



## SPECIALIST PROFILE

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### Personal Details

<i>Reference:</i>	KA001
<i>Job Title:</i>	Senior Network Specialist
<i>Nationality:</i>	British
<i>IT Experience:</i>	30 years
<i>Qualifications:</i>	BSc (Hons) Chemistry IBM Certified Tivoli Instructor
<i>Languages:</i>	Dutch and Spanish
<i>Availability:</i>	On request

### Overview

#### *Architecture and Products:*

AIX, APPN, CICS, CISCO IOS, CISCOWORKS, CONNECT:DIRECT, CS/390, DLSW, DLUR/S, DNS, FRAME RELAY, FTP, IBDE, IDNX, IMS, IPSEC, ISDN, LAN, LINUX, MVS, NCP, NFS, NPSI, OPEN EDITION, OS/390 (MVS), OSPF, PPP, PROTEON/OPENROUTE, PSS, ROUTERS, SDLC, SMF, SNA, SNI, SNMP, SYSPLEX, TANDEM, TCAM, TCP/IP, TELNET, TIVOLI, TIVOLI BUSINESS SYSTEMS MANAGER, TIVOLI NETVIEW, TOKEN RING, UNIX, VIPA, VLAN, VPN, VTAM, WLM, X.25, Z/OS (MVS).

#### *Programming Languages:*

ASSEMBLER, CLIST, REXX,

#### *Specialist Experience:*

Network design, evaluation and systems programming.  
Tivoli, VTAM and NCP implementation and support.  
SNA and IP networks implementation, customisation and support.  
NetView for z/OS and VTAM installation and customisation.  
TCP/IP installation and customisation for OS/390.  
SNA to APPN migration planning, testing and implementation.  
VTAM dump and trace analysis determination and resolution.  
Cisco configuration and consultancy.  
CiscoWorks evaluation.  
TBSM for z/OS instruction.



## Work History

### 2006-2012

Employed by a UK bank as a Senior mainframe network technician for Communications Server (TCP/IP, SNA/APPN) across multiple platforms (z/OS, AIX, Windows).

Lead technician for migration from 3745/NCP to IP based solutions e.g. IP- capable applications migrated to use TCP/IP, SNI to EBN/EE, Midrange devices to EE/APPN or Cisco SNASw/DLSW, 3270 access to z/OS TN3270 servers, Tandem/Token-Ring to EE (ICE/IP).

Enhanced availability and resilience using Sysplex Distributor and Generic Resources. Implemented z/OS Communications Server at z/OS 1.8, 1.10 and 1.12 levels, exploiting features such as IPsec VPNs, VLANs, VMACs, z/OSMF.

### 2005-2006

Employed by a UK bank as a Senior Network Specialist. Designed and implemented the IP and SNA connectivity for a datacentre upgrade (G5 to z-Series) which also included the creation of a new contingency site. Upgraded OS/390 2.10 to z/OS 1.6 and implemented IP for z/OS. Planned the migration of the IplS SNA environment to an IP/APPN/Enterprise Extender environment, including APPN Extended Border Node using Enterprise Extender over IPsec VPNs ready for go live.

### 2005

Contracted to a telecommunications company as a Network Designer. Worked on the firewall implementation, VLAN design and the design of SNA to IP solutions for a bank, including SNI to APPN, Extended Border Node and Global Virtual Routing Node.

### 2004-2005

Contracted to a major UK bank as a Senior Network Systems Programmer. Planned, tested and implemented a migration from SNA subarea to APPN connectivity. Changed the physical connectivity to include APPN channel-to-channel links, XCF links and Enterprise Extender links (non-CMC VTAMs were now pure APPN nodes, with PU2.1 channel connections to NCPs). Migrated NCP Token Ring devices to Cisco SNASw routers (using DLUR/S for dependant sessions and Enterprise Extender / Connection Network directly into the Mainframe. Gave presentations to the Network Support group on APPN, Enterprise Extender, Cisco SNASw routers and APPN flows as seen in traces. Advised a telecommunications company on IOS parameter changes for APPN (for example TG weights and 'Limited-Resource'). Worked on several projects regarding the migration of external customer connections from SNA to IP. Re-configured the end devices (IBM Communications Server for Windows, AIX and SNAPIX for AIX).

### 2002-2004

Contracted as a Tivoli Instructor in NetView for z/OS and TBSM having attained certification as a Tivoli Instructor in these subjects. Carried out several short-term communications contracts involving SNA and TCP/IP mainframe connectivity. Provided technical consultancy to a number of clients on communication protocols including SNA, TCP/IP, SDLC, Frame Relay and X.25. Configured Cisco ESCON-attached routers at a major airline. Consulted at a telecommunications company for APPN on Cisco routers. Converted an Alcatel FEP to an IBM FEP for SNA and X.25 access for a retail company. Undertook trace and dump analysis. Used hardware communication monitors as well as software trace tools and hardware knowledge of IBM 3745/3746 FEPs, plus a good understanding of Cisco networking technology. Provided consultancy on Cisco routers and Cisco IP Network.



#### **2000-2002**

Contracted to a large UK bank as a Senior Network Systems Specialist. Supported and implemented IP and SNA networks. Installed and implemented the communications server for OS/390 2.10, including OSPF routing (connected to Cisco CIP routers) using sysplex functionality, application VIPA and implemented IP applications (including TN3270E and FTP). Investigated IPsec VPNs (mainframe to mainframe and to RS/6000) using Secureway Firewall products. Performed IP and SNA network capacity planning exercises. Configured networking functionality for Linux on S/390 systems.

#### **1997-2000**

For an international airline, contracted as a Senior Network Specialist. Developed SNA and IP networks. Implemented NetView 3.1, Tivoli TME 10 NetView for OS/390 1.2, VTAM 4.4, NCP 7.6 and APPN in a sysplex environment. Undertook the implementation of a communications server for OS/390 2.5 and 2.8 with reference to TCP/IP in an OpenEdition (UNIX) environment (QE telnet, NFS, rexec, FTP and SNMP). Evaluated TN3270E and wrote a TCP/IP FTP exit to enable file transfer automation. Implemented the migration of TCP/IP on OS/390 from a 3172/static routing environment to a Cisco channel-attached router environment using dynamic routing protocols (RIP 2) and using VIPA in a sysplex environment. Investigated the use of DNS on OS/390 to improve availability of WLM to enabled IP applications (TN3270 and FTP). Undertook dump and trace analysis (TN3270 trace analysis and TCP/IP dumps).

#### **1997**

Worked for a telecommunications company as an APPN Consultant. Migrated a large banking SNA network onto a Cisco router network with SNA sessions using APPN and DLSW+ and dependent LU sessions using DLUR support (on 4500 series Cisco routers, branches using 2500 series and the mainframe connections via 7500 series routers using CIP connections). Provided a Cisco-VTAM command cross-reference for APPN. Evaluated CiscoWorks Blue network management tool. Devised a course on APPN in a Cisco environment and recommended network enhancements for an APPN / Cisco environment.

#### **1996-1997**

Worked for a Dutch bank within the Network Design group. Installed and customised VTAM 4.3 and NetView 3.1. Introduced APPN/HPR in a parallel sysplex environment and investigated NetView SNA Topology Manager. Installed TCP/IP 3.2 for OS/390 and 3746 customised this for IP and APPN. Introduced IBM 2210 routers for IP and SNA in a large SNA network. Migrated SDLC links to Frame Relay for SNA traffic.

#### **1995-1996**

Contracted to a large UK banking facility. Prepared technical reports detailing the mechanisms for the migration of various network connection types, including SNI, SNA, IP and ISDN. Migrated tracking techniques and wrote a VTAM USERVAR exit to write SMF records. Specified and ordered FEPs, communication lines and modems. Installed and customised VTAM 4.2, NCP 5.4 and 4.3.1, TCP/IP 3.1 (for MVS) and NetView 2.4 over a multi-site, multi-network environment. Supported dump and trace analysis and was involved with communication methods including SNI/SNA, leased line, ISDN and modem dial and TCP/IP (PPP dial, X.25 and local and remote LAN).

#### **1995**

For a facilities management provider, worked on the installation and implementation of IBM MVS TCP/IP 2.2.1 and 3172 to allow FTP and TN3270 access from UNIX and Windows. Supported the remote devices connected via Proteon routers.



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#### **1991-1995**

Employed by a large UK bank as a Senior Network Systems Programmer. Installed, customised and supported VTAM 4.2, NCP 7.1, NetView 2.4 and TCAM. Investigated and implemented APPN/subarea networking using current levels of network software. Undertook network problem determination including NetView/VTAM dump and trace analysis. Developed a number of network products including a NPSI/GATE fast connect VTAM application to allow PSS connected PCs to communicate with host applications (TCAM, CICS and IMS) without the overhead of LU-LU session set up. Developed a NPSI/GATE application, running as a NetView subtask, to provide network management of X.25 routers. Designed this subtask in order to emulate a propriety UNIX system with a simple NetView full-screen interface. Developed a NPSI LLCO application, running as a NetView subtask to provide network management (status, alarms and command/response) for a private X.25 network. Converted propriety alarms into generic alerts, providing full-screen status displays and a command interface using REXX execs. Customised NDM as part of the implementation of the SWITCH and IBDE networks and wrote a number of NDM exits and processes.

#### **1990-1991**

Worked at a large bank as a Network Specialist. Designed and implemented a new SNA network running over an IDNX backbone. Automated network generation procedures (via NV Clists and Assembler MACROS) to reduce the network maintenance. Converted IDNX alarms into NetView alerts and utilised V25bis support in NCP to improve the automation of network backup procedures.

#### **1989**

For an electronics company in Spain, developed an SNA network automation (prior to ANO). Automated a large number of CICS operator functions and network generation procedures.

#### **1988**

Contracted to a bank in Belgium as a Network Specialist. Designed a transfer of IBM mainframe services from Brussels to London. Undertook SNA network design. Provided MVS support and converted customised systems to standard SNA solutions. Converted EP RJE systems to NSI and instigated a tuning review of the SNA.

#### **1976-1988**

Worked at a number of sites in the UK and The Netherlands as a Network Systems Programmer. Performed duties including the development of a pan-European network, network support development and implementation and TCAM conversion (TCAM 10 to ACF/TCAM).