

**RESUME**  
**OF**  
**MIKE ANTROBUS**

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**Personal Summary**

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## **Introduction**

My name is Mike Antrobus. I have extensive and detailed experience in the computer industry, with a broad and in depth knowledge gained from involvement in major computer projects in the UK, New Zealand, Australia, Europe, Singapore and China. I have run my own consultancy business, The Village Computing Centre, contracting to major government departments such as the Department of Defence over the years at an EL1 level.

I have been involved in project management, operating system support, application support and network consultancy, system design, system integration, performance analysis and second and third level support.

The main areas of my expertise are:

- Providing technical input into the organization decision making process based on research from direct experience and interfacing with peer working groups within the organization and outside agencies such as application software suppliers and mainframe and communications hardware providers.
- Contributing to a team supporting a core communications network of Cisco routers and firewalls and Nortel switches and load balancers.
- Problem analysis and management of applications and communications situations, providing second and third level support in critical business operational environments and in a timely and coherent manner.
- Providing ongoing reporting on network activity and bandwidth usage for upper management and stakeholders concerned.
- Providing in-depth protocol analysis of TCPIP, RPC and HTML traffic streams to resolve application problem and performance issues.
- System integration of mainframe and enterprise servers into the core network, optimising the server topology, load balancing of pools of web servers and impact of new applications on the overall network bandwidth.
- Responsibility for communications support for the Unisys enterprise application server.

I maintain an internet presence for myself under my Village Computing site and also I am the web site coordinator for the MV Cape Don Society in a voluntary capacity.

I have installed an ADSL modem/router for my home office, maintaining a firewall in the router and a mini LAN network of terminals around the house over Cat5E cabling.

### Technical Summary – Network

- *Hardware/OS:* Cisco routers and firewalls and Nortel switches and load balancers, Juniper switches, Windows, Unix, AIX, IBM and Linux servers
- *Environment:* Large nationwide networks with TCPIP and ATM topology, international satellite links, inter-government department secure data links, synchronized remote databases, web-based applications
- *Communications:* Cisco OS and Nortel OS configuration, firewalls, VMWare, MRTG, Compuware NetworkVantage and ApplicationVantage, tcpdump
- Online HTML network reports using PERL and Dreamweaver, SNMP probes

### Technical Summary - System Integration

- *Hardware/OS:* Unisys Dorado 430 and IBM z/10 Application Enterprise Servers, Linux Servers, Sun Solaris, Windows 2003 Datacenter, Windows XP
- *Environment:* High volume transaction, 24 hour availability, large database multi-vendor systems, nationwide and international comms networks such as government agencies, the airline industry, Air Traffic Control systems, Web site development and Graphic Design.
- *Languages:* C++, HTML, XML, Unix, PERL, Java/J2EE, COBOL,  
*Databases:* SQL, Oracle, XML
- *Other Software:* Photoshop, Adobe Dreamweaver CS3, Linux (Red Hat and SUSE), MS Office

### List of experience by date:

1. [Oct 2000 - current - Department of Defence \(DCB\)](#)
2. [Jan 1998 - Sep 2000 - Unisys Australia at Australian Customs](#)
3. [Mar 1997 - Dec 1998 - Air Traffic Control, Germany](#)
4. [Dec 1993 - Feb 1997 - Unisys Australia](#)
5. [Apr 1990 - Nov 1993 - Unisys Germany](#)
6. [July 1989 - Feb 1990 - BMW Bank, Germany](#)
7. [Oct 1987 - Jun 1989 - Unisys Australia](#)
8. [Sep 1981 - Oct 1987 - Sperry Univac Australia](#)
9. [Feb 1976 - Sep 1981 - New Zealand Government](#)
10. [Aug 1974 - Feb 1976 - Howard Organisation UK](#)
11. [Jun 1969 - Aug 1974 - SCICON UK](#)

## **PROFESSIONAL EXPERIENCE**

- **Oct 2000 – present**

### **UNDER CONTRACT TO DOD, AUSTRALIA**

I am currently contacted to the Defence Computing Bureau (DCB), part of the Chief Information Office Group (CIOG) of the Department of Defence, Australia at an EL1 level. I have two primary roles:

- Providing communications support for the DCB core network that links the majority of Defence applications to the Australia-wide Defence Restricted Network (DRN) and providing network monitoring services.
- Responsibility for the communications support for the Unisys enterprise application server which hosts the ADFPAY system.

The group that I am contracted to, as an ICT consultant at an EL1 level, is the Communications Support Group of the Defence Computing Bureau (DCB). DCB is part of CIOG, the group within Defence that is responsible for ICT. DCB's role is to support the various application mainframes and application servers used by Defence, such as PMKeys (Windows & IBM), SDSS (IBM), ADFPAY (Unisys) and CAMM2 (Unix). I also provide the Unisys communications expertise for the ADFPAY system. There are also a number of web-based applications running Windows under VMWare which is the trend for most new application that are installed. Working in the Comms Support Group, I interface with each of the above groups to provide support and advice on connecting their applications to DCB's core network and then on to the Australia-wide Defence Restricted Network (DRN) of over 100,000 users. All application access has to go through our group and the core network of switches and firewalls that we support. I am involved in analysing bandwidth usage, network problem analysis and optimisation of network usage working closely with the other groups within DCB, DCB management, peer groups in the DRN and other sections of Defence as well as software and hardware suppliers. As part of the team, I advise on implementation of new applications and load balancing of web-based application servers. I provide online impact reports for new and existing applications, to provide a window on overall network operation. Being in a central role for network connectivity, we have a number of stakeholder relationships and can advise of how best to integrate the various applications into the overall DCB network.

As part of the DCB Communications group, I have developed network monitoring tools based on the widely used MRTG product, running on a Unix server. This is so as to

provide a window on the DCB core communications network of Cisco routers and Nortel switches and load balancers, re network capacity, line errors and threshold alerts, as well as providing another tool for network problem diagnosis. I also designed and wrote HTML web reports in Unix PERL and using Adobe Dreamweaver to display daily and historical reports of MRTG statistics.

The suite of monitoring tools I have developed as web based reports, includes:

- online patchlist reports for switches
- online communications inventory reports
- 'Where is my server?' online utility
- firewall log analysis – Top 20 hits
- syslog log reports
- online reports for all the Alteon Load Balancers showing number of users in total and on each of load balanced servers, for most of Defence web based applications

All the above reports access realtime data from the Cisco or Nortel switch, load balancer or log concerned.

I have installed the Compuware suite of programs for monitoring the communications network at the DCB, including ApplicationVantage and NetworkVantage. Working closely with the Defence Performance Group, I provide network performance analysis from a DCB perspective, as well as network application problem analysis from the DCB host end for user sessions across the DRN Defence network.

With the above tools and general application and network expertise, I am able to provide valuable technical input to higher management, peer groups and software suppliers and provide reports as required. As an example, I provide reports on bandwidth usage for a major project to replace the SDSS application with MILIS, a new web-based application involving DMO and the software supplier. These reports highlighted that the size of the Java libraries on the initial logon will have to be optimised before heading into production.

As part of the DCB Unisys support team, I have maintained the high availability of the Unisys environment to ensure the regular bi-weekly ADFPAY run processes on time and that ADFPAY maintains communications links with the RBA, ComSuper and the transfer of pay information to PMKeyS personnel system. The communications environment also includes links across the Defence Restricted Network (DRN), to most ADF sites around Australia and RAN ships (as they dock into port). Input into the ADFPAY system is from ADFPAY servers at these sites, to the Unisys enterprise application server. I have been able to provide support, performance analysis and resolution to problems from the mainframe to the user, interfacing with other DCB personnel and the ADFPAY support team in Campbell Park.

We recently migrated the Unisys enterprise application servers to the latest hardware platform, the Dorado 430, which involved myself in migrating the communications software components from the Unisys OS to Linux SuSe10 Open-Software base.

I was also involved in a Defence-wide performance evaluation of the ADFPAY system and provided the underlying application design and some of the options for performance improvement to the group involved. I was able to put forward the plan to give priority to the rollout the Unisys Dorado 430 upgrade into production, which has a seven-fold increase in CPU power. This has alleviated the immediate performance issues for the ADFPAY users and allowed time for a more measured look at possible application rewrite options.

I currently have clearance to SECRET level.

**PROFESSIONAL EXPERIENCE (Cont...)**

- **January 1998 - Sep 2000**

**UNDER CONTRACT TO UNISYS AUSTRALIA**

Trading as The Village Computing Center, I provided computer consultancy services to Unisys Australia. I was primarily working at the Customs Australia offices supporting the main transaction systems. My specific responsibilities were communications and application support. I assisted in the migration of their nationwide network of Customs Brokers from an OSI-MHS X400 environment to a TCP/IP client/server architecture. While I was at Customs, we move the production system from Canberra to a Sydney with a backup system at Canberra for disaster recovery. My contribution was to evaluate the communications approach, migrate the production network to the new site and assist Customs/EDS in band width performance analysis of the Optus ATM link between Canberra and Sydney. From my broad knowledge of not just Unisys software, I was able to assist and liaise with various levels of Customs/EDS and Unisys management in achieving a successful transition of the production main frame in good time prior for the Olympics deadline and without loss of service to Australian Customs clients.

Before this, I was involved in working with the customer on their Y2K and GST implementation for Customs Australia.

In consultation with EDS personnel, I have also been involved with evaluating Web Enabling methodologies such as BEA Tuxedo to interface with Customs network of import/export agents. Also undertook comparative studies on CA's Cool-gen software.

**PROFESSIONAL EXPERIENCE (Cont...)**

- **March 1997 - December 1998**

**UNDER CONTRACT TO DEUTSCHE FLUGZEUG SICHERUNG (DFS) IN GERMANY**

DFS is the semi private government department responsible for Air Traffic Control over German air space similar to the function of the Civil Aviation Authority in Australia. This is the same project I worked on between April 1990 and November 1993 when DFS was BFS. This time I was contracted to the customer instead of Unisys Germany. The main applications for DFS provide scheduling and management of all flight plans over German air space and NOTAM (Notice to Airmen) message delivery.

My main responsibilities were to run transaction regression scripts against new release levels of these applications before they are installed into production. This involved an overall understanding of the DFS application from radar site to air traffic controller. While I was there, I rewrote the Regression Tool suite of programs to run regression and provide comparison reports of new regression runs against previous baseline reports. I optimized the turnaround time from 2 days to 4 hours. I was also application owner for other support applications such as STARTUP/RECOVERY which I developed on the previous visit to Germany.

The Regression Tool figured prominently in DFS activities for Y2K certification following industry recognised Y2K methodologies. Air Traffic Control is near the top of the list in the public perception of Y2K problem areas at the time and DFS has given high priority and applied strict criteria to achieve Y2K certification.

**PROFESSIONAL EXPERIENCE (Cont...)**

- **December 1993 - February 1997**

**THE VILLAGE COMPUTING CENTRE CONTRACTED TO UNISYS AUSTRALIA**

UNISYS 2200/946, UNISYS 2200/500, DCP's, LAN'S, WAN'S, SNA/NET, X25, TCP/IP HVTIP, UCOB-NPE, RDMS, LINC

Trading as The Village Computer Centre, I was contracted to several divisions of Unisys such as Unisys Asia Pacific Theatre Customer Support Centre (APTCS) which involved onsite support 2 days a week as a Computer Consultant at Australian Customs. This includes 'fly and fix' support as needed for other Unisys sites in Australia and overseas in the Asia Pacific region. I also had a contract with Unisys Information Services (UIS) for 2 days a week for EXEC and Comms software support at the Defence Computer Bureau at the Department of Defence.

Tasks include:

- providing Unisys expertise as part of software maintenance agreement between Australian Customs Service and Unisys involving problem analysis and the software installation support for Unisys products.
- OS1100 problems, e.g. OS1100 memory paging problems related to TIP transaction memory configuration on the 2200/900 systems
- assisting ACS personnel in resolving multi-vendor communication problems.
- assisting ACS software support in resolving application software type problems
- support of EDI MHS X.400 application to Unix gateways
- migration to the latest levels of EXEC System Base release
- meeting the customer's service level agreements for system availability.
- providing training courses and on site support for installation of Cathay Pacific's new site in Sydney.
- Fly and Fix support for China Airlines USAS reservation system in Beijing to resolve a transaction performance problem.
- daily use of email system and problem tracking systems
- on site consultancy, 2 days week at DOD for EXEC and multi-vendor communications support issues, problem analysis and customer UCF processing.
- Ad hoc contracts to provide customer education for Unisys Education Department at sites such as Cathay Pacific, Qantas, EDS NZ.

**PROFESSIONAL EXPERIENCE (Cont...)**

- **April 1990 - November 1993**

**UNISYS GERMANY - SYSTEMS CONSULTANT, INSTALLATION PROJECT SUPERVISOR UNDER CONTRACT TO UNISYS**

3 x Unisys 2200/600's, SB3R6 - SB4R1, DCP/50's X25, RDMS, UCOB-NPE, Hot Standby, Shared Application Recovery

I was involved in a major hardware and software upgrade for BFS, the German Air Traffic Control system in Frankfurt Airport. The BFS system is responsible for control of all civil flights over German airspace and provides support systems for air traffic controllers, such as flight path scheduling, generation of flight strips for aircraft landings and flight destination and arrivals information on a 24 hour basis.

The project involved migration of existing applications from Unisys 1100/80 series computers and pre System Base levels of system software to Unisys 2200/600 series and latest SB releases. This involved eliminating large amounts of local code, especially in CMS7 and rewriting their main applications in NPE UCOB as HVTIP transactions.

I was responsible for providing automatic startup/recovery procedures for any type of system outage, and application maintenance support programs for installing, updating and de-installing BFS transaction applications from a single application tape. Each application could be run in various modes, such as production, school mode, regression and testing mode. The recovery criteria were to re-instate production mode application transactions within 30 minutes including a system reboot time. The application maintenance function interfaced to a program source control and application generation system, widely used within Germany.

I was involved in various aspects of the phases of the project from the early design stage to system installation and acceptance.

These included :-

- feasibility studies on migration of local code in CMS7 to standard integrate recovery products and UCOB-NPE programs for special transaction message processing
- design, code, test system startup/recovery procedures and application maintenance system
- run customer acceptance tests on various aspects of the system software
- assist the quality assurance group in attain customer acceptance

**PROFESSIONAL EXPERIENCE (Cont...)**

- **July 1989 -February 1990**

**BMW BANK, MUNICH WEST GERMANY - SYSTEMS CONSULTANT,  
PROJECT MANAGER SYSTEMS SOFTWARE ON CONTRACT TO BMW**

UNISYS 2200/404, UNISYS 1100/72, DCP/20's PC's, SNA, HVTIP,  
DMS, RDMS, SB3R3

Tasks included:

- providing software support for installation and phase over of production to 2200/404 as sole onsite Unisys consultant
- detailed transaction and system performance analysis, identify and implement performance and stability recommendations in TIP, HVTIP, RDMS and DMS environment
- provide software problem analysis for OS1100, TELCON, SNA, TIP environment and assist in DMS and SQL/RDMS and application problem analysis
- generating SQL/RDMS database tables
- developing in PLUS, a TELCON CENLOG analysis program to report on line and terminal error statistics
- modify an RDMS PLUS program to statistics similar to DMS DBE utility for SQL/RDMS database files
- recommend and implement operator procedures
- migrate customer applications from TIP COMPOOL to MCB and review recovery procedures and run streams
- supervision of JK13 initialisation boots on the TEST and PRODUCTION systems
- plan migration of TEST system to co-exist as an application on the PRODUCTION system on the 2200/404
- installation of IS6000 on a UNIX 6000 series system connected to the DCP communications network

**PROFESSIONAL EXPERIENCE (Cont...)**

- **October 1987 - June 1989**

**UNISYS AUSTRALIA - COMMUNICATIONS CONSULTANT**

UNISYS 2200/200, DCP/15'S, IS-PC, X25-PDN, X32, SNA, TNAS, ETHERNET, TCP/IP

Tasks included :-

- involvement with several major RFT's for DOD and ATO, follow-up questions and benchmark, demonstrating the latest UNISYS communications products at the time, such as OSI compliant software on the 2200 series as a central hub connected to smaller distributed 2200 systems and office LAN's.
- fielding questions on SNA connectivity and provide demonstrations of OSI capabilities using X25 networks through IS-PC products, DCP TELCON and 2200 host connections
- evaluation of TNAS, a network management tool used by Lufthansa for DOD

**PROFESSIONAL EXPERIENCE (Cont...)**

- **September 1981 - October 1987**

**SPERRY UNIVAC AUSTRALIA - CUSTOMER SUPPORT MANAGER - CONSULTANT**

UNISYS 1100/94, UNISYS 1100/93, DCP/40'S, X25 TELENET, TP4000'S, PRIME MINIS, SNA X25-PDN LEVEL 4 DEVELOPMENT

Tasks included :-

- Involvement from the start of the Australian Customs Service (ACS) project from installation to production implementation, initially on 1100/84 and later migrating to 1100/93 series
- beta testing for first CMS1100 and MCB1100 products for ACS project comprising new Integrated Recovery Environment on 1100 series
- Project Manager for a team of 12 systems analyst involved in installing standard software products on the 1100 series systems for ACS. Involved in day-to-day project management and problem resolution on 24 hour nationwide system - implementing liaison meeting with ACS personnel.
- management of several system upgrades at various stages of the ACS project, resolution of technical issues and meeting customer deadlines - Special Software Project Manager responsible for the development and implementation of X25 code in DCP TELCON for Level 3 and Level 4 based on Unisys's pilot PSCS product using ISO Level 4 specifications
- interfacing to PRIME minis for TP4000 network management which made up an nation wide X25 PDN for ACS
- developing and implementing local TELCON software to support special AWA terminal and printer support over the X25 PDN for ACS
- upgrade X25 special software to new levels of TELCON and CMS1100
- provide SNA connectivity through TELCON SNA/NET

**PROFESSIONAL EXPERIENCE (Cont...)**

- **February 1976 - September 1981**

**NEW ZEALAND GOVERNMENT / SPERRY NEW ZEALAND - CHIEF SYSTEMS PROGRAMMER - PROJECT LEADER**

UNISYS 1100/82,1100/60, CSP'S, DCP/40'S

I worked at the Wanganui Computer Centre, which provided a 24 hour nationwide communications network for the Police and Justice Departments of the New Zealand government.

I was responsible for a team of programmers supporting OS1100,database and Comms software. I was involved in the initial installation and implementation of hardware and software systems at Wanganui.

Joined Sperry New Zealand, still based at the Wanganui Computer Centre and involved in several hardware and software upgrades such as the migration to the 1100/82 series and replacement of Cusp's by DCP/40's.

- **August 1974 - February 1976**

**HOWARD ORGANISATION, UK - OS1100 SUPPORT CONSULTANT**

VARIOUS UNISYS 1100 SITES

On contract to UNIVAC, Spain as OS1100 software support, problem resolution and performance analysis at various sites around Madrid

On contract to UNIVAC, Belgium as OS1100 software support, involved with installation of several 1100/60 series systems around Belgium.

- **June 1969 - August 1974**

**SCICON COMPUTER BUREAU, UK - SYSTEM ANALYST**

UNIVAC 1108'S AND 1106

I was responsible for OS1100 for SCICON's two UNIVAC 1108's. I assisted in the development of an accounting system for billing bureau users based on OS1100 System Log. I was involved with some of the early packet switching experiments run by the British Post Office using SCICON's computer. I installed SCICON accounting system on an 1106 in Singapore for Development Bank of Singapore.