Stuart David Johnson

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***Design complex integrated systems, deploy cutting-edge IT technologies, manage large-scale engagements and implement key client support services.***

Seasoned experience in IT infrastructure development, companywide secure enterprise solutions, multi-project implementations, platform migration activity, generating significant benefits for clients and providing advanced capabilities in time-critical environments, deploying crucial applications and completing complex projects in deadline-sensitive settings, consistently meet project requirements and exceed client expectations.

Infrastructure Design ♦ Full Project Lifecycle Processes

Security Analysis ♦ Network Implementation

**CCIE Written/CCNP/CCDP ♦ CCNA Security ♦ CCNA Data Center♦**

**Checkpoint CCSE ♦ Bluecoat BCCPA ♦** **ITIL v3 Foundation**

**UK SV Clearance/CRB/DBS Checked**

<http://www.linkedin.com/profile/view?id=42076033&locale=en_US&trk=tab_pro>

Contract positions only

## EMPLOYMENT & ACHIEVEMENTS

**Covea Insurance**, Halifax, West Yorkshire Feb – Apr 2019 (Contract Position)

Management of companies infrastructure including datacenter, head office & branch networks, lworking with change management & Infrastructure depts.

**Senior Network Security Engineer**

Project & BAU of companies network including

6 \* internet facing Checkpoint firewalls R80.10, Smart dashboard rule base analysis & rule creation.

4 \* ASA DMZ firewalls, rule base analysis & rule creation.

16 \* F5 load balancers, LTM & GTM, Pool & VIP creation, certificate renewal, analysis

Administration & intergration of Cisco ISE authentication engine & Cisco Meraki Wireless Managment

Infrastructure hardware/software tightening

Project lifecycle, SIT, Pre-Prod, Prod testing

Azure security implamentation

Password Manger Pro implementation

Solarwinds analysis

Censornet Cloud based proxy server

**Firewall Hardware** Cisco ASA 5585 FWSM firewalls, Checkpoint Gaia R80.10, F5 LTM/GTM

**Branch Hardware** Cisco WS-C4507R-E, 9300, 3850, 3750, 2960, ASA 5505.

**Data Center Hardware**, Cisco ISR 1000 routers, N5K-C56128P, N2K, iBGP, eBGP, OSPF, IPS, VPN, VRF.

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**Thales Group**, Doncaster, South Yorkshire, NOV – DEC 2018 (Contract Position)

Aerospace/Aeronautics/Secured Managed Networks

**Network Security Engineer**

Network Operation Center

Maintenance of various companies secured networks over IPED network/PSN/VPN networks, including Change Management, Incident Management, Fault diagnostics, Service desk tickets.

Administration of ASA 5585 firewalls & Juniper SRX300/SRX240 firewalls & VPNs, IDS/IPS, Mcafee, Sophos, Firepower Anti-virus updates, trustpoint certificate renewals on ASAFirepower & Juniper, Certificate request from SubCA, PKI, iBGP, eBGP, OSPF, EIGRP, VPN, VRF, QOS, Solarwinds Monitoring, Event log analysis, F5 LTM, RAS account reset.

**Firewall Hardware** Juniper SRX300/SRX240 firewalls, ASA 5512/5585 firewalls/Firepower, Cisco Ironport, Cisco c300v Email Security Appliance, Cisco c300v Web Security Virtual Appliance.

**Data Center Hardware** WS-C4503-E, WS-C4507-E 3925E ISR, Cisco 3850, Cisco 2960. ISR1000,

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**British Telecom Group,** Balborough, Derbyshire, MAY-AUG 2018 (Contract Position)

**Network Security Engineer**

Security remediation of 170,000 Cisco devices across BT’s managed services, global customer base.

Customers including CO-OP bank, Royal Mail, Computer Center, Bradford & Bingley, Barclays, EE, HBOS, KPMG, Sainsbury, Steria, Syngenta, Ofcom, Crossrail, NHS, BUPA, Debenhams, DHL, Comet, Capita, Aegon, Bank of Ireland.

These security remediations were determined by BT Security Council including guidance from GCHQ.

All the remediation was carry out on the Cisco DNA Center utilizing script based configuration files which automatic remediation of the device configuration to bring it up to date with the best security practice.

Data center relocation including Leaf & Spine ACI archertecture, Nexus 6001 switches, legacy infrastructure

**Data Center Hardware** Nexus 6001P, N2k, WS-C4503-E, WS-C4507-E, 3850, Cisco 2960. ISR1000.

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**Cheshire Datasystems Limited,** Stockport**,** Cheshire, JUN-SEPT 2017, (Contract Position)

Software House

**Senior Network Engineer**

Installation of pair of Checkpoint 15600 firewall into existing clusters over stretched OTV vlan to allow greater failover protection. Working at CLI Expert (linux BASH Shell) Firewall rule creation & administration of Juniper Netscreen-ISG 2000 series firewalls.

Upgrade of Checkpoint Smart Event Server software from R77.30 to R80.10 & integrate existing Smart Event Light in to central log server storage.

Administration of Nexus switches in multiple VDC configurations running NX-OS 7.2(2)D1(2) & stretched OTV vlans in multiple data centers Including Fex-Fabric, ACI, OSPF, VRF, Virtual Port-Channels.

Configuration of Solarwinds Orion IPAM software for entire companies IP network management, also

Solarwinds Netflow implementation on the Nexus, Cisco, Checkpoint equipment for network data flow analysis.

Administration of 18 Checkpoint Gaia firewalls in internal, DMZ or PCI compliant configuration.

**Firewall Hardware** Juniper ISG 2000 firewalls, Checkpoint Gaia firewalls software, R77.30, R80.10

**Data Center Hardware** Nexus N77-C7706, N5K-C56128P, N2K, WS-C4507R-E, WS-C4503-E, WS-C3850-48T, WS-C3650-48TQ.

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**Rotherham, Doncaster & South Humber NHS Trust,** Doncaster, FEB – MAR 2017, (Contract Position)

Medical Care

Senior Network Consultant

Design, installation & migration of 50 \* General Practitioner, Social Services & Doncaster Council buildings into Virgin Media core MPLS network via PSN connections.

Including latest security design & DMVPN configuration with BGP redistributing into EIGRP on Cisco 2911 routers also a backup route into BT’s N3 network including Multiple VLANS, DHCP scopes, DNS, Spanning-tree, Ether-Channels, VRFs, policy-maps.

Fibre patching fibre patch panels, dual SC, Dual LC, ST, MTRJ, multimode or singlmode fibre, troubleshooting fibre connection, creating ether-channels over fibre connections.

Create deployment plan & implement, testing plan after equipment installation.

Audit & backup of existing network infrastructure via CatTools,

Administration of Nexus 5k, 2k, Fex-Fabric, VRF, Virtual Port-Channel

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**Cooperative Bank**, Manchester, Lancashire, MAY – AUG 2016, (Contract Position)

Financial Institution

**Network Security Engineer**

**Infrastructure Security Dept**

Working on various projects, relocation of 20 international business-business VPN tunnels using AES-265, SHA384, DH group5 source & destination Natting, the companies included inter-bank connections, credit reference & insurance services.

Checkpoint firewall & Cisco ASA firewall rule amendments for the project relocating the banks infrastructure to IBM’s new data center & new services coming on line with the Branch Transformation project. As well as working with Project Managers, Transformation Managers & other internal departments.

Administration of multiple M680 Cisco Content Security Proxy Servers amending internet access rules. Analysis of the traffic flow using Skybox. Root cause analysis of various IT systems, Perform end to end testing with application delivery teams.

**Network Hardware** Checkpoint VSX Platform running multiple domains, software R76, R77, Cisco ASA FWSM centrally managed by Cisco Security Manager.

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**Lloyds Banking Group,** Pudsey, West Yorks, APRIL 2014 – FEB 2016, (Contract Position)

Financial Institution

**Senior Technical Infrastructure Analyst**

**Network Security/SD Networks Dept**

Security/Network Lead for Critical Waves within the Horizon Programme Project. (16,000m2 Data Centre)

This was the £388m Programme for critical service migrations from existing distributed DCs to new cutting edge DC environment for all Core Banking Systems (CBS), IBM Mainframe, Mortgages Platform, Key Channel Services, Business operations, including support of 3,000 branches, offices, telephone banking, Internet Banking Service, Mobile Payments, transaction services, ATM Host Infrastructure supporting 10,000 ATMs – in what is recognised as the largest and most complex Data Centre migration of its kind in Europe.

Working closely with Project Managers, Application/Infrastructure team and third party suppliers (BT) to define and document the firewall policies.

Perform data discovery analysis for third parties, prepare security policies and assist in security infrastructure migration to new Data Centre highly complex Cisco ASA, Checkpoint Firewall security estate (800+ firewalls Red Zone (internet facing) Amber Zone (Multiple DMZs) White Zone (Core Network) spanning multiple DCs.

Attend daily conference calls with key project stakeholders including bank project managers, architects, BT project managers, server/software administrators & daily attendance of the Change Authorisation Board.

Perform end to end testing with application delivery team Use Skybox to find and remediate firewall security issues Plan to optimize firewall rule sets to reduce configuration errors Discovers access policy violations, shadowed, redundant and unused rules

**Firewall Hardware** Cisco ASA 5585-X, FWSM, ver 8, ver 9 IOS, Checkpoint VSX Platform running multiple domains, software R76, R77

**Data Center Hardware**, Nexus 56128P, N7K-C7010, N56-M24UP2Q, N7k-M224XP-23L, 2232PP, 2248TP.

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**ASDA Supermarket,** Leeds, West Yorks JULY 2012 – December 2013 (Contract Position)

Retailer, subsidiary of Wal-Mart

**Cisco Specialist**

ISD Department

Design & Pre staging of a pair of Cisco Catalyst-WS-C4507-E switches with Cisco WS-c2960 48tc-l edge switches in a collapsed core design, these where installed into two new ASDA purpose built distribution centers at Bristol & Grangemouth, working closely with fellow project team members & third party installation engineers.

Next Generation WAN project to upgrade 361 of the ASDA stores/supermarkets over a 2 year period with a project budget of £2.8m. Installing 720 \* Cisco ISR2911 routers & supplying 8Mb IP Clear circuits via BT 21CN & 4Mb via BT ADSL2+ circuit, using HSRP, DLSW, eBGP, EIGRP routing protocol, giving 8Mb bandwidth to each store for data, IPT, VoIP, wireless, this also included the reconfiguration of the existing Cisco WAAS core & branch server to accommodate new traffic patterns, This project was mainly carried out through the day on live ASDA stores, but this also included numerous late nights changes to ensure upgrades did not impact the supermarkets. Administration of Cisco WAAS servers

Installation & configuration of a pair of Cisco Flex 7500 Series Central Wireless Controllers & integration with the Cisco 1130 Autonomous & LWAPP AP’s installed in the ASDA stores / supermarkets. The introduction of centralised control enabled consolidated management of the access point estate in addition to cost savings, achieved by removing the need for localised controllers at store locations. Stores also benefitted from enhanced RF coverage and service resilience, provided by secondary infrastructure & enhanced monitoring. 1000 access points were brought under central control across 162 store locations to an aggressive schedule with minimal impact to store operation.

Worked with a company out of America under the Walmart umbrella to implement the above over a series of nights.

Data Center Hardware Cisco 7206 routers, Catalyst-WS-C6509-E, Catalyst-WS-C6506-E, ASA Firewalls, Catalyst-WS-C4507-E, WS-3750G-48P-s, Cisco Nexus 5596UP, Cisco ACE 4710, with wires only connectivity to BT’s MPLS cloud.

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**DIMENSION DATA**, Sheffield, South Yorks JULY 2010 – March 2012 (Contract Position)

*International Solutions Provider Cisco/Microsoft gold partner.*

**Technical Consultant**

Implementation of Unified Cisco Communications networks for CIVICA/Sheffield City Council across the South Yorkshire area, as part of the U.K government’s £2.2 billion (BsF) Building Schools for the Future program.

Pre-staging & implementation of large scale Unified Comms networks across 27 schools in the Barnsley & Sheffield area, including data/voice/wireless/cctv/IPTV

Network design & implementation, incorporating 3750 core switches, with 2960 & 3560 switches as the access layer switches, creation of etherchannels, trunk ports, SVI/VLSM, QOS, RPVST, BPDU Guard, Root Guard, macro’s, vtp security, switch port security, ntp security, crypto key, multicasting, ssh access, access lists, class maps, dhcp snooping.

Moves, adds, changes in Cisco Unified Comms Manager v7.0 /Cisco Unity v2.1.0, SRST /CCS/ partition configuration.

Implementation of Cisco WCS Server integrated with Cisco 4404 & 5508 WLC in all 27 schools, with Microsoft Radius servers for wireless client authentication, with AP1131, AP1142 & external AP1242 integration.

Built the wireless controller from scratch out of the box, integrating 2 controllers in each school into a logical pair & connecting to the main switch via an ether-channel, creating wlan for multiple AP’s, channels, teachers wlan, pupils wlan & guest wlan. Created wireless maps using Cisco Prime for each school, before installation.

Utilisation of Solarwinds CatTools software to generate end customer reports showing switch port/vlan allocation too also create backups of the 924 switch configurations & remote changes to the switch configuration on mass.

Presentation of finished network & PoC to the end customer & independent verifier for project sign-off purposes, also detailed data/wireless diagrams creation for the end client using Microsoft Visio.

Working closely with partnering companies Civica , Laing O’Rouke , Crown House , Vinci Construction , NG Baileys, service providers BT, Thales, DRL & the local authorities of Barnsley & Sheffield.

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Wm Morrisons Supermarket, Bradford, West Yorks Oct 2009 - Jan 2010 (Contract Position)

WLSE Consultant

Key participant on a project team of 4 CCNP engineers in rolling out payment card industry data security standard (PCI DSS) compliancy to 420 Morrison supermarket stores.

Audited and configured 1210 and 1240 series autonomous AP's and installed pre-configured IOS scripts and upgrades.

Created a WDS at each location and integrated Cisco Secure ACS 4.2 servers for IDS purposes.

Integrated and configured Cisco WLSE servers for management capabilities.

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**Humber Mental Health Teaching NHS Trust,** Hull,East Yorks ● May 2009 - Aug 2009 (Contract Position)

**Cisco Network Engineer**

♦ Tasked with auditing the network hardware of 300 doctor surgeries & hospital connections via the NHS N3 network.

♦ Administration of VRF over OSPF, upgrading of network hardware & software (Checkpoint NGX & Cisco PIX/ASA) where necessary while maintaining BAU hub & spoke topology VPN connectivity.

♦ Working within network support team to achieve KPI & SLA & liaising with external departments & suppliers.

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**NG Bailey & Company Ltd**., Bradford, West Yorks ● 2004 – 2008 (Permanent Position)

The largest privately-owned construction company in the UK and leading supplier of mechanical & engineering services, cabling and technical solutions with 22 branches.

**Infrastructure Technical Support Analyst**

Responsible for maintaining core ICT infrastructure,

♦ Administration of 2 \* Checkpoint/Nokia firewalls at the Leeds & Bradford data-centers allow secure access to construction site throughout the U.K in a hub & spoke/partial mesh topology via VPN tunnels including AES, 3DES, SHA-1, HMAC encryption.

♦ Configuration of Bluecoat proxy servers 800SG & 400AV integrated with WebSense server, software updates & the creation of an SSL termination tunnel for security purposes, too allow 2000+ employees to connect to the internet securely.

♦ Facilitated the physical installation & configuration of F5 Firepass server to allow employees to work from home and successfully integration with the original F5 Firepass Server in an active/active configuration & integration with ActiveCard AAA radius server for remote users authenticating with the ActiveCard digital identity tokens.

♦ Given the opportunity to evaluate, select & install 2 \* Cisco 4507 Chassis Core switches into NG Bailey's Leeds & Bradford data-center giving the core network & servers Gigabit connectivity & allowing room for future expansion in the core network.

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## PROFESSIONAL TRAINING

**CCNP/CCDP/CCNA Voice/Security Certification.** **Checkpoint CCSE Certification.**

**CCNA Data Center,** **BlueCoat Certified Proxy Administrator (BCCPA) Certification.**

## TECHNICAL BACKGROUND

▪ **Cisco OS:** Switch & Router IOS, Full Campus Design including PVST+ RPVST, MST, VTP, VLAN’s, SVI’s, Etherchannel, VLAN Trunking, Inter-vlan routing, CEF, HSRP, iBGP, OTV, DLSW, VRF, VRRP, OSPF, EIGRP, IPSEC, AES, SHA-1, 3DES, HMAC, DMVPN, GRE tunnelling, split tunnelling.

▪ **Firewall/Server/OS:** Checkpoint VSX, NGX & GAiA, R62, R65, R75, R76, R77, Nokia Voyager IPSO, F5 Firepass server,Active Card AAA server, Microsoft AD, DNS, DHCP, WINS & Terminal Server, BlueCoat proxy SG800 & AV400 servers, Websense OS, Riverbed Rois OS, MRTG, Whats Up Gold, Solarwinds CatTools, Skybox and Observer V12.

▪ **Hardware:** CiscoCatalyst-WS-C6509-E-VSS, CiscoCatalyst-WS-C6506-E, CiscoCatalyst-WS-C4507-E Cisco WCS server, Cisco Flex 7500, AIR-CT5508-50-k9, AIR-CT4404-50-k9 WLC, WS-3750X-24Ps-s, WS-3750G-12s-s, WS-c3560G-24ps-s, WS-c3850-24ps-s, WS-c296048tc-l, Cisco WAAS, Secure ACS 4.2, Cisco ACE 4710, Cisco 3825, 2851, 2951 voice-gateway, WLSE server, Cisco 7206, 2600, 1760, 1841, 1721, 877 & 837 routers, AIR-CAP1552E-A-K9, AIR-CAP2602I-E-K9, Cisco AP1131, AP1142 & AP1242, Nokia IP390, IP290, AP40 & AP30 firewalls, Cisco PIX 506E/SDM ver6.3, ASA 5510/5520/5585ASDM ver7,8,9 Checkpoint VPN Edge & Safe@Office firewalls, Aruba Wireless, Riverbed 5050 Series WAN Acceleration server, Tandberg 3000MXP & 1700MXP video conferencing units and BlueCoat proxy SG 800 & AV 400 servers.