



**Centre for
Securities
Industry
Strategy**

Jeff Yancey

EXCHANGE ARCHITECT

Nationality: Australian/U.S.A.
Immigrated to Australia in 1984

**Educational
Qualifications** B.A (magna cum laude), MS.c Computer Science – University of California.

Overview: Jeff has over twenty five years in the I.T. industry specialising in the design, development and implementation of medium and large scale technical systems, secure application software and real-time, high volume transaction processing and communication systems. The skills developed over these years extend beyond the technical areas to include:

- Budget planning including capital equipment and human resource.
- Capital specification and acquisition, vendor selection and negotiation.
- Team selection.
- Board level presentations, submissions and sub-committee reporting.
- Specification and implementation of development, test, quality assurance and production environments.
- System integration planning and execution.
- System Test planning and execution.
- Planning of overall on-going support requirements including organisational structures, roles and responsibilities.
- Implementation and roll-out planning and execution.
- Management of internal and external audit relationships.
- Internal and external business and technical user group liaison.
- Development of the external interface specifications, testing procedures and environments.
- I.T. security consulting and planning.



Key Skills: Specialising in strategic technical architectures, software development project management and implementation. Jeff has broad experience in the global securities, telecommunications and technology development industries.

Jeff's key skills include:

- Technical strategic planning based on corporate business strategies and directions.
- Technical Audits of software development projects.
- Development of technical architectures which provide the basis for product development.

Recent Relevant Experience:

- Senior Consultant** Australian Mezzanine Investments, AMWIN and Newport Capital Pty. Ltd. are venture capital companies that provide funds for high technology companies.
- Australian Mezzanine Investments Pty. Ltd.** In this role Jeff provides technical due diligence services that focus on the following aspects:
- Analysis of the software architecture with a focus on extensibility, scalability, performance and functionality.
 - Development methodology
- AMWIN Investments Pty. Ltd.**
 - Development and support staff capabilities
- Newport Capital Pty. Ltd.**
 - Engineering disciplines used during the system development life cycle
 - On-going support and development capabilities
 - Competitive position
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- Consulting Architect** The Australian Stock Exchange asked Jeff to provide advisory services as a Consulting Architect for the SEATS Trading Processor redevelopment and Foreign Market Linkage (FML) projects. In this role Jeff provided the following services:
- The Australian Stock Exchange (ASX)**
 - Selected and lead a team of ASX architects in the development of a technical architecture that supports new and flexible trading models, increased capacity and order routing capabilities.
 - Designed as the principle component of the new architecture, a generic Order Management System (OMS) that was capable of routing orders both internally and externally. Through the use of different protocol adapters, ASX has the potential to quickly establish trade linkages with other Exchanges.



- Part of the project also included the specification of external adapters that supports FIX 4.2, SWIFT and ASX Open Interface message protocols.
- Developed extensions to the FIX specification that supports Exchange trading functions. These extensions have been subsequently submitted to the FIX committee for consideration of inclusion into future FIX specifications.
- Provided the initial technical liaison between ASX and Singapore Stock Exchange until an internal ASX resource could fill this role. In this role, Jeff gained agreement on the functionality that would be initially supported by each Exchange as well as the extensions to the FIX protocol that would underpin mutual trading activities.

Manager, Technical Architecture

Cable & Wireless OPTUS

C&W OPTUS is Australia's second largest telecommunications carrier. As Manager for Technical Architectures and Infrastructure, Jeff provide the following services:

- Responsibility for the technical architecture associated with C&W OPTUS software developments and product acquisitions that supported strategic business directions. The technical architectures covered a range of environments including platforms, networks, middleware services, desktop, security, management and control and application enabling services.
- Responsibility as Programme Manager for strategic middleware architecture. The middleware architecture incorporated CORBA, MOM and COM/DCOM mechanisms for application integration.
- Delivery of development and standards specifications, a competency centre and baseline enterprise wide services including security, scalability and persistence.
- Evaluation of new technologies that could be incorporated into the C&W OPTUS Standard Operating Environment.
- Responsible for the proposal and subsequent Board approval for launching a \$40 million strategic initiative for the migration away from a Macintosh based desktop to a NT and Citrix Metaframe Thin Client technology environment.

Chief Architect

Australian Stock Exchange

Jeff was initially contracted by the ASX to assist the National Manager of Information Systems in developing a strategic plan for the next generation of Equities Trading Systems. In this role Jeff,

- Consulted the various internal and external stakeholders for their requirements with a view to create a generic trading platform capable of trading not only Equities but also any other financial trading instrument.
- Collected, distilled and extended requirements that led to the development of a strategic Trading Systems Concept paper that was presented to ASX Board of Directors. A \$23 million project was commissioned by the Board for the development of a new Trading System, which would ultimately replace the existing SEATS Equity trading system.



Jeff was then asked to participate in the new project as Chief Architect whose responsibilities included:

- Development of the technical architecture of the new system, which included a reliable, high volume and scalable message delivery system utilising IP multicast technology, a sophisticated Equities Trader Workstation and Open Interface message based Gateway.
- Specification and implementation of the hardware and software environments necessary to support the development, test, quality assurance, production and post-production support areas.
- Participating as technical consultant to the team responsible for the design and specification of the secure and reliable message routing and system control components for the Chess (Clearing House Electronic Sub-Register System) development project.

CEO Jeff was the founder and CEO of Cubic Systems Pty. Ltd., which specialised in VAX/VMS security software and consulting services. Cubic's premier product The Security Toolkit sold over 5000 copies world-wide with sales in excess of USD\$10,000,000 before its sale to a United States firm specialising in system management and security software.

Cubic Systems Pty. Ltd.

Consultant Consultant to the Reserve Bank of Australia with responsibility for the determination of the requirements and solutions necessary for the automated trading of Commonwealth Securities and interfacing with Austraclear. This involved the analysis of the RBA's methodology and impact of automation on security transactions.

Reserve Bank of Australia)

Consultant Consulting Architect and Principle Developer for the design and development of the real-time ground station antenna and satellite telemetry control system for Aussat.

Aussat Pty. Ltd.

Consulting Developer Consulting Developer responsible for the design and development of sophisticated device driver and microcode software used for real-time data acquisition and communication sub-systems for Digital's CSS group (Computer Special Systems).

Digital Equipment Corporation

Consulting Software Engineer Consulting Software Engineer to Digital Equipment Corporation's High Performance Systems Group for the development of DEC's 8000 series processors. Responsible for the VMS cluster certification testing which also included providing the management and technical interface between various groups including the VMS and DECnet development organisations. Other responsibilities included the selection and integration of new computer technologies used in the installation, support and development of new VAX

Digital Equipment



processors. Jeff was also responsible for the development of sophisticated device drivers (16 channel full DMA terminal controllers, high speed 16 channel DMA I/O controllers and high speed inter-processor interconnects) for the VMS, RSX-11 and RT-11 operating systems.

Consultant Jeff has also provided security and system development consulting services and training to a large number of international EDP audit and consulting firms (PriceWaterhouse-Coopers, KPMG, Deloitte, Touche Ross). In addition Jeff has provided similar services to Digital Equipment Corporation (USA and Europe), Interpol (The Hague), Australia Parliament House, the Reserve Bank of Australia and NASA.

Jeff is also an invited speaker and chairperson to many national and international EDPA (EDP Auditors Association) conferences.