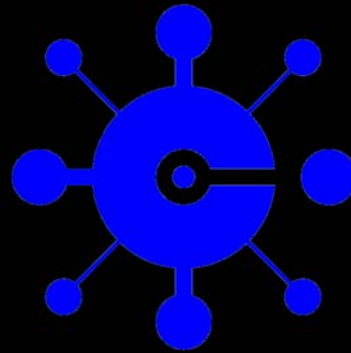


Enterprise Architecture using Centruflow™



Steve Dickinson
Abstract Engineering Limited

steve.dickinson@aeiou.co.nz

© 2005 Abstract Engineering – Commercial in Confidence

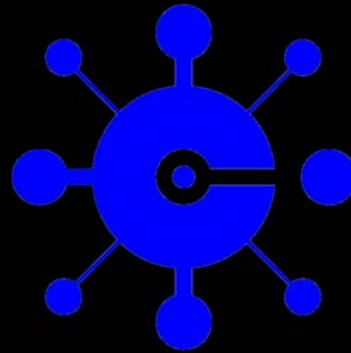
AE
Abstract
Engineering

**Information
Organisation
Understanding**

"A company is a multidimensional system capable of growth, expansion, and self-regulation. It is, therefore, not a thing but a set of interacting forces. Any theory of organization must be capable of reflecting a company's many facets, its dynamism, and it's basic orderliness"
Albert Low, Zen and Creative Management

"An intrinsic relationship between two things A and B is such that the relationship belongs to the definitions of basic constitutions of A and B, so that without the relation, A and B are no longer the same things"
Arne Naess, The Shallow and Deep Ecology Movements

"The most fundamental phenomena in the universe is relationship"
Jonas Salk



"Build to adapt not just to last"
Smith, Fingar. BPM 3rd Wave.

"Reality will not be still"
Marilyn Ferguson, The Aquarian Conspiracy

"With most things, the average is mediocrity. With decision making, it's often excellence. You could say it's as if we've been programmed to be collectively smart"
The Wisdom of Crowds – James Surowiecki

"Luck favours the prepared" The Incredibles

Agenda

- A bit about me, Abstract Engineering and Centruflow
- Key Concepts behind the design
- Demo
- Architecture
- System Context
- Competition



About Steve Dickinson

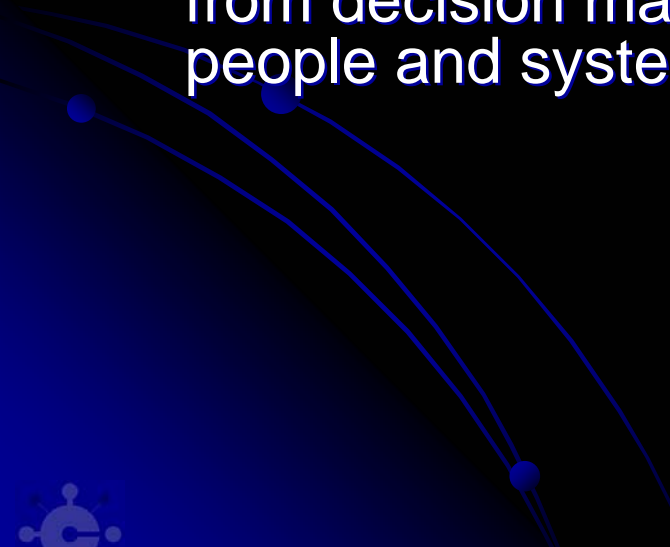
- 20 years in the IT Industry
- Moved to New Zealand in August 2003
- Spent 8 years working for IBM UK Ltd based at Hursley Park
 - Certified IT Architect: Application Integration Specialisation
 - Member of the UK Technical Resource Team
 - Received Outstanding Technical Achievement Award for developing iTV offerings
- Spent 18 months working for Certus Solutions in Wellington
- I formed Abstract Engineering in 2004 with the sole objective of creating a product that could combat a communications problem I have encountered time and again on IT projects...
 - What I really need is...
 - "a way to allow the creation and sharing of trusted information models which reveal relationships and the impact of change"
 - I never planned to develop a product...
 - The company is basically "A product development organisation offering implementation and consultancy around the core product offerings"

About Abstract Engineering

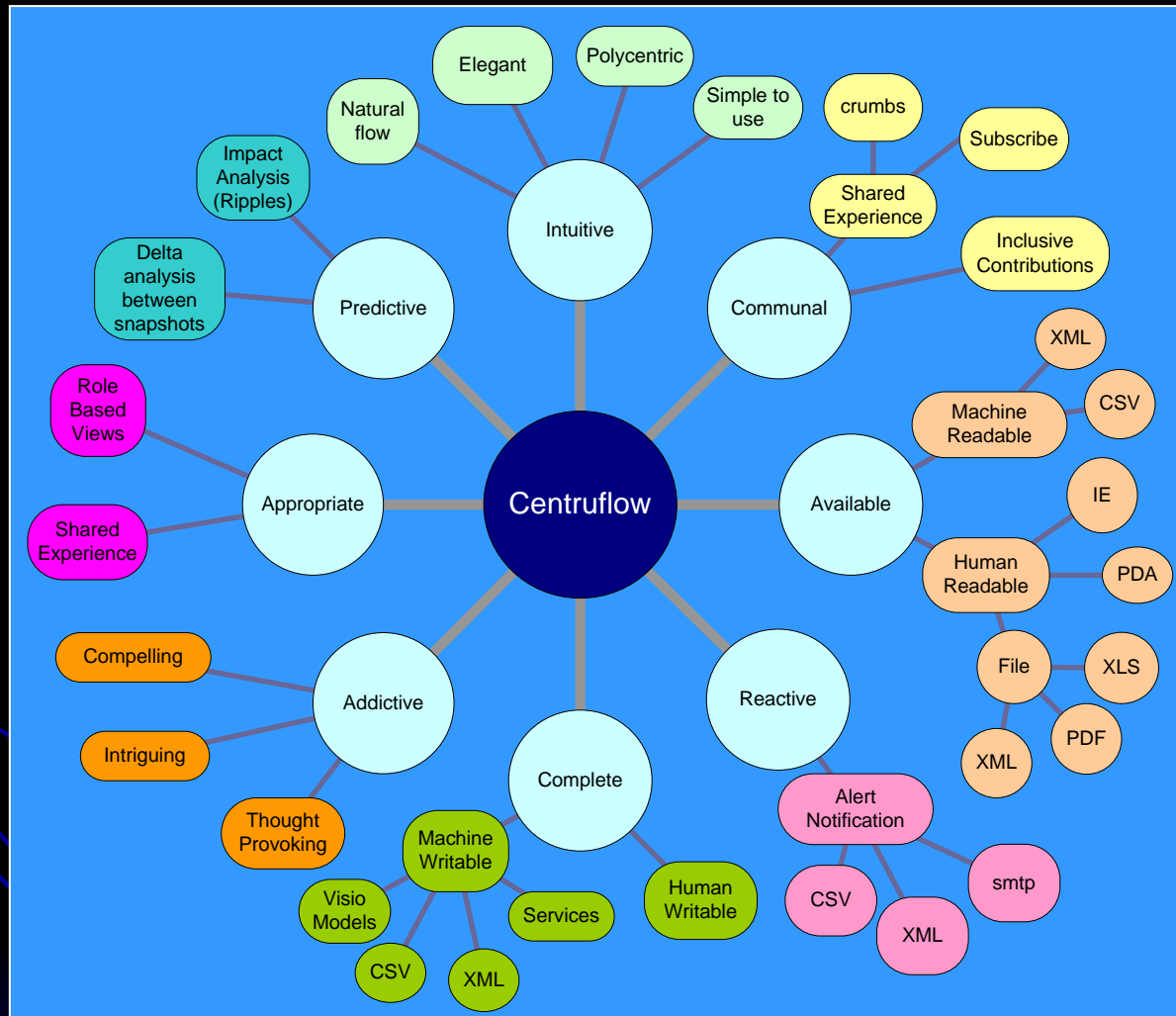
- The story so far...
 - Formed in late 2004 with initial focus on Research and Development activities
 - Patent filed 13th December 2004
 - Trademark 'Centruflow' accepted 2nd February 2005
 - Prototype completed March 2005
 - www.centruflow.com available June 2005
 - Release 1 beta available for August 2005
 - Today - Several early adopter customers are using Centruflow and to providing valuable feedback for GA Release
 - Release 1 GA planned for January 2006
- Partnerships
 - IBM Business Partner (ISV) Equinox Associate
 - Certus Solutions Associate (Services) Diligo Consulting Associate (Services)
 - Altova (XML Tools) Consultant Partner
- Centruflow support services currently being established
 - 0800 number, Newsletter
 - www.centruflow.com extension to include online demo and license download
- Infrastructure currently being established
 - Power 64bit stress and demo environment Intel 64bit stress and demo environment
- Other work in progress:
 - John Zachman Collaboration Gen-i Association
 - SolNet Association BEA Affiliate Member
 - Novell Partnership Oracle Partnership

Centruflow™ – What's in a name

- Centruflow provides a **central** point of **trust** to greatly increase the efficiency of information sharing and knowledge **flow** within your organisation
- It uses community based visualisation technology to present the truth about past, current and future information to remove ambiguity and misunderstanding from decision making and communication between people and systems



Centrflow™ Key Concepts



Centriflow™ has been designed to help you with the following questions...

- Situation Analysis
“What do we currently have and why”
- Decision Making
“What choices exist and which is best for the entire business”
- Roadmap Planning
“How do we get to where we want to go”
- Governance and Direction
“How can we keep on track even as unplanned events occur”
- Inadequate solutions to the above
 - Spreadsheet – you can't see the relationships easily
 - Visio – you can't enforce discipline
 - Rose/Popkin SA/Tivoli/WBI Modeler – all target a specific type of user, they are 'domain specific' and not suitable for wide spread use across the organisation
 - Bespoke database...

Recognize any of the following problems?

- The total amount of information available upon which decisions are made has passed the point where conventional communication and information management methods are adequate. No single person can be expected to know everything and those that do are over exposing the business and putting themselves under unnecessary stress.
- Lack of a single reference point for information that you or your team can trust and access quickly in order to make informed decisions.
- Information is locked away in models that can only be accessed by a specialized minority. When the information is made available to the wider community it is in the form of static printouts which quickly lose their currency.
- Valuable information is spread across your project or organization in documents and spreadsheets which quickly become outdated, obsolete and mistrusted.
- Version control is a continuing battle as audit mechanisms fail to trace changes at all levels of detail and no adequate mechanisms exist to compare information between two points in time.
- There is a proliferation of unstructured and static diagrams on whiteboards and held in mind maps and presentations.
- Lots of time is wasted during meetings because people with different perspectives on the same thing cannot agree on either terminology or levels of abstraction.
- The success of your project is dependant on the knowledge retained by a few individuals and do those individuals get frustrated that they are constantly having to repeat themselves and never get time to actually make any progress.
- People generally want to share information and collaborate with others to establish the optimum way forward but do not simply because of inadequate and often complex systems.

Centrurflow UI Concepts

- The design should be intuitive and stimulate visual thinking
- No predetermined agenda for the user's experience with no pre-planned expectations or paths
- Fluid representation allows the user to concentrate on the content rather than the interface.
- Provides an environment for dynamic modeling in which the user defines the depth, scope and meaning of the information and relationships, rather than trying to pre-define the perspectives using fixed point of view notation and style
- By creating a dynamic spatial map of information and relationships between information users can follow their own train of thought and create threads which can be shared between user communities



Physical Architecture

Tested Platforms

Windows IE 6 Browser
Firefox
Standalone Java Application

http/https

Windows XP, Windows
2000/2003, SuSE Linux 9.3
Tomcat 5.0.28, Apache 1.3.33
IBM WAS 6

MySQL 5.1*, IBM DB2 8.1



Target Platforms

Multi-channel
Pervasive Devices

Standalone
Internet, Intranet, Extranet

Java compatible hardware
Linux, Windows
Any J2EE Servlet Container
(Oracle, BEA WebLogic)

Oracle, Firebird

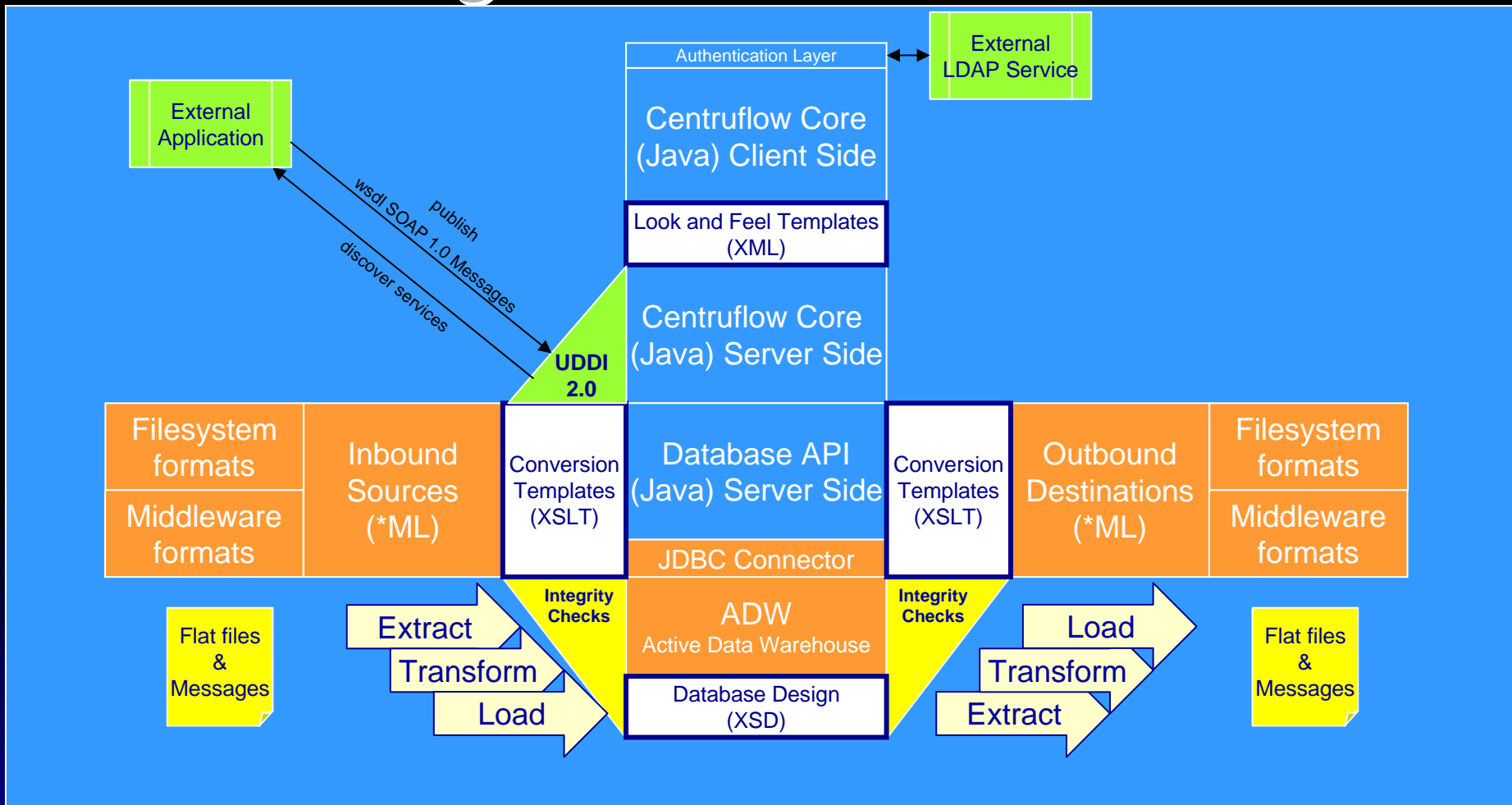
* From http://www.tometasoftware.com/mysql_vs_sqlserver.asp

"The catch is, if your program, application or web site is using MySQL as the data management tool, the source for the program *must* be in the GPL (General Public License). This means that any program written to manage a MySQL database must be made public for all to see. This could pose some major conflicts with any business that is handling proprietary information of any kind. So, free is not always free!"

Target Implementations

- Intel Pentium Architecture (x64 Intel chipset)
 - O/S: Windows Server 2003
SUSE LINUX Professional 9.3
or SUSE LINUX Enterprise Server 9 (SLES 9)
 - J2EE: BEA WebLogic 8.1 SP4
IBM Websphere Application Server Express Edition 6
 - DB: DB2 UBD Express Edition 8.2
MySQL 5.0.3
Oracle 10g
MS SQL Server 2000
- IBM OpenPower Architecture (64 bit Power 5 chipset)
 - O/S: SUSE LINUX Enterprise Server 9 (SLES 9)
 - J2EE: IBM Websphere Application Server Express Edition 6
BEA WebLogic 8.1 SP4
 - DB: DB2 UBD Express Edition 8.2 or Oracle 10g for SLES9

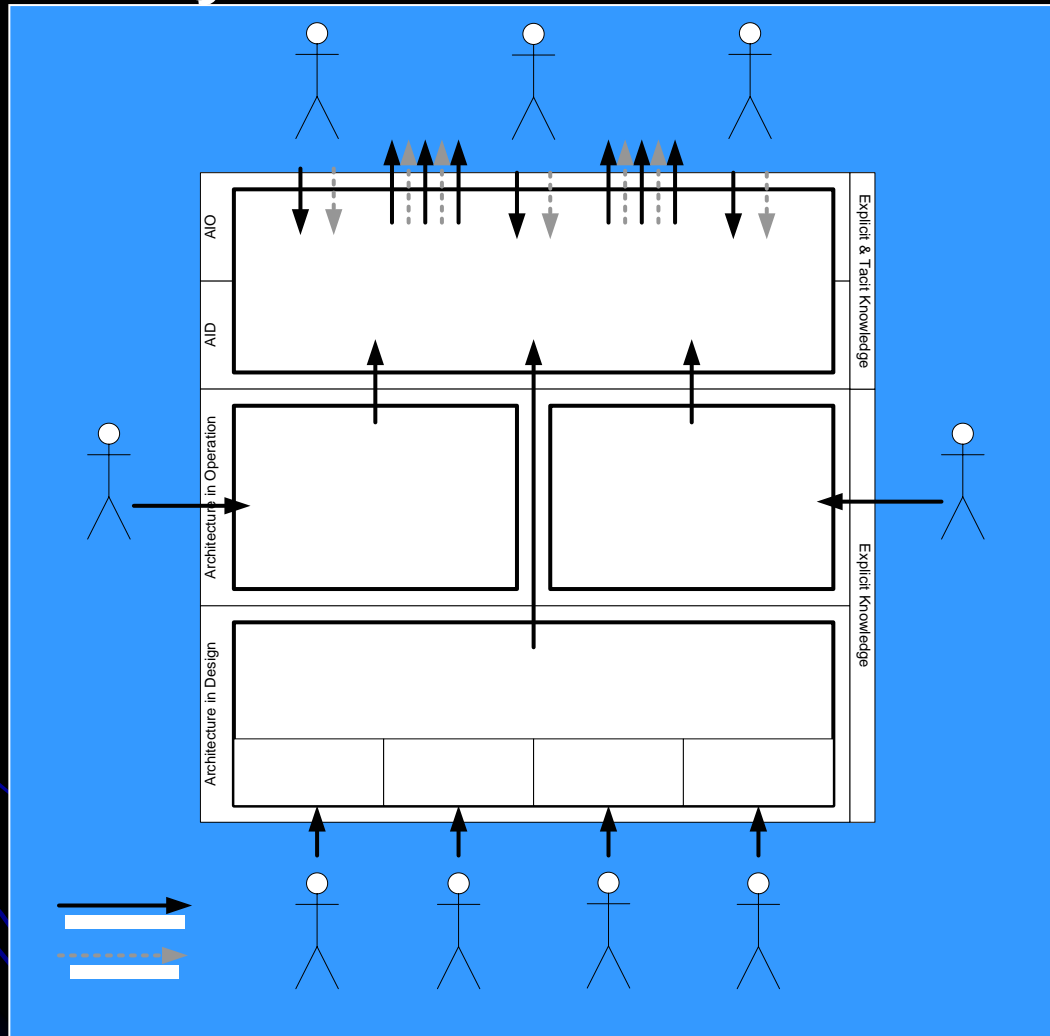
Logical Architecture



ADW Intent: Real time or near real-time refresh cycles
 Blending of tactical (operational) and strategic (planning) data
 ADW Purpose: Increase the speed and accuracy of decision making

(Source: DB2 Magazine Q1'2005)

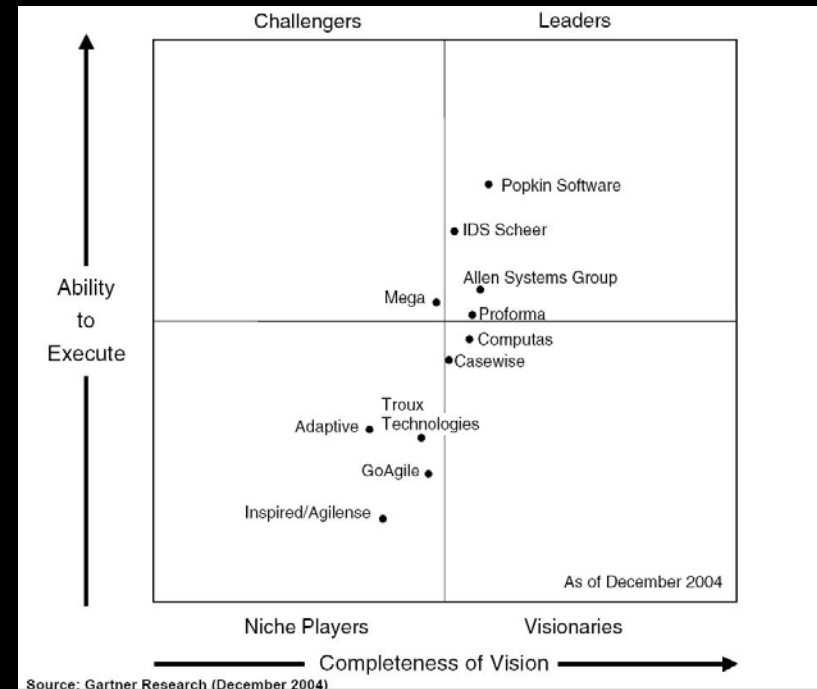
System Context



Gartner and Forrester Comments

- Gartner

- The enterprise architecture tool market is changing rapidly. Not only are the established vendors enhancing their tools to more fully address enterprise architecture requirements, but new participants are also making products available



- Forrester

- “Companies that use tools to represent and manipulate business models more flexibly – and to share that process more widely in the enterprise – stand to gain a clear competitive benefit from faster decision making and more engagement among employees”
(May 9 2005 – *New Graphical Approaches for Representing High Level Business Models*)

Comparative Matrix

Supplier	Offering	Platform	Domain	Proposition	Observations
Abstract Engineering	Centrflow	Java (Windows/Linux)	All	Shared Model across multiple domains	IMHO
Adaptive	Ent.Arch. Manager		IT Architect	Strong Repository and good integration	No Visual Model
Allen Systems Group	Rochade	Windows	IT Architect	Strong repository	High End
Casewise	Corporate Modeler	Windows	IT Architect	Good visualisation	Single domain, weak integration
Computas	Metis	Windows	IT Architect	Good visuals and reporting	Single domain
Agilense	Model Mangr	Windows	IT Architect	Good visuals	Fixed structure
IDS Scheer	ARIS	Windows	Bus.Analyst	Process Modeling	Single Domain
Inspired-Agilense	EA WebModeler	Windows	IT Architect	Single repository for EA Arctifacts	Poor Visualisation and single domain
MEGA	Mega	Windows	Bus.Analyst	Process control & Governance	Weak import/export
Microsoft	Ent.Architect	Windows	IT Architect	Low cost visual modeling	Closed community
Popkin Software	Sys.Architect	Windows	IT Architect	Single modeling environment	Closed community
Proforma	ProVision	Windows	Bus.Analyst	Process Modeling & Reporting	Single Domain
Troux Technologies	Troux	Windows NT, Windows 2000 and Sun Solaris	Architects	Leading edge audit and reporting capabilities	Fixed layouts

The End

Steve Dickinson
Abstract Engineering Ltd

steve.dickinson@aeiou.co.nz

