

# Oghenetejiri Eustace Orukpe

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## Professional Summary

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An open minded, automation enthusiast and seasoned professional with a plethora of knowledge and experience, looking to add value and expand possibilities.

## Education

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**B.Sc. Electrical & Electronics Engineering** - University of Lagos, Akoka

2001 - 2007

## Experience

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**Senior Network Engineer** at TP-Link Canada

April 2023 - Present

- Design and implementation of site network infrastructure, wired, wireless and fiber. Migration of devices within sites between manufacturers. Development of ansible playbooks and python scripts for network services rollout. Development of API integration between network management systems. Documentation of network and security implementations. Responding incident and change tickets. Patching of network infrastructure systems. Migration of network infrastructure. Troubleshooting and resolution of issues related to network infrastructure. Integration and provisioning of new users to the network.

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Technologies:

Ansible

Python

API

Network Management Systems

**Network System Engineer** at Nokia

Feb 2021 - April 2023

- Led proof of concepts/value opportunities, demonstrating the capability and value of our solutions to potential clients. Developed and delivered presentations and proposals to clients. Worked with clients to understand their specific needs and provide solutions based on our product offerings. Designed and recommended network architectures to meet the specific needs of clients. Acted as a trusted advisor to clients, providing technical expertise and guidance throughout the sales process. Collaborated with internal teams, including product management, marketing, and engineering, to ensure that the needs of our clients are met. Stayed current on industry trends and technology advancements, continuously updating your knowledge to provide the best possible solutions to clients. Partnered with account managers in a presale technical role, showcasing Nokia's Networking product solutions. Showcased Nokia product solutions, customer presentations, many to one hands-on sessions, proof of value sessions. Consulted, influenced and designed solutions to meet customer's business requirements. Consulted with partner and internal resources for selected accounts in the assigned territory. Kept up-to-date on relevant competitive solutions, products and services. Assisted with the development of formal sales plans and proposals for assigned opportunities. Actively participated as a specialist on assigned Virtual Team and provides consultative support in their area of specialization to other Systems Engineers. Drove closure of sales opportunity by providing relevant information and engaging with internal engineering.

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Technologies:

Nokia Networking Products

**Senior Design Engineer (Network & virtualization)** at TELUS Canada

Nov 2019 - Feb 2021

- Architecting and delivery of complex solutions for the TV group, reporting directly to Director and VP of the TV group. Automating installation, maintenance and testing of complex security VPN solutions. Leading Agile devops solution/ delivery lifecycle of complex solutions. Leading and collaborating with a variety of diverse groups and technical teams (internal and/or external). Customer requirement gathering for complex solutions. Supporting specific customer issues through assessment, interpretation, resolution or recommendations. Presentation of solution to peers and senior management. Working in an environment with high levels of ambiguity. Managing key deliverables as part of an extended project team. Research and development of new platforms, solutions and delivery processes. Mentorship of younger colleagues. Subject matter expert on service provider class networking and security equipment, design and delivery.

**Technologies:**

VPN

Agile

DevOps

**System Engineer (Networking)** at Cisco Systems

Dec 2018 - Sept 2019

- Partner with account managers in a presale technical role, showcasing Cisco's Networking product solutions. Showcase Cisco product solutions, customer presentations, many to one hands-on sessions, proof of value sessions. Consult, influence and design solutions to meet customer's business requirements. Interact with the customer and become a trusted advisor. Consult with partner and internal resources for selected accounts in the assigned territory. Keep up-to-date on relevant competitive solutions, products and services. Assist with the development of formal sales plans and proposals for assigned opportunities. Actively participated as a specialist on assigned Virtual Team and provides consultative support in their area of specialization to other Systems Engineers. Drive closure of sales opportunity by providing relevant information and engaging with internal engineering.

**Technologies:**

Cisco Networking Products

**Network Consulting Engineer** at Cisco Systems

Sept 2013 - Dec 2018

- Responsible for providing consultative, proactive and reactive support to Cisco's Service Provider customers. Provide consultation in design and operation of cisco devices in customer's networks. Provide nth level support for Service provider customers. Oversee all Services deliverables and ensure they meet/exceed customers' expectations. Build strong relationships with key customer stakeholders, especially the Design and Operations teams. Utilise customer relationships to ensure delivery success. Utilise and leverage internal relationships to ensure that customer deliverables are achieved on or ahead of time. Develop an in depth understanding of the customer's network. Work with customer to develop and influence long term objectives thereby ensuring future Cisco Services business. Support the Cisco Services technical team members. Provide technical assistance to the wider Cisco Services team. Technical resource management within local Cisco Services team. Assist with resourcing outside of immediate responsibilities, as part of the wider EMEA team. Support and facilitate knowledge sharing/best practices. Identification of new opportunities for Cisco Services. Partner management, including day-to-day contact with Cisco Partner engineers and working with Cisco Project Managers during the Partner engagement process.

**Technologies:**

Cisco Devices

Service Provider Networks

- In consultation with business stakeholders, assess, plan and design network infrastructure solutions. Provide senior guidance and assistance on operational escalations. Assess, plan and design Network Infrastructure Solutions for new or enhanced services within the SBSA environment. Perform a Quality Assurance role by reviewing design documentation drafted by the Operations Teams and ensuring these are aligned to the governing architecture requirements of the business and complicit with the technology standards set by the SBSA Solutions Architecture Team. Provide guidance and input to the Operations Team on implementation plans related to designs completed by the Solutions Design Engineer. Be available to provide onsite or remote support and assistance to the Operations Team during the implementation of solutions designed by the Solution Design Engineer. Attend and actively participate in meetings with internal SBSA stakeholders to solicit technical requirements for inclusion into Solution Designs. 70%-time allocation to design and planning and 30% time allocated to operations and escalations. Perform the role of Network Technology Lead during P1 incidents. Provide TAC assistance. Provide Technical assistance and inputs to design and deployments of other dimension data projects.

Technologies: Network Infrastructure

- Design and implementation and integration of MTN CTN Network for transmission between the IPCORE and Access network using CX600-8 as core routers, CX600-2 as aggregation routers and ATN 910 and ATN 950 as access routers providing unified and scalable network. Design and implementation of MPLS based transmission network using ISIS as IGP, MPLS TE tunnels flexibility and BGP for internal communication between the Core routers, CX8 and the ATN. Provisioning service like L3VPN for IUB over IP, 3G services (RNC Communication) L2VPN (Pseudo-wire) for ATM transport over MPLS 2G services (ABIS over IP). Design and Implementation of communication network for RAN (BSC& RNC), UGW and Core Network communications using datacomm network elements like NE20, NE40, NE80, 5000E routers. Implementation of transmission networks using various transports like ATM, POS, CPOS and Ethernet (100, 1G and 10G). Design and Implementation of communication network for RAN (BSC& RNC), UGW and Core Network communications using datacomm network elements like NE20, NE40, NE80, 5000E routers. Design and implementation of Telco security infrastructure using Eudmon 300, 800 and 1000 firewalls. Administration for NE80, NE40E & NE20 routers, S9300, S7800, S5300, S3900 switches and Eudemon 300 & 1000 Firewalls for data communication. Data communication configuration when needed. Responsible for U2000 (NMS) system maintenance and repair. Responsible for network monitoring tools. Responsible for analyzing the faults and reporting them in proper escalation pattern. Responsible for reporting to Customers & Company, follow up with them to solve technical issues. Gather traffic statistics from the network, investigate and solve the network problem. 3rd level support for help-desk working to Customers, such as receiving complain, replying to questions, distributing problems, problem tracing.

Technologies:

CX600-8

CX600-2

ATN 910

ATN 950

MPLS

ISIS

BGP

L3VPN

L2VPN

ATM

POS

CPOS

Ethernet

NE20

NE40

NE80

5000E

Eudmon 300

Eudmon 800

Eudmon 1000

S9300

S7800

S5300

S3900

U2000

- Design and Implementation of communication network for RAN (BSC& RNC), UGW and Core Network communications using datacomm network elements like NE20, NE40, NE80, 5000E routers. Design and implementation of Telco security infrastructure using Eudmon 300, 800 and 1000 firewalls. Administration for NE80, NE40E & NE20 routers, S9300, S7800, S5300, S3900 switches and Eudemon 300 & 1000 Firewalls for data communication. Data communication configuration when needed. Responsible for U2000 (NMS) system maintenance and repair. Responsible for network monitoring tools. Responsible for analyzing the faults and reporting them in proper escalation pattern. Responsible for reporting to Customers & Company, follow up with them to solve technical issues. Gather traffic statistics from the network, investigate and solve the network problem. 3rd level support for help-desk working to Customers, such as receiving complain, replying to questions, distributing problems, problem tracing.

**Technologies:**

NE20

NE40

NE80

5000E

Eudmon 300

Eudmon 800

Eudmon 1000

S9300

S7800

S5300

S3900

U2000

**Principal Network Consultant / Network Architect / Implementation Team Lead** at XTI Data International March 2011 - Jan 2012

- Upon contract execution, facilitate pre-sales to post-sales transition of projects to the Project Manager and/or Network Engineer by providing detail about the client expectation to help ensure delivery of service. Maintain customer and partner relationships to ensure satisfaction and continually strive to improve those relationships. Establish customer/partner trust and confidence. Prepare Customer Statement of Work documentation, outlining the major tasks and responsibilities assigned to a project. Keep up to date with new products, product changes in service portfolio, emerging technologies & products, and market trends. Resolves issues and troubleshoots at the design and proposal stage. Assist in the Technical response to RFIs/RFPs (includes creation of Bill of Materials [BOMs], diagrams and technical compliance). Consultancy and compilation of documentations such as LLD and HLD for implementation. Implementation of complex specialized network integration.

**Technologies:**

Network Integration

**Network System Engineer (Service Provider Level 2 Implementation Team Lead)** at Dimension Data Sept 2010 - Feb 2011

- Deployment of WAN connectivity and service provider solutions (Using Cisco ASRS, GSRs, CRSs, 7600, and 6500). Design of Wired Enterprise Network solutions. Design of Wireless Enterprise Network Solutions. Assisting in presales activities with clients. Use of various tools (Like the Cisco Dynamic configurator) to ascertain feasibility of solutions. Assisting in Service assurance. Response to calls regarding client networks.

**Technologies:**

Cisco ASRS

GSRs

CRSs

7600

6500

WAN

Wireless

- Deployment of Security solutions (Cisco, Juniper and Checkpoint). Deployment of network auditing and management tools (nagios, WhatsUp Gold, SolarWinds). Deployment of High Security Data Centre solutions using FWSM, ASA 5500s series, Checkpoint and Juniper firewalls. Design of Wired Enterprise Network solutions. Design of Wireless Enterprise Network Solutions. Assisting in presales activities with clients. Use of various tools (Like the Cisco Dynamic configurator) to ascertain feasibility of solutions. Assisting in Service assurance. Response to calls regarding client networks.

**Technologies:**

Cisco

Juniper

Checkpoint

nagios

WhatsUp Gold

SolarWinds

FWSM

ASA 5500s

Wireless

**Network System Engineer (Voice Engineer)** at Dimension Data

Feb 2009 - Dec 2009

- Design of Data and Voice converged networks for Enterprise, medium and SOHO Offices. Design of Wired & Wireless Network Solutions for Small and Medium Offices. Assisting in presales activities with clients. Use of various tools (Like the Cisco Dynamic configurator) to ascertain feasibility of solutions. Assisting in Service assurance. Response to calls regarding client networks.

**Technologies:**

Voice

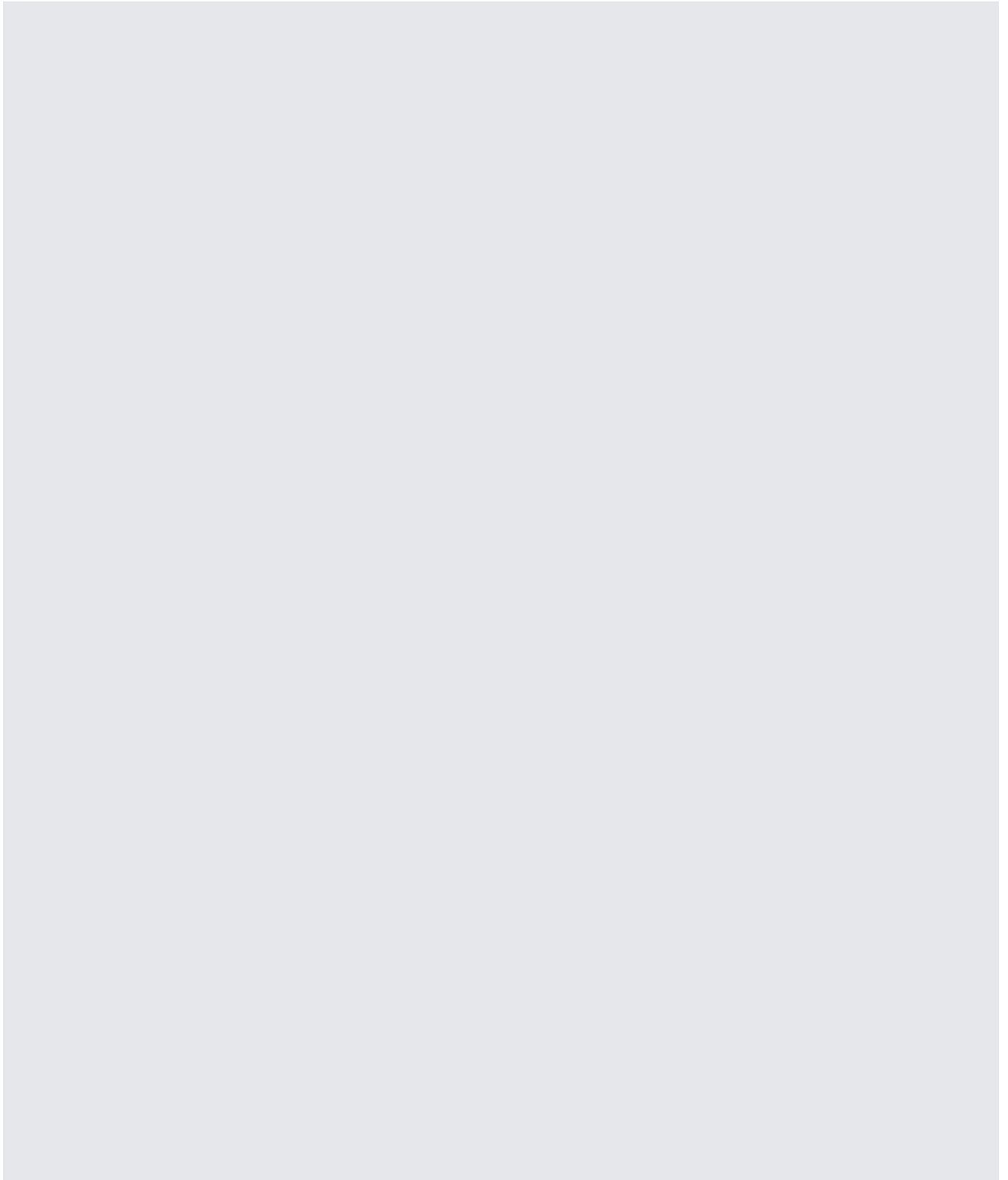
Wireless

Cisco Dynamic configurator

## Certifications

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<b>Nokia Networking Routing Specialist I, NRS1</b> - undefined	October 2021
<b>NSE 1 Network Security Associate</b> - undefined	September 2020
<b>NSE 2 Network Security Associate</b> - undefined	September 2020
<b>Cisco Certified Internetwork Expert, CCIE Service Provider #29270 (Lab)</b> - undefined	August 2014
<b>Cisco Certified Internetwork Expert, CCIE Routing &amp; Switching #29270 (Lab)</b> - undefined	June 2011
<b>Cisco Certified Internetwork Professional, CCIP</b> - undefined	June 2011
<b>Cisco Certified Design Associate, CCDA</b> - undefined	June 2011
<b>Cisco Data Center Network Infrastructure Design Specialist, CS-CDCNIDS</b> - undefined	August 2011
<b>Cisco Advanced Wireless LAN System Engineer, CS-CAWLANS</b> - undefined	December 2009
<b>Cisco TelePresence Video Field Engineer for Express, CS-CFEDS</b> - undefined	November 2009
<b>Juniper Networks Certified Internetwork Specialist - Security, JNCIS-SEC</b> - undefined	December 2009
<b>Cisco Certified Voice Professional, CCVP</b> - undefined	September 2009
<b>Cisco Certified Network Professional - Field Specialist, CS-CRSFS</b> - undefined	October 2009
<b>Cisco Certified Network Professional, CCNP</b> - undefined	June 2008
<b>Information Technology Infrastructure Library, ITIL (Foundation)</b> - undefined	October 2009
<b>Juniper Networks Certified Internetwork Specialist -Enterprise Routing JNCIS-ER</b> - undefined	October 2009





## Training & Professional Development

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Checkpoint Administrator Training for R70 - DataGroup IT	Jun 2010
EMC EMEA Partner New Hire Training (PNHT) (Partner Enablement program)	Mar 2011
Redington Gulf Emerging Markets- Technology Conference (featuring HP, Avaya and Synmatec)	Jul 2011
Cisco Telepresence Video Express Training (ATP Certification)	Aug 2011
Cisco ASR 1000 and ISR G2 deep dive session	Nov 2012
Cisco ASR 9000 Advanced Services Training	Sep 2013
Cisco IOS-XR Usability and Enhancements	Mar 2014
Cisco SDN roadmap/strategy	Mar 2015
Introduction to SD-WAN with Meraki MX	Dec 2018
Cisco Account System Engineer Virtual Team session	Feb 2019
Cisco Sales New Hire Acceleration Program	Jan 2019
Programming for Network Engineers	Feb 2019
Designing and Implementing Cisco Network Programmability	Apr 2019
Adopting the Cisco Business Architecture Approach	May 2019
Cisco IT as a Business - Introduction and Success Stories	Jun 2019
Palo Alto Firewall 9.0 Essentials: Configuration and Management (EDU-110)	Jul 2019
Palo Alto Panorama 9.0: Managing Firewalls at Scale (EDU-120)	Aug 2019
Cisco ACI Training - Internetwork Expert	Mar 2019
Redhat DO180 Introduction to Containers, Kubernetes and Red Hat Open Shift	Mar 2020
Redhat DO280 Redhat Openshift Administrator I	Jun 2020

**Fortinet NSE 1 Network Security Associate**

Sep 2020

**Fortinet NSE 2 The Evolution of Cybersecurity**

Sep 2020

**Cisco Software Defined Access (SDA) Training – Internetwork Expert**

Feb 2021

## Projects

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### Redhat Openshift deployment and maintenance

Installation and maintenance of multi-node cluster consisting of 3 masters, 2 infrastructure and 3 compute nodes in a multi-datacenter, geo-redundant setup using F5 for GTM and LTM, NCS5500 as top of rack connection and hyperV as hypervisor.

Redhat Openshift

F5

GTM

LTM

NCS5500

hyperV

### Cassandra Database installation and automation

Installation and subsequent automation of the installation process, 24 node multi-datacenter Cassandra cluster, ansible and python scripting along with git and azure devops TFS server was used in the delivery of this solution.

Cassandra

ansible

python

git

azure devops

TFS

### Rabbitmq Installation and automation

Installation and subsequent automation of the installation process, 24 node multi-datacenter Cassandra cluster, ansible and python scripting along with git and azure devops TFS server was used in the delivery of this solution.

Rabbitmq

ansible

python

git

azure devops

TFS

### Application testing

Daily standups, demos, bi-weekly sprint plannings, bi-weekly sprints, researching & development of test cases and automation of User Acceptance Testing (UAT) led to a successful collaboration with teams from Canada, United States and India.

UAT

### Automation: Scripting command collections for Troubleshooting

Using python scripting along with netmiko module/package and embedded event manager (EEM) to collect packet captures during interface traffic drops to determine what type of traffic was causing burst traffic drops. This was used to further evaluate the conditions in which the drops occurred.

python

netmiko

EEM

### Automation: Scripting command collections for Scale testing

Using python scripting along with paramiko module/package to test the limits/scale of the NCS5500. Using try and exception concepts to determine when such limits were reached.

python

paramiko

NCS5500

### IPSec based VPN network for Nigerian Inter-Bank Settlement System Plc (NIBSS)

Consulted and designed IPSec based VPN network for Nigerian Inter-Bank Settlement System Plc (NIBSS) utilizing both remote access and LAN to LAN based VPNs.

IPSec

VPN

### Identity Service Engine for Financial Institution

Deployment of Cisco Identity Service Engine (ISE) for Standard Bank South Africa catering for Wireless BYOD, wired network users, ip phones and printers (requiring Mac Address Bypass (MAB)). The project was part of a network security architectural project designed to enforce Network Admission & Control (NAC) using Cisco ISE.

Cisco ISE

BYOD

MAB

NAC

### Audit and Upgrading of PIX firewalls

Audit and Upgrading of PIX firewalls, Intrusion Prevention Systems and Cisco 6513 Switches (with Firewall Services modules, Intrusion Detection Services Module-2, Network Analysis Modules and Multilayer Switch Feature Cards) in high availability mode for Access Bank.

PIX firewalls

Intrusion Prevention Systems

Cisco 6513

Firewall Services modules

Intrusion Detection Services Module-2

Network Analysis Modules

Multilayer Switch Feature Cards

### Secure Internet Gateway

Consulting and architecting a solution where customers internet is inspected and harmful traffic cleaned as a value added service, this will lead to better quality of experience and ultimately retention of customers.

### Application multicast gateway

Design and delivery of multicast gateway solution using NCS5500, Nokia 7750 using pim ssm.

NCS5500

Nokia 7750

pim ssm

### Cisco UCS Prime Install on Blade Chassis

Design and configuration of Cisco Prime NMS installation using Cisco UCS B200M3 Blade server with directly attached (UCSM based zoning) and network-attached (nexus based zoning) EMC VNX5200 storage using nexus 5548 and storage switch and 6324 fabric interconnects. Installed and configured VMware ESXi servers and VCenter server with VMware DRS clustering to provide dynamic resource allocation for Prime Networks, Performance, monitoring and Optics.

Cisco Prime NMS

Cisco UCS B200M3

EMC VNX5200

nexus 5548

6324 fabric interconnects

VMware ESXi

VCenter

VMware DRS

### Cisco Prime Carrier Management Suite Upgrade

Performed underlying redhat enterprise server upgrade from 6.4 to 6.5, and prime applications from Prime Network 4.2 to 4.3, Prime Provisioning 6.7 to 6.8, Prime Optical 10.3 to 10.5 Prime Performance 1.6 to 1.7 and Prime Central and Fault-manager 1.4.1 to 1.5.1. Installation of Prime Traffic Engineering Manager for managing and deploying Traffic Engineering tunnels across the domain.

redhat enterprise server

Prime Network

Prime Provisioning

Prime Optical

Prime Performance

Prime Central

Fault-manager

Prime Traffic Engineering Manager

### Network Management System (Infoblox NETMRI)

Team Lead for deployment of network hardening templates on all devices in Standard bank worldwide. NETMRI was selected as the defacto Network Management System (NMS) for the deployment of the configuration script meant to turn off unnecessary services and enforce management access restrictions to prevent unauthorized access to network infrastructure/elements. CCS scripts and scheduled deployment of such scripts were the means by which this project was affected.

Infoblox NETMRI

CCS scripts

### Peer Fabric with NCS5500

Provided architecture and strategic consultation to a service provider replacing their CRS-3 based peering fabric with Spine-Leaf NCS5500 fabric. Provided information and clarification on licensing, product features and deployment scenarios that provided the confirmation the customer required to issue the purchase order.

NCS5500

CRS-3

Spine-Leaf

## NCS5500- Segment Routing Subject Matter Expert (SME) - Service Provider

Provided problem resolution, design consultation and implementation of complex solution across the Service Provider network, from Mobility, Data Center, Core Network to Customer Edge. Using latest technologies like Zero Touch Provisioning (ZTP), EVPN, WAN Automation Engine (WAE), Network Convergence System 5500, SP Fabric, Traffic Engineering, Topology Independent Loop Free Alternative (TiLFA), QoS, Telemetry, etc, liaising with Cisco engineering & sales team to resolve bugs and introduce new features.

NCS5500

Segment Routing

ZTP

EVPN

WAN Automation Engine

SP Fabric

Traffic Engineering

TiLFA

QoS

Telemetry

## MPLS Traffic Engineering Design & Deployment

Design, test and deployment of MPLS TE tunnels on a major Service Provider's MPLS carrier network.

MPLS TE

## Circuit Emulation Over MPLS

Design, test and deployment of Circuit Emulation of MPLS using ASR900 & GSR12000.

Circuit Emulation

MPLS

ASR900

GSR12000

## Development of new QOS scheme in Service Provider Network

Initiated and led the customer discussions in the reviewing of its QOS policies, migrating from an old scheme based on PCP/DEI (layer 2 QOS) to the standard EXP based QOS scheme. This led to even more opportunities and in-roads within the network.

QOS

PCP/DEI

EXP

## Software Lifecycle Management in Service Provider Network

Initiated and led the customer discussions regarding software to be used on equipment, taking into consideration Extended Maintenance releases (EMR), software defects, Software bug scrubs (PSRR) and End of Life (EOL) announcements. This led to stability in the network and improved software compliance.

EMR

PSRR

EOL

## Hardware Lifecycle Management in Service Provider Network

Initiated and led the customer discussions regarding hardware in the network, taking into consideration End of Life (EOL) announcements.

EOL

### Network Optimization Service Consulting Engineer (Prime)

Provided consultancy services for government enterprise networks, ensuring proper software analysis and network architecture is adhered to. Analysis of security vulnerabilities & workarounds and design collaboration while providing nth level support for problem resolution.

#### Multicast design

Consultation, design, lab testing and deployment of multicast VPN services in a major Service Provider network, evaluating options such as PIM/GRE based Draft-Rosen and PIM-free core options using Multicast LDP (mldp).

multicast VPN

PIM/GRE

Draft-Rosen

Multicast LDP

mldp

#### CRS1 to CRS-X hardware Upgrade

Provide consultation, guidance and eventual deployment of CRS-1 to CRS-X upgrades for major service provider customers for over a dozen sites.

CRS-1

CRS-X

#### Service Provider Core Software Upgrade

Cisco CRS-1 & CRS-3 Upgrade from 4.0.3 & 4.1.2 to 4.3.2 to 5.1.3 to 5.3.4, recommended SMUs tar creation and installation and repartitioning of disk0: to accommodate the new and future OS. (Team Lead).

CRS-1

CRS-3

SMUs

#### Service Provider Edge Software Upgrade

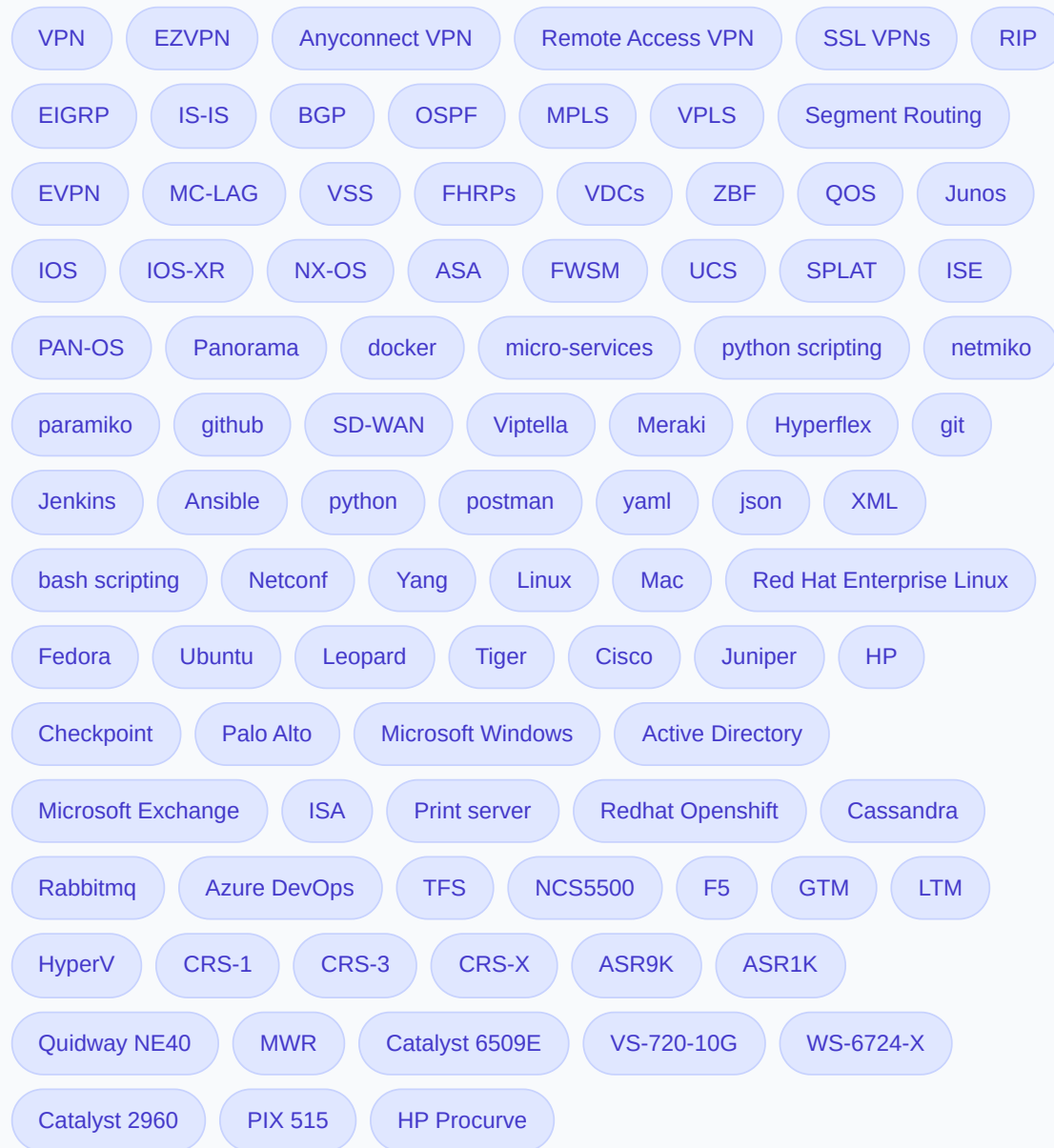
Cisco ASR9K & ASR1k Upgrade from 4.2.3 to 4.3.4 to 5.1.3 to 5.3.4 for ASR9k (turboboot and over the network installation), recommended SMUS tar creation and installation and 3.4.2 to 3.7.4 to 3.13.3S for ASR1k. (Team Lead).

ASR9K

ASR1K

SMUS

## Skills





## References

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**Dawid Brink** - Technical Solutions Architect

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**Dawit Kedebe** - System Engineering Manager

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