



IBM® Information Management software

IBM DB2 Solution Guide

A n overview of marketed solutions running with DB2





Information management solutions

IBM® DB2® 9.5 for Linux®, UNIX® and Windows® (luw) marks a new stage in the evolution of data servers. IBM has continually led the data management industry with the release of innovative technology – starting with Information Management System (IMS) in the 1960s, the invention of the relational database model and Structured Query Language (SQL) in the 1970s, DB2 for the mainframe in 1980s, and with DB2 9, a new generation of data servers that fundamentally transform the way information is managed as a strategic asset within the business. DB2 9.5 builds on the success of DB2 9 and adds many exciting new capabilities. DB2 9.5 provides deeper platform integration with other IBM products, with integrated workload management and integrated flash copy support. Moreover, this version makes it easier to migrate applications from other database vendors with increased performance. With database roles and identity assertion, DB2 9.5 makes protecting your data easier.

DB2 also continues IBM's commitment to lowering the cost of administration and ownership through increased autonomies. DB2 is the Data Server of choice for customers running a broad spectrum of applications, from Web services to analytics, and from small to extreme data volume.

Major enhancements include:

- Reflex response: the ability to respond as if by reflex to take the right action at the right time to make the best use of system and personnel resources
- Confident compliance: a number of new or enhanced capabilities designed to make clients confident of their ability to keep ahead of the ever changing threats
- Transactional XML: the extremely efficient management & querying capabilities of pureXML with the performance and efficiency required to leverage XML in a large scale transaction environment
- Dynamic Warehousing: complete, multipurpose environment that allows you to access, analyze and act on historical and operational information in near real-time

This catalog highlights a variety of industry solutions running on DB2 9 and DB2 9.5. In addition to providing general company and product information, this document will feature joint published articles and press releases.

The Ready for IBM DB2® Data Server software mark demonstrates your commitment to quality in the IT industry and can generate greater interest in your business solutions. Achieving this software validation assures your customers that your solution meets key IBM integration standards for DB2 data server software for Linux®, UNIX® and Windows®, and DB2 for z/OS®.

For More Information

please visit <http://www.ibm.com/db2/validate>

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The new face of COBOL®

ACUCORP®

About Acucorp, Inc

Founded in 1988, Acucorp, Inc. is a privately held company headquartered in San Diego, California, USA with additional offices in the UK, France, Germany, Italy, and the Netherlands. In addition to its advanced industry-optimized status, the company is also an IBM Linux for Leaders business partner and member of the Chiphopper Program. Acucorp's products are distributed in more than 100 countries throughout the world to more than over 4,000 customers and 1.3 million end users, including Ford Argentina, Jacob K. Javits Convention Center, L'Oreal Mexico, Red Cross Belgium, Siemens, Sport Chalet, The Traveler Group (formerly Thomas Cook), and Warner Music Group. The Company designs, develops, and markets innovative solutions for extending the life of vital COBOL business systems.

ACUCOBOL-GT

ACUCOBOL-GT is an advanced COBOL development system for extending and modernizing business-critical COBOL applications. It supports connectivity to leading relational databases like DB2, as well as ISAM data sources, through both open and patented technologies. It is the world's most portable COBOL, supporting single-source, compile-once deployment on hundreds of

platforms. ACUCOBOL-GT is a supported technology of IBM's distributed transaction processor, TXSeries™ for Multiplatforms, as well as IBM's WebSphereMQ®. Once compiled, the machine-independent object code is portable to any platform supported by Acucorp, Inc. including all IBM eServers™ running Linux, AIX or Windows.

ACU4GL

Acu4GL provides a patented COBOL-to-SQL interface technology that bridges COBOL to data stored in leading relational databases like DB2. With Acu4GL, users can benefit from RDBMS technology without learning SQL, rewriting applications, or retraining. Applications are compiled once and COBOL I/O is dynamically translated to SQL. It improves performance by eliminating the need to regenerate the query and allows users to optimize application workload and response time. Companies reduce the cost, risk, and time delays associated with re-engineering COBOL applications to access relational data.

For More Information

please visit: <http://www.acucorp.com>

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“Acucorp is very enthusiastic about achieving the Ready for IBM DB2 data server software validation. It greatly enhances our strategic position in the relational database market. It also serves as a testament of our commitment to work with IBM to serve our joint customers using Acucorp technology in combination with IBM's DB2 database.”

- Lori Galvan, Vice President - Market Development, Acucorp



About Agilence Inc.

Agilence, Inc. is the leading provider of Event-based Video Analytics (eVA) serving the Retail, Transportation and Gaming industries. These solutions provide a measurable return on investment through the synchronization of transaction data (point-of-sale, toll plaza lane controller data, player tracking systems, etc.) and CCTV video streams. By doing so, Agilence enhances context and auditing capability for the protection of corporate assets, as well as its customers and constituents. Users' operate the solutions in both real-time and forensic modes. Dramatic results are consistently providing greater than a 20 basis point margin improvement and an return-on-investment within the first year. Agilence has a seasoned team of employees with over a twenty-five year history of developing, licensing, and supporting its enterprise eVA solutions. The Agilence leading Event-Based Video Analytic (eVA) Solutions, Increase Operational Efficiency, Reduce Shrink, and Save Agilence Customers Millions of Dollars Each Year.

About StoreVision

StoreVision is an enterprise digital video auditing and surveillance system tailored for retail. StoreVision combines point-of-sale transactional data with video images of the checkout lane. With this combination, it is easy to create a search for specific sensitive events that often contribute to a common ongoing problem for retailers – Inventory Shrink. Store auditors then view the resulting video – in better context with the associated data – all perfectly

StoreVision delivers positive results in the following areas:

- Loss Prevention
- Marketing and Merchandising
- Employee Training
- Compliance Auditing
- Customer Service
- Store Operations

time synchronized. A scan-gap [a gap of time within a transaction where items are not being scanned, usually caused by a price check, hard to find bar code, or a cashier sliding merchandise] query is an example of a highly effective search; where for each identified result there is high degree of probability that shrink has occurred. In this example, if shrink has not occurred, there is most definitely a customer service issue of some type. StoreVision is truly a store productivity tool since it enables improved cashier performance and greater efficiencies in compliance audits – all in addition to its traditional loss prevention uses. This real-time or forensic synchronization of virtually any combination of commercial transactional data with almost any digital video stream creates an opportunity for customers to more closely scrutinize their corporate assets. We define this value proposition as Event-Based Video Analytics (eVA).

For More Information

please visit <http://www.agilenceinc.com/>

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About Altova

Altova accelerates application development and data management projects with software and solutions that enhance productivity and maximize results.

As an innovative, customer-focused company and the creator of XMLSpy and other leading XML, data management, UML, and Web services tools, Altova is the choice of over 3 million clients worldwide, including virtually every Fortune 500 company. Enabling customers ranging from vast development teams in the world's largest organizations to progressive one-person shops, Altova's line of software tools fulfills a broad spectrum of business needs. Altova is an active member of the World Wide Web Consortium (W3C) and Object Management Group (OMG) and is committed to delivering standards-based platform-independent solutions that are powerful, affordable, and easy to use.

Altova XMLSpy

Altova XMLSpy is the industry standard XML development environment for modeling, editing, transforming, and debugging XML-related technologies. In addition to the world's leading XML editor, it includes the original graphical XML Schema editor, which enables you to design otherwise complex schemas with ease. XMLSpy is IBM's tool of choice for pureXML on the DB2 9 data server.

Altova MapForce

The premier data mapping, conversion, and integration tool now provides deep integration with IBM DB2 9 pureXML. Recommended by IBM, MapForce facilitates mapping between any combination of XML, database, flat file, EDI, and/or Web service. It is the definitive tool for advanced integration and Web services projects.

Altova StyleVision

The ultimate visual stylesheet designer for transforming XML and database content into HTML, Word/RTF, and PDF output and for creating intuitive e-forms. Recommended by IBM, StyleVision is standards-based and supports XSLT, XSL:FO, CSS, and JavaScript, and provides deep integration with IBM DB2 9.

Altova DatabaseSpy

The unique multi-database data management, query, and design tool. Recommended by IBM, DatabaseSpy connects to all major databases and integrates seamlessly with IBM DB2 9 data server.

For More Information

please visit <http://www.altova.com>



“Altova’s tools for pureXML are key for developers and DBAs,” said Salvatore Vella, Vice President, IBM DB2 Data Server Development. “XML is quickly becoming a predominant format for data exchange, and information management professionals need capabilities to store, access, and manipulate XML data natively. The combination of the market leading database-enabled XML tools from Altova together with the industry’s most advanced XML-enabled data server from IBM provides customers with the optimal solution to address this requirement.”

- Salvatore Vella – Vice President, IBM DB2 Data Server Development



Amdocs

Amdocs is in the market of customer experience systems innovation, enabling service providers to deliver an integrated, innovative and intentional customer experience(TM) at every point of service. Amdocs provides solutions that deliver customer experience excellence, combining the software, service and expertise to help its customers execute their strategies and achieve service, operational and financial excellence. A global company with revenue of \$2.84 billion in fiscal 2007, Amdocs has more than 17,000 employees and serves customers in more than 50 countries around the world.

In 2004, Amdocs had the concept of integrated customer management (ICM), a new way of doing business aimed at enabling delivery of an intentional customer experience(TM) that sets a company apart. Their combination of software, services and industry experience spans all business processes and business and operational support systems—what they call "customer experience systems"—and is architected to support an ICM strategy.

ICM is a journey, and they have built their product roadmap on industry standards such as the TeleManagement Forum's Enhanced Telecom Operations Map (eTOM) and open services-oriented architecture (SOA) to provide a smooth path for evolution.

Amdocs strive to anticipate and nurture their evolution with thought-leadership and technology innovation. Through award-winning products for managing revenue, customers, network services and resources (OSS), and the product and service lifecycle, comprehensive consulting, implementation and delivery services, they are helping their customers deliver an innovative, integrated and intentional customer experience at every point of service.

Amdocs to deep embed DB2 and Optim in CRM application

Amdocs and IBM jointly announced plans on June 17 to deep embed DB2 and Optim in Amdocs' Customer Relationship Management (CRM) application.

The joint solution gives customers the ability to reduce implementation and integration costs on CRM application deployment, reduces total cost of ownership and improves application performance and availability.

For More Information

please visit <http://www.amdocs.com>



About CNUX Technologies Inc.

CNUX Technologies is dedicated to providing organizations across North America and beyond smart, effective, fast and reliable software solutions to their business needs.

Their business focus involves:

- Database Application Consulting Services
- Database Administration Consulting Services
- Software Products
- Education

.Net Providers for DB2 - Standard Edition

CNUX .Net Providers for DB2 is a custom .Net web state-management framework based on ASP.Net 2.0 specifications and guidelines. It is a complete framework consisting of Membership Provider, Role Provider, Site Map Provider, Session State Provider, Profile Provider, Web Event Provider and Web Parts Personalization Provider.

.Net Providers for DB2 - Web Service Edition

CNUX .Net Providers - Web Service Edition is ideal for SOA and secured n-tier implementation.

DB2 Database Administration Consulting Services

CNUX brings the full range of database management expertise to help you manage the information crucial to your business.

Their goal is to help you achieve:

- Minimized downtime
- Smooth and fast recovery in case of unplanned outages
- Properly tuned database engines for optimized performance

DB2 Database Application Consulting Services

CNUX strive to understand your business goals and deliver custom solutions designed to achieve them.

For More Information

please visit: <http://www.cnux.ca>



“IBM DB2's world class database management performance and scalability have given CNUX the ability to create an enterprise grade web state management framework that allows developers to design robust, secured, and SOA able n-tier web applications. With the flexibility and power of DB2 SQL/PL, we are able to embed most of the business intelligence within stored procedures to reduce network traffic and processing overhead, which ultimately translates into exceptional performance.”

- Trevor Su, Principal Engineer, CNUX Technologies Inc.



About Coral8

Coral8 is a leading provider of Complex Event Processing software that dramatically simplifies the development and deployment real-time, event-driven applications. The Coral8 software allows ISVs, solution providers and IT teams to deliver CEP applications at a fraction of the time and cost of previous technologies for areas such as market data analysis, algorithmic trading, RFID and sensor network applications, real-time click-stream and session analysis and more.

The Coral8 Engine

The Coral8 Engine combines a familiar SQL-based language, easy to use tools and powerful high-throughput engine, for the most innovative Complex Event Processing software on the market.

With the Coral8 Engine, developers can quickly and easily build applications which process and analyze high-volume, high-speed event streams in real-time. A SQL-based language makes programmers immediately productive. Powerful, easy to use extensions, such as event pattern matching and Native XML Processing, enable developers to quickly build complex CEP application logic.

The Coral8 server architecture provides unmatched scalability, flexibility and easy administration. This allows you to quickly

Coral8 Engine Features

- High throughput, low latency server for processing fast, high-volume event streams.
- Easy to use language and tools that combine the familiarity of SQL with industry-leading event processing syntax and semantics.
- Rapid deployment, easy change and low administrative overhead through a dynamic, easy to manage server architecture.
- Highly scalable server that can be easily configured for multi-processor systems, high availability clusters, scalability

deploy, grow and change real-time event-driven applications of any size and in any location. The processing throughput of the Coral8 Engine can easily match that of the highest volume and fastest event data streams. The dynamically configurable Coral8 server allows rapid change of application logic and configurations, making CEP applications responsive to the shifts in the business or market.

Free Developer Download

The Coral8 Developer Edition is freely available for any developer to build next generation CEP applications. It is a full-featured version of the Coral8 Engine for development purposes. You can download the Coral8 Developer Edition for free at <http://www.coral8.com/developers/download.html>.

For More Information

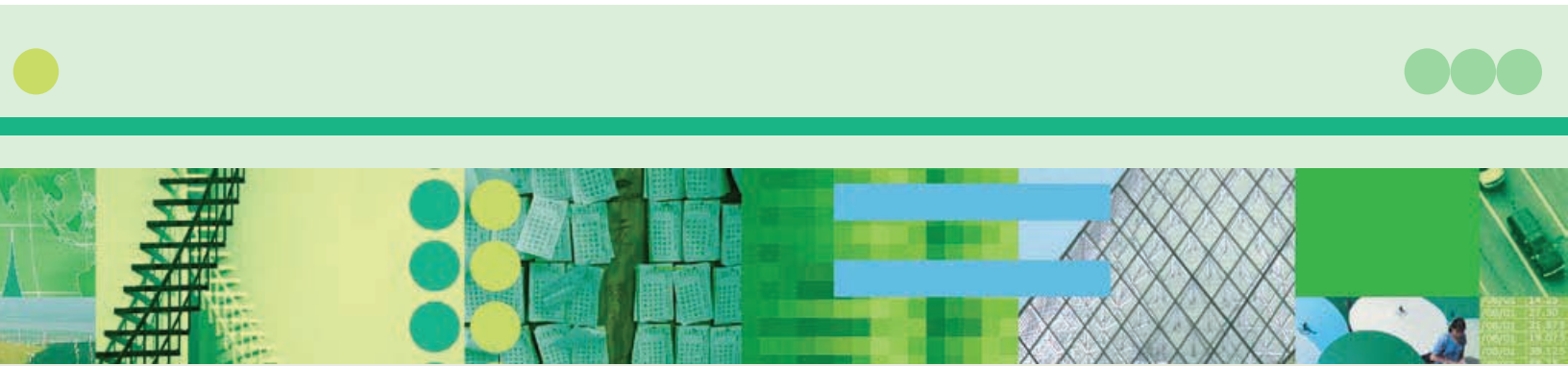
please visit <http://www.coral8.com>

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The Coral8 Engine for DB2

Complex Event Processing (CEP) software is the engine driving next generation event-driven business applications. CEP software allows you to process and analyze high volume event streams to uncover opportunities and threats as they happen, not after the fact.

The Coral8 Engine is an innovative infrastructure solution that makes it faster and easier to implement applications that require real-time event analysis. Through three simple attributes – Easy to Scale, Easy to Develop and Easy to Deploy – the Coral8 Engine enables you to place real-time event processing inside any enterprise business application.

Coral8 and DB2 9

Complex Event Processing solutions often use a combination of infrastructure components including a CEP Engine, database and messaging software. Effective implementation of this solution requires tight integration between these products to deliver a rapid development environment and high-throughput run-time platform.

The Coral8 Engine offers unique, powerful features for development and run-time execution that enable high-performance CEP applications. The seamless, high performance integration between DB2 9 and the Coral8 Engine allows customers and partners to quickly build and deploy robust, high-throughput CEP applications.

Combined Features

Native XML processing – DB2 9 pureXML™ and Coral8

Native XML provide high performance XML data management and XML processing respectively. This common functionality allows customers to natively process XML-based streams in Coral8 and store XML formatted events and results in DB2.

High performance reference and historical data integration –

The Coral8 engine supports high performance caching of reference and historical data managed by databases. This Coral8 interface is optimized for DB2.

Native DB2 language support –

The Coral8 database subquery feature allows programmers to write native language queries to databases. Through this feature, programmers can write native DB2 queries inside a Coral8 application that take full advantage of the power of DB2.

Event storage and warehousing –

The Coral8 Engine offers asynchronous, parallel and batched writes, and transparent queuing of database transactions to maintain high throughput. Developers can use DB2's mature data management and warehousing capabilities for large-scale storage of events processed by Coral8.

“The multi-faceted integration between the Coral8 Engine and DB2 9 gives customers the seamless product environment they desire for rapid development and scalable deployment of high-throughput CEP applications.”

-Anant Jhingran, CTO for IBM's Information Management division



About Crossroads

Crossroads Systems® Inc. is a leading provider of Business Information Assurance (BIA) solutions. Over its first years of operations, Crossroads rapidly earned itself an unequivocal position as the world's leading provider of storage routing devices and services. Having shipped in excess of 85,000 systems with unmatched 0.02% Mean Time Between Failure (MTBF), Crossroads is known to offer ultimate quality of products, superior engineering capabilities and extraordinary customer support services.

Crossroads solutions have been expanded to deliver three suites of Business Information Assurance (BIA) solutions: NearEdge® storage routing devices for guaranteed data accessibility, SurePath™ back-up and data recovery appliances for data resiliency and StrongBox® database and encryption appliances for data security. Crossroads helps enterprises store, manage and ensure the security, resiliency and accessibility of business critical information - anytime, anywhere.

StrongBox DBProtector™

Roles, privileges, passwords, access rights and firewalls govern internal and external data accessibility. What about "authorized" misuse of corporate data? This is a very real and often overlooked threat plaguing the IT data security world of today. According to Gartner, about 70% of security incidents that cause loss to enterprises involve insiders.

StrongBox DBProtector™

- Provides continuous, proactive, policy-based database security using a non-intrusive, zero impact network-based appliance
- Thwarts insider abuse of critical information by promoting and supporting separation of duties between security personnel and database/network administrators ensuring regulatory compliance
- Supports privacy and compliance legislation including SOX, HIPAA, GLBA, CA1386, PCI, FIAMA, and BASEL II
- Provides policy-based alerts, access and use control
- Provides comprehensive audit records for security forensics and compliance reporting
- Offers business-user driven, simple, English-like policies and customizable templates to put security managers in charge of corporate security objectives

DBProtector is a database security appliance providing separation of duty and stops "authorized" misuse of critical database information through policy-based intrusion detection, prevention, and compliance auditing. It is a high-performance, standalone, enterprise-class solution that in real time inspects database activity, enforces security policies, alerts on suspicious activities, and captures audit trails for electronic discovery, forensic analysis, and compliance reporting. As a non-intrusive network appliance, it puts proactive control in the hands of security managers. DBProtector fortifies regulatory compliance through an intelligent policy engine, automated audit reporting and forensic capabilities. The ability to enforce business-level security policies gives security managers the ability to answer who, what, when, where and how information is or was accessed.

For More Information

please visit <http://www.crossroads.com/>





About Database Brothers, Inc.

DBI specialize in distributed DB2 LUW database performance best practices methodologies, services, and products that enable companies to accelerate business with clarity.

Distributed Database Performance Management Tools from DBI make it easy to rapidly identify, isolate, and resolve performance issues, verify success, and manage performance changes and trends.

DBI's GREEN IT methods improve performance, productivity, profitability and security while lowering utility costs, saving floor space and reducing IT costs.

Customers typically achieve 30-90% CPU utilization reductions within the first few hours along with measurable response time improvements.

Take back control of runaway hardware upgrades, service levels, performance reliability, and costs – and accelerate your business today.

Brother-Panther

Brother-Panther® provides a major breakthrough in performance analysis and change management. Brother-Panther KNOWS what changed, when, and how changes influenced performance. Comprehensive history combined with rich analytics enable the analysis of performance trends over time correlated to change events (physical design changes, profile changes, DB & DBM configuration changes, and bufferpool changes).

Brother-Thoroughbred

Brother-Thoroughbred provides database measurements for transaction times, time distributions, and service level attainments. IT groups can now measure and document their transaction performance success, as well as be equipped with the right information to understand if database performance is at fault in the event that service levels are not being attained. If the database is at fault, the DBA group can easily determine the resource bottleneck (CPU, I/O, Locks, Sorts) and rapidly solve any problems.

Brother-Hawk

Brother-Hawk provides unique insight into performance issues by monitoring your databases 24x7 and alerting you to performance issues before they become performance nightmares. DBI has automated advanced lights-out database monitoring to free their customers to pursue other important business opportunities.

Brother-Eagle

Meet Brother-Eagle®, soaring high above your organization searching for opportunities that warrant in-depth attention, and summarizes the performance characteristics of your DB2 LUW databases in a single, easy to read and interpret, interactive scrolling "stock ticker" graphical presentation.

For More Information

please visit: <http://www.DBISoftware.com>





About Elixir Technology

Elixir Technology provides a Unified Business Intelligence Platform for end-to-end information life cycle coverage from Extraction-Transformation-Loading (ETL), Data Aggregation, Cube, Reporting, Dashboard and Activation. Our flagship product, Elixir Report™, has garnered over 600 worldwide customers across 50 countries in various vertical industries such as government, financial services, telecommunications, healthcare, retail, and technology. Going beyond enterprise reporting needs, our advanced Integrated Business Intelligence Suite, Elixir Repertoire™, is designed to further empower our customers toward becoming intelligent enterprises, where critical information is readily available to drive decisions and actions. Elixir Technology is headquartered in Singapore, with an R&D arm in UK. Through our network of partners, Elixir's products are represented in many parts of the world across major continents including Asia, America, and Europe.

Elixir Repertoire

Elixir Repertoire is an integrated Business Intelligence suite, designed for enabling Intelligent Enterprises to compete effectively in this fast-moving globalized market. Addressing the end-to-end information life cycle, one can activate the entire suite or the individual products as required to aggregate and transform, present and deliver, navigate and visualize, monitor and activate enterprise data.

Layered upon the same underlying cross-platform architecture for security, repository, and APIs for Java, J2EE, .NET, and other web applications via URL interface, the products include:

- Elixir Ensemble: Data Aggregation, Extract-Transform-Load (ETL) and OLAP Cube transformation
- Elixir Report: Enterprise Reporting for Web, Print and Mobile Delivery
- Elixir Perspective: Information Dashboard for Navigating and Visualizing Enterprise Data
- Elixir Choreographer: Data Activation and Automation for Performance Monitoring

For More Information

please visit <http://www.elixirtech.com/>

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“IBM and Elixir Technology have many common customers particularly in the financial services, government, and healthcare sectors. Many are already running our integrated Business Intelligence solution on IBM middleware like Websphere and DB2. This partnership will further strengthen and expand our complementary offerings towards enabling Intelligence On-Demand for enterprise of all levels globally.”

- Shih-Hor Lau, CEO, Elixir Technology Pte Ltd, Singapore



About Exegenix

Exegenix is an innovator in content conversion solutions. Our award-winning technology converts content into valid, richly-structured XML quickly, accurately, and cost-effectively. Backed by Tata Consultancy Services, part of the multi-billion dollar Tata Group, Exegenix has assembled an experienced team of XML professionals who have proven expertise in delivering standards-based structured document solutions. Exegenix technology is already being successfully used on source materials from global organizations in a variety of industries, including analytical legal research, distance learning, content syndication, cross-media publishing, and information services.

Exegenix XML Conversion Solutions

Exegenix's revolutionary approach uses visual cues to uncover a document's structure, much the same way that humans do. People rarely have problems determining the hierarchical structure of any document they encounter because they look at a document as a whole, taking into consideration each graphical object's format, position, and context. Exegenix technology does the same thing: it interprets a document's logical structure based on the appearance and position of its components.

The Exegenix Conversion Satellite is a one of the ways in which our technology can be deployed. It consists of a local workflow

control client, connected to a remote Exegenix server or cluster that handles the intensive processing required during automated conversion. Users interact with each XML conversion project via their Satellite: documents can be uploaded for conversion at any time, either individually, or in batches as standard .zip files; each can be converted on demand, or scheduled according to user-defined priorities; and users can locally review or add value to converted content if their workflow demands this process.

ECS Software Components

The modular structure of Exegenix technology means that the conversion process can be tailored to your unique workflow requirements. Deployment flexibility is achieved via the following components:

ECS Engine: The automated process that converts submitted documents individually from PDF/PostScript to XML output.

ECS Inspector: Enables further streamlining of the conversion process via user-directed actions, if required. Authors can examine structures and text identified by the ECS Engine, and add value to the output XML prior to export.

ECS Administration: A versatile configuration module adapted to each organization's specific requirements, forming the basis of a flexible workflow framework.

For More Information

please visit <http://exegenix.com/>



“Our unique approach of using PDF/PostScript as an intermediary format completely transforms the process of legacy/ongoing content conversion. It produces the most consistently structured and highest quality XML available and yet requires no additional programming, re-keying or mapping effort.”



About Fintechnix Pty Ltd.

Fintechnix is an Australian information technology company that is delivering enterprise-wide innovation to the front and back office operations of financial services providers.

They have operated for over 18 years developing expertise in software and its integration with financial services.

As an Australian platform provider in support of back office administration, the company has opened up this powerful capacity to deliver a seamless, webaccessed link with front office functions.

These integrated service offerings are available through specialist modules for life insurance, superannuation and investment.

Fintechnix offer knowledge, innovation and flexibility, working in partnership, to deliver a highly configured software solution for the specific and changing needs of each customer.

Fintechnix OneOffice

Fintechnix offer a functionally rich end-to-end administration platform, Fintechnix OneOffice, with specialist modules for life insurance, managed investments and superannuation.

OneOffice is a highly configurable software solution for the specific and changing needs of customers. This solution allows users to take control of key volatile areas of the business (such as product

management and client correspondence) offering unprecedented flexibility and the ability to control cost of change.

Fintechnix OneOffice is extremely flexible and allows the business to bring new product features to market quickly and with a minimum of fuss and cost. Their Services Oriented Architecture allows seamless integration with existing enterprise application platforms and they offer true straight through processing for Life Insurance (application capture through to Policy Issue).

Key Features:

- Broad range of financial services products supported on one platform.
- Supports full product life cycle for Life Insurance
- Highly configurable product management via 'Product Wizard'
- Highly configurable customer correspondence content management via 'Enterprise Reporting'
- Supports complex distribution channel structures including financial adviser access and commission calculations
- Interfaces to many industry standard enterprise systems
- Utilizes a services oriented architecture to facilitate B2B and B2C transactions via the web
- Available in many deployment models including: distributed back-office, call centre and tele-underwriter.

For More Information

please visit: <http://www.fintechnix.com>



“The ability for our application to now support DB2® will be of huge interest to potential customers of Fintechnix as it fits into many Insurance and Superannuation companies' technology stack.”

- Philip Fourie, CEO, Fintechnix.



About FIS Software Ltd.

FIS Software has over 20 years of experience in building and delivering high performing policy administration systems to individual and group life, annuity and pension markets. Their flagship product, ALIS, is deployed in nine different countries worldwide. ALIS provides its clients with the utmost flexible using the latest in advanced rules engine technology to support a wide range of products and business processing requirements.

ALIS - Policy Administration System for Life, Annuity and Pension Providers

ALIS offers insurers a modern and configurable turnkey policy administration system, from quotations through claims management. Enabled through a common calculation and rules engine, ALIS supports enterprise level agency & commission administration, illustrations/quotation, electronic application, automated underwriting with real time interfaces to MIB, billing & collections, reinsurance, policy issue, accounting, policy owner servicing and claims processing. ALIS can support individual, group risk and investment-based products. This system can also be configured to support multiple languages, currencies and regulatory environments.

For More Information

please visit: <http://www.fis-software.com>

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About Gillani, Inc.

Gillani, an IBM Premier Business Partner for over 5 years, is a leading provider of ERP and Supply Chain management software. By providing a full range of critical solutions and services to its customers across the globe, Gillani is a key technology partner for many small, mid-size and large corporations. The company serves customers in wholesale, retail, manufacturing, Healthcare, telecom, government and financial services verticals. Gillani iDistribute is based on the powerful FourGen Distribution/Accounting system with a legacy of over 20 years in the ERP/Distribution arena.

Gillani iDistribute - Distribution Management is an end-to-end ERP/Supply Chain solution that helps businesses improve performance by lowering inventory carrying costs and fill orders faster by efficiently; accessing information in real-time across the enterprise; and synchronizing distribution and financials processes for effective decision making.

Gillani iDistribute - Retail ERP with integrated IBM POS, makes an ideal back office solution for retail businesses by: supporting real-time integration between back office and front office systems; optimizing

inventory through demand planning, automated replenishment and distribution of merchandise; and consolidating information across the entire business through a single, enterprise-wide, fully integrated system.

Gillani Financials is a complete financial accounting (ERP) solution that helps companies improve performance by facilitating detailed analysis of large volumes of financial data and ad hoc query and reporting for better business insight.

FourGen CASE Tools provides a Rapid Application Development environment for developing industrial strength applications in Informix-4GL that run on IDS or DB2 by slashing development time and increasing productivity without adding staff.

For More Information

please visit: <http://www.gillani.com>



“Gillani's confirms its commitment to deliver world-class solutions software based on IBM technologies for the SMB and enterprise markets, Gillani is able to provide businesses with greater flexibility, management and availability with Gillani iDistribute V8.2 - Retail ERP, Gillani iDistribute - ERP/Distribution, Gillani Financials – ERP/Accounting, FourGen CASE Tools – Rapid Application Development Tools and FourGen® Business Accounting solutions. These solutions are enabled on IBM Informix Dynamic Server, DB2, WebSphere, Express Runtime, System x and System p.”

- Syed Kamal, CEO, Gillani.



Turnkey distribution solution from Gillani and IBM provides distributors and retailers with improved business processes

Challenge

No longer does the distribution of its goods and services give a company the luxury of relying on the tried and true. In today's environment, a company must be alert to new ways to add value to the supply chain it manages. It must link its suppliers to its customers more cleverly, more efficiently and with higher levels of service. A company now needs to provide web-enabled information access to its customers so they can enter orders, view real-time product availability and check status. Such access must also be integrated with the company's distribution management system.

Gillani, Inc., an IBM Premier Business Partner, is a leading provider of enterprise resource planning (ERP) and supply-chain management software. Its flagship offering, iDistribute, was designed especially for the wholesale, retail and manufacturing industries, helping those industries streamline inventory and distribution processes and optimize operational resources.

iDistribute integrates business units and profit centers on a global scale and

combines synergies for predictive performance. It helps businesses win and keep customers with enterprise-wide order processing, inventory management, advanced planning, forecasting and integrated accounting. Undisturbed operation "Our modifiability-by-design concept is one of our major differentiators in the marketplace," said Syed Kamal, Gillani president and chief executive officer. "The whole thrust is for us to be able to upgrade and reconfigure a customer's underlying distribution infrastructures without requiring them to disturb any of their ongoing business applications," Kamal explained. "Conversely, the customer can reconfigure any of its Gillani business applications or add new modules without needing changes in the basic system."

"We are very happy with both the stability and the performance of our new IBM system. We are pleased we have an accounting and warehousing solution we can depend on for the foreseeable future."

– Gary Bennett, Harps Food Store

Proven Retail Client Success

An example of this value was a major upgrade project for Harps Food Stores, Inc., a grocery store chain based in Springdale, Arkansas. As the owner of more than 50 stores in Arkansas, Missouri and Oklahoma, and distributor to more than 100 independently owned convenience stores, Harps was finding its growth prospects increasingly constrained with an early version of IBM Informix Dynamic Server running on an outmoded NCR hardware and UNIX® operating system platform. Gillani proposed and implemented an upgrade of business applications which migrated to Gillani FourGen Case Tools. The applications run on a platform consisting of Informix Dynamic Server, the Linux® operating system and a two-processor IBM System x® 365. "We now enjoy increased capacity, improved performance, higher productivity, faster completion of online transactions and realignment with the latest operating system, along with IBM middleware and hardware technology," said Gary Bennett, director of information systems at Harps.



For example, in Harps' warehouse operations, many processes that used to take one hour now take about 20 minutes, Bennett said.

Solution Overview

Gillani offers iDistribute™, an SCM solution that focuses on distribution processes that help distributors win and keep customers. iDistribute connects suppliers, distributors, customers and internal operations to optimize processes across functional boundaries. It includes fully integrated financial management functions. iDistribute is written in IBM Informix® 4GL, which runs IBM Informix Dynamic Server (IDS) or IBM DB2 for Linux®.

IBM Express Advantage™ components:

- IBM xSeries
- IBM Express Runtime
- IBM Informix 4GL Compiler
- Development and Compiler Runtime
- Licenses

Proven Distribution Client Success

RoI Manufacturing needed to respond dynamically to customer demands, streamline and optimize its business processes, and integrate its programs while maintaining business continuity.

The iDistribute and IBM Express solution delivers fast and accurate transaction processing, responsive budgeting and forecasting, and fast execution for real-time reporting. It helps to lower inventory costs and increase order fill rates. Users are able to customize software to meet their specific needs. The solution integrates operations for a single view, maintaining visibility and transparency.

It provides a powerful accounting structure. Users can view multiple books in a single financial structure with multicurrency, audit reporting and cash management.

For more information

For more information on Gillani, Inc, visit:
www.gillani.com

INDUSTRIES

Cross-Industry

SOLUTION:

ERP & SCM – Distribution
Management Solution

IBM Built on Express components:

- IBM xSeries® 206 Express
- IBM Express Runtime, V2.1.1
- IBM Informix 4GL Compiler
- Development and Runtime
- Licenses





About Guangzhou Sunrise Electronics Development Co., Ltd

Guangzhou Sunrise Electronics Development Co., Ltd was established in 1999 as a member of Guangdong Revenco Enterprises Co., Ltd. Sunrise is a total IT solution provider who offers large-scale IT solutions such as data processing; information management and telecom applications.

They provide end to end services ranging from:

- System Design
- Development
- System Integration
- Operation Maintenance
- Outsourcing Service

Sunrise has many years of development experience and services for customers such as China Mobile, China Telecom and CNC.

The company is based out of Guangzhou, with additional branches and support centers in Beijing, Nanjing, Shenyang, and Hong Kong. They currently employ over 600 people with 80% belonging to R&D alone. Sunrise offers first class service, a professional working attitude, and high customer satisfaction. They aim to provide high-quality products and service to customers across many different industries. Sunrise is proud of their foresight in the technology industry and their ability to achieve this through yearly industry intelligence and acute market analysis. The result is a greater return on investment for the customer.

Sunrise BI

Sunrise BI solution for the Telecommunication Industry provides full analysis functions for telecommunication operators. The analysis functions include market analysis, product-line analysis, customer segmentation, and operation analysis. The system uses DB2 with DPF as a centralized database platform, DataStage and C applications for ETL process, and J2EE applications for presentation (Cognos will also be supported in future). The system delivers great performance, scalability and availability leveraging many database features unique to DB2. It references 128 DB2 partitions and more than 300TB data volume.

For More Information

please visit: <http://www.revenco.com>

“DB2 DPF is a very unique technology of DB2 which helps build large data warehouses and handle parallel processing. In theory, DB2 DPF supports 1024 DB2 partitions. Our solution has successfully implemented this technology and built a large reference (with 128 DB2 partitions and more than 300TB in database size). We utilize the DB2 deep compression technique to compress the data, so we can save more than 50% storage in size for our customer. We also apply MQT, MDC, Range Partition techniques to our data models to get better performances and use DB2 backup/rebuild techniques to bring the data warehouse online in a very short time.”

- Guangzhou Sunrise Electronics Development Co., Ltd



Guardium®

SAFEGUARDING DATABASES™

About Guardium

Guardium, the database security company, develops the most widely-used solution for database activity monitoring, security and auditing. Founded in 2002, Guardium was the first company to address the core data security gap by delivering a practical, appliance-based platform that both protects databases in real-time and automates the entire compliance auditing process. The company's blue-chip customer base includes organizations in all major industries and geographies. Guardium's investors include Cisco Systems and leading venture capital firms.

Database security and data governance

Guardium provides the only out-of-the-box solution that both protects databases in real-time and automates the entire compliance auditing process, making it the absolute simplest way to pass your audits this year, next year, and any year after that.

With Guardium, you get a unified, cross-platform solution that's designed for heterogeneous environments. The solution supports all major database platforms, enterprise applications, and operating systems (UNIX, Linux, Windows, and z/OS).

Guardium's Data Security At-the-Switch™ architecture is network-based and database-independent. It works by continuously monitoring a mirrored network stream via network

Guardium's solutions deliver the absolute simplest way to secure enterprise data and pass your audit by:

- Automating compliance monitoring
- Protecting enterprise data
- Enforcing change controls
- Non-invasively monitoring all database traffic for suspicious or unauthorized activities

taps or SPAN ports and analyzing all database traffic for suspicious or unauthorized activities.

This non-invasive approach has zero impact on database and network performance and does not require any changes to databases or applications.

Guardium's solution monitors both network and local database traffic such as console access and shared memory.

For More Information

please visit <http://www.guardium.com/>

Ready for

IBM | DB2®

data server software

Accredited for

**IBM | Information
On Demand**

Specialty



HiT SOFTWARE®

About HiT Software

HiT Software is a leading software provider of secure middleware data access and data replication products headquartered in San Jose, California. Since 1994, our products have enabled customers from large, medium and small companies to integrate relational data in mission-critical applications across all industries.

HiT Software maintains offices in California and Europe, and work with resellers and partners worldwide. HiT Software is IBM technology partner, member of the IBM PartnerWorld Community and its products are Server Proven

DBMoto: the Enterprise Replication Solution

DBMoto is heterogenous, real time data replication software for your enterprise server and desktop replication needs.

DBmoto supports transactional replication for all major database platforms including IBM DB2 (System i5/iSeries/AS400, zOS, Linux and Windows). DBMoto support snapshot refresh with more than 20 databases.

In Refresh mode, DBMoto reads data, applies administrator-defined mapping rules, and writes the result on the target database. In Mirroring mode, DBMoto performs a real time incremental replication based on transaction logs. In Synchronization mode, DBMoto provides a way for source and

DBMoto: the Enterprise Replication Solutions

- Affordable enterprise replication software in the market
- Real-Time, Transactional and Heterogeneous engine
- Database platform independent
- Extreme Usability: no database programming needed thanks to intuitive wizard based process
- Worldwide Customer support

target databases to be synchronized. Powerful, easy to use administration Wizards make setup a snap. And, unlike other data replication solutions, DBMoto offers unlimited control over data replication and transformation using scripting technology.

DBMoto helps companies to move data from relational databases to e-commerce and data warehouse applications in a fast and secure fashion. With DBMoto enterprise class replication become affordable and flexible, independently from the IT infrastructure adopted.

For More Information

please visit <http://www.hitsw.com/>

Ready for

IBM | Informix.
Dynamic Server

data server software

Accredited for

IBM | Information
On Demand

Specialty





About IBS Bulgaria

IBS is a leading Bulgarian IT company and a successful IBM Premier Business Partner. At IBS we provide a combination of IT services, hardware and software technologies, and expertise that ally together to advance the enterprises to new levels of efficiency, responsiveness and productivity.

IBS TicketSphere

IBS TicketSphere provides full-featured software package that simplifies every aspect of theater management, from price management, event scheduling, employee management, CRM and sales analysis through ticket sales, exchanges, cancellations and reservations, to self-service features like Interactive Kiosk Module and online booking engine, to multisite management from a single server. The solution includes integrated Public Announce Display System with ability to manage unlimited displays and view types. IBS TicketSphere is a J2EE Platform based Web application that runs on cost-effective, reliable IBM WebSphere Express and DB2 Express software and utilized proven web technologies like AJAX and Web Services.

For More Information

please visit <http://www.ibs.bg>



Innovation Group

Innovation Group is a global provider of Policy and Claims solutions for the Property and Casualty Insurance industry. It leverages the advanced support for XML in DB2 9 to extend the power of the company's Service Oriented Architecture (SOA) and Services Catalog. Innovation Group, in the development of a service-oriented architecture, allows insurance carriers to capitalize on the benefits of web services and embrace new enabling methods and technologies while maximizing investments in hardware and software.

Innovation Group's offering has always been based on an ability to form business partnerships with clients that result in high value solutions.

Innovation Group solutions support millions of policies and more than 25 000 users around the world. The group processes more than 1.2 million claims per year – clear evidence of a deep understanding of how to develop and deliver effective business process solutions, under any condition.

Innovation Group was formed in 1997, based on a vision that sought to design and deliver a flexible solution suite to the global insurance industry.

The group's focus has been become more customer-centric, efficient, and profitable by:

- Leveraging knowledgeable professionals and applying advanced technology to improve processes
 - Addressing work flow and operational inefficiencies
 - Improving clients' ability to put products to market and to provide exceptional service to customers
-

In achieving these goals, Innovation Group clients have been able to:

- Become more competitive
 - Increase market share
 - Boost overall profitability
-

Over the years Innovation Group has developed a solution-based approach to the worldwide insurance market that supports the full range of policy and claims business processes. The group also provides specialized outsourcing offerings, where clients are able to leverage Innovation Group's staff, resources and technology for FNOL, accident management, warranty servicing and supply chain management. In recent times, Innovation Group has moved beyond the insurance sector to offer its business process solution expertise to the broader global market.

For More Information

please visit <http://www.innovation-group.com/>



i-Sprint Innovations Pte Ltd

Founded in 2000, i-Sprint Innovations is the Credential and Access Management Solutions provider for global financial institutions and high security sensitive environments. Rated and recognized as the Top 100 private companies in Asia by Red Herring's Asia in 2005, i-Sprint maintains high value and reliability rankings among its clients, and is one of the most recognized names in the financial world.

AccessMatrix Universal Sign-On (USO)

AccessMatrix Universal Sign-On (USO) is a non-intrusive Enterprise SSO solution that enables organizations to achieve single sign-on to multiple applications and systems. In most organizations today, users are often required to remember many IDs and passwords in order to perform their various job functions. By deploying their enterprise single sign-on solution, clients will improve staff and customer satisfaction, resulting in improved productivity and reduced administration costs. Client/server, host-based, Java-based and web-based applications are supported without source code changes. Unlike other single sign-on products, manual client software installations are not required on the users' desktops.

AccessMatrix Universal Access Management (UAM)

AccessMatrix Universal Access Management (UAM) is a comprehensive enterprise application access control, single sign-on and security administration system. UAM controls and manages user access to all enterprise applications. Leveraging on the AccessMatrix technology, UAM fulfils the most rigorous form of application security by providing security administration, authentication, authorization, and audit services (4As) to business applications within your organization. With UAM, multiple applications are able to access a common set of security services through tight integration with their AccessMatrix security server.

AccessMatrix Universal Authentication Server (UAS)

AccessMatrix Universal Authentication Server (UAS) enables organizations to deploy a wide variety of authentication methods to address the business requirements for strong authentication and evolving authentication mechanisms, through a single, unified framework.

AccessMatrix Universal Credential Manager (UCM)

AccessMatrix Universal Credential Manager (UCM) provides the security and management solution to address the major vulnerabilities and operational challenges faced by organizations.

For More Information

please visit <http://www.i-sprint.com>





About ITGAIN.

ITGAIN, headquartered in Hanover, Germany, is an IT service provider and consulting company. Founded in 2001, with the focus on the design and implementation of DB2 LUW solutions, ITGAIN has grown into an international company offering database performance monitoring products and comprehensive support in the selection and implementation of new software solutions. Speedgain for DB2 LUW and the Speedgain Gateway Monitor are part of a suite of database monitoring tools that provide a DBA the capability to optimize the performance of critical database operations saving time and increasing enterprise efficiency.

Speedgain for DB2

The Speedgain for DB2 LUW monitoring Suite enables DBAs to efficiently locate and solve problems within a database. With its on-board performance diagnostic tools, Speedgain detects potential issues as they are developing using historical analysis and trending identifying bottlenecks. Outstanding features include: alert functions, SQL tuning capabilities, and concrete diagnostic tools for fault analysis that offer options for improvement. Speedgain for LUW also features DB2PDB integration that allows detailed display of internal database transactions. With Speedgain for DB2, you will always be in tune with the current status of your databases.

Speedgain Gateway Monitor

Speedgain Gateway Monitor harvests performance data from all aspects of a DB2 Gateway connection - network, mainframe, and DB2 connect Gateways. These data are distilled to provide a comprehensive analysis of the exact cause of the bottleneck or slow-down. The result provides the ability to quickly identify the root cause of a performance problem and implement the appropriate corrective actions.

J2U

An important aspect of migrating a host system to another platform is the ability to carry over existing batch processes without putting your tried and tested business logic at risk. J2U offers full JCL functionality for your UNIX/Linux environment. It lets you easily migrate batch jobs from z/OS to UNIX and offers tremendous cost saving opportunities. Alternatively migrate specific batch jobs via J2U and achieve a net reduction in peak mainframe overhead and realizing cost savings by minimizing peak CPU cycles.

For More Information

please visit: <http://www.itgain.de>





About JasperSoft

JasperSoft is the market leader in open source Business Intelligence (BI). With more than two million product downloads, 5,000 customers, and over 20,000 deployments in 81 countries, JasperSoft delivers the world's most comprehensive solutions for data access, analysis, and reporting that empower today's key decision makers. JasperSoft solutions enable companies of all sizes to place precise operational information into the hands of the everyday user as well strategic information into the hands of the business analyst and executive.

JasperSoft commercial and open source solutions are the cornerstone of many mission-critical applications. They provide real-time information delivery in critical areas such as financial audit and reporting, customer self-service, systems performance and tuning management, and compliance management. JasperSoft products can be installed and managed by the customer on their own systems or alternatively are available as an on-demand hosted reporting solution for certain specific business applications.

JasperSoft Products

The JasperSoft Business Intelligence Suite is comprised of both embeddable and standalone query, reporting, analysis, and ETL tools for small, medium, and large enterprises. The solution builds on JasperReports, the world's most popular 100% Java reporting library for developers. iReport, for business users, includes a powerful visual report designer for building interactive Web-based or pixel-perfect ready-to-print reports. The suite also includes

JasperSoft Product Highlights

- Integrated or stand-alone reporting and analysis
- Analytic and operational data integration
- Cost-effective for workgroups and small businesses
- Secure and enterprise-ready
- Leverages existing IT infrastructure servers and services
- Deploys quickly for fast ROI
- Seamlessly embeddable in business applications, such as ERP or CRM

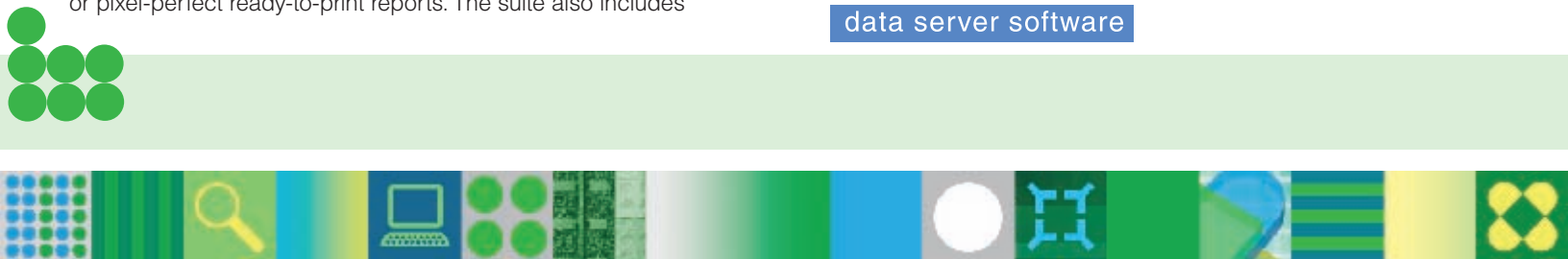
JasperServer for interactive web reporting by business users and a report server for secure storage, e-mail, and scheduling of reports. The JasperAnalysis OLAP server delivers world class analysis, also via an intuitive web interface. Finally, JasperETL enables developers to integrate data from more than 30 source and target RDBMS and file technologies. The JasperSoft Business Intelligence Suite is available in either Open Source or commercial Professional editions.

In addition, JasperSoft offers extensive certification and support of third-party platforms for Professional editions. JasperSoft offers Jasper4Salesforce to deliver easy access to advanced reporting for users of salesforce.com (<http://www.salesforce.com/appexchange> in the analytics category)

For More Information

please visit <http://www.jaspersoft.com>

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JUST. SYSTEMS

About JustSystems

JustSystems is a leading global software provider with a 27-year history of successful innovation in office productivity, information management, and consumer and enterprise software. With over 2,400 customers worldwide and annual revenues over \$110M, the company is continuing a global expansion strategy that includes the launch of its new enterprise software offering xfy (pronounced 'x-fie'), and the acquisition of XMetaL, XML-based content lifecycle solutions. JustSystems has worldwide office locations including headquarters in Tokyo, Japan; Palo Alto, California; Vancouver, Canada; and London, England. The company currently employs over 1,000 people. Major strategic partnerships include IBM and EMC.

xfy

xfy is a standards-based platform for building and developing applications that are based on services oriented architectures. xfy combined with DB2 9 helps companies improve information centric business processes by providing "in context" information in intuitive and relevant applications to role-based users. DB2 9 provides the foundation for this process by acting as the repository for serving up the logic that connects the information to the interface. Together DB2 9 and xfy improve enterprise business processes where companies are struggling to deliver end to end view due to complexity and disparate systems. xfy Enterprise enables organizations to build and deploy information driven solutions more easily and with greater functionality by using xfy

xfy benefits

- Make informed business decisions faster with complex information presented in a simple, personalized graphical format, giving more control to the business end-users
- Gain real-time visibility into entire business/process by unifying disparate data sources and types in one view
- Expedite workflow processing of information based on staff role for improved customer satisfaction
- Use open standards (XML) and SOA for fast deployment, reuse and easy ongoing maintenance
- Reduce development time and costs with intelligent DB2 9 inquiry
- Leverage and extend existing data and database investments

visual tools and interfaces, smart XML vocabulary handling, and by separating the visual presentation from logic. The visual presentation is controlled by the end users who can easily customize it according to their individual information needs further reducing their demands on IT.

XML information solutions builder for SOA clients: xfy Enterprise enables organizations to build and deploy SOA information driven solutions more easily and with greater functionality by using xfy visual tools and interfaces, smart XML vocabulary handling, and by separating the visual presentation from logic. The visual presentation is controlled by the end users who can easily customize it according to their individual information needs further reducing their demands on IT.

For More Information

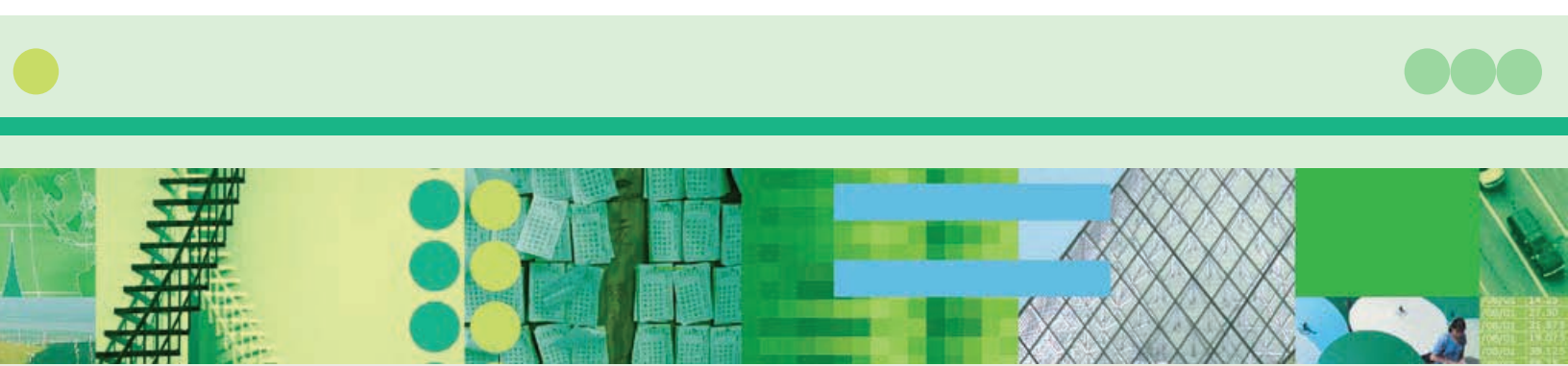
please visit <http://www.justsystems.com/>

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Nippon Chemi-Con Chooses JustSystems and IBM for XML-Based Global Information Visualization

JustSystems' xfy Enterprise and IBM DB2 9 speed delivery and reduce costs by unifying critical product data for global manufacturing leader

The Challenge

Since its founding breakthrough with aluminum electrolytic capacitors in 1931, electronics components manufacturer Nippon Chemi-Con has stood steadfast through massive change. But today's market adds globalization and environmental awareness to the traditional mandate of product innovation; it demands high-quality and manufacturing precision, plus a demonstrable commitment to good citizenship on the earth-conscious stage.

Until recently, Nippon Chemi-Con's ability to meet both these market demands was compromised by inadequate systems to control the production and distribution of its products. Without a company-wide system, some local inventories of the limited-life capacitors would go to waste while others would run dry.

Without a clear view of what's on the warehouse shelves, even the smallest manufacturer will struggle to keep the flow of products moving to keep production matching demand with as little waste as possible. For Nippon Chemi-Con, eight core production sites meant eight different systems that managed order and inventory. Enterprise-wide visibility and structure into fulfillment was almost nil, and silos of tactical data made it impossible to coordinate efforts or track performance at the corporate level.

To eliminate the confusion that resulted from multiple divergent systems, Nippon Chemi-Con decided to unify

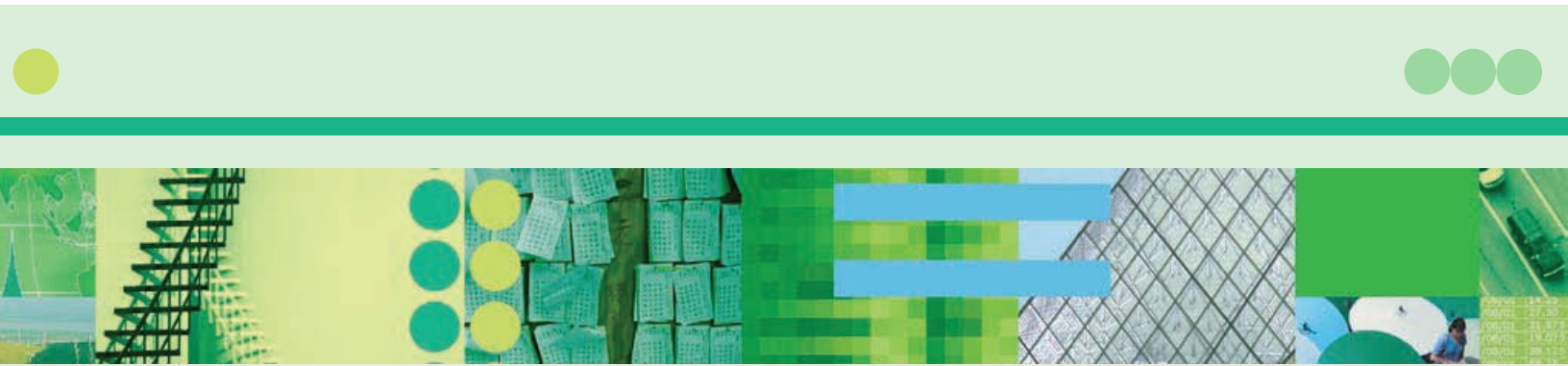
order entry across all production sites, a central system that would handle more than 180,000 orders per day for hundreds of unique products. This reality alone demanded an exceptionally robust, high-volume-tested solution. But on top of that key criteria, another more qualitative set of requirements was layered: the company wanted an interface so rich, visual and useable that employees would enjoy using it.

The xfy Enterprise & IBM DB2 Solution

The global information management system of Nippon Chemi-Con's ideal world, as they defined it, would visualize the production capacity for each site, and optimize inventory to ensure the right balance of product availability, shelf-life and demand fluctuations. It would balance the loads of production sites, and allow order managers easy access to a production 'dashboard' that would determine which production site could accommodate each order in the most time and cost-efficient manner.

To bring both open access and structured control to Nippon Chemi-Con's production data, the company chose JustSystems' xfy Enterprise.

The xfy solution seamlessly analyzes the XML data returned from DB2 9 (Nippon Chemi-Con's database of choice), automatically displaying it in highly readable, customized views.



IBM's DB2, a database management system, delivers a flexible and cost-effective database platform to build robust, on-demand business applications. DB2 delivers broad support for open standards and popular development platforms like J2EE and Microsoft .NET, and includes tailored solutions for business intelligence and advanced tooling.

In one solution, Nippon Chemi-Con would be able to meet all its functionality requirements, leverage existing technology investments and most importantly, effectively hide unnecessary complexity from end-users to encourage productivity.

JustSystems & IBM: Partners Work Together to Create a Complete View

Nippon Chemi-Con's entire fulfillment and production tracking process has been transformed from divergent silos of hidden information to a unified, enterprise-wide manufacturing system. Production sites work better together to meet customer needs, faster and more efficiently, with less waste. With xfy Enterprise, Nippon Chemi-Con can:

- Unify disparate data for seamless access, providing executives and order entry staff with an enterprise-wide view that helps them to leverage resources more efficiently
- Simplify the production 'dashboard' and enrich raw data's visual appeal to make smarter fulfillment decisions more quickly
- Reduce the time and cost required to manage both the production cycle and the data that surrounds it

Chemi-Con one week to build the baseline solution, which was easily customized as it took on a life of its own among users. An intuitive visual interface was simple for order entry staff of diverse global locations, languages and skill sets to use. A phased deployment gave the development team a chance to observe the system in the hands of end-users, and adjust the system on-the-fly for a perfect fit. And finally, xfy's commitment to open standards ensured that as Nippon Chemi-Con grew over the long-term, the system's pureXML foundation would not depend on proprietary technology, and would allow for expansion and change in the future.

About JustSystems, Inc.

JustSystems is a leading global software provider with a 27-year history of successful innovation in office productivity, information management, and consumer and enterprise software. With over 2,400 customers worldwide and annual revenues over \$110M, the company is continuing a global expansion strategy that includes the launch of its new enterprise software offering called xfy (pronounced 'x-fie') in the North American and European markets. JustSystems has worldwide office locations including headquarters in Tokyo, Japan; Palo Alto, California, and Vancouver, Canada. The company currently employs over 1,000 people. Current major strategic partnerships include IBM, and EMC.

Working with the team from JustSystems, it took Nippon



About LOGO Business Solutions

Founded in 1984 as a small software house, Logo Yazilim is now one of the largest ISV's in Turkey and has grown into a group of companies encompassing various fields of the IT sector. As a company in developing and implementing software technologies, Logo has received many industry awards and prizes, including an "Innovative Open Architecture Solution Award" from IBM, in 2005. Logo is a public company and listed in the Istanbul Stock Exchange.

Targeting mainly small and medium size businesses, Logo offers a multitude of Integrated Business Application packages to a diverse customer base operating in several different industries. The company's products currently serve over 1.000.000 users in 150.000 companies and cover 23 countries, 7 languages. During the recent years, Logo has invested significantly in e-Business technologies and Service Oriented Architectures (SOA) with the aim of carrying its customers to the 21st Century's collaborative business environment. Matching the technology and product quality with friendly service, Logo is keenly dedicated to improve its customers' competitiveness.

Unity On Demand

Unity on Demand (UoD) is a flexible, measurable new generation ERP solution that works on open platforms.

It is fully developed on Java environment and provides users with brand/platform independent working opportunity. It completely fulfills the "On Demand" trend which recently redefined the business concept.

Unity on Demand manages all the processes of organizations with a modular and integrated structure within the Supply - Production - Sales&Delivery axis. With its "Process Management" feature, Unity on Demand allows businesses to manage all functions according to work flows defined by the management. This feature provides companies with the business management ability instead of business audits.

Unity on Demand is the result of improvement of LOGO's 20+ years of know how with a platform-independent and multi-layer architecture, rather than a mere transition/transfer of an existing system to a new platform. The Unity on Demand Structure has received the 2005 IBM Open Architecture Solution award with its globally competitive technology.

For More Information

please visit <http://www.logo.com.tr>



“Hedef Alliance has a wide distribution network, and this scattered structure was resulting in inflow of data from several sources. After implementing Unity on Demand in Hedef Alliance, accounting and finance systems have been centralized.”

- Serdar Oner, LOGO Business Solutions



About Makau

Makau Corporation, Your Training Partner, specializes in custom training solutions that meet 'your' needs. Makau offers enterprise-wide, 24/7 delivery of next-generation & custom training courses in partnership with training professionals, to convert cost centers into revenue streams. Not only does Makau provide world class training, Makau provides a full featured learning management system (LMS) to manage all of your training needs, from simply tracking scores and progress, to managing complex organizational training infrastructures. Combining all these solutions onto a single server that resides inside your companies firewall and managed internally, you have the Makau Learning Appliance™.

Makau Learning Management System

The Makau Learning Management System (LMS) makes it easy for administrators to distribute courses and track progress as well as stay updated on the most current course offerings.

Administrators can manage course assignments and access a wide range of reports all from the convenience of their desks.

Similarly, students can easily see which courses they have taken or are required to take and work through them at their own pace.

The LMS helps you maintain control of this total e-learning solution:

- Eliminates redundant data entry by loading student information from your employee database or directory.
- Manage different type of users or different class administrators
- Track usage by Class, Student, or Course
- Stay current by adding new courses and course updates.

For More Information

please visit <http://www.makaucorp.com>

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On Demand

Specialty



“At Makau, we use the flexible pricing structure in connection with the powerful database abilities of DB2 to power the Makau Learning Management System. DB2 delivers a stable database for fast and flexible cross-platform implementations. DB2 also gives us an edge in the International space handling our Double-Byte character needs with ease. IBM's Integrated Stack for Linux, which features DB2 Express-C, is the powerful delivery platform we needed to match all our customers' training needs.”

Makau Corporation:

New math: IBM Business Partner substitutes DB2 9 for MySQL and saves big

Makau Corporation

A provider of online training solutions, has converted its applications from the MySQL database to IBM DB2 9 to eliminate licensing fees and provide customers with greater scalability, advanced autonomic features and optimal performance.

Challenge

Makau Learning Appliance features a library of more than 300 courses with a built-in learning management system that tracks student progress and improves course administration. Makau wanted to reduce licensing costs it paid to build its solution on MySQL. By converting to IBM DB2 9, Makau saved about \$75,000 in MySQL and Windows server licensing fees, a 30 percent reduction, for its solutions. Makau is an IBM Business Partner based in Orem, Utah. Makau offers enterprise-wide, 24 x 7 delivery of custom courses in partnership with training professionals. It combines advanced e-learning with traditional on-site workshops.

Solution

Makau ported its complete application suite to run on the IBM and Novell Integrated Stack for Suse Linux™ Enterprise (ISSLE), including DB2 Express-C 9 and WebSphere Application

Server Community Edition running on IBM System x™ servers. The IBM DB2 9 Data Server serves large and small customers, and DB2 9 Express-C 9 is available free of charge for all to use, deploy and distribute upon registration by the IBM Business Partner. Makau will no longer incur any database licensing fees, saving the company hundreds of thousands of dollars. The move also allays client concerns about maintenance because of the flexibility to

purchase DB2 Express for commercial IBM support or seamlessly upgrade to a more powerful version of DB2 without making any application or database changes. Brigham Young University will be one of the first customers to migrate its Makau solution to DB2 9.

Benefits

Makau now allows its customers to:

- Scale their applications as content size and usage grows
- Store, search and retrieve course data faster and more efficiently
- Leverage autonomic functionality that allows the database to manage itself
- Run the solution on a Windows or Linux server—and choose Linux when security, reliability and lower costs matter.

“The number one reason we moved to DB2 9 is cost savings. We were spending a lot on licenses with MySQL—and DB2 Express-C 9 is free. In addition, we feel much better about the short-and long-term support that we get from IBM for the DB2 platform—and being able to pass that on to our customers. Our clients feel much more comfortable with DB2, knowing it’s backed by IBM.”





Messaging Architects™

BUSINESS DRIVEN EMAIL

About Messaging Architects

Founded in 1995, Messaging Architects is a leading developer of add-ons and enhancements for corporate messaging servers. Messaging Architects suite of integrated applications has provided many enterprise clients, with the platform to meet their security and compliance requirements.

Messaging Architects has a staff of application developers, skilled and experienced in the development of IBM, Novell, Microsoft and Groupware integration software. Over 50 consultants, system engineers and developers work together to bring solutions that optimize the performance, availability and security of their client's IT infrastructure and help solve their critical messaging needs. It is their mission to ensure that systems are well-implemented, protected, and fully fault tolerant, while customizing policy and security controls to fit a clients particular environment.

Messaging Architects Solution Overview

In pursuing their mission to continuously explore and discover new ways to help grow businesses via an enhanced overall level of responsiveness and communication for greater employee productivity, they have developed a comprehensive solutions platform to address enterprise needs and dramatically improve, secure, and accelerate messaging and collaboration infrastructure in key areas. Their solutions, combined with IBM technologies,

M+Guardian

- SMTP Protocol Security
- Multi-Tiered Spam Engines
- Advanced Virus Technology
- Content Filtering & Attachment Blocking
- Secure Web-Based Administration & Reporting
- Policy based management
- Application-Later Clustering
- Self-Contained, Fully-Configured IBM Appliance

allow the client to ensure corporate-level email security, provide policy-driven total email retention and management, and extend collaboration to a mobile workforce.

Messaging Architects directory of services-based software is used by organizations across the enterprise spectrum, including Government, Healthcare, Education, and Financial Services. Their solutions are also recognized by the IT Press and Industry Analysts and are supported via a channel of Certified System Integrators and IT Consultants.

M+ Guardian

M+ Guardian is a secure email gateway based upon a modular and extensible Email Risk Management platform. Extremely scalable directory-enabled, it offers a new level of identity-driven and highly available collaboration.

For More Information

please visit <http://www.messagingarchitects.com/products>





About Napersoft

Napersoft is a world leader in on demand SOA-based Customer Communications Management (CCM) software for business critical customer communications solutions for the enterprise. Our international customer base includes Fortune 1000 businesses within financial services, insurance, telecommunications, utilities, government and other industries. Since our founding in 1986, Napersoft has had a singular focus. We provide mission critical, on demand CCM software solutions to businesses and organizations that must interface with their customers, suppliers and vendors 24 hours a day, seven days a week. Our customers will tell you we have excelled at that demanding task. As they have continued to deal with the evolutionary platform changes, from mainframe computers to client-server configurations to Web Services, we have stayed at the cutting-edge of customer communications technology with solutions that leverage the best those technologies have to offer. A privately held company, Napersoft has been named to the prestigious Software 500 list by Software Magazine.

Napersoft CCM

Napersoft CCM is a SOA-based Customer Communications Management (CCM) software solution for streamlining and managing document generation, customization, personalization, multi-channel distribution, archive and search. The typical ROI for Napersoft CCM deployments is greater business agility and

Napersoft CCM enables organizations to:

- Increase Customer Satisfaction
 - Reduce Processing Costs
 - Greater Business Agility to react more quickly to market changes
 - Ensure Customer Communications Compliance (SOX, HIPPA,
-

process improvements of 80% or more.

Napersoft CCM integrates with CRM, ERP, SCM and other line-of-business applications to:

- Combine customer corporate data with approved corporate content including document templates, paragraphs, prompts and images.
- Enable users to create, distribute and archive personalized documents, one-to-one customer communications via print, eMail, Fax, Web and Archive.
- Streamline enterprise business processes, allowing users to create a letter in one step, or several steps.
- Take advantage of Microsoft Word's document editing tools for greater accuracy and productivity and superior look and feel to manage approved content.

For More Information

please visit <http://www.napersoft.com/>

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About One Point Solutions, Inc.

With expertise in corporate information integration, business reporting/business intelligence and IBM database software, One Point Solutions offers businesses “one point of contact” for the latest in data and information management solutions. One Point Solutions teams with customers to provide systems which grow with their businesses and provide a competitive advantage with immediate access to core business information via dashboard-based solutions.

OnPoint Data Warehouse Bundle

Quickly obtain data from disparate sources to solve critical business issues. For the emerging enterprise in need of a single business intelligence, warehousing, and archiving solution, One Point offers OnPoint Data Warehouse Bundles.

OnPoint Business Reporting Bundle

Create customized point-and-click dashboards that allow users at every level to analyze and solve critical business issues. One Point offers a business reporting solution leveraging the flexibility of Cognos, the rock solid performance of IBM Servers and professional services to take the pain out of design and implementation. Each OnPoint reporting bundles includes Cognos 8 administrative software, report

creation with ad hoc capabilities, dashboarding, and centralized management of reporting data.

OnPoint Data Archiving, Privacy and Test Data Management Bundle

One Point Solutions adds additional value by assisting the client in selecting the correct Optim Software components (Data Growth Solution, Data Privacy Solution, Test Data Management Solution) and the services to implement the new solution.

OnPoint Upgrade and Migration Bundle

Your Informix-based system has run well for years, deployed on the technology of the day. But the hardware, application or the version of Informix you use has reached its end of life. It is a major challenge for IT to keep up with their current projects, let alone with constant migrations, which frequently create an unsupported environment and long, costly migration projects. Let One Point Solutions take the burden off your staff while finding the most cost-effective combination of hardware, database software, applications, and operating systems.

For More Information

please visit: <http://www.one-point.com>



“With expertise in corporate information integration, business reporting/business intelligence and IBM database software, One Point Solutions offers businesses one point of contact for the latest in data and information management solutions. One Point Solutions, utilizing best in class products from IBM Information Management, teams with customers to provide systems which grow with their businesses and provide a competitive advantage with immediate access to core business information via dashboard-based solutions.”

- Rob Vorbroker, COO, One Point Solutions



About Parallels

Parallels (formerly SWsoft) is specialized in virtualization and automation software that optimizes computing for consumers, businesses, and service providers across all major hardware, operating system, and virtualization platforms. Founded in 1999, Parallels is a fast-growing company with 900 employees in North America, Europe, and Asia.

Virtuozzo - Server Virtualization

SWsoft Virtuozzo enables the virtualization of I/O intensive applications like IBM DB2 databases with no performance overhead penalty. Use Virtuozzo to consolidate IBM DB2 databases in fewer physical servers increasing utilization, improve availability through Virtuozzo's Live Migration capability and reduce IT management complexity by leveraging Virtuozzo's mass-management tools.

Virtuozzo creates isolated partitions or Virtual Environments on a single physical server and OS instance to utilize hardware, software, data center and management effort with maximum efficiency.

- Intelligent Partitioning divides a server into as many as hundreds of VEs with full server functionality.
- Complete Isolation ensures that the VEs are secure and have full functional, fault and performance isolation.
- Dynamic Resource Allocation of key system resources such as CPU, memory, network, disk and I/O enables near real-time changes.
- Management Tools include full suite of tools and templates for

For More Information

please visit <http://www.parallels.com/>

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About PolyServe

PolyServe software consolidates servers and storage into manageable, scalable and available database and file serving utilities. This approach overcomes the limits of server virtualization to extend consolidation benefits to mission-critical applications, and addresses all three major data center cost footprints: hardware, software and storage. Customers typically see configuration and management time slashed by as much as 75%, and total cost of ownership lowered by more than 50%. More than 500 organizations worldwide are deploying PolyServe's products to build computing utilities for mission-critical database services and file services.

The PolyServe Database Utility™

The PolyServe Database Utility™ for DB2 allows customers to build extremely powerful parallel database server farms with built-in fault tolerance resulting in lower total cost of ownership, better asset utilization, and much improved system availability. DB2 brought the required parallel database software to market at an attractive price point. When used in conjunction with low priced Intel-based servers, and the PolyServe Database Utility™ software, these technologies make it possible to build fault tolerance parallel database server farms which can be managed as easily as a single large Unix system. IT organizations are looking for ways to achieve higher performance from DB2 databases, but at the same time achieving higher availability, and lowering total cost of ownership. They want to continue to meet or beat SLAs, consolidate underutilized servers and active-passive pairs, and drive a high availability model where every server node becomes a backup to the other nodes, and failover and recovery

With the PolyServe Database Utility™ for DB2 our customers have been able to:

- Achieve higher availability of DB2 and applications
 - Reduce cluster configuration and management time by up to 75%
 - Use the single cluster-wide DB2 "home" for easy installation, configuration, and updating
 - Cut capital and operating expenses dramatically
-

are fast and reliable. Until now it appeared that IT had to compromise on at least one of the dimensions: performance, availability, TCO, or manageability. The combination of DB2, low cost powerful x86 servers, and PolyServe's Database Utility™ for DB2 eliminates the need to trade-off availability for cost, or performance for manageability. A key ingredient to a complete solution for high-performance parallel database processing is advanced clustering software such as that contained in the Database Utility™ for DB2. The clustering software in PolyServe's Database Utility™ for DB2 provides:

- A better way to manage shared database storage with a storage area network (SAN) with multi-path I/O support and no single point of failure
- Higher application and data availability
- Industry leading scalability and parallel database performance
- Easy rebalancing of load within the cluster without data migration
- "Point to" provisioning of servers in the cluster
- A single point of installation, configuration, and updates through a cluster wide shared DB2 "home"

For More Information

please visit <http://www.polyserve.com> and

http://www.polyserve.com/db2_consolidation.php

http://www.polyserve.com/pdf/CDS_Case_Study.pdf





About Protegrity

Protegrity delivers centralized data security management solutions that protect sensitive information from acquisition to deletion across the enterprise

Protegrity's customers maintain complete protection over their data and business by employing software and solutions specifically designed to encrypt and hash data, safeguard web applications, and manage and report on security policy. Customers maximize security with minimal business impact by deploying Protegrity's Defiance Suite, the high performance, transparent, security solution optimized for the dynamic enterprise.

Protegrity is staffed by security industry professionals with deep expertise in encryption, web application firewalls, security policy, and key management in distributed environments who are well versed in the current regulatory environment.

Defiance Data Security Suite 4.5

Defiance Data Security Suite provides enterprise data protection of applications, databases, files and folders through encryption of sensitive data, centralized policy and key management while providing

reports and forensics. With its web application firewall, Defiance Suite ensures compliance with industry and government mandates and secures against internal and external threats. Defiance Suite protects sensitive data that typically resides on multiple platforms and databases throughout an organization thereby minimizing the development, support and implementation time associated with platform specific solutions.

Defiance Data Security Suite is a three component, software enterprise solution protecting sensitive data from acquisition to deletion with policy and key management of the encryption of all sensitive data including credit card numbers for PCI DSS compliance as well as PII protection needs.

Defiance Enterprise Security Administrator (ESA) - centralized policy and key management, reporting and forensics.

Defiance Threat Management System (TMS) - web application firewall securing large-scale distributed deployment of web applications and services.

Defiance Data Protection System (DPS) for Informix, plus files, folders and applications - high performance, enterprise software encryption solution for all types of sensitive data at the point of application, file, folder or database storage and use.

For More Information

please visit: <http://www.protegrity.com>



“Many of Protegrity's clients rely on IBM DB2 and associated platforms in their data centers, and tell us that IBM provides them with the performance and advanced features they demand, supporting their business processes and dramatically reducing maintenance and support chores and costs. Protegrity in support of all major IBM platforms for data security looks forward to working in partnership with IBM to provide enterprises with the trustworthy solutions they need to manage risk and grow their success.”

- Paul Giardina, Senior Vice President Marketing and R&D, Protegrity.



About Quest

Quest Software, Inc. delivers innovative products that help organizations get more performance and productivity from their applications, databases and Windows infrastructure. Through a deep expertise in IT operations and a continued focus on what works best, Quest helps more than 50,000 customers worldwide meet higher expectations for enterprise IT. Quest's Windows Management solutions simplify, automate and secure Active Directory, Exchange and Windows, as well as integrate Unix, Linux and Java into the managed environment. Quest Software can be found in offices around the globe and at www.quest.com.

Products

Toad® for IBM DB2 simplifies database development and improves productivity for DB2 developers, DBAs and business analysts by providing an intuitive graphical user interface to DB2 on LUW and z/OS. Toad for DB2 improves productivity and shortens development cycles by providing a single console for:

- Generating and Tuning SQL
- Creating and debugging stored procedures
- Viewing and editing Object DDL
- Automation of basic object management, and more

Quest Central® for DB2 combines all of the DB2 administration functionality DBAs need to improve database performance and DBA productivity for DB2 on z/OS, OS/390, Linux, Unix or Windows from a single console that incorporates:

- DB2 diagnostics and monitoring
- Database administration
- SQL tuning

Quest Software Solutions for IBM DB2 for developers and DBAs

- Maximize your investment in IBM DB2
- Extend your DB2 resources
- Automate manual tasks
- Satisfy Service Level Agreements
- Optimize DB2 performance

- Comprehensive space management

Spotlight® on DB2 diagnoses performance problems on DB2 for LUW and z/OS in real time by graphically displaying all database activity in an intuitive user-interface, enabling you to respond quickly to issues that need attention.

Benchmark Factory® for Databases enables organizations to test the performance and scalability of DB2 for LUW before deploying application changes, or new hardware or software into production.

- Replays production workload in test environment
- Generates simulated user and transaction load on the database
- Tests performance and scalability using standard benchmarks like TPC-C and TPC-H

For More Information

please visit www.quest.com





About Reflexis

Reflexis is the pioneer and leading provider of Retail Execution Management solutions. The company's fully integrated RetailAction suite offers task management, labor scheduling, store walk, and KPI applications for retailers to improve store-level productivity and create a consistently positive experience for consumers that drives increased sales. Reflexis solutions enable retailers to consistently execute their corporate strategy and increase sales by 2 to 5 percent. Due to its functionally superior and highly configurable software, proven implementation methodology, and dedicated project teams, Reflexis is able to implement its solutions enterprise wide and across multiple store formats in 21 weeks or less. The company also enjoys a track record of 100 percent on-time and within budget implementations. Some of the best-known retailers in the world have affirmed the scalability and reliability of RetailAction solutions and the company's intense dedication to customer service. Reflexis is privately held and was founded in 2001. The company is based in Dedham, Massachusetts and has international offices in the United Kingdom and India.

Reflexis RetailAction Task Manager v 13.0

Task management application that allows retailers to coordinate planning, streamline communications, and launch and track

corporate projects such as merchandising promotions, new product introductions, store re-sets, and operational improvements in all stores. Corporate planners can optimize and prioritize workloads; store-level productivity is boosted and task priorities are aligned with the retailer's goals. Management can view store activity in real-time and leverage alerts to focus their attention where it is most needed. The system's support for role-based assignment means tasks are assigned to the right employee at the right time -- if an employee is out, the task will be assigned automatically to the next employee at the store who is qualified to do the job. Highly configurable software supports a retailer's business processes without requiring millions of lines of unmaintainable custom-written code. Completion surveys can be attached to assigned projects, enabling managers and associates to provide two-way feedback -- as they complete their work -- to headquarters to support continuous improvement efforts. Solution supports the embedding of best practices, allowing a retailer to institutionalize operations excellence across its entire company.

For More Information

please visit <http://www.reflexisinc.com/>



“Reflexis and IBM already share customers who have implemented RetailAction™ solutions on IBM DB2 data servers. Our recent validation on the IBM Store Integration Framework allows us to work even more closely with IBM in delivering open, flexible solutions for retailers.”

- Murtaza Ghadyali, VP of Product Management, Reflexis Systems



About Reset2

RESET2 Sp. z o.o. has been on the market since 2001 and it continues the business activity of RESET Computer Systems s.c. which was founded in 1992. The company deals with designing, sales and implementation of IT systems which support company management. They specialise in HR and payroll systems. Since 1992 they have already created four generations of systems which are highly compatible and cooperative with financial and bookkeeping systems of other producers. The systems of R2platnik family are used by over two thousand companies which service one hundred thousand employees. Their wide popularity with accounting offices demonstrates a high level of functionality. Our products offer a broad range of possibilities combined with ease of operation. At present, these systems set the standard for HR and payroll software in Poland. In 2004, Reset2 became an SAP partner in the field of complementary solutions. The employees and partners of Reset2 are highly qualified and have over a decade of experience in designing and implementing IT systems. Customer satisfaction and high standards of operation are values for Reset2. The quality of software and level of rendered services are well reflected in numerous reference letters which are made available on our website.

Solutions

- R2platnikPRO is an HR and payroll system which can work on different IBM DB2 database. The application enables the management of HR and organisational structure of a company, calculating remuneration and automatic clearings with a tax office

and a social insurance office. The program works efficiently and steadily in computer networks and it includes security mechanisms which protect against illegal access to information written in the database. The system design is a result of many years of experience of IT specialists and the knowledge of experts in HR and payroll in Poland. The software can cooperate with any financial and bookkeeping systems, worktime recording systems, bank systems, external report generators and applications required and used by state institutions.

- R2platnikPRO includes mechanisms for full control of introduced data, the system of specific prompts and explanations for calculating particular remuneration components. The functions of serial counting (automatic registrations to Social Insurance Office, filling in work cards, counting limits of annual leaves, global calculation of payroll) are useful particularly in companies with a large number of employees. The system ensures a detailed clearing of remuneration costs and significantly facilitates making personnel decisions.
- R2platnikPRO is equipped with ready sets of remuneration components. It easily modifies payroll definitions, which allows to essentially reduce time, implementation costs and system operation. The price of the program depends on the employment size and the number of users. All updates of the program and calculation parameters are made available through the internet. The system is beneficial for all company sizes from small-medium sized businesses to large enterprises.

For More Information

please visit <http://www.reset2.pl/>

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About Sky Solutions

Sky Solutions is a provider of Performance Management and Business Intelligence solutions. Sky provides custom and packaged business-ready solutions to medium and large companies. Sky has significant experience in implementing Performance Management solutions for companies in various industries with special focus and pre-built solutions for Manufacturing and Wholesale Distribution, as well as Banking. These solutions leverage the vast expertise Sky has gained in developing Data Warehouse and Business Intelligence Solutions using the latest technologies and industry best practices.

Over the years Sky has served more than 300 successful customers in North America. Sky has also been designated by Cognos as a Platinum partner for the past 8 years and a Premier Partner by IBM. Sky serves clients throughout North America from locations in New Jersey, Georgia, and California as well as a development center in Romania.

Business-Ready Performance Management Solution for Manufacturing

Sky Solutions is proud to announce that it has released a Manufacturing industry version of its Business-Ready Performance Management Solution. Through these Business-Ready Performance Management Solutions, Sky and IBM are teaming to address the needs of businesses to accelerate implementation time-to-results, reduce implementation risk, and develop a single procurement source for information management. These solutions consist of Sky's Business-Ready Methodology, a KPI Repository, and capabilities such as its Performance Dashboard Mockup Tool and Scorecard Interface. Sky's innovative Information Management solutions leverage IBM Cognos Business Intelligence, IBM InfoSphere products, and additional IBM products. The Manufacturing industry version includes all of these tools, with key performance indicators, dashboards, and additional content specifically tailored to the Manufacturing industry.

For More Information

please visit <http://www.skysolutions.com/>





About Skytide

Skytide is a leading provider of next-generation analytical solutions that provide an unprecedented view into what is driving business performance. Skytide is the only business intelligence solution built on pureXML, to deliver seamless analytics to XML databases like IBM DB2 9. Able to analyze both structured and unstructured data, Skytide's breakthrough technology uses XML as a common layer to dramatically reduce system complexity, while offering advanced functionality that cannot be achieved by traditional BI technology. Skytide is used in industries including Insurance, and Financial Services as well as other businesses that generate large volumes of mission-critical unstructured and semi-structured data.

IBM's support for pureXML, combined with Skytide's support for native XML analytics, enables joint customers to achieve a 5-to-10 times performance improvement compared to a traditional relational database paired with a conventional BI platform. The tight technical integration between Skytide and IBM DB2 9 reduces the amount of data DB2 needs to send back to the Skytide analytical engine, dramatically accelerating analysis.

Skytide Analytical Platform

The Skytide Analytical Platform allows companies to understand the root causes behind changes in key business metrics by

How Skytide is different

- Skytide issues queries to DB2 in XML to select the exact information needed for analysis, rather than having to select the entire BLOB or CLOB as when the data is stored in a relational database.
- Skytide generates XQuery expressions on the fly and sends them to DB2 for extremely fast data access, while the Skytide analytical engine turns this data into measures and dimensions for analytical applications.
- No tedious and error-prone XML "shredding" into relational

concurrently analyzing traditional and non-traditional sources of data. Skytide uses XML as a common layer to tie together different pieces of the BI stack into an integrated, "virtual" technology stack, enabling companies to quickly and efficiently analyze all data sources, including semi-structured data such as log files, XML, and HTML. Because Skytide operates on data where it resides, companies are able to analyze massive volumes of data in near real-time, without ETL or a data warehouse. Skytide leverages the native XML support in DB2 9 to enable businesses to analyze their XML data directly in DB2 9, without the costly and time consuming process of "shredding" the XML into a form suitable for analysis. Skytide with DB2 9 extends your company's analytical framework to more data, delivering more thorough, insightful and actionable business intelligence.

For More Information

please visit <http://www.skytide.com/>

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About SOPRANO

Soprano Design makes mobile messaging and wireless applications relevant and valuable to businesses. Their technology, applications and solutions simplify and automate critical, but common personal interactions to improve staff, customer and supplier communication. Their core software infrastructure and flagship product SOPRANO CGP that sends, routes and receives SMS, MMS and 3G traffic, underpins these solutions, which are accessible to everyone.

SOPRANO Mobile Enterprise Messaging Suite (MEMS)

SOPRANO Mobile Enterprise Messaging Suite (MEMS) provides Mobile Network Operators with a growing suite of sophisticated value-added mobile messaging applications to increase SMS, MMS and Email revenue.

SOPRANO Campaign Manager

CSOPRANO Campaign Manager is a complete SMS, MMS and Email mobile marketing and 2-way communication solution. Use SOPRANO Campaign Manager to interact with customers, suppliers and staff in real-time. SOPRANO Campaign Manager supports broadcast and inbound messaging, database acquisition and permission marketing processes.

SOPRANO StaffMatch

SOPRANO StaffMatch is a real-time shift vacancy notification and shift fulfillment solution that is integrated with leading HR and payroll applications. SOPRANO StaffMatch eliminates the tedious task of calling to offer and confirm work shifts instead using SMS to automate the interaction with shift employees - freeing up staff and management time, and reducing unfilled positions.

SOPRANO Reminder

SOPRANO Reminder is an automated SMS reminder and notification solution with a wide variety of uses such as: pre-sales notifications, product pickup notifications, payment reminders etc.

SOPRANO Mobile Authenticator

SOPRANO Mobile Authenticator is a 2-factor authentication solution that replaces physical tokens with an SMS one-time-password. SOPRANO Mobile Authenticator can be used to manage VPN authentication and Internet login security of online databases and customer information, providing an extra layer of protection against online data theft.

For More Information

please visit: <http://www.soprano.com.au>



“SOPRANO StaffMatch means we get our shifts filled with a couple of mouse clicks. No more spending hours ringing around chasing people to staff our promotional activities”

- David Smith, Promotions Manager, Australian Radio Network



SPACE
TIME
RESEARCH

About Space-Time Research.

Space-Time Research provides Self-Service Business Intelligence for government and has offices in Australia, the United States and the United Kingdom and a global network of partners.

SuperSTAR

The SuperSTAR Self-Service Business Intelligence Platform is easier, faster and safer for government users. Customers include major National Statistics Offices (NSOs) and agencies for defence, education, welfare, transportation, health, finance and law & justice. The STR SuperSTAR Platform is an end-to-end solution providing self-service analytics and business intelligence, interactive web publishing, privacy and confidentiality protection, mapping and visualization.

SuperSTAR Suite used by the following:

- **US Bureau of Census**

National Statistical Organization - Census Tabulation

- **Statistics Austria**

National Statistical Organization - Census Tabulation and Dissemination

- **Port of Venice**

Transportation - Transport Statistics and Infrastructure Investment Decisions

- **Australian Tax Office**

Federal Government

For More Information

please visit: <http://www.spacetimeresearch.com>



“SuperSTAR integrates with DB2 to support efficient, scalable loading and updating of the Self Service Business Intelligence Solution for government. In addition, DB2 is used as a repository for descriptive metadata, including support for multilingual descriptions of any database element. The integration with DB2 helps to uphold our promise of providing a safer solution by ensuring that results are clear and unambiguous.”

- Don McIntosh, Director of Product Marketing, Space-Time Research



About SSP

SSP is an agile international company with a broad spectrum of knowledge, talent & technology for insurance & financial services, dedicated to long-term business advantage through complete solutions. International Company - Offices in all the key commercial continents with over 40,000 insurance & financial services professionals in over 50 countries. Agile - Offering brokers, insurers & financial advisers of all sizes the benefits & security of a global business with the flexibility of a local provider. Broad Spectrum of knowledge, talent & technology - With over 24 years experience of insurance & financial services & 750+ of talented IT professionals, SSP is placed to offer a wide choice of solutions across multiple IT platforms. Long-term Business Advantage - SSP works closely with its clients to build long-lasting relationships; many have remained loyal to SSP for 15 years or more with over 60% having been with SSP for over eight years. Complete Solutions - Offering more than just products, SSP has a proven track record & a commitment to delivery, giving customers peace-of-mind. 20 of the top 50 global insurers, 30 of the top 50 UK brokers & 4 of the top 10 UK financial advisers trust SSP to look after their business.

SSP Insure J

InsureJ is a comprehensive enterprise scale component-based General Insurance system spanning Customer Management, Policy Administration, Claims Management, Reinsurance Processing, Billing and Collections, and Management Information. These components may be implemented individually or as a holistic unit.

The system easily interfaces with other applications and provides feeds to 'downstream' applications such as a General Ledger and Data Warehouse. It contains inbuilt real-time financial reconciliation processes that ensure financial integrity at an individual transaction level.

InsureJ is customer-centric, which means that a single view of each customer's relationships is presented. This results in a better understanding by insurers of individual customers, and supports the provision of superior customer service. Cross-selling opportunities are also easier to recognize and act upon in this environment.

For More Information

please visit: <http://www.ssp-worldwide.com>



“SSP has worked with IBM since 2001 to conduct application performance and scalability trials to ensure that our JEE offering (InsureJ) will perform and scale on WebSphere Application Server and DB2. We found that DB2 is a database that can be used effectively throughout the entire development lifecycle right through to production. We believe that DB2's enterprise features make it the best choice for today's general insurance companies.”

- Stephen Down, Chief Architect, SSP Worldwide Inc.



About Streambase

StreamBase Systems, the leading provider of high-performance Complex Event Processing (CEP) software, was founded by Dr. Mike Stonebraker, a pioneer of database research and technology for more than a quarter of a century.

StreamBase's enterprise-class software platform processes up to hundreds of thousands of messages per second and is built on CEP's de facto programming standard, StreamSQL™, the next-generation SQL-based language for streaming data. StreamBase's customer base includes leading organization in financial services, government and military, telecom and networking, and e-Business.

Today, a seasoned management team and strong technical talent, backed by world-class investors, are driving the company toward a vision of doing for real-time data what the relational database has done for stored data. StreamBase is headquartered in Lexington, Massachusetts with offices in New York, Washington, D.C., and London.

Stream Processing Engine

StreamBase's award-winning Stream Processing Engine, fueled by the standards-based next generation query language, StreamSQL™ and an Eclipse-based development environment, offers the fastest Complex Event Processing (CEP) software for processing of real-time and historical data. With StreamBase and StreamSQL, enterprises can query, process, and analyze real-time and stored data at rates of up to hundreds of thousands messages/second. In addition, StreamBase offers unmatched integration with DB2, enabling organizations to capturing, store, and query real-time and historical data. And, because StreamBase offers the industry's most advanced graphical integrated development environment (IDE), organizations are able to realize rapid time-to value by building high performance applications in a matter of hours or days. StreamBase's combination of real-time performance, persistence, and graphical programming empowers enterprises to solve new classes of business challenges in a more timely, scalable, and cost effective manner than custom-coding. A downloadable version of StreamBase's software is available on the website.

For More Information

please visit www.streambase.com



“By filtering, aggregating, and analyzing high-volume real-time data streams before loading into IBM® DB2 database, StreamBase empowers users to derive the greatest business insights from both real-time and stored data.”

– Barry Morris, Chairman & CEO, StreamBase Systems, Inc.



About Symantec

Symantec is a global leader in infrastructure software, enabling businesses and consumers to have confidence in a connected world. The company helps customers protect their infrastructure, information, and interactions by delivering software and services that address risks to security, availability, compliance, and performance. Headquartered in Cupertino, Calif., Symantec has operations in 40 countries.

Veritas Storage Foundation for DB2 HA

Veritas Storage Foundation for DB2 HA enables powerful manageability, optimum performance, and continuous access to DB2 databases. It also provides high availability services to protect against unexpected hardware and software failures. Veritas Storage Foundation for DB2 HA is built upon Veritas Storage Foundation and Veritas Cluster Server, which combines the industry's leading volume management, file system and clustering technologies.

Symantec Indepth for DB2

Symantec Indepth for DB2, is an application performance management solution that helps you improve end user response time by proactively monitoring, analyzing, and tuning your DB2-based applications. The software provides a complete view of application performance by capturing, measuring, and correlating performance metrics from each supporting tier of your DB2-based custom applications infrastructure (web server, application server, database, and storage). When problems are detected, Symantec Indepth for DB2 helps you pinpoint the cause and identify the most effective course of action.

For More Information

please visit <http://www.symantec.com>



“Veritas Storage Foundation is a revolutionary step in Symantec’s commitment to help our customers optimize their multi-platform data center environments. Leveraging our cross-platform heritage, we have delivered the only solution in the industry that provides data center-wide visibility into the entire storage environment, with unprecedented power to control and manage that environment.”

- Senior VP of Symantec's Data Center Management Group



About Symphony Metreo

Symphony Metreo helps organizations meet their financial goals of Revenue and Margin with innovative solutions that align and synchronize top-down planning with bottom-up execution by focusing on the strategic levers of Price, Volume and Cost. Symphony Metreo applications bring together the functional areas of the business providing the foundation to empower the organization to make the time-critical, high-value decisions that turn corporate goals into reality. Symphony Metreo is a wholly-owned subsidiary of the Symphony Technology Group, a \$1.2 billion strategic holding company.

SymphonyRPM

The SymphonyRPM platform provides unique capabilities for rapid performance management and decision processing, including real-time visibility into expected business performance, probing root cause and what-if analysis. Workflow capabilities help to automate the end-to-end process for fast execution. Whether you are a company looking to provide additional value to your customers or simply want to improve your own internal business performance, building performance management solutions with SymphonyRPM is the right choice.

The SymphonRPM platform brings together for the first time all the required elements for building effective performance management solutions, such as:

- Dynamic rules-based modeling framework
- Iterative what-if scenario environment
- Robust collaborative Web-based analytics
- Real-time alert notification engine
- Powerful write-back to operational sources

SymphonyRPM-based solutions enable managers at all levels of the company to make faster and higher-quality decisions. In contrast to traditional analytic approaches SymphonyRPM based solutions are focused on predictive, forward-looking analysis and planning, rather than just reporting historical data. SymphonyRPM leverages IBM DB2 for its scalability and reliability and is deployed at over 100 customers across many industries and is OEM'ed by industry leading ISV partners.

For More Information

please visit www.symphony-metreo.com





IntelliVIEW for DB2 Express-C

Enabling Reporting and Analytics for DB2 Express-C

The DB2 Express-C community can now enable reporting and analysis on their data with IntelliVIEW for DB2 Express-C. Available as an integrated solution with DB2 Express-C, it makes reporting and analysis possible from DB2 Express-C databases without needing any data preparation.

DB2 Express-C users can download this freely licensed version to create, analyze and distribute reports.

IntelliVIEW for DB2 Express-C empowers business users with self-serve reporting and analysis and creates new ways of leveraging DB2 Express-C data.

The drag and drop report creation interface, point-and-click data analysis capability and easy report distribution mechanism together make IntelliVIEW for DB2 Express-C a compelling solution for DB2 Express-C users.

And, it is Free!

IntelliVIEW for DB2 Express-C benefits

- Enables Reporting and Analytics on DB2 Express-C data
- Delivers Operational Business Intelligence
- Doesn't require any data preparation

Features Overview

Report Creation

- WYSIWYG report creation interface
- Visual query builder
- Powerful charting capability
- Multiple report types
- Export reports to popular formats

Report Analysis

- Drag-and-drop analysis interface
- Grouping, Sort, Filter, Cell highlighting
- Range grouping, Date Analytics, Drill down charting
- Exception highlighting, Conditional formatting
- Offline analytics

Visit <http://www.synaptris.com/go/db2expressc> to download this freely licensed product from Synaptris.

For More Information

please visit <http://www.synaptris.com/>

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Synaptris Product Overview

IntelliVIEW Designer for DB2 Express-C:

A desktop report creation solution, it allows report designers to connect to DB2 Express-C databases directly, auto-generate queries, build report formats, preview reports, and email them to users.

The intuitive Report Design IDE (Integrated Development Environment) and the object oriented explorer bring a lot of ease and efficiency while designing reports. Report Designers can connect to the databases and visually construct SQL Queries in a few mouse clicks. The powerful grid report functionality available in IntelliVIEW Designer allows developers to create analysis ready reports in a matter of minutes. Users can then consume these reports using IntelliVIEW Report Analyzer for DB2 Express-C

IntelliVIEW Report Analyzer for DB2 Express-C:

A report viewing and analysis component, it empowers business users to perform on-the-fly analytics on their reports. It has a familiar spreadsheet like interface that is extremely easy to use for business users. IntelliVIEW Report Analyzer for DB2 Express-C provides powerful point-and-click analysis capabilities that

help business users get better insights into their data.

Deployment scenarios

The following are some of the common scenarios for deploying IntelliVIEW products:

Scenario 1: Manual Distribution (Free Licensing)

The reports are created using IntelliVIEW Designer for DB2 Express-C. The created reports are emailed to business users. Business users view/analyze the reports using their local installation of IntelliVIEW Report Analyzer for DB2 Express-C.

Scenario 2: File Server based Distribution (Free Licensing)

The reports are created using IntelliVIEW Designer for DB2 Express-C. The created reports are hosted in a central File Server. Business users access the reports from the File Server and view/analyze them using their local installation of IntelliVIEW Report Analyzer for DB2 Express-C.

Scenario 3: Application Integration

The reports are created using IntelliVIEW Designer for DB2 Express-C. The created reports are integrated into a web

application using IntelliVIEW SDK. Business users access the reports at real-time from the web application and view/analyze them using a local installation or the online version (OCX) of IntelliVIEW Report Analyzer. This report integration requires a paid license of IntelliVIEW SDK.

Scenario 4: Web Enabled Reporting Portal

The reports are created using IntelliVIEW Designer for DB2 Express-C. The created reports are published to a web portal using IntelliVIEW Reporter. Business users access the reports at real-time from the web portal and view/analyze them using a local installation or the online version (OCX) of IntelliVIEW Report Analyzer. This report integration requires a paid license of IntelliVIEW Reporter.

Note: IntelliVIEW SDK and IntelliVIEW Reporter are not part of IntelliVIEW for DB2 Express-C. Please visit: <http://www.synaptris.com/products/reporting-analytics/index.html> to know more about how you can use IntelliVIEW in Scenario 3 & 4.





About Syncro Soft

Syncro Soft is a privately held software company founded in 1998 with a large area of expertise in XML technologies: XML Schema, Relax NG, Schematron, XSLT, XPath and XQuery. The main product <oxygen/> XML Editor provides the best coverage of the today XML technologies; it complies with the established standards released by W3C and other organisations and enhances developer productivity through an intuitive and innovative XML IDE. Syncro Soft is a member of the W3C.

<oxygen/> XML editor

<oxygen/> XML editor has a large number of features for the editing of the XML related documents. Some of the features include an XML Editor with an XML outliner and model view, XML Schema Editor and XQuery editor and execution. The support for IBM DB2 pureXML database includes: multiple server connections, resource management, XML Schema registration, XQuery and SQL execution and table data editing. <oxygen/> is a multi-platform XML Editor, XSLT/XQuery Debugger and Profiler. It supports XML, XSL, XQUERY, FO, XSD, RelaxNG, NVDL, DTD, Schematron, WSDL and CSS documents. It offers an intelligent code insight and support for IBM DB2 9 pureXML. The product is available both as a standalone application and as an Eclipse plugin.

<oxygen/> offers a powerful code insight that can follow a DTD, Relax NG or an XML Schema or even can learn the structure from a partial edited document. XML and XSL documents can be easily associated one with the other and the transformation results can be viewed as text or HTML. Oxygen XML Editor provides a visual schema editor for W3C XML Schema and Relax NG schema. Oxygen validates XML, XSL, XQUERY, FO, XSD, RNG, RNC, NVDL, DTD, Schematron, WSDL and CSS content, reporting errors with description and line number information. It comes with the latest Docbook DTD and stylesheets. Includes the Apache FO Processor, being able to generate PDF and PostScript. <oxygen/> provides a special layout when entering in debugging mode to show the source and the stylesheet documents side by side and to show also the results and special debugging views. Debugging and profiling can be done using the latest versions of Xalan, Saxon 6 or Saxon 8 transformation engines. The output is dynamically presented as it is generated by the transformation process complete with mapping to the source and stylesheet. A complete diff and merge solution is also available in oxygen. <oxygen/> makes easier the document sharing between content authors by including a Subversion Client. <oxygen/> provides support for importing database content, Excel sheets and text files into XML documents and editing support for IBM DB2 9 pureXML.

For More Information

please visit <http://www.sync.ro/>

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About Synergix

Having been in the market for 17 years, Synergix Technologies has grown from a young software reseller to a mature ERP solution provider with the full grown proven solution, TaskHub.

Currently supporting more than 2000 concurrent users regionally (figures as of 2006), our presence span across regions including Malaysia, Thailand, Indonesia and Vietnam. Users of TaskHub spread across industries including manufacturing, trading & distribution and project-related industries. Using TaskHub has since allowed our customers to achieve great improvement in terms of their entire group's communication, collaboration and overall efficiency.

TaskHub Solution

TaskHub, the 1st local web-based ERP solution to be awarded with IBM "Built-on-Express" portfolio certification in 2005 allows you to manage your business effectively across the globe, anytime, anywhere. TaskHub is tailored for SMEs who are seeking for growth in their business at the right cost. Comprising more

than 20 modules, TaskHub offers you a range of comprehensive and well-integrated solutions that caters to the needs of different departments within your organisation. With a unified platform, user interface and centralised data repository; no longer will your employees face problems of duplicated work and inconsistent data. Instead, you will enjoy the seamless operation of real-time information flow and unified data sharing that will translate to higher productivity across your business.

Information sharing need not be compromised with lack of security. TaskHub, a user-role based solution allows you to control security access of every screen in TaskHub right from screen access and up to sensitive information blockage.

Taking care of our customers with a global presence, TaskHub supports multi-currencies; it is also localised into various languages and more importantly, localised into the context of the standard accounting requirements for the respective ASEAN regions.

For More Information

please visit www.synergixtech.com



“TaskHub is developed in J2EE framework which is an open standard software and is capable to run on any platform. Together with the powerful abilities of IBM's DB2, TaskHub delivers a scalable and robust solution to cater to the needs of our customers.”



About Texas memory Systems

Since 1978, Texas Memory Systems (TMS) has specialized in high bandwidth, low latency, I/O-intensive storage systems. While the primary feature of our products has always been high performance, we achieve this performance without resorting to overly complex circuitry or unwieldy protocols. This emphasis on simplicity allows Texas Memory Systems to deliver outstanding performance using mature technologies and readily available off-the-shelf components. Texas Memory Systems originally designed systems to meet the needs of the U.S. defense industry, a primary customer throughout our 25-year history. This market has always demanded the ultimate in performance, and Texas Memory Systems has always delivered it. Texas Memory Systems now brings its expertise to the commercial SAN market. The RamSan product line, our eighth generation solid state disk product, delivers a level of performance previously unavailable in a commercial storage product.

RamSan-400

The RamSan, the World's Fastest Storage®, accelerates any application waiting on conventional storage devices due to latency, bandwidth, or I/O. The RamSan, the World's Fastest Storage®, accelerates any application waiting on conventional storage devices due to latency, bandwidth, or I/O. OLTP, ERP, non-linear video editing, and other high-resource applications can receive instant performance improvements by simply moving all or part of the application onto a RamSan Solid State Disk. The

RamSan uses RAM chips as its primary storage media. This, combined with high speed interface controllers, allows it to perform up to 400,000 I/Os per second and transfer up to 2800 MB per second through eight Fibre Channel links. It contains redundant internal UPS systems and redundant backup drives to ensure complete non-volatility. If power is lost, the RamSan will remain powered long enough to complete the backup of all data onto the backup drives. It appears no different than any other storage subsystem to the network or server it is connected to, and has a variety of management features including LUN masking, SNMP broadcasting, and a browser-based Java management applet. The RamSan offers higher performance and higher reliability than any competing solid state disk. The system provides over 400,000 random IOPS or close to 2.8GB per second of random bandwidth, and includes IBM Chipkill™ technology to protect data if a memory chip fails. The RamSan also includes redundant batteries and backup hard disk drives to protect data in the event external power is lost. The RamSan allows an application to support higher number of concurrent users with better response times. If applied for a batch processing application, it helps that batch process complete more quickly. The RamSan helps customers maximize the performance of their servers and applications.

For More Information

please visit <http://www.texmemsys.com/>



“Texas Memory Systems RamSan solid state disks accelerate IBM DB2 based applications by storing frequently accessed logs, indices, and tablespaces. Customers using our combined products can expect to receive from 40% to 7x improvement in their application performance. In addition to being certified Ready for DB2, the RamSan is also Total System Storage Proven.”

THEMIS

About Themis Computer

Themis is a leading provider of hardware and software solutions for mission-critical applications in aerospace, data/telecom, military, and commercial markets. Themis' hardware products incorporate features designed to ensure high reliability and availability while reducing the risks of failure caused by extreme environments. Themis Computer is headquartered in Fremont, California and offers worldwide service and support.

Introducing an Award Winning High-Availability and Workload Management Appliance

Themis Computer, an IBM® Advanced ISV Partner, is the creator of Quorum, a real-time workload management and high-availability appliance that enables Service-Oriented Infrastructure. Quorum has received the LinuxWorld Product Excellence award for the best Grid Computing Solution. Quorum is the industry's first high-availability appliance and offers real-time resource control for any application across any system. Quorum can bring real-time high-availability to user applications at a significantly reduced cost when compared to traditional high-availability solutions. A policy-based system, Quorum can provide sub-second capacity on demand. Sub-second response times provide protection against software and hardware failures without being in the data path. Quorum is based on the CIM/WBEM open standard. Unlike legacy high-availability solutions, Quorum does not require specific implementations for different applications. With Quorum a user needs just one interface for all applications.

Quorum Features Include

- Windows®, Linux®, Solaris™ and AIX®, on a single interface
- Application independent
- Policy-based automation
- Real-time (50-100 millisecond) response time
- Manages virtual servers

Quorum incorporates a flexible policy engine that allows users to select levels of automation ranging from simple alerting to fully automated problem resolution. Quorum forms a closed-loop feedback system that automates three systems-management functions:

- Monitor - monitors application performance and system parameters to look for changes in the running system.
- Decide - consults user-supplied policies to decide upon appropriate actions when a change occurs in system performance.
- Act - configures and reconfigures servers, software, and clusters to implement the actions above.

Quorum is fully compatible with DB2 and can be used to construct highly-available DB2 installations without requiring specialized hardware configurations. With Quorum, a DB2 installation can be customized to provide the degree of availability required by a particular installation, ranging from hot standby configurations for zero downtime to failover configurations for less demanding applications. Quorum can even be used to manage disaster recovery configurations to allow migrating a DB2 application to a different data center in the case of catastrophic failures.

For More Information

please visit <http://www.themis.com/quorum/>





About TrueDemand

TrueDemand is a pioneer in the development of integrated sales and supply chain solutions for retailers and suppliers. The solutions provide an innovative approach to driving revenue growth in the retail and food and consumer goods industries. By integrating planning and execution with predictive analytics, TrueDemand has created a suite of solutions that improves shelf availability, drives market share, optimizes promotions and new product introductions, improves shelf management and reduces store operating costs. TrueDemand software solutions are built ground up, to take advantage of the real time supply chain enabled by point-of-sale (POS) and other transaction data, to rapidly sense demand changes, adjust forecast, identify opportunities, predict problems and quickly adjust replenishment. Headquartered in Los Gatos, California, the company is backed by leading venture capital firms Mayfield, Bay Partners and CMEA Ventures.

TrueDemand Forecast and Replenishment Manager

By predicting and mitigating retail shelf out-of-stocks and improving new product introductions and promotion execution, TrueDemand Forecast and Replenishment Manager (FRM) enables enhanced sales and market share for retail suppliers. FRM provides a continuously calibrated perpetual inventory by store and selling floor, a daily forecast by product and store, and recommended store and retail DC orders with recommended actions. FRM helps predict product availability, inventory, execution, and out-of-stock problems at the aggregate level across stores, as well as at the detailed product-store level.

TrueDemand Forecast and Replenishment Manager Benefits

- Improve market share and revenues through reduced out-of-stock situations at retail store and retail shelf level.
- Improve, lift and reduce remnant inventory through better planning and execution of promotions and new product introductions.
- Increase efficiency of third-party merchandisers and account team members by providing them with up-to date, ready-to-execute actions.
- Decrease inventory holdings at distribution centers by utilizing more accurate short-term forecasts of retailer orders.
- Reduce variance in the supply chain through a better understanding of supply chain metrics, historical trends, and root causes.
- Become better trading partners to retailers by helping them improve product availability while decreasing store and retail DC-level inventory

The TrueDemand software also recommends specific actions the user can take to prevent problems and avoid lost sales, and provides real-time insight, root cause analysis, and recommendations for continuous improvement. The TrueDemand solution provides a view of the state of the business, including dwell time, inventory levels, lead time and variance, and lost sales of products in the extended supply chain at an aggregate and daily store-item level.

For More Information

please visit <http://www.tdemand.com>

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TXT Polymedia

TXT Polymedia is very active in the European market as software vendor and integrator of its own Multi-channel Content and Media Asset Management solutions, specialised for broadcasting, media and telco operators. TXT Polymedia is a fully owned subsidiary of TXT-e solutions.

TXT Polymedia offers to broadcasters, media and telecom operators a complete suite of software solutions to support their content and service repurposing on interactive digital media. Offering is based on Polymedia Video, a complete software product to manage rich contents and video, enabling acquisition from a large array of sources, and the distribution over many interactive channels and devices. Operating costs are low, flexibility is maximized.

Media in a Box is the new and comprehensive TXT Polymedia proposal for Media companies, to strengthen the interaction with the customer and to undertake innovative advertising strategies based on video formats.

Media in a Box comes together with all the "business applications" part of the TXT Polymedia portfolio: TXT Polymedia VOD, TXT Polymedia Internet TV, TXT Polymedia TVRecorder, TXT Polymedia UGC Formats.

Polymedia Video

Polymedia Video is an integrated Content & Media Asset Management product that covers all the lifecycle stages of multimedia contents (ingestion, metadata definition, indexing, archiving, editing, transcoding, protection and delivery), allowing the production, the publication and the distribution of editorial products for a variety of distribution channels such as: broadband Web portals, video mobile telephony services (UMTS, DVB-H) and IPTV services.

Main Features

The TXT Polymedia Video product provides a solid set of Library Services including: searching, archiving, flexible metadata definition, contents versioning, check-in/check-out, multi-channel preview and flexible workflows management.

Specialized editing tools are natively available for managing text/XHTML contents, images and videos. Integration with external professional video editing tools is also possible.

For More Information

please visit <http://www.txtgroup.com/polymedia/int/>

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UBMATRIX™

and underlying meaning of information, making it portable within your organization and for exchange over the Internet. Enterprises rely upon UBmatrix Enterprise Application Suite to exchange business data between applications. The result: improved efficiency, data quality, and transparency.

About UBmatrix

UBmatrix provides technology solutions for improving information exchange. Offered both as licensed software and on-demand via the Internet, UBmatrix solutions help automate the process of exchanging information using eXtensible Business Reporting Language (XBRL), the next evolutionary stage of XML. Using UBmatrix solutions, organizations can move data freely among applications within an enterprise, between business partners, and to regulators without losing the semantic meaning of the data. Benefits include increased operational and financial transparency, cost savings in sharing data both inside and outside the organization, and greater confidence in reporting accuracy and regulatory compliance.

UBmatrix Enterprise Application Suite

UBmatrix Enterprise Application Suite is the industry's leading enterprise software platform for liberating information trapped within an organization's computer applications and documents. Offering the power of eXtensible Business Reporting Language (XBRL), our platform helps your organization create the structure

UBmatrix Processing Engine

UBmatrix Processing Engine is an application that consumes and validates XBRL and other XML documents. The processing engine is designed for high volume, large scale business processes that require XBRL/XML data validation and data conversion for use in new and existing applications. UBmatrix XBRL Processor is built on a completely extensible object oriented architecture that enables developers to easily integrate XBRL into existing applications. This robust architecture provides for XBRL and FRTA validation, transformation of taxonomies and instance documents using XSLT, and extraction of data via XPath 2.0.

For More Information

please visit <http://www.ubmatrix.com>



“UBmatrix has two key attributes that made them an obvious choice... First, their technology has proven scalable in real world deployments. In fact, their success at the US Federal Financial Institutions Examination Council in deploying the world's largest XBRL application so far was truly pioneering. On top of that, they have been a key contributor in designing our country's taxonomies, which are really quite sophisticated.”

- Mr. Harm Jan van Burg, Project Director Netherlands Taxonomy Project from the Dutch Ministries of Justice and Finance.



WhereScape RED
Builds data warehouses, fast.

About WhereScape Software

WhereScape RED software builds your working data warehouse in a matter of days. You can then trial it with users, tune it and refine it, until they are completely satisfied.

WhereScape automates the entire data warehouse lifecycle, so ongoing operation and maintenance is a snap. Corporate reorg? New product lines? With WhereScape keeping your warehouse up to date is a drag-and-drop operation.

WhereScape RED

WhereScape RED software builds your working DB2 data warehouse in a matter of days. You can then trial it with users, tune it and refine it, until they are completely satisfied.

WhereScape automates the entire data warehouse lifecycle, so ongoing operation and maintenance is a snap. Corporate reorg? New product lines? With WhereScape keeping your warehouse up to date is a drag-and-drop operation

WhereScape RED generates data warehouse objects, DB2 procedural code, tables, views indexes etc. The integrated metadata is used to generate documentation as well as impact analysis. The end result - real world DB2 data warehouses and data marts built fast.

For More Information

please visit: <http://www.wherescape.com>

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XAware Inc

XAware, Inc. is a privately-held SOA data integration software and services company that provides solutions for the modeling, manufacturing, monitoring and management of Service-Oriented Architecture (SOA). XAware enables success for the business SOA model by bridging the gap between business processes and IT. This XML-based bridge is the Business Services Layer which is comprised of logical assemblies of IT data services and conditional processing. These business services can then be choreographed and re-choreographed to provide new business processes and give companies the agility to keep up with changing business models. XAware logically grouped catalogs of related and integrated business services, have been designed for verticals with complex data integration challenges such as financial services, insurance, healthcare and government entities.

XAware - Data Integration / Compliance / Reporting

XAware integrates with DB2 and DB2 pureXML™ using the provided JDBC driver. XAware Designer, XAware's Eclipse based design-time environment, allows rapid creation of data services fully supporting the capabilities provided by DB2 and DB2 pureXML without writing code. Leveraging the ability to combine SQL with XQuery as supported by the DB2 9 and the provided JDBC driver allows XAware to query, insert and update XML natively as supported by DB2 9.

In a current example of integration, data is aggregated from a mainframe data file and data stored in DB2, that data is combined into an ACORD transaction which is then stored back into a separate DB2 database using a combination of relational and pureXML columns used for compliance and reporting. The mainframe data is transformed into an ACORD XML format. Portions of that data are then used as a foreign key to select specific relational data from DB2 for data enrichment and completion of the ACORD transaction. Pertinent information about the ACORD transaction and the actual XML instance the ACORD transaction are then stored into a DB2 database. Additional XAware services then support querying that data for a combination of select data contained in both relational and XML for reporting purposes.

For More Information

please visit <http://www.xaware.com>



“XML data, such as ACORD XML transactions created and queried by XAware services, can be stored more efficiently and queried much more effectively using the capabilities of DB2® pureXML™ for transaction auditing and compliance.”

- Darin Black, Product Manager, XAware, Inc.



About xkoto Inc.

xkoto Inc. is a data virtualization ISV with leading edge technology that customers from Wall Street to Main Street are using to transform low cost commodity servers and idle HA & DR systems into a continuously available, scalable data grid.

With customers from multiple industries including financial services, insurance, retail, travel, security, and healthcare, xkoto's GRIDSCALE solution delivers data consistently, accurately, and quickly, satisfying CIOs and CFOs.

Through its strategic partnership with IBM, xkoto is driving value for the DB2 community, including customers, channel partners, and top tier ISVs.

GRIDSCALE Database Load Balancer

xkoto's GRIDSCALE Database Load Balancer software virtualizes a grid of databases so that applications transparently gain the must-have benefits of continuous data availability and horizontal scalability without code changes. Using supplied industry-compliant JDBC/ODBC/CLI drivers, application transactions are analyzed and dynamically routed by xkoto's patent-pending software to provide the fastest response (up to 85% scalability) with complete data consistency.

GRIDSCALE provides

- Continuous data availability, 24x7
- Scalable performance, up to 85%
- Rolling upgrade capability, zero application downtime
- Industry standard drivers, no application code changes
- Web browser interface
- Command shell interface
- Lower TCO, leveraging commodity servers, scale-out, not

Databases can be dispersed between multiple data centers without any requirement for special infrastructure or long-distance replication software - GRIDSCALE is built on standard networking over ethernet.

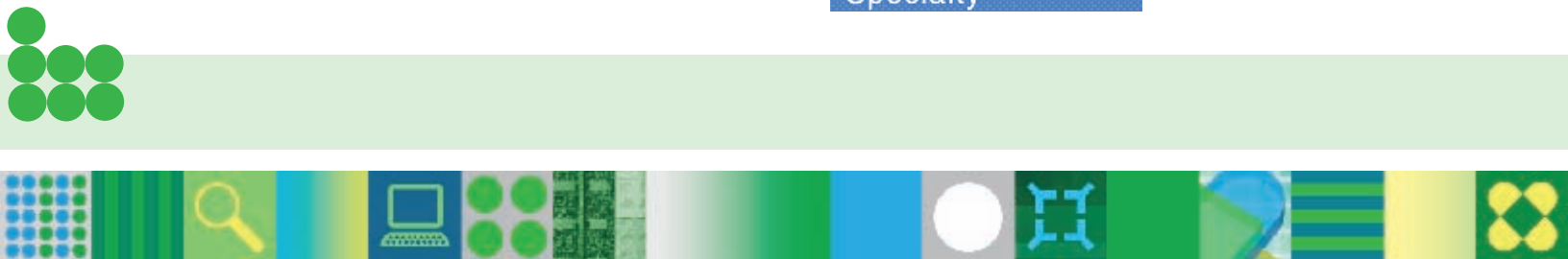
New databases can be provisioned "on-the-fly" with immediate benefit to application performance and reliability, and with minimal operator intervention. With continuous availability, customers can perform rolling maintenance without taking down applications for true non-stop 24x7 operations.

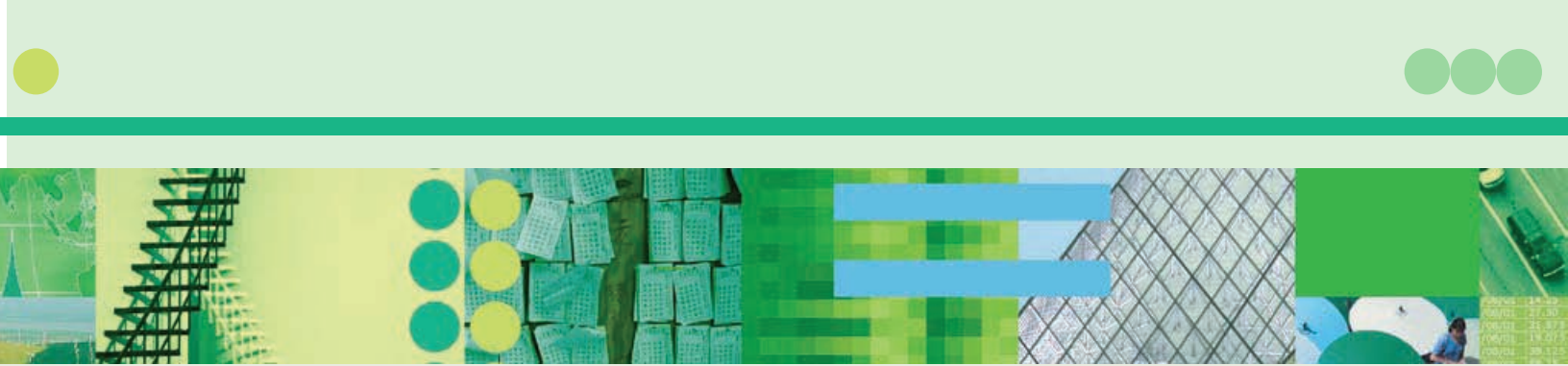
For More Information

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IBM | Information On Demand
Specialty





InGrid Delivers High Availability for Customer Security InGrid's systems expansion enabled by xkoto's GRIDSCALE™ Database Load Balancer working with IBM's DB2

InGrid® is a leading service provider of broadband-enabled DigitalHome Protection™. Their next generation products and systems offer vastly superior security and protection than most dealer-installed products. The InGrid System can be easily and conveniently managed from a cordless telephone or web enabled device and its unique communication redundancies (broadband, cellular and analog telephone line) eliminate the vulnerability of standard single telephone line connections to the monitoring center. InGrid customers have peace of mind knowing that their service includes an always-there monitoring center offering protection around the clock coupled with reliable self-monitoring abilities. InGrid's servers continuously monitor vital data from their customers' security systems, ensuring the highest levels of uninterrupted protection for family and home. InGrid's anticipation of aggressive growth, along with the need for total reliability, brings with it the major concerns of cost-effectively increasing their infrastructure to meet demand and maintain nearly continuous availability.

Building up from their Current System

InGrid's Services Program Manager Drew DeNardo embarked on finding a solid solution that would integrate with their current environment and guarantee reliability of their services. He needed to ensure that their IBM DB2 data infrastructure was continuously available, specially across remote sites. IBM DB2 had been a natural choice for InGrid. The flexibility and cost-effectiveness of the database platform delivers robust on-demand data that's critical to the security of InGrid's customers. DeNardo's objective was to choose a high-availability layer that would sit atop the IBM DB2 and maximize the reliability and performance of their growing infrastructure, without compromising the critical protection needs of their

expanding customer base.

Business Challenge

With InGrid's rapid growth requirements the company's challenge was to meet their customers' expectations - "the always on protection heartbeat" that monitors their clients' homes and businesses. Cognizant of their total cost of ownership, the company was determined to find a performance solution that could be quickly scaled out, not scaled up. They decided on the prudent course of adding to their existing hardware, rather than replacing it with a new proprietary system. However they were resolute in not sacrificing reliability and performance that would undermine their customer's need for safety and protection. Managing an enterprise system with multiple sites brings many challenges. Data back-up, replication latency and rolling maintenance all impinge on system efficiency. Any new additions or upgrades must enhance not inhibit the system's ability to provide continuous availability. Having established these objectives and constraints, Drew DeNardo found the exact solution they were looking for, the GRIDSCALE™ Database Load Balancer from xkoto, an IBM Business Partner. xkoto evaluated the InGrid challenge and concluded: "They needed a nonstop database to serve their customers' security expectations," Ariff Kassam, CTO explained. "Any potential hardware or instance failure had to be mitigated without InGrid's application noticing".

"One of the reasons consumers respond so strongly to InGrid is because of our promise to be there for their families and homes when they need us. GRIDSCALE is a key part of our infrastructure that allows us to meet or exceed these expectations."



The Solution

The implementation centered on using three x86 servers together, each running IBM DB2. InGrid's application will talk directly to xkoto's GRIDSCALE™ Database Load Balancer, which manages the IBM DB2 grid. The GRIDSCALE™ Database Load Balancer uses patent pending technology to enable commercial off-the-shelf databases to run on a grid of industry standard systems with the same or better reliability and performance as much more expensive proprietary systems. Active-active clustering technology allows multiple IBM DB2 instances to provide speed up to SQL queries while supporting geographically dispersed, always up-to-date copies of the data.

Business Transformation and Ease of Operation

The rapid growth needs of InGrid's customer base put added pressure on their system requirements, necessitating uncompromising service level requirements. Adding GRIDSCALE™ transformed their infrastructure from fragile to robust: Continuous availability 24x7, data scalability on demand, elimination of down time/maintenance windows and data safety across multiple sites. InGrid now had the "industrial strength" structure required to meet and exceed their customer's expectations. GRIDSCALE's grid architecture delivers the highest level of assurance that InGrid's infrastructure will continue regardless of potential system outages. The "Shared Nothing" architecture means all nodes operate independently. A node failure will not affect the database accessibility, compromising InGrid's customers. Adding ever-increasing volume is now easy for InGrid. GRIDSCALE™ can tap into spare capacity and facilitates the simple addition of new servers. Adding servers enhances performance of the system – more customers getting superior protection. InGrid's staff needed minimal training to operate the management console. The easy-to-use web-based screens allow for immediate views of current and historical performance. Operators can easily

perform any necessary maintenance including adding or removing nodes from the cluster.

Business Benefits

Larry Dodds, VP Product Development at InGrid considers the GRIDSCALE™ solution as a great asset in InGrid's future. "The combination of xkoto's GRIDSCALE Database Load Balancer with IBM's industry leading DB2 database allows InGrid to have a data virtualization platform that really delivers on continuous availability and scalable performance." Delivering the highest data service level and fewer reported problems is a huge benefit for InGrid and its customers. Long distance disaster recovery support, another powerful feature of GRIDSCALE™ will save considerable cost in reducing overtime hours for routine maintenance. InGrid's existing investment is secure, with incremental add-ons both cost-effective and non-disruptive. InGrid's ability to rein in costs without sacrificing reliability and performance will have a profound effect on their bottom line going forward.

Focus on Protection

InGrid has built the foundation of its business around the uncompromising guarantee of maximum security and continuous electronic monitoring. Their absolute priority is the safety of their customers' homes and businesses. Now as the company's installed base expands, InGrid can be totally confident of its infrastructure integrity and concentrate all its focus on their commitment of delivering the best protection available.

"...GRIDSCALE with IBM DB2 will keep our service online in the presence of hardware failures and will allow us to grow our data infrastructure to keep up with our expanding customer base."

- Drew DeNardo, Program Manager, Services InGrid Digital Home Protection

Yellowfin

Making Business Intelligence easy

About Yellowfin

Unlike traditional tools Yellowfin is making BI easy. Yellowfin is a flexible solution for web based reporting and analytics. Providing real time BI, seamless integration into 3rd party applications and incredibly easy to use. With Yellowfin you can design feature-rich reports that provide users with the specific information they need in the format that best helps them make more informed decisions.

Yellowfin

1. Increase your revenue – Yellowfin is easy to sell to your customers and they will love you for it. With Yellowfin you can increase your competitive advantage and add an incremental revenue stream to your business.
2. Increase your speed to market – Our core competency is reporting. We will help you to integrate Yellowfin into your application quickly and easily so you can start selling immediately.
3. Build your brand – Yellowfin integrates seamlessly into your application by adopting your look and feel and security infrastruc-

IBM's DB2 data management portfolio can be easily leveraged by Yellowfin. Yellowfin's configuration information is stored in a DB2 database and Yellowfin can run reporting and analysis off both DB2 relational databases and DB2 OLAP cubes. In fact, Yellowfin can run reporting and analysis off any data source that supports the JDBC standard for relational content or the XML/A standard for OLAP. This includes all of the other databases in the IBM DB2 portfolio - eg. Informix Dynamic Server, DB2 Express, DB2 iSeries (OS/400) and DB2 Everyplace.

For More Information

please visit www.yellowfin.com.au/



Zend

The *php* Company

About Zend

Zend Technologies, Inc., the PHP company, is the leading provider of products and services for developing, deploying and managing business-critical PHP applications. Zend and its founders are the architects of PHP, which is used by more than fifteen million Web sites and has quickly become the most popular language for building dynamic Web applications. Deployed at more than 8,000 companies worldwide, the Zend family of products is a comprehensive platform for supporting the entire lifecycle of PHP applications. Zend, headquartered in Cupertino, California, is privately held and venture funded with investments from Azure, Index, Intel Capital, Platinum, SAP Ventures and Walden Israel.

Zend Core for IBM

Zend Core for IBM delivers a rapid development and production PHP foundation for applications using PHP with IBM data servers.

The product includes tight integration with the entire IBM data server family including DB2 9 and the previous version of DB2 Universal Database™, Cloudscape™, and IDS (Informix® Dynamic Server). Native support for XML and Web services are also included. Zend Core for IBM is bundled with all of the software required for Web servers to communicate with the IBM data servers. It is easy to install, and includes Apache 2, DB2 Express, DB2 Runtime Client, Cloudscape, PHP 5 and PHP extensions such as ibm_db2. The partnership between Zend and IBM allows for continued support to the PHP community. Zend Core for IBM is free to download and is fully supported.

<http://www-306.ibm.com/software/data/info/zendcore/>

For More Information

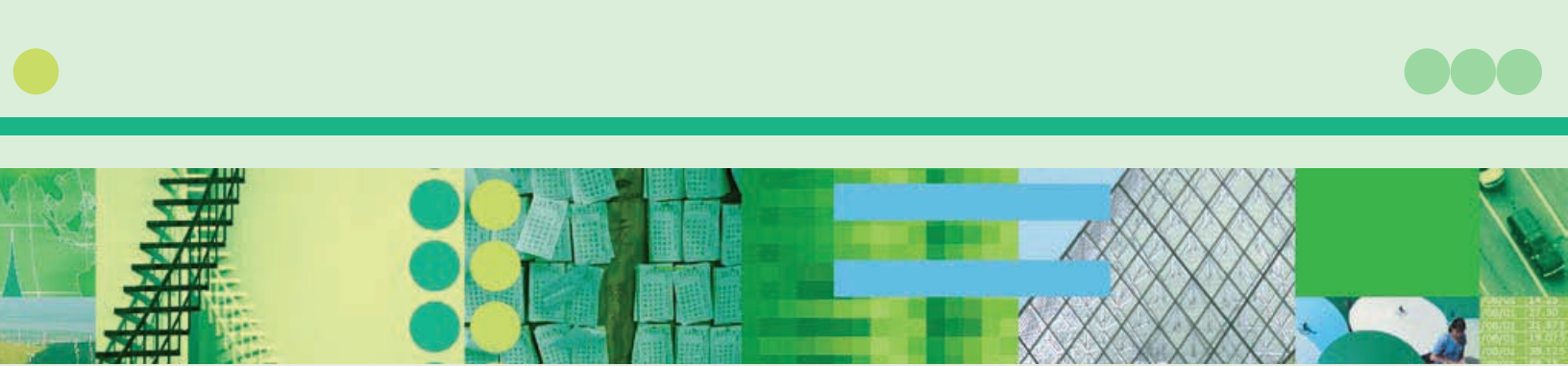
please visit <http://www.zend.com/>



“IBM and Zend work together closely to give our customers the highest levels of reliability and uptime for PHP applications using DB2 databases,... DB2 Express-C is exciting, because it allowed us to integrate DB2 technology in our free 'Zend Core for IBM' product, making it very easy for our mutual customers to create and deploy professional PHP applications. And when the customers need to scale out their applications, they can do so seamlessly with Zend Platform and the high-end DB2 family of database servers.”

- Mark de Visser, Chief Marketing Officer, Zend Technologies, Inc.





Performance case study using Zend Core for IBM® with IBM DB2® 9 to service 10,000 active database connections

- Nailah Bissoon, John Tran, Sunil Kamath, IBM DB2 Database Solutions Development

Executive Summary

PHP (recursive acronym for PHP: Hypertext Preprocessor) is the market-leading dynamic language for producing modern Web applications. Its popularity for building content management and e-commerce systems stems from its portability, ease of use, and wide support for accessing database and enterprise data sources. IBM and Zend Technologies have partnered to deliver Zend Core for IBM®, which is the industry's only certified and fully supported PHP development and production environment for IBM data servers. The PHP application used for this study is a DVD store application that simulates users logging into an online catalog, browsing the catalog, and making DVD purchases. The entire system configuration is a three-tier model with tier one executing the driver that emulates the activities of Web users. Tier two comprises multiple Web application servers that intercept the requests and sends database transactions to a DB2 9 data server, configured on a separate machine. The solution presented in this paper demonstrates how Zend Core for IBM with IBM DB2® 9 performs, scales, and offers the best total cost of ownership. This is showcased by scaling-out Web servers as users to the online store increase. The single DB2 data server manages this without requiring the addition of CPU and memory using its unique connection concentrator feature, which manages and balances the workload on the data server. This solution is able to efficiently service tens of thousands of simultaneous connections to the database using this powerful feature.

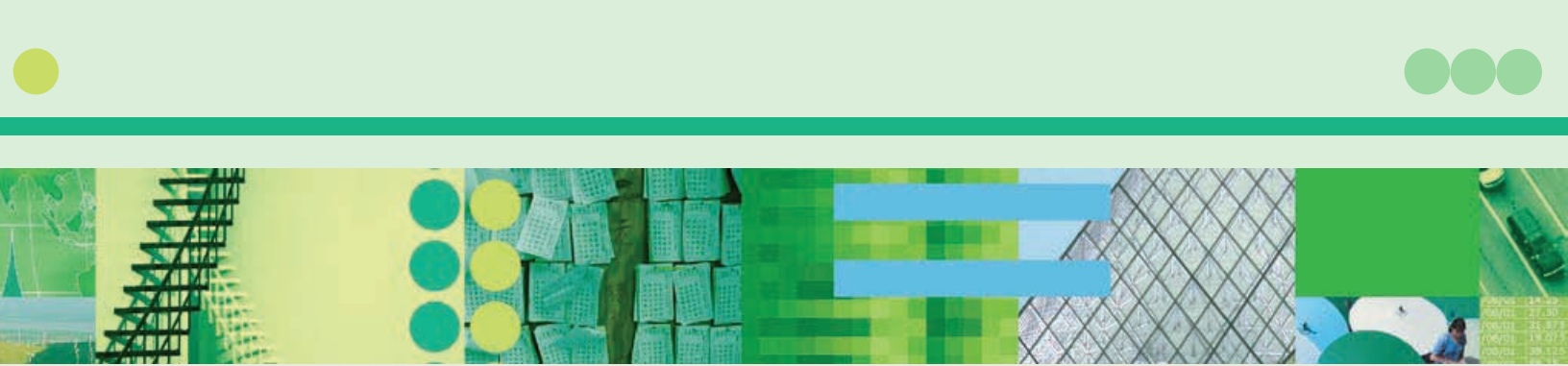
System Configuration

The hardware setup used for this study comprised a driver machine, five Web servers, and a separate data server. The driver machine emulated Web users of an online DVD store

generating HTTP requests. These HTTP requests were routed to the Web servers that contained the DVD store application logic. Each Web server used was an Intel® Xeon® 5150 two-socket, dual-core processor machine with 4 GB of memory running Red Hat Enterprise Linux® Server 4 and the latest Zend Core for IBM 1.5.0. For the purpose of these experiments, up to five Web servers were added as the number of concurrent users to the online DVD store increased. Each Web server processed the HTTP requests from the Web browsers and maintained two thousand simultaneous Apache connections; at this many Apache processes, all the available 4 GB of memory was consumed on a single Web server. Persistent connections were maintained from the Web server to the data server, which allowed the connection handle to be preserved after the transaction completed; future incoming transactions re-used the same connection handle. A think time of 160 seconds was used for all of the experiments. The database server was a four-socket, dual-core Intel Xeon 7040 system equipped with 4 GB of memory running Novell SUSE Linux Enterprise Server 9 Service Pack 3 and DB2 9 FixPak 1. A single IBM N3050 storage server was connected to the data server via a Fibre Channel Protocol (FCP). Attached to the storage server were twenty eight 133 GB 10K RPM disks. A single aggregate was defined, on which a FlexVol was created for the database tables and logs.

Database and Workload Description

The workload used for demonstration in this paper simulates an Online Transaction Processing (OLTP) environment. A driver simulates users logging in and browsing the catalog of available products via simple search queries.



Returning customers are presented with their online purchase transactions history, while new users may register to create customer accounts. Users may select items they would like to purchase and proceed to check out or continue to view available products. Restocking is also done once a minute to replenish the product quantities.

A 20 GB database is created representing 20 million customers, one million orders, and 100,000 products. The database is created using automatic storage, enabling DB2 9 to define and manage all space used by the database.

The tuning of the database memory heaps are not predefined but are derived when invoking the STMM feature in DB2 9. For Internet Web applications with many relatively transient connections, the DB2 connection concentrator allows handling of tens of thousands of client connections to be processed efficiently by the database. It helps reduce the memory footprint on the data server because multiple connections can be configured to require fewer DB2 agents. The connection concentrator feature is enabled by defining the MAX_CONNECTIONS setting in the database configuration. For these experiments, MAX_CONNECTIONS was set to 10,000, and MAX_AGENTS was set to 500. This means that the DB2 database would accept up to a total of 10,000 concurrent connections, which would be serviced by 500 back-end agents.

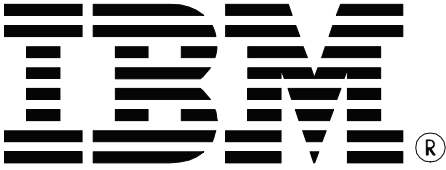
Results

The experiments were conducted in five stages; with each stage, the number of concurrent Web users accessing the online DVD store increased by 2000. Additional Web servers were added to service these requests; however, no manual tuning of the DB2 data server was done. Each time additional Web servers were added, the database throughput performance and memory usage were noted on the DB2 server. Throughput was measured as the number of

orders processed by the DVD store application per minute. The throughput on the data server increased proportionally as the numbers of users were scaled from 2000 to 10,000. At 10,000 active connections, the overall CPU utilization on the DB2 server was approximately 80%, and the throughput attained was approximately five times the throughput at 2000 users. This suggests that the throughput scaled as the number of connections to the database increased.

Conclusions

In this paper, it was demonstrated how Zend Core for IBM and IBM DB2 9 can be used together to implement PHP solutions to service tens of thousands of database connections with little strain on system CPU and memory resources. It is not uncommon that large deployments of PHP consist of hundreds of PHP servers. With each server typically running hundreds of Apache worker processes, each with persistent database connections, the database needs to scale to handle thousands and tens of thousands of concurrent connections. For this specific test, a maximum of ten thousand active connections were made to the DB2 data server and by using the DB2 connection concentrator, we saw that this feature easily allowed systems to scale even at a large number of connections. The connection concentrator, a powerful feature offered in DB2 9, allows systems to scale and utilize available system resources efficiently instead of requiring the addition of more CPU and memory, a capability unmatched by other database management systems. DB2 9 also offers other unique autonomic features, which helps reduce the maintenance time on the data server. These unique DB2 features as well as partnership with Zend Core demonstrate how IBM is committed to bringing powerful, easy-to-use software to customers that saves money and adds efficiency.



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