

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
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* 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

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| 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
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| 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 |

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