
Core Network IP Consultant - Experienced Engineer

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Summary

As an adept Core Network Engineer with more than fourteen years' experience, I have a well-rounded skill set "to anticipate the causes and locations of network problems" and honed talents in "fast-learning and well-understanding of Data Network architecture, topology and related configuration details". Further, I am a recognized expert in critical thinking and a communicative collaborator.

My previous roles have strengthened my capabilities in innovation and problem-solving, including a keen attention to detail and accuracy.

Academic background

(2002- 2007) BLIDA INSTITUTE OF OPERATION RESEARCH & DATA PROCESSING
Engineer Master of Science Degree in Artificial Intelligence Systems

(1988- 2000) ELEMENTARY AND SECONDARY SCHOOL

Professional Experience

✚ Current Job:

- Tele-Cloud Services Algeria, service period : December 2019 – till now
virtual Evolved Packet Core (vEPC) / Backbone-IP Technical Support

Job Description:

Main activities cover different areas including Core Network Deployments in a virtualized environment vEPC, and technical support for Core IP network platforms.

- Operation & Maintenance Technical tasks for Core specific MPBN nodes i.e. Router/Switch/Firewall implemented for Mobile Communication Backbone Network.
- Participate in internal technical discussions in view to improve overall network performance and make recommendations wherever possible.
- Ensure IP network support of new and existing services and features.
- Support in project planning, design, implementation and documentation of customer network environments.
- Develop and maintain technical documentation and diagrams related to the field communications systems equipment & networks.
- Work within configuration management process to ensure consistent & secure modifications to equipment configurations.
- Detect emergency cases and initiate emergency procedures: offer all the necessary support to the operations functions and processes.

- Collaborating with vendors to resolve problems and update equipment.
- Working closely with customers and users to troubleshoot and resolve complex user issues.
- Ensure high availability of Network Time Protocol (NTP) across all networks to ensure consistent & accurate time is available to all servers & DC network devices.
- Achieved projects :
 - *Hardware expansion projects and migrate existing traffic: implement connectivity with Juniper & other vendor technologies using copper & fiber; implement high availability (HA) as needed.*
 - *Junos SW upgrade to the release 21.2R3 for EPC Backbone nodes : “Gi SRX Firewalls and edge MX routers”*
 - *Ericsson Network Function Virtualization Infrastructure (NFVI) integration solution NFVI-6.10 for telco operator.*
- Good experience configuring, designing, implementing and troubleshooting with following technologies:
 - Juniper MX-series branch and edge routers: MX960 ...
 - Juniper SRX-series security devices: SRX3600 / SRX5800 ...
 - Juniper EX-series switches : EX-4300 / EX-4600 ...
 - Cisco Firepower ASA firewalls
 - Ethernet & TDMA delivered Private IP & Internet circuits
 - Private APN cellular networks: Ericsson GGSN-SGW-PGW (EPG) (Evolved Packet Gateway 3.36 on SSR , and (EPG) 3.36 Virtual) + vSGSN-MME_1.76 (NFVI-6.10)
 - Network Time Protocol (NTP): *Time Provider “TP5k” series*
 - Domain Name System (DNS): *Ericsson IPWorks* for mobile packet networks

✚ Previous experiences:

- **Algeria Telecom Mobile, Service period : January 2013 - December 2019**
M-PBN - PS Core Network Operations Specialist Engineer

Job Description:

I was responsible to ensure configurations on various MPBN/Packet-Core nodes: “Extreme XOS Switches, SRX Firewalls and Juniper Routers” that have been deployed to carry the 3G/EPC Packet Core Network in ATM telco operator.

Following were my duties:

- Assigned Projects :
 - (Hardware/Software) Upgrades for Extreme XOS Switches connecting EPC nodes.
 - Gi traffic shifting and migration from NetScreen Firewalls to Juniper-SRX Firewalls.
 - Participate on integrating new nodes M320 Site-Routers, and shifting of traffic from previous installed nodes M120 Site-Routers.
- KPI’s monitoring and plotting critical traffic by Cacti and IP-Probes.
- Verification of DT "Data Transcript" for new planned changes in the network, Pre/Post change checks: configuration activities related to Routers (Juniper, Ericsson) & Extreme XOS Switches & Juniper Firewalls as per the network requirements.
- NAT rules implementation on Juniper SRX5800 and SRX3600 Firewalls for EPC SGi traffic flows towards public ISP.
- Configuration & maintenance of new connectivity towards Corporate Networks using secure VPNs.

- Troubleshooting IPSec Tunnels on virtual private network (VPN) links and debugging IKE Negotiation within SRX platforms.
- Design Implementation for SIP « Signaling/Media » interconnecting ATM with a "transit VoIP provider", on Juniper Network's Platform.
- OSPF VRF configuration and troubleshooting on Juniper M320-GGSN.
- Hands on experience on:
 - Juniper Routers – Juniper M320, MX960
 - Juniper Firewalls – SRX3600, SRX5800
 - Extreme Switches – BD8806, BD8810, X450
 - Ericsson EPG-S (Evolved Packet Gateway) supported on M120/M320 platforms
 - Ericsson SGSN-MME MKVIII

- **Algeria Telecom Mobile**, service period : November 2008 - January 2013
M-PBN BO junior Engineer

Job Description:

Back Office junior Engineer assigned to the O&M M-PBN Project: *IP Core backbone solution handling GPRS, SS7oIP, and IN services with "06 Sites/40 nodes"*, below are my expertise:

- Health Checks and System monitoring of IP Core nodes, and delivering a corresponding DIG report in case of service outage.
- Troubleshooting M-PBN related problems with CSR and Trouble Ticket handling Network.
- Maintain Implementations of new Corporate VPNs/APNs, by configurations on: (Site-Switch vlans/ Site-Router routing-instances/ and ISG-Firewall IPsec Tunnels).
- Update VPN Configurations for the Connectivity Project: "BlackBerry Network Infrastructure and ATM".
- "Gn/Gp" GPRS Roaming Partner Connectivity Configuration on "JUNOS & NetScreen" platforms.
- JUNOS Software Upgrade Project from 9.1R1.8 to 10.0R3.10 – of Juniper M120 Routers.
- User account management & Password Recovery JUNOS /CISCO platforms.
- Hands on experience on:
 - Juniper Routers – Juniper M7i, Juniper M120
 - Extreme Switches – Summit x450-a, Black Diamond BD8800
 - Netscreen Firewalls – ISG2000, NS208, NS500
 - Terminal Server – Cyclades ACS

► Technical skills

- Good Expertise on IP Protocols (i.e. OSPF, ISIS, BGP, MPLS, BFD, VRRP)
- Good Exposure to Router/Switch/Firewall of M-PBN EPC nodes Juniper/Extreme/Ericsson.
- Good Expertise on GSM/GPRS/WCDMA/LTE Protocols (i.e. SS7, SIGTRAN, MAP, TCAP, SCCP, RANAP, S1AP, BSSAP, Diameter, GTP, RADIUS).
- Good Exposure to SGSN/GGSN/DNS and other Packet Core Nodes of Different Vendors, with good understanding and awareness of the norms '3GPP TS'.
- OS: Linux/Solaris, Windows.
- Ability to analyze and to write scripts, using Bash and Python shells, with C/C++ programming good skills.
- Traffic packets capture and analysis using Wireshark.

Trainings

► Oracle:

- Introduction to Oracle: SQL & SQL Plus

► Ericsson:

- SGSN 2011 Configuration (LZT1380519 R1A)

► Juniper:

- Introduction to Junos operating system
- Junos routing essentials
- Junos intermediate routing
- Junos MPLS and VPNs
- Junos Security
- Advanced Junos Security
- Junos Unified Threat Management
- Junos Intrusion Prevention System Functionality

► Cisco :

- Cisco CCNA Routing and Switching ICND2 200-101
- Cisco CCNA Routing and Switching ICND1 100-101

Certifications

- **August 2009** : Cisco Certified Network Associate CCNA
- **March 2015** : Juniper Networks Certified Internet Associate ; JNCIA
- **Now**, Preparation in progress for Certifications : (**PMP** / **JNCIS-SP(R&S)** and **JNCIS-SEC**)
 - **JNCIS-SEC** : Juniper Networks Certified Internet Specialist Security
 - **JNCIS-SP(R&S)** : Juniper Networks Certified Internet Specialist Service Provider – Routing & Switching
 - **PMP** : Project Management Professional