environments and solutions, * To understand and document the essential components of core networks provided by Vodafone Group and Vodacom Group between our MPesa OPCO’s, and their associated change control processes and SLA’s. * To understand and document the essential components of the local market networks in our Mpesa Opco’s and their associated change control processes and SLA’s. * To use the above to be able to design end to end network changes in order to support the creation of new application services. * To be able to effect network changes either hands on, through change process or by directing others. * To be able to test and sign off network changes performed for projects. * To understand network availability and performance monitoring and ensure that best practice is applied in these areas to ensure the continuity and safety of Mpesa services * To understand network security including VPNs, certificates and encryption mechanisms and how they can be applied for safe communication of data. * To identify areas where security or other attributes could be improved and use exception and risk logs to track their improvements * . * Communicate between partner overseas software development teams and local customers. * Define system specifications, input/output processes and hardware or software compatibility. * Engage in subsystems’ design analysis and integrate with overall system. * Extend technical support during preparation, installation and system maintenance. * Create professional technical documentations and present for internal and external use. * Code integration activities and perform branch integration. * Systems and developer workspace management. * Develop and automate change validation to tools before roll out and handle validation. * Evaluate, select, roll out and support off-shelf tools to improve partner productivity. * Execute and upgrade integrated interfaces. * Assist clients to test integrated interfaces | Core competencies, knowledge and experience :   * Deep knowledge of Internet and IP/MPLS Network technology. Specifically, Broad and deep technical knowledge of the following as a minimum: MPLS (LDP, RSVP, fast re-route, Segment Routing), BGP, ISIS, OSPF, Ethernet (inc. QoS & OAM), L2 & L3 VPNs IP-QoS, BNGs, IP Multicast, PPP, L2TP, 3rd Party Ethernet & broadband access products, MEF services (E-LAN, E-tree , E-Line.), Internet peering & transit, RIPE, IPv6 and NFV. * Architectural skillset in IP/MPLS technologies and services. Excellent communication and presentation skills. * Demonstrable security best practice awareness across service provider IP/MPLS domains. * Familiar with Traffic and KPI indicators on IP/MPLS Networks * Demonstrable thought leadership into emerging technologies for example Software Defined Networking and Network Functions Virtualisation as well as others (Not needed). * Understanding of key IP/MPLS operational and/or IP/MPLS network design requirements. * Good background on Hw and Sw characteristics and lifecycle, in depth understanding of features and how they work in real environment * Familiar with Traffic and KPI indicators on IP Networks. * Competent with AWS Cloud infrastructure and services, Infrastructure as Code specifically Terraform scripts * Experience with Containers - Docker, Kubernetes * Develop and implement CI/CD pipelines * Knowledge of scripting languages to create well organised, readable and tested code to deliver within the constraints of continuous integration and delivery environments   . |
| Must have technical / professional qualifications:   * 5 or more years of Technical experience across on networking and integration components in terms of architecture, design , implementation and testing * CCIE (or equivalent) certification preferred |
| Budget owned:  none |
| Key performance indicators :   * Leadership and capacity to drive technology choices and to make them implemented (ambitious and competitive) * Able to expose themselves in a multinational environment and to management level with good communication skills (one company & local roots) * Negotiation and relationship * Innovation hungry * Act always for Simplicity and Speed * Always felt as trusted and trust | Direct reports:  none |
| Dotted reports:  none |