Rajvinder Singh Nandhra

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Professional Profile

A strategic Technical Lead and Senior Network Engineer with over 15 years of experience delivering mission-critical infrastructure across Financial Services, Healthcare (NHS), and Defence. Expert in leading complex projects from conception to completion, with a specialised focus on **Cisco FMC/FTD, Palo Alto, FortiGate and SIP Telephony Modernisation.** Proven ability to design HLD/LLDs, manage multi-stakeholder relationships, and lead technical teams through high-pressure migrations and air-gapped environment management.

Core Technical Competencies

- **Lead Design:** HLD/LLD creation, DHCP/VLAN scoping, QoS (DSCP) mapping, and CAB leadership.
- **Network Security:** Cisco FMC/FTD, ISE (802.1X/NAC), Palo Alto (Firewall/Routing), ASA, Juniper SRX, FortiGate
- **Infrastructure:** Core HA Pairs, Nexus Switching, Air-gapped (HSA) Secure Networks, BGP/OSPF.
- **Unified Comms:** Mitel MiVoice Business, SIP Gateways, PSTN-to-SIP Migrations, Cisco Call Manager Express, Cisco Unified Communications Manager.
- **Governance:** SCIDA compliance, Secure By Design (SBD), Change Advisory Board (CAB) representation, Stakeholder Management.

Professional Experience

allpay Ltd | **Network Engineer (Technical Lead)** | **Jan 2025 – Present**

- **Technical Ownership:** Leading the evolution of the Corporate, Security, and air-gapped HSA networks.
- **Network Lead:** Managing Cisco FMC and FTD for advanced threat defence and Cisco ISE for robust network authentication.
- **High Availability Architecture:** Designed and maintained Core network resilience using HA pairs to ensure zero-downtime for financial service operations.
- **Secure Networking:** Maintaining strict security protocols for the air-gapped HSA network, ensuring total compliance and data integrity.
- **Project Lifecycle:** Leading network projects from initial scope and design through to final implementation and hand-over.

Sandwell & West Birmingham Hospital (SWBH - MMUH) | **Network & Telephony Lead** | **Mar 2024 – Dec 2024**

- **Telephony Modernisation Project:** Acted as the Technical Lead for the critical migration from legacy PSTN to modern VoIP infrastructure.
- **Design & Integration:** Authored HLD/LLD documentation for the integration of Mitel MiVoice Business and Mitel SIP gateways via Wavenet dedicated leased lines.
- **Network Optimization:** Defined DHCP scopes and VLAN associations; configured DSCP settings for Quality of Service (QoS) to ensure voice traffic priority.
- **Security & Routing:** Configured Palo Alto firewall rules and routing protocols to facilitate secure external SIP communication and internal network integrity.
- **Governance:** Successfully led Change Advisory Board (CAB) submissions, presenting technical roadmaps to senior leadership to guarantee zero-impact migrations.
- **Vendor Management:** Chaired weekly technical synchronization meetings with Wavenet to manage challenges with PSTN number porting and migration.

QinetiQ | **Network Engineer** | **July 2015 – Sept 2023**

- **Project Leadership:** Translated complex stakeholder requirements into technical roadmaps for high-security defence-sector clients.
- **Multi-Vendor Firewall Management:** Designed and deployed security policies across Cisco Firepower, Palo Alto, Juniper SRX, and Fortinet.
- **Lifecycle Management:** Managed the full project lifecycle, from Bill of Materials (BoM) and procurement to hardware racking.
- **Documentation:** Created comprehensive HLD and LLD diagrams and followed strict SCIDA processes for site-to-site VPNs and AnyConnect configurations.

Royal Orthopaedic Hospital | **IT Support Engineer (Fixed Term)** | **Apr 2014 – Jan 2015**

- **VDI Implementation:** Managed the migration of users to VDI environments using VMware Horizon View and 10Zig clients.

(Note: Earlier roles including ATOS, Ministry of Justice, and Dudley PCT available upon request.)

Education & Certifications

- **Cisco CCNP** (Accredited/Instructor)
- **Cisco CCNA Security** (Accredited/Instructor)
- **Cisco CCNA** (Certified/Instructor)
- **Microsoft MCSA & MCDST**
- **HND in Computing (Merit)** | Solihull College

Key Leadership Highlights

- **Modernisation:** Successfully transitioned a major NHS Trust (SWBH) from legacy PSTN to SIP, modernising communications for one of the UK's newest hospitals (MMUH).
- **Secure Environments:** Extensive experience managing air-gapped HSA networks and SCIDA-regulated defence environments.
- **Communication:** Proven ability to bridge the gap between technical teams and non-technical stakeholders at the board level.

References available upon request.