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OFFICE 2000 & RICH CLIENTS

Before browsers came along there were two types of clients: general-purpose desktop applications, typically office suites, and specialized proprietary clients. Office suites had more popular interfaces, but proprietary clients had a lock on much of the mission critical information. As a result, most "client/server" applications depended on proprietary clients. Browsers came along and dramatically changed the dynamics by becoming the new client of choice for client/server applications. Browsers were "thin" (at first) and designed for presenting HTML, a poor kind of information. Now XML has the potential to open up access to "rich" information, not just to browsers, but to all kinds of clients.

The upcoming release of Microsoft's Office 2000 signals the start of a substantial shift in how we use will be integrating desktop clients in corporate applications. It now begins to make sense to consider an office suite application as a true client for more mission critical corporate applications Why? Because the new Office 2000 peer encoding HTML/XML format makes it possible to build solutions that roundtrip *some* rich XML information. Office 2000 doesn't go far enough for a lot of application needs it couldn't have without getting too far ahead of W3C standards development. Nonetheless, as you'll see in our article this month, it is rich enough for some complex applications where application metadata sharing is the critical need.

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OFFICE 2000 & RICH CLIENTS

Office 2000 is on its way, and it is a much bigger deal than most people realize. Of course Office 2000 is important because it is one of Microsoft's core products and is, by far, the most widely used office suite. Office is also a good product (the beta version I have been using for a couple of months is, in my limited, less-than-critical experience, at least as stable as 97) and has lots of new useful features. But none of these are what is interesting and significant.

The reason Office 2000 is so important is that by making HTML/XML a "peer" encoding format, Microsoft has made it feasible to build a wide variety of solutions that employ an office suite as an integrated, or even primary, client, for one or more applications.

This is going to take a little while to sink in, and it won't be until both vendors and IT organizations start fiddling around that we will really see what can be done. This is a sign of one of those big shifts that will change computing in ways we can't yet predict, and will change things enough to allow for some big new winners and big new losers.

It is not that Microsoft has created a cure-all for application integration; there is a lot more work to be done by them and their colleagues and competitors both in and outside of the W3C. What is crucial is not a particular product implementation, or even the existence of a good standard, but the commitment to a fundamental architectural shift in the way we encode information.

CLIENT EVOLUTION

It is pretty obvious (at least in hindsight!) that in the days before "thin" clients the biggest barrier to improved computing productivity was the multitude of clients and client interfaces one had to contend with. Every client/server application had their own proprietary client, and desktop office applications all had distinctive user interfaces and unique encoding formats. How many different interfaces should one expect a computer user to deal with? How many different, semi-documented encoding formats could you expect IT to deal with?

Then, the idea of office suites becoming front-ends to serious client/server applications seemed idealistic because of technical reasons and marketing dynamics. Nonetheless, we used to encourage IT organizations to integrate office suite front-ends as much as possible because of user familiarity and acceptance. We also suggested to vendors that they integrate office clients into their client/server applications to broaden their appeal and gain market share. But this was both very difficult to do, and had the very big disadvantage of biting into proprietary client revenue. Application vendors

were understandably reluctant, however it was just a matter of time before office suite vendors took the decision out of their hands.

Before office suite vendors got there, everyone was thrown for a loop by browsers. The beauty of browser clients is that their emergence dealt a deathblow to non-essential proprietary user interface features (whether good or not). Browsers started out as clients for very simple content (early HTML), but have evolved to be fairly complex software applications that are windows into complex combinations of content.

The trend has been to replace "client/server" with web applications, but in fact we are just slowly turning browsers into more robust "thicker" clients. We need simple browsers that can universally view and interact with web content, but we also need clients that can support our daily computing needs both need to be able to access "rich" information.

Browsers interrupted the inevitable, and killed special purpose proprietary application clients before office suite vendors could, but they won't do the same to office suites in the foreseeable future. Browsers seem to have (at least for now) settled into the role of an interactive viewing tool. Browsers collect information but they don't seem appropriate for dedicated content creation and processing needs.

" the thickness of any particular client is determined more by physical characteristics than code."

RICH CLIENTS

In an ideal client/server environment (stripped of all the historical marketing baggage) there is complete flexibility in where information is processed, so the thickness of any particular client is determined more by physical characteristics than code. To process information anywhere, the information has to be rich enough, and open.

What is rich information? Well most office proprietary formats are rich in an RTF sense, but the HTML/XML encoding in Office 2000 is richer and more importantly, accessible to other applications. Because the HTML/XML encoding is a mix and because there are still incomplete related standards (e.g., XSL is a moving target), building integrated solutions will be a bit tricky. But no one is declaring victory and going home. The point is that we are seeing a fundamental shift in direction and, at first glance, a very useful first step. We are talking about Microsoft today, and you have to give them credit for this move, but this is an industry shift.

We have known for awhile (because Microsoft, Netscape and others have told us) that browsers will be able to parse and present XML, and now you can see it in IE5 (if you have IE5 see Tim Bray's article on publishing XML content at www.xml.com/1999/03/ie5/first-x.xml, or if you have an older browser you can see the same article in HTML at www.xml.com/xml/pub/1999/03/ie5/first-x.html). This is important, but we need full client support too.

AN EXAMPLE

" just how do they integrate the Office client metadata creation with the DM system client/server metadata management?"

I visited a client recently that was re-evaluating their large-scale document management and publishing system. For various reasons they need to produce and maintain three renditions of their documents: a markup language (currently both SGML and HTML), Word, and PDF. Their goal has always been to have a single common source from which they can create whatever other renditions they need. As we know, this is pretty well impossible if there are any expectations about presentation fidelity. Further, the conversion processes they had set-up to keep these different renditions synchronized had turned out to be wildly impractical.

The new system they are going to be testing, in effect, replaces the SGML repository with an Office 2000 repository and elevates Office from a pure creation tool to a more integrated client in their document management system (I don't think their DM vendor knows this yet!). This seems drastic and they view it as something of a compromise. But they are convinced, after a lot of in-house testing, that the Office 2000 HTML/XML capability is rich enough to support their need to integrate XML metadata with their DM system metadata, and to support their HTML and PDF publishing needs. They also now have confidence that they will be able get at the data in their Office files, and that a longer-term goal of an XML repository with XSL style sheets and accessible via the DOM, is achievable. In the meantime they have basically gotten rid of the conversion problem they had. (There is a lot more to this system than I am mentioning here.)

I'm not suggesting by relating this example that everyone should build repository applications around Office 2000. What is instructive about this example is that this particular organization believes that it is now safe to base a solution around Office 2000 because the HTML/XML peer encoding is open enough, and that the encoding is rich enough to integrate with multiple applications (in this case multiple publishing applications). Clearly there are still some tricky issues, *e.g.*, just how do they integrate the Office client metadata creation with the DM system client/server metadata management?

The XML metadata capabilities of Office 2000 alone will guarantee lots of other examples of Office clients playing a more strategic role in single and multiple application environments.

For everyone?

Rich information will be for everyone eventually, and will be delivered by all kinds of clients, including screen phones and PDAs. But corporate applications will come first, and the first corporate applications will be those with complex information management needs, like the client in our example.

CLIENT REVOLUTION

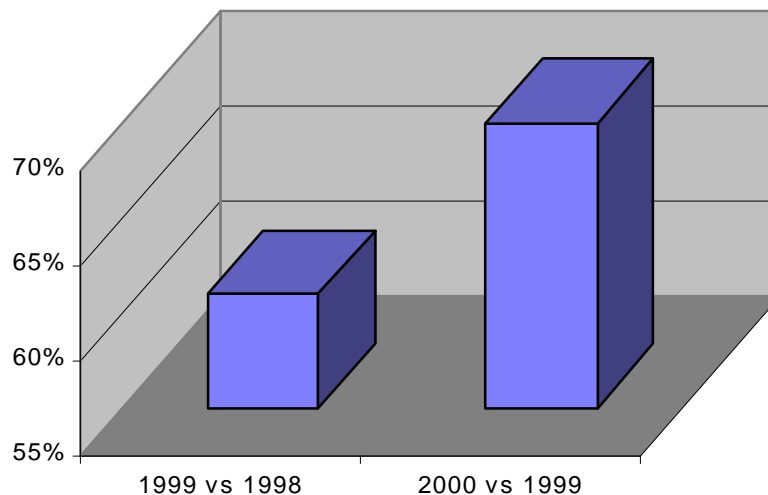
We know we will have all kinds of clients going forward – some will be thick and some will be ultra-thin, but most will need to be rich in the sense that they will be able to access and present complex information from multiple applications. We need this diversity. Open information democratizes the client opportunity and allows for application integration. The richness/openness of Office 2000/IE5 is a big step in the right direction for two types of clients. Hopefully Corel, Lotus and office suite vendors will move quickly in the same direction now that Microsoft has taken the risk out of such a move. And just as hopefully, Microsoft will try and keep ahead so we don't lose momentum.

Frank Gilbane

RESEARCH TIDBIT

Our upcoming report on 250 XML early adopters shows a market just starting to show strong growth. The chart below is from a preliminary findings white paper.

Aggregate spending on XML projects



INDUSTRY NEWS

Additional news is available at www.capv.com/dss/newsand.htm

OPEN TEXT ANNOUNCES CASH TAKE-OVER FOR PC DOCS

4/29/99

Open Text Corporation announced its intent to make an all cash take-over bid for all of the common shares of PC DOCS Group International Inc. at a price of C\$8.50 per share. This price represents a premium in excess of 20% over the recent trading levels of PC DOCS. Open Text believes that its all cash take-over bid of C\$ 8.50 per share is financially superior to the share exchange offer which has been made by Hummingbird Communications Inc. Open Text has contacted PC DOCS regarding its take-over bid. Open Text has requested that PC DOCS provide it with access to all non-public information provided to Hummingbird by PC DOCS. It is Open Text's view that its take-over bid constitutes a "PC DOCS Acquisition Proposal" as defined in the Notice of Special Meeting of Shareholders and Information Circular of PC DOCS dated April 13, 1999. As part of this definition, Open Text has advised PC DOCS that it is prepared to enter into an agreement for the purpose of keeping this information confidential. Open Text's offer will be subject to shareholders of PC DOCS holding 66 2/3% of the shares of PC DOCS on a fully diluted basis depositing their shares to the take-over bid, to the receipt of customary regulatory approvals, to receipt of access to the non-public information of PC DOCS referred to above and other standard conditions. www.opentext.com

The drama continues. Will it be Hummingbird or Open Text? We have no favorites, but hope it is resolved soon as we're sure PC Docs' customers do.

IBM UNVEILS XML TOOLS

4/28/99

IBM has released two XML development tools on its Alphaworks Web site and launched a search site for finding XML resources on the Web. IBM's XML for C++ parser is a C++ version of its XML for Java parser. The C++ version lets developers give C and C++ applications the ability to read and write XML data without a lot

of programming. It brings XML abilities to a large installed base of apps written before the release of Java. IBM's XML Security Suite lets developers build applications that stamp XML documents with digital signatures, which assure a sender and receiver that a document wasn't altered during transmission. The suite is based on an IBM-developed specification called DOM-Hash, which the company is circulating among users and standards bodies for feedback. IBM plans to extend its security suite to encrypt individual data elements in XML documents, letting developers provide access only to portions of documents. Commercial use licenses for XML for C++ parser are available through IBM's Alphaworks Web site. The XML Security Suite is available for evaluation only.

www.software.ibm.com/xml/

JOHN O'CONNELL ELECTED CHAIR OF AIIM

4/27/99

The Board of Directors of the Association of Information and Imaging Management - AIIM - International has voted John O'Connell Chair during the annual AIIM Show and Conference in Atlanta, Georgia. This means that John will be the first non-American to hold this prestigious post for the world's leading not-for-profit association, representing Users and Providers of Document Management and Workflow technologies. John commented "AIIM's position reflects the challenges and opportunities of our industry in the new web world and I am very honoured to help AIIM International this coming year to address these and grow into an international organization, consequent on the merger with IMC." John, CEO of Staffware, is also a Fellow of the Association of the Chartered and Certified Accountants (FCCA) and a recently elected Master of Information Technology (MITA), has been a key player in the workflow market since the 1980s. He founded FCMC in 1980 - since renamed Staffware. By the mid 1980s he was one of a small team that developed 'Procedure Processing' software - the forerunner of Workflow Automation.

www.aiim.org

XEROX ANNOUNCES KNOWLEDGE INITIATIVE

4/27/99

Xerox Corporation revealed a strategy to mobilize its global direct- sales force behind an initiative that, over a 10-year horizon, will grow to represent as much as 50 percent of Xerox' business and act as a catalyst for the company's sustained digital growth. Xerox unveiled the first 17 offerings in the Xerox "Global Industry Solutions Portfolio." These solutions, many of which are Internet enabled, link people-based services, hardware, software, and network services in a package that solves a customer problem, improves a work process or creates a market or competitive advantage. They address industry-specific needs for Xerox customers in the document-dependent environments of financial services; manufacturing; graphic arts; and the public sector. The company also introduced a suite of tools for Knowledge-Sharing designed to help customers leverage their intellectual assets. The end-to-end solutions announced today bundle replicable packages of software, hardware and services -- each custom-tailored by Xerox industry specialists to meet individual customer requirements. Many build on the advantages of the Internet. The company is initially concentrating on the graphic arts industry, where publications *are* the product, and on financial services, manufacturing and the public sector, where documents -- either digital or hard copy -- are critical to their business processes but are outside the organization's core competency. Xerox also announced a suite of tools that will enable customers to share and leverage knowledge throughout an enterprise and realize a greater "Return on Knowledge." The suite ranges from tools to improve individual productivity to solutions. Among the new introductions: AskOnce, an interface to web search engines, data information retrieval facilities and knowledge databases. It provides unified user access to external and internal knowledge sources to simplify search, retrieval and use of information; MobilDoc, a tool that combines software and services to provide mobile professionals with remote access to their documents from anywhere, at any time via thin clients such as smart phones, two-way pagers and personal digital assistants; EcoWorx, a solution that can cut the cost of compliance with environmental health and safety and ISO

regulations, improving productivity by automating document workflow processes; and High Impact Custom Catalogs, a start-to-finish marketing solution developed in partnership with RTMS (Milwaukee, Wis.). It will enable customer-centric businesses -- from department stores to telephone companies -- to create and produce completely individualized marketing campaigns, even when communicating to millions of customers. www.xerox.com

SOFTQUAD SOFTWARE ANNOUNCES NEW EQUITY PARTNERS & BOARD

4/27/99

SoftQuad Software Inc. announced that Pinetree Capital Corp., in conjunction with its merchant banking affiliate KBL Capital Partners and James Clark, has lead the funding of a first round of private equity for the company. It was also announced that Sheldon Inwentash, Chairman and CEO of Pinetree, has joined Clark and Roberto Drassinower on the SoftQuad Software Inc. board of directors. SoftQuad Software was incorporated in November 1998 through a management buyout of the assets of the Web publishing division of SoftQuad International with a mandate to create high-quality XML and HTML authoring tools. SoftQuad Software released the latest version of its award-winning HoTMetaL PRO 5.0 in September 1998 and then focused its efforts on the rapidly expanding XML marketplace with its newest product offering XMetaL, to be released in May. www.softquad.com

SEAGULL DEVELOPING HOST WRAPPERING PRODUCTS

4/27/99

Seagull announced that it is building tools to wrapper mainframe and AS/400 programs into reusable XML and Enterprise JavaBean components, and specialized server software to connect those components to host applications. Code-named "Williamsburg," Seagull's development project is the first to be announced as a result of the company's recent acquisition of ObjectShare's Java division. The Williamsburg project is underway in the company's new Irvine, Calif., development lab. Through CORBA, IIOP, XML, and EJB support, Williamsburg provides component-based access to host applications. Williamsburg business components can be connected to other objects at the emerging middle-tier layer of Web-based business computing. The Williamsburg project will result in wizard-like tools for wrappering CICS, MQSeries, 3270 and 5250 programs, and extensions to Seagull's current presentation server that will handle connections to host applications. www.seagullsw.com

BLUESTONE SHIPS XML-BASED APPLICATION FOR PALM OS

4/27/99

Bluestone Software, Inc, began shipping Bluestone XML-Contact for the Palm Computing platform, an XML application for 3Com Corporation's Palm Computing devices. Bluestone XML-Contact lets Palm Computing device users exchange contact information with any corporate database, turning personal productivity tools into corporate information resources. Available today, Bluestone XML-Contact for the Palm Computing platform is provided free-of-charge by Bluestone and can be downloaded at www.bluestone.com

PEOPLESOFT ANNOUNCES OPEN INTEGRATION FRAMEWORK

4/27/99

PeopleSoft announced its Open Integration Framework (OIF) initiative enabling flexible and cost effective integration of PeopleSoft applications with software, including e-business solutions and legacy systems. The Open Integration Framework will deliver Internet-enabled APIs fully embracing XML. The new

integration technology will be available in controlled release in the fourth quarter of 1999, and will be generally available with PeopleSoft 8 in the first half of 2000. As part of the initiative, PeopleSoft is partnering with leading Enterprise Application Integration (EAI) vendors to deliver certified, packaged integrations to customers. Expanding on PeopleSoft's robust set of existing integration tools and APIs, the company is introducing Internet-enabled APIs such as Application Messaging, Business Components, and Business Interlink. Application Messaging is an Internet-based messaging architecture allowing PeopleSoft applications and third party systems to publish data based on business events via XML and HTTP. Subscribing applications can receive transactions over the Internet, enabling distributed processing across private and public networks with maximum security. The Business Component and Business Interlink APIs will enable application developers to easily plug into PeopleSoft business processes without requiring detailed knowledge of the underlying data structures or embedded business logic. www.peoplesoft.com

POET SOFTWARE TO SHIP VERSION 2.0

4/27/99

POET Software announced the introduction of Content Management Suite (CMS) 2.0, their second-generation XML content server. Building on POET's heritage in object-enabled XML technology and the technical documentation market, CMS 2.0 simplifies XML publishing for e-business exchange. CMS 2.0 is powered by POET's Object Server technology. CMS 2.0 stores XML as objects, adds component-level content management functionality, and takes advantage of the POET Object Server for high-performance, scalable XML storage, querying, and retrieval. New features in CMS 2.0 include: Component Sharing: eliminates duplication of effort through content component reuse; CMS Author Plug-Ins: provides component-level content management to content contributors who use popular XML authoring tools. CMS Author Plug-ins will be available for Arbortext ADEPT Editor and Adobe FrameMaker+SGML; Multilingual Support: enables component-level storage and management of publications in several languages ideally suited for integration with translation management systems. CMS supports the Microsoft Windows NT, Solaris and

HP/UX platforms. CMS will be available in June 1999 for the Windows NT platform, others to follow shortly. Pricing per contributor seat starts at \$1,500. Pricing per server starts at \$20,000 and the software development kit (SDK) is \$5,000. www.poet.com

SUN-NETSCAPE UNVEIL CATALOG MANAGEMENT

4/26/99

The Sun-Netscape Alliance unveiled the Catalog Management Service, an initiative that will provide buyers using Netscape BuyerXpert e-commerce application with access to catalog content from their suppliers. This new offering is the first initiative of the Sun-Netscape Alliance Supplier Network, a new set of services that enables buyers to purchase products and services from more than 5,000 suppliers that offer more than three million products. The Catalog Management Service provides buyers with four service options for obtaining catalog content data from suppliers. First, buyers can access catalog content directly from the suppliers' Web sites using the Open Buying on the Internet (OBI) standard. Second, buyers can receive catalog feeds directly from suppliers in a standard way based on XML. Third, the Alliance is offering simple, useful supplier content to Netscape BuyerXpert customers in conjunction with Aspect Development. Finally, a custom catalog management service will be available to Netscape BuyerXpert customers through Aspect Development and Harbinger. The Alliance Supplier Network will provide products in categories such as maintenance, repair and operating items, office supplies, laboratory supplies and computer software and hardware. <http://sun.com>, www.netscape.com

ESPS TEAMS WITH FILENET ON COMPLIANCE MANAGEMENT

4/26/99

ESPS Inc. (Electronic Submission Publishing Systems Inc.) announced a strategic partnership with FileNET Corp. Under the terms of the agreement, ESPS will integrate FileNET's Panagon IDM software with its CoreDossier product suite to deliver solutions to customers concerned with the development and submission of large regulatory and business-compliance document collections. ESPS will take advantage of FileNET's Panagon IDM software

to add IDM capabilities to its CoreDossier software, designed for the regulatory- and business-compliance space. With this added IDM functionality, CoreDossier will enable organizations to assemble, manage and publish the large volumes of information necessary in regulatory submissions and other mission-critical document collections. www.filenet.com, www.esps.com

INTERCAP DEMONSTRATES WEBCGM IMPLEMENTATION

4/26/99

InterCAP Graphics Systems, Inc unveiled the world's first implementation of WebCGM at the XML Europe '99 Trade Show in Granada, Spain. The new version of software being released this fall will enable users to produce intelligent, WebCGM-compatible graphics that can be viewed on any WebCGM-compatible browser, including InterCAP's ActiveCGM Browsers for Windows and UNIX platforms. WebCGM is the W3C Recommendation for standard use of CGM vector graphics in Web-based applications. Announced by the W3C in January, WebCGM offers a standard approach for the effective application of the international CGM standard in hyperlinking and document navigation, picture structuring and layering, and searches and queries. WebCGM has been a collaborative effort of the CGM Open Consortium and the W3C to enable interoperability of Version 4 CGM across all Web document applications. The standard will enable CGM users to leverage existing validation tools, test suites, and product certification testing services for their applications. www.intercap.com

This is welcome news for CGM users. It is unclear how CGM will evolve given the other XML-based vector graphics activity, but if you have serious needs or ambitious plans for a web-based vector graphics application you should look at this.

INFODATA INTRODUCES CORRCONTROL

4/26/99

Infodata Systems Inc. introduced CORRControl, a Web-based off-the-shelf solution that can be customized for end-to-end digital management of federal agency correspondence. CORRControl handles every step, from correspondence scanning, processing and archiving to compliance with Freedom of Information Act and Paper Reduction Act requirements to meeting agency-specific guidelines for use of control numbers, subject codes, salutations and attachments. CORRControl replaces traditional manual correspondence systems that depend on hard copies of a document moving from one person to another, or from many people to many other people. CORRControl simply maintains one digital version of the original document, making it accessible to multiple people simultaneously. CORRControl combines hardware, commercial off-the-shelf software, a Web interface and customized programming to handle document conversion and document management. CORRControl comes with PDF conversion software, PPM scanners, and scan stations. In addition, customers receive workflow design evaluation, NT-based server, SQL Server runtime database, correspondence management software, Adobe Exchange software, and full integration and testing by Infodata. CORRControl runs on Documentum's Enterprise Document Management System 98.
www.infodata.com

DT SOFTWARE RELEASES VERSION 5.2 OF DTSEARCH

4/26/99

DT Software, Inc. introduces Version 5.2 of dtSearch, dtSearch Web and dtSearch Text Retrieval Engine. The new releases offer developers and large enterprises even more flexible handling of data sources across PCs, networks, intranets, and the Internet. It includes built-in file and image viewers for popular file types, and automatically recognizes, searches and displays documents with search "hits" highlighted. dtSearch 5.2 features more seamless support for heterogeneous language environments for international organizations and other mixed-language users. dtSearch Web 5.2 adds an easier, frames-based user interface

for navigating search results and retrieved documents. It also adds support for highlighting "hits" in PDF files through the browser interface, similar to the way that dtSearch Web already highlighted "hits" in HTML documents.

Additionally, it includes a simple Active Server Pages interface that makes it easy for corporate web developers to add highly customized search features to a web site. The dtSearch Text Retrieval Engine allows developers to embed dtSearch text retrieval technology in commercially distributed or in-house products for the PC, LAN or Internet/intranet. dtSearch Text Retrieval Engine 5.2 has more sample source code and enhanced C++, Visual C++, Delphi, and Visual Basic APIs, including ActiveX interfaces to data sources using SQL, ADO, MAPI, and more. It also includes sample source code to the enhanced Version 5.2 of dtSearch Web. www.dtsearch.com

OPTIKA ANNOUNCES RELATIONSHIP WITH XEROX PROFESSIONAL SERVICES

4/26/99

Optika Inc. announced the company has signed Xerox Professional Services (XPS) as a reseller of the company's products, including Optika eMedia. Optika's strategic alliance with Xerox provides sales access to the Xerox customer base and broadens the worldwide distribution of Optika eMedia technology. Under the agreement, XPS will market Optika eMedia to customers worldwide. Optika eMedia, Optika's extranet-based software solution, automates all types of business transactions between companies and their supply chain partners. It is an-integrated software solution that combines imaging and document management, workflow and COLD applications with a Web-based architecture to manage the full range of business documents and transactions -- both in paper and electronic formats. www.optika.com, www.xerox.com

INTRANET SOLUTIONS APPOINTS MARKETING EXEC

4/23/99

IntraNet Solutions, Inc. announced that it has expanded its executive marketing team to provide leadership and direction for the company's global marketing efforts. Dan Ryan, a former marketing vice president at Foglight Software (formerly Resolute Software), an enterprise performance management solution for Web commerce, joins IntraNet Solutions as its new vice president of marketing. Vern Hanzlik, the current vice president of product marketing will be taking on the new role of vice president, strategic business alliances and development. At Resolute Software, Ryan led the marketing launch behind their Real-Time Application Performance System products and championed several strategic relationships with leading organizations such as Oracle, PeopleSoft, Rational Software, Cisco Systems, eBay and Netscape. Ryan is relocating to Minnesota from Silicon Valley where he has spent the last 14 years in marketing and business development roles for several emerging technology companies. www.intranetsol.com

OPTIKA & ARTHUR ANDERSEN FORM PARTNERSHIP

4/23/99

Optika Inc. announced that the company has entered into a strategic partnership with Arthur Andersen. Optika eMedia will be included in the software solutions Arthur Andersen offers its enterprise clients. Optika's strategic alliance with Arthur Andersen will provide Global 2000 companies with a fully integrated solution to manage business-to-business transactions and communications over the Web.

www.optika.com

EXTENSIBILITY ENTERS XML MARKET

4/22/99

Extensibility announced the beta release of XML Authority, a new class of schema development tools designed to allow XML developers to quickly model, create and manage XML schemas from a variety of sources. XML Authority can construct schemas from many sources including existing DTDs, Java classes, ODBC data structures, COM objects and XML documents --

enabling users to migrate existing application schema to XML. XML Authority's ability to output schemas in multiple formats means that developers can support new standards without compromising corporate mandates or emerging standards. Schema output formats include standard DTD syntax, Microsoft's XML-Data, Data Definition Markup Language (DDML), Document Content Description (DCD), Schema for Object Oriented XML (SOX) and an example XML document. XML Authority fully supports the XML 1.0 schema specification, enhancing it with support for data typing and namespaces. With the introduction of Microsoft's Internet Explorer 5 and its support for XML-Data, users can easily convert existing schema formats for use with IE5.XML-based schemas identify the objects, properties and relationships for XML solutions. XML Authority allows developers to quickly create, modify and manage these elements in a visual environment, streamlining the process and thus improving productivity. XML Authority features a graphical user interface that allows users to import or create schemas, and view document elements, attributes, entities, and other objects in a hierarchical tree. With cut and paste support, modular schema development is easily achieved. Collaborative schema management within and between organizations is enhanced with audience-specific notes and change logging support. www.extensibility.com

DATAWARE TECHNOLOGIES & NET EXPLORER PARTNER

4/22/99

Dataware Technologies, Inc. and Net Explorer, Inc. announced a VAR partnership to deliver business critical knowledge management solutions to targeted vertical industries. The Dataware VAR reselling program is intended for solutions integrators that are leaders in geographic or vertical markets. Through the partnership, unique knowledge management solutions will create value for organizations looking to maximize their effectiveness and increase profitability. Net Explorer, Inc. is a provider of on-line knowledge management solutions for information technology, business processes and visual communications.

www.dataware.com, www.netexplorer.com

HYNET TECHNOLOGIES JOINS OASIS

4/22/99

Hynet Technologies Inc., developer of an electronic publishing solution that combines document management technology with electronic publishing capabilities, announced they are now a member of OASIS. OASIS is the Organization for the Advancement of Structured Information Standards, a nonprofit, international consortium dedicated to accelerating the adoption of product-independent formats based on public standards. www.hynet.com

INTERLEAF ANNOUNCES RDM

UPGRADE

4/21/99

Interleaf, Inc. announced a comprehensive migration solution to upgrade its document management customers (RDM) to its XML-based e-content solution, BladeRunner. Designed to leverage existing customers' investment in their document management solution, Interleaf's upgrade solution, RDM-X, enables RDM customers to implement the benefits of content management and of the emerging XML and Extended Style Language (XSL) information standard. RDM-X will be available as a phased approach enabling a seamless upgrade path for RDM customers to move to XML-based content management. RDM customers will initially receive BladeRunner's authoring and publishing capabilities integrated with the RDM repository, providing the ability to create XML, store the files in the RDM repository, and begin publishing XML to multiple formats using XSL. Ultimately the customers may purchase BladeRunner's repository to implement complete XML-based content management. www.interleaf.com

There was a time when RDM was the most popular high-end document management system. This upgrade path should be welcome news to RDM users.

COMPANION INTRODUCES WEB MANAGEMENT TOOL

4/21/99

Companion BV introduced Companion, a new tool for web development and management. Companion addresses the needs of professional web developers confronted with the ever-increasing challenge of managing web sites. Based on a component-based model,

Companion comes with a complete set of features for development and organized maintenance of medium-sized to large-sized web sites. The beta version of Companion 2.0 is available now at <http://www.companion.nl>. The definitive release of Companion 2.0 is scheduled for June 1999. Contrary to other web management systems, Companion adopts a 'true' component model. Components in Companion are not mere boilerplate code fragments to be 're-used' with a copy-and-paste routine. Rather they are 'programmable bricks' that interact with and adapt to the context they are used in. A web developer can decompose the web site into reusable segments of code, to any desired level of granularity. A component could contain a complete page, a page element (e.g. a navigation bar), a query script, a javascript, or whatever segment of code the developer wants to reuse within the web site. The web developer can assign any number of parameters to any component, in order to increase its reusability. Components can contain any combination of HTML, DHTML, JavaScript, VBScript or ASP. They are created and maintained with a script editor supporting features such as Syntax Coloring, Auto Completion, context sensitive Syntax Tips, and Drag and Drop editing. www.companion.nl

SEQUOIA PARTNERS WITH GENERAL DYNAMICS TECHSIGHT

4/21/99

Sequoia Software Corp. announced a partnering agreement with the TechSight unit of General Dynamics, based in Pittsfield, Mass., to license Sequoia's XML-based software, Interchange2000 (i2K). The TechSight team believes that Sequoia's Portal Development Software will enable TechSight engineers to develop enterprise information portals more quickly and more efficiently. The partnering agreement takes effect immediately. TechSight has developed and deployed systems including electronic document authoring, management and distribution; interactive electronic technical manuals (IETMs), logistics information systems; computer aided diagnostics; computer-based training and distance learning systems. Customers include Chrysler Corp., General Electric Corp., Kaplan Educational Systems, and U.S Airways. www.techsight.com, www.sequoiasw.com.

BLUE ANGEL ANNOUNCES XML SOLUTION

4/21/99

Blue Angel Technologies announced MetaStar Enterprise, an integrated XML solution that makes it easy for organizations to create Web based knowledge solutions using the latest technologies. Enterprise combines database, search engine and Web technologies to provide a turnkey knowledge solution that is quickly and easily implemented. MetaStar Enterprise lets users add, update and delete records in MS SQL or Oracle databases from their Web browser. The changes are reflected in the database in real time and are automatically indexed so they are also available on the Web in real time. Enterprise also includes workflow features that can be configured to automatically take specific actions when user-defined events occur. It uses XML as an underlying data interchange format. MetaStar Enterprise is available immediately. Prices range from \$35,000 - \$60,000.

www.blueangeltch.com

PC DOCS/FULCRUM ANNOUNCES WEB PUBLISHING SOLUTION

4/20/99

PC DOCS/Fulcrum announced DOCSSite, a Web publishing solution for PC DOCS/Fulcrum customers. DOCSSite provides non- technical users with the ability to automate the creation of linked HTML publications from any source document from any application, without any manual coding. Consistent, uniformly formatted, fully linked Web pages can quickly be produced and published on intranets and the Internet for immediate access by other users. DOCSSite generates industry standard HTML from such disparate sources as Microsoft Word, Excel, PowerPoint, WordPerfect and popular CAD applications, creating a uniform site appearance. Linking the various documents together, DOCSSite automatically creates navigation controls and ensures the resulting content conforms to the appropriate corporate image. DOCSSite is built on PC DOCS/Fulcrum's existing DOCS Binder XML- based compound document solution, which provides users with the ability to manage complex, multi-format documents as a single XML file within the document repository. DOCSSite will be available from PC DOCS/Fulcrum and select partners in June, 1999. www.pcdocs.com

CSI INTRODUCES PRODUCTS FOR SECURE TRANSFER OF DOCUMENTS

4/20/99

CSI USA Inc., an international supplier of secure document exchange software and services, announced today that it will release several new products. These products make the Internet secure for the exchange of business-critical documents and data. CSI debuts BDX, Business Document Exchange Service, a subscription service for the secure exchange of business-critical documents and data over the Internet. The only requirements are an Internet connection and a Java enabled PC or workstation. The BDX service presently has the capacity for thousands of users and is readily scalable to meet any future demands. CSI also introduces the latest version of its Business Document Exchange enterprise server software, BDE 2.01. BDE is portable (100% Java), scalable, and based on open system services including FTP, SQL, MIME and SMIME protocols. BDE and BDX are licensed on a per-user basis, and not based on data volume or throughput, a distinct advantage over private networks. This latest release of BDE features a new graphical interface and an enhanced command API, optimized encryption and database protocols (including support for Oracle, Sybase, Informix, and MS-SQL), and many other enhancements to the server, client, and remote administration components. CSI also announces BDC, Business Document Conversion, a new product designed specifically for the secure exchange of EDI data over the Internet. File formats and data conversion mappings are expressed in BDC-X, CSI's proprietary XML-based language, which enables professionals and consultants, not just programmers, to write data conversion maps.

www.csiusa.net

DATACHANNEL & ISOGEN MERGE

4/20/99

DataChannel Inc., and ISOGEN International Corp., announced that they have merged to provide a comprehensive set of XML solutions. ISOGEN will become a DataChannel Inc. company. The merger allows DataChannel to extend the DataChannel XMLFramework by providing enhanced professional services while delivering the benefits of formal standards to a larger market. ISOGEN International will retain its name and remain in Dallas where it is strategically located to easily service the new

company's combined user base. George Kondrach, Chairman of ISOGEN, will become General Manager, and Carla Corkern, President, will become Vice-President of the combined professional International Professional Services organization. www.datachannel.com

This looks like a good combination. There is a shortage of XML integration expertise, which can be a growth problem for vendors such as DataChannel.

AGILE JOINS NIST TO CREATE STANDARDS FOR ELECTRONICS MANUFACTURERS

4/20/99

Agile Software Corporation, a supplier of product change collaboration solutions for the electronic supply chain, announced it has partnered with the National Institute of Standards and Technology (NIST) in an initiative to establish standards for efficiently sharing printed circuit assembly (PCA) data between electronics manufacturers and their supply chain partners. As an industry partner in NIST's Internet Commerce for Manufacturing (ICM) testbed project, Agile Software is providing its Agile Workplace engineering change management technology for use in creating an environment that demonstrates and validates the use of open systems and standards for efficiently sharing both technical and business data across organizations. NIST's ICM initiative aims to create an easily replicable scenario for Internet-based electronic commerce spanning the complex supply chain common in today's electronics industry. Part of Agile Software's contribution to the NIST initiative is its XML-based technology, which is a key facility within the next generation Agile products. In making its XML specifications available to NIST, Agile is proposing its adoption as an industry standard for exchanging XML-based product information between electronics OEMs and their EMS providers. These documents include Build Packages, Engineering Change Orders (ECOs), Manufacturing Change Orders (MCOs), and bills of material (BOMs). XML is a platform-independent, Web-based language that lets users categorize and structure data to be transmitted over the Internet.

www.agilesoft.com

META DATA COALITION AND OMG TO COOPERATE ON METADATA

4/20/99

The Meta Data Coalition (MDC) and the Object Management Group (OMG) announced their first cooperative effort to develop metadata standards. In establishing a formal technical liaison, the MDC is now a Platform Member of the OMG, and the OMG is a member of the MDC. The objective of this cross-membership is to provide a way for the two groups to work together on common standards, based on the belief that standards reduce confusion in the marketplace and increase efficiency for IT organizations. The OMG has provided leadership in metadata management starting with issuance of the Repository RFI in 1995, which led to the OMG distributed repository architecture definition in 1996. The Meta Object Facility (MOF) was adopted by the OMG in 1995 and has been refined through the OMG's open, vendor-neutral standards process. The Unified Modeling Language (UML) was adopted in 1997. More recently, the OMG embraced W3C XML with the adoption of the XML Metadata Interchange (XMI). These three standards, UML, MOF and XMI, form the foundation of the OMG's modeling and metadata management architecture.. The MDC was founded in 1995 to develop and provide standardized metadata exchange; the coalition introduced the Meta Data Interchange Specification (MDIS) in 1996. Recently the MDC completed the technical review of the MDC-OIM, a technology-independent and vendor-neutral information model describing the structure and semantics of metadata. The MDC-OIM is based on the Microsoft Open Information Model, a metadata model and specification that is part of Microsoft Repository, a metadata management product. This model was developed by Microsoft, together with over 20 industry-leading companies, and has been reviewed by more than 300 companies as part of Microsoft's Open Process. The MDC-OIM supports the OMG's UML specification www.MDCinfo.com/. www.omg.org.

INFORMIX AND EXCALIBUR PARTNER FOR MEDIA RETRIEVAL

4/20/99

Informix Corporation, and Excalibur Technologies announced a strategic relationship to combine the Excalibur Screening Room solution with Informix's database technology. Excalibur Screening Room is a web-based, end-to-end solution for real-time capturing, analyzing, cataloguing, browsing, searching, retrieving and publishing video, as well as related closed-caption text and metadata, in a range of applications. Designed to manage video content in Internet portal and corporate intranet environments, Screening Room also directly supports media, broadcast and entertainment video asset management solutions. www.informix.com, www.excalib.com

AIIM INTERNATIONAL & IMC COMBINE

4/19/99

AIIM International and the International Information Management Congress (IMC), announced at that the world's two premier document technology associations have officially combined to form a single, worldwide organization dedicated to bringing industry vendors and users together. The combined organization will be known as AIIM International. The Boards of Directors from both AIIM and IMC met in Atlanta during AIIM '99 and voted unanimously in favor of combining the two associations. The official agreement takes effect immediately. AIIM International's European Region will be a pan-European organization with a semi-autonomous structure, controlled by a European Board of Directors. Focusing exclusively on the needs of the regional document technology industry, its goal will be to unify the region's market and expand membership there. The first event to be produced by AIIM International's European Region will be IMC '99. This will take place in Amsterdam at the RAI June 8-10 1999. John Mancini, the current president of the AIIM International, will become the new chief executive of the combined association. Paul Carmen, current president of IMC will become the president of the AIIM/IMC European Region. AIIM International will continue and expand its predecessors' activities in the fields of conference, exhibition and trade show

organization, publications and membership. The AIIM and IMC brand identities will be retained for existing events. www.aiim.org, www.iimc.org

LUTRIS TECHNOLOGIES ANNOUNCES INTERNET APPLICATION SERVERS

4/19/99

Lutris Technologies has unveiled Enhydra, a new Java/XML application server and development framework for building dynamic, adaptable multi-tier Internet applications. Enhydra is designed for companies ranging from midsize to the Global 2000. With Enhydra. Many parts of the Internet are built on the Open Source foundations built by pioneers such as Linux, Apache, PERL, Tcl/Tk, and even Netscape's browser. Enhydra is written entirely in Java and supports all tools and infrastructure necessary for multi-tier Internet application development and deployment. Enhydra enables users to take advantage of the emerging Internet business model with the ability to dynamically process information from multiple sources. Enhydra and its source code can be used by anyone for any purpose at no charge. This presents a much more flexible and affordable solution than commercial application servers, which start at around \$10,000 and can reach \$100,000 in Internet deployments. In addition, users can take full advantage of the combined power of hundreds of developers and testers, a capability that exceeds the teams working on even the largest commercial products. Enhydra is the first and only Open Source application server to feature XML based technology to simplify the interactive relationship of graphic designers and Java developers during the development of dynamic HTML presentations. Enhydra technology supports any potential server platform including Unix, Linux, Windows and NT, as well as industry-dominant Web servers including Apache, Netscape Enterprise Server and Microsoft IIS. The only platform requirement is the presence of an installed JVM for Java 1.1.6 or higher. Enhydra is available immediately under FreeBSD-style licensing, and may be downloaded today from www.enhydra.org. On-line demonstrations and FAQs are provided for quick evaluation. www.lutris.com.

NEOPLANET UNVEILS VERSION 5.0 & SUPPORT FOR GECKO

4/15/99

NeoPlanet Inc., developer of the NeoPlanet "browser/portal" available free for downloading at www.neoplanet.com, today previewed a next-generation NeoPlanet 5.0 featuring support for the Netscape Gecko browsing engine and a "toggle switch" that allows users to choose between Microsoft and Netscape browsing technologies. NeoPlanet's browser gives consumers and business users freedom of choice and the ability to seamlessly switch between Netscape and Microsoft browsing technologies while browsing Internet content and accessing Web-based applications and services using a consistent user interface.. Business users and Web application and content developers have the convenience of quickly and easily toggling between browsers. With the ability to view their Web sites in both environments they can ensure optimum viewing. Neoplanet 5.0 is the first consumer browser to implement Netscape Gecko, the next-generation browser engine first announced last December. Gecko is in full compliance with key W3C open standards, including CSS, DOM, HTML 4.0, RDF, and XML. www.neoplanet.com

RSDI.COM ANNOUNCES OPEN SOURCE CODE FOR E-COMMERCE

4/15/99

RSDi.com, a new silicon valley startup, has launched the Internet's first Open Source E-Commerce project. The first product, the Online E-Commerce Server utilizes Sun Microsystems' (java.sun.com) Java and Jini for a full out of the box E-Commerce solution. The product includes integration with Cybercash and PaymentNet for credit card processing, shopping carts, rewards programs, coupons, online auctions, automatic XML catalog publishing, business to business XML transactions, a GUI Java applet for building stores and auctions over the Internet, and runs on the Java Servlet, WebLogic, NetDynamics 5, and Netscape Application Server platforms. The success of projects like Linux and Apache have shown open source code software developed over the Internet is highly successful. RSDi.com is applying the same principles and methods to the ever-booming E-Commerce industry. Most E-Commerce software is extremely proprietary

and expensive giving RSDi's software a unique position in the Internet commerce marketplace. RSDi.com sells full technical support and consulting for the Online E-Commerce Server www.rsdicom.com

INFOTERIA SHIPS 'IPEX FOR LINUX' AND 'IPEX FOR BEOS' XML ENGINES

4/14/99

Infoteria Inc. announced the company has begun shipping the English versions of its high performance XML processing engine iPEX for the Linux and BeOS platforms. iPEX implements a series of XML processing functions, including Document Object Model Level 1 and Namespaces in XML as recommended by the W3C. iPEX allows software developers to reduce the cost and time of developing XML-access software. iPEX is priced at \$1,800 and requires the additional purchase of developer licenses at \$180 per developer. The Professional Edition of iPEX is \$18,000 and includes the complete product, on-demand hot-fix support, 10 developer licenses plus the right to embed iPEX in customer applications at \$1.80 to \$18 per copy, depending on volume. www.infoteria.com

ORACLE DELIVERS XML-ENABLED INFRASTRUCTURE

4/14/99

Oracle Corp. announced a complete infrastructure, based on XML, for the exchange and management of information associated with all aspects of e-business. This technology offers a more flexible server infrastructure to help companies solve complex business problems such as content routing, processing and management. As part of this infrastructure, Oracle announced that it is working on message broker capabilities, which will be combined with Oracle's Internet platform -- Oracle8i, Oracle Application Server and Oracle Tools -- to comprise a complete infrastructure for e-business. Specifically, Oracle announced: XML-enabled message broker capabilities; XML support in Oracle8i: available immediately in the form of an XML Parser; A new version of Oracle Application Server and a roadmap for the product that is a central component of Oracle's XML-enabled Internet platform. The Oracle Internet platform, consisting of Oracle8i, Oracle Application Server, and Oracle's message broker

capabilities, will provide an XML-enabled server infrastructure that can interface with any e-commerce server and back-office system, including order-entry and billing applications. www.oracle.com

MIVA ANNOUNCES DTD FOR MIVA SCRIPT

4/14/99

Miva Corporation announced that the XML DTD for Miva Script is now available to the public. Miva Script is a cross-platform, XML-based, server side scripting Language. Access to Miva Script's DTD and Commerce API means that third-party developers can create products that integrate with Miva Script. Miva Script gives developers access to advanced commerce and database features in a familiar environment that consists of HTML-like tags. In addition, Miva has developed a Commerce API for snap-in integration of payment processing systems. Developers can access these services using the MvCOMMERCE tag which can be embedded in a Web page. Any commerce service provider and third party vendor can integrate with the XML compliant MvCOMMERCE tag by supplying a shared or dynamically linked library. Miva Merchant, the company's electronic storefront development and management system, developed entirely in Miva Script, has been organized as a series of modules that can be field upgraded to provide new functionality without any changes to the core application. Miva Merchant's architecture lets third-party developers prepare and market specialized look and feel commerce modules. www.miva.com

CONSORTIUM FORMED FOR MAINTENANCE OF TEXT ENCODING INITIATIVE

4/14/99

A new consortium has been formed for the maintenance and continuing work of the Text Encoding Initiative (TEI). The TEI is an international project to develop guidelines for the encoding of textual material in electronic form for research purposes; until now, it had been organized as a simple cooperative effort of the three sponsors, and funded solely by grant funds. Now four universities have agreed to serve as hosts for the new consortium, and the three organizations which founded the TEI and have governed it until now have agreed to

transfer the responsibility for maintaining and revising the TEI Guidelines to the new consortium. In the first five-year period of the consortium (2000-2005), the four hosts will be the University of Bergen (Humanities Information Technologies Research Programme), the University of Virginia (Electronic Text Center and Institute for Advanced Technology in the Humanities), Oxford University (Computing Services), and Brown University (Scholarly Technology Group). The Text Encoding Initiative is an international project to develop guidelines for the preparation and interchange of electronic texts for scholarly research, and to serve a broad range of purposes for the language industries more generally. During the ten years from 1988 to 1998, the TEI issued two sets of draft guidelines and one 'final' version (TEI P3). During this decade, the TEI has become the most widely used document-type definition for encoding full-text literary and linguistic resources in library collections and scholarly editorial projects. www.tei-c.org

NETRIGHT TECHNOLOGIES CHANGES NAME TO IMANAGE

4/13/99

NetRight Technologies Inc. announced it has changed the company's name to iManage Inc., leveraging the brand recognition of its leading content management system (CMS) iManage. In other news, the company announced the availability of iManage Primera, the solution for legal firms with less than 100 DMS users. With the company name change, the iManage product for legal is also being renamed to iManage LegalOffice. iManage Primera is designed for law firms and legal departments of 100 users or less. It offers a modular design, security, the ability to customize the CMS to fit the unique characteristics of each firm, and all the features included in the existing high-end version of iManage's LegalOffice. The three-tiered system architecture of iManage Primera allows for greater reliability, stability and uptime of the CMS as compared to offerings from other vendors. iManage Primera offers the same client interfaces as iManage LegalOffice - network, web and remote. If a firm using iManage Primera grows beyond 100 users, iManage has created an easy migration path to iManage LegalOffice, Primera's sister application for larger firms. iManage Primera, as

with iManage LegalOffice, is integrated with several important supporting applications and programs. www.imate.com

SOFTSHARE INTRODUCES NEW DATA TRANSLATOR FOR E-COMMERCE

4/13/99

Softshare has unveiled Softshare Delta, a data mapping and translation application that meets the challenges of integrating EDI documents and XML documents with an enterprise's existing line of business applications. Softshare Delta supports the broad range of data formats that today's business must work with. These data formats include the ANSI X12 and UN/EDIFACT EDI standards, flat files, databases, XML documents, and text documents. Softshare Delta is one of only a handful of EDI data mapping applications that supports Microsoft's OLE DB standard and the XML data format. When mapping from one data format to another, Softshare Delta provides the user with a three-pane view: the top half of the view displays mapping rules and the bottom half is split between the source and target data formats. Users may customize the interface by viewing only one or two panes. Mapping a data element from the source data format to the target data format is as simple as dragging and dropping that element. Softshare Delta's Expression Builder allows users to incorporate functions, conditions, variables, and constants into the mapping rules. Available for \$3,600-\$5,800, Softshare Delta works with Softshare Vista 2.0 or Softshare's Electronic Commerce Server (ECS) application for data communications, tracking, and map execution management. Both Softshare Vista and Softshare ECS provide secure communications between trading partners and Softshare's network using Internet standards such as TCP/IP, SMTP, POP3 and the S/MIME security standard. www.softshare.com/software/delta.

RIGHTDOC INTRODUCES VERSION 2.0

4/13/99

RightDoc Company announced the immediate availability of RightDoc 2.0, an XML and CSS Internet standards-based business document writer and cross-media publishing engine. Application data-driven RightDoc creates multi-

faceted Enterprise or Web-based business document solutions, providing the ability to produce personalized billing statements, letters, financial statements, invoices, forms, legal contracts, and business intelligence reports that get results fast. RightDoc also renders documents cross-media: Directly View and Print, generate HTML 4.0 Web format, and device independent PDF format, as well as PostScript format for the printing industry. RightDoc's native integration of external ODBC data combined with conditional processing tags, reusable XML-based text elements, conditional CSS formatting styles, and images makes it easy to create 'Intelligent' documents which have the ability to personalize themselves based upon line-of-business data. RightDoc runs on Windows 95, 98, and NT (3.51 or above), and has an introductory price of \$299 per development seat. www.rightdoc.com/rightdoc.exe

LOTUS ACQUIRES ONESTONE

4/13/99

Lotus Development Corp. announced that it has acquired ONEStone Holding, Inc. and its workflow software technologies to enhance the ability of Lotus' customers to develop productivity-boosting workflow applications. Terms of the acquisition were not disclosed. ONEStone's primary product is PROZESSWARE, a workflow management system that provides businesses with the means to change from paper-based processes to electronically controlled workflow. PROZESSWARE consists of three components: PROZESS Designer, a visual development tool for defining, modeling and creating automated, controlled workflows; PROZESS Engine, the runtime component that activates, runs, and controls processes defined by the Designer; and PROZESS Viewer, a visual tool for end users that shows the current status or context of their work. ONEStone has offices in Paderborn, Germany, where all research and development takes place, and in Boston, MA, Great Britain, and the Netherlands. ONEStone customers include a broad array of Fortune 1000 corporations in the banking, insurance, manufacturing, telecommunications, government, and healthcare industries. www.lotus.com

PC DOCS/FULCRUM SHOW NEW CLIENT AND DOCSFUSION SERVER

4/13/99

PC DOCS/Fulcrum, subsidiary of PC DOCS Group International Inc debuted its latest document management products: DOCSFusion 3.0, PowerDOCS 3.0, and DOCS Open 3.8 at the AIIM'99 show in Atlanta, Georgia. DOCSFusion 3.0, PC DOCS/Fulcrum's upgraded Windows NT-based document management server, and PowerDOCS 3.0, its Windows-based client, are the latest enhancements to the company's three-tier document management suite. DOCS Open 3.8 is PC DOCS/Fulcrum's newest upgrade to its client-server document management product line. DOCSFusion 3.0 includes fail-over support which, through multiple physical servers acting as one 'logical server', ensures no down time if failure of any part of the network prevents a connection to a particular server. DOCSFusion 3.0's ability to pool these multiple server resources also enables load balancing, which significantly enhances reliability, performance and scalability. The DOCSFusion server also provides support for any kind of client connection -- regardless of geographic location. In addition to PowerDOCS 3.0 and DOCSFusion 3.0, PC DOCS/Fulcrum is also introducing the latest version of its client-server document management product. The new DOCS Open 3.8 is equipped with enhanced functionality such as improved full text indexing and multi-valued fields, which allow users to add more information to their document profiles. DOCSFusion 3.0, PowerDOCS 3.0, and DOCS Open 3.8 will be released on May 21, 1999. www.pcdocs.com

SQRIBE TO USE XML AS STANDARD FOR APPLICATION INTEGRATION

4/12/99

SQRIBE Technologies announced that its ReportMart Enterprise Information Portal will use XML as the open standard for integrating enterprise portals with third-party applications and data sources. The announcement, which expands on ReportMart's existing built-in XML support addresses the corporate requirement for a neutral interchange format between disparate data sources -- such as ERP systems, data warehouses, business intelligence applications, desktop applications, and live Web feeds. SQRIBE's expanded use of XML will enable

corporate intranet developers and IT organizations to accelerate portal deployments by ensuring portals will integrate within existing IT infrastructures. For example the XML interface will be used to support the process of moving large quantities of reporting information into SQRIBE's portal environment from external sources such as ERP systems. XML is also the mechanism for mass replication of metadata information, such as account, group, and category hierarchies that reside in ERP systems and other enterprise applications. The first product to use this XML extensibility is SQRIBE's RM/QuickConnect for PeopleSoft, a new integration module for the SQRIBE ReportMart portal and PeopleSoft. www.sqrIBE.com

BROADVISION INTRODUCES NEW VERSION OF ONE-TO-ONE

4/12/99

BroadVision, Inc. announced the immediate availability of BroadVision One-To-One Enterprise 4 International (4i). Including enhanced support for the requirements of international e-commerce sites and enabling performance increases up to 100 percent over previous versions, BroadVision One-To-One Enterprise 4i features new patent-pending technology. The product shipped on March 31, 1999. Recent research shows that Internet usage for e-commerce is fast becoming a global trend. The number of Europeans visiting Web sites is expected to jump from 4 percent of the population to 13 percent by 2001, says Forrester Research, while the number of Chinese Internet users will more than quadruple to 9.4 million by 2002, according to International Data Corp. BroadVision One-To-One Version 4i features capabilities critical to successful e-commerce sites across the globe including product translation, multi-language support and support for the Euro and other local currencies, date/time formats and number formats. www.broadvision.com

IPNET SOLUTIONS ANNOUNCES XML PRODUCTS

4/12/99

IPNet Solutions Inc. announced that IPNet.Suite 3.0 will mark the first step of IPNet's XML technology. XML support in IPNet.Suite will include: XML-based data import and export for all IPNet products; automated translation between XML and traditional business formats; support for leading ISV XML DTDs; and, automated HTML/HTTP Web translation from XML to HTML and other user-presentation formats. IPNet Suite 3.0 will support XML for data import and export functions with all IPNet.Suite products, including IP.web.link, IP.customer.link, IP.edi.link and IP.trade.link. XML data elements will be based on existing ANSI X12 standards, thereby leveraging the vast array of standard business terms and codes already used by EDI and related technologies. The 3.0 release will also support automated identification, scheduling, and transmission of XML documents between trading partners with configurable, granular management and tracking. IPNet Solutions will support many leading ISV DTDs as specifications are published, but chose to use the ANSI X.12 elements to define the structure of its business transaction DTDs. The elements used in ANSI X.12 are supported today by over 90 percent of the Fortune 1000 and over 175,000 businesses. www.ipnet-solutions.com.

CORRELATE ANNOUNCES INTEGRATIONS WITH LEXIS-NEXIS NETRIGHT AND PC DOCS

4/12/99

Correlate Technologies, a privately held company, announced that it had shipped its new product, Correlate 1.0. Correlate 1.0 is an application that extends the functionality of existing desktop and enterprise applications allowing the user to collect, organize, and dynamically update information from all of their data sources in a single compound document that can be instantly shared via email or published to the web. Correlate also announced partnerships that include the integration of its products with those from leading information services and document management companies including Lexis-Nexis, NetRight Technologies and PC DOCS. Correlate is a Windows client designed to capture information from anywhere on the data spectrum -- desktop applications

like Microsoft Office, Outlook, Windows Explorer and Network Neighborhood, Internet Explorer and the next version of the Netscape browser, OLEDB databases and MRP, ERP, document management. Text, graphics and even stock charts can be dragged and dropped into the Correlate workspace, organized and then shared with others via email or posted to the intranet or internet. Professional Correlate 1.0 sells for \$199 and is available immediately. Correlate Xtras for Lexis-Nexis, NetRight and PCDOCS users are available for \$49 each. Correlate Xtras are typically less than 100K downloads that provide very tight integration between Correlate and the respective partner application. Correlate expects to have as many as 20 Xtras in 1999. In addition, Personal Correlate 1.0 is available for personal use as a free download until through June 1999.

www.correlate.com

PAGEFLEX DELIVERS PAGEFLEX .5

4/12/99

Pageflex Inc, A Bitstream Company, announced that it is shipping Version 1.5 of the Pageflex Applications Suite. Pageflex is an on-demand XML based publishing solution consisting of three components: Pageflex Designer, Pageflex Producer and Pageflex Server. Together, these components enable the design, compilation and printing of on-demand, customizable documents. Pageflex Designer is a graphical page design tool that creates flexible templates used by Pageflex Producer and Pageflex Server. Pageflex Designer provides a graphical user interface which enables full editing capabilities and drag & drop capabilities for images, text and graphics from database sources. In addition, Pageflex Designer includes a free export plug-in enabling the import of page designs from Adobes In-Design product expected for release later this summer. www.pageflexinc.com

OBJECT DESIGN AND BLUESTONE ANNOUNCE XML PARTNERSHIP

4/12/99

Object Design, Inc. and Bluestone Software, Inc. announced a strategic partnership to integrate and jointly market Object Design's eXcelon XML data server and the Bluestone XML Suite. When used together, Bluestone XML Suite and eXcelon provide an integrated XML data-management solution for companies seeking to build and deploy new XML e-business applications in areas such as EDI, enterprise application integration, supply chain management, thin-client device, and business-to-business and business-to-consumer e-commerce. Through April 30, 1999, Bluestone is offering a special "sneak peek" price of \$995 to Object Design's eXcelon customers, and Object Design is offering Bluestone XML Suite customers a special eXcelon developer license price of \$695. www.objectdesign.com, www.bluestone.com

BLUEGILL TECHNOLOGIES TO USE XML

4/12/99

BlueGill Technologies, announced the BlueGill i-Series, a set of Web-based software applications and tools that enable companies to transform legacy data, such as billing, statements and business to business communications, into interactive customer applications (ICA). The i-Series assists companies in improving customer loyalty, increasing customer retention and building market share in the new Internet economy. The BlueGill i-Series consists of five Web-based software applications, including i-Banker, i-Broker, i-Biller, i-Telco, and i-Insurance, and is packaged around BlueGill's experience in implementing interactive, customized communications and transactions between businesses and customers in several different industry segments. While many of these implementations were for consumer EBPP, BlueGill has also implemented several other applications outside of EBPP, including telco business-to-business communications, manufacturing applications (EDI RFQ response), insurance administration and online investment statement applications. With the BlueGill Engine, the i-Series combines a modular set of industry specific functions for billing management, business-to-business bills,

statements, payment linkage, administration, e-commerce, customer service and marketing, and data management. The BlueGill Engine manages the transition of legacy data into XML-based "Smart Objects," by transforming the data into an object model and storing it as an XML construct. BlueGill Smart Objects are used to transform customer data into interactive applications, creating customized, flexible business applications. www.bluegill.com

COREL RELEASES WORDPERFECT OFFICE

4/8/99

Corel Corporation announced the launch of WordPerfect Office 2000. With this latest release Corel has concentrated on delivering greater performance and increased compatibility. Various versions of WordPerfect Office 2000 will hit store shelves in May, and in addition to the standard office offerings will also include Dragon NaturallySpeaking; and web site creation agent, Trellix 2 Compatibility has been improved in a number of ways. For example, WordPerfect Office 2000 has enhanced file support / conversions with Microsoft Word, Excel and PowerPoint, and supports PDF, VBA, HTML, ODBC, SGML, XML, and OLAP. The WordPerfect 9 file format remains unchanged since WordPerfect 6.1, so users can easily import or export their files to and from WordPerfect 9. Users can also import WordPerfect 5.1 for DOS files into WordPerfect 9. WordPerfect Office 2000 Standard Edition will be available for a suggested retail price of US \$109 (CDN \$149). Voice Powered Edition will be sold for a suggested retail price of US \$159 (CDN \$199). WordPerfect Office 2000 Professional Edition will be available for a suggested retail price of US \$209 (CDN \$249). WordPerfect Office 2000 Standard Edition will sell for a suggested retail price of US \$399 (CDN \$599). The full Voice-Powered Edition will be sold for a suggested retail price of US \$449 (CDN \$699) and WordPerfect Office 2000 Professional Edition will be available for a suggested retail price of US \$499 (CDN \$769). www.corel.com

There are still alternatives to Microsoft, and Wordperfect Office has some interesting features. The way to compare these two competing offerings is to focus on web integration capabilities.

IDETIX ANNOUNCES REVIZE V2.0

4/7/99

Idetix, Inc., an Internet and new media company focused on developing content management products and services, announced the release of Revize v2.0. Revize is a client/server content management software system that enables Web developers to build content editing capabilities into new or existing Web sites quickly and easily. Priced at \$895.00 U.S., the software is platform and web server- independent and enables content contributors to use any Java-enabled browser to edit content while site and page layout remain protected. Revize v2.0 is priced at \$895 US per web site. Per web site licensing is defined by the base URL entered for each running copy of the Revize server, or each separate entity or organization using Revize. There are no additional costs for content contributors, but third party licensing is required to resell content management services. Revize v2.0 is available through the company's network of resellers and VARs, or can be downloaded and purchased from www.revize.com

CONRADES NAMED CHAIRMAN AND CEO OF AKAMAI TECHNOLOGIES

4/7/99

Akamai Technologies, Inc. announced that George H. Conrades has been named Akamai's Chairman and Chief Executive Officer, effective immediately. He will spearhead the commercial launch of FreeFlow, Akamai's Internet content distribution service. Mr. Conrades, who has been representing Akamai investor Polaris Venture Partners as a member of the Akamai Board of Directors since last December, will also continue in his position as a venture partner at the venture capital firm. Before joining Polaris in 1998, Mr. Conrades served as Chairman and Chief Executive Officer of BBN Corporation where he led the commercialization of this prestigious high-technology research and development company. After BBN was acquired by GTE in 1997, he led the integration of GTE's overall Internet and data communications activities as Executive Vice President of GTE and as President of GTE Internetworking. Mr. Conrades began his career at IBM, rising to become the head of IBM United States, where he led the creation of IBM's services business. www.akamai.com

A big gun for an interesting start-up.

WAVEPHORE ANNOUNCES INTERNET BROADCAST SERVICE NEWSPAK

4/7/99

WavePhore, Inc. announced the availability of the beta release of WavePhore NewsPak. NewsPak enables easy integration of streaming real-time news, selected from more than 70 industry categories, into web sites. NewsPak includes both real-time news feeds and the NewsPak Software Developers Kit. The NewsPak SDK is based on XML, the new universal standard for information exchange. The SDK contains the tools necessary for web site owners to accept a real-time streaming XML news feed from WavePhore, store extracted content on their local server, then display this content in a style consistent with the rest of their site. The NewsPak architecture supports such enhancements as Internet broadcasting of streaming audio and video.

www.wavephore.com, www.newspak.com

ALPNET TO ACQUIRE EP ELECTRONIC PUBLISHING PARTNERS GMBH

4/7/99

Alpnet, Inc. announced that it has signed a Letter of Intent with EP Electronic Publishing Partners GmbH in Nuremberg, Germany, which is expected to result in the acquisition of all shares of EP Electronic Publishing Partners by Alpnet before the end of May 1999. Completion of the transaction is subject to due diligence and the execution of a definitive acquisition agreement. EP designs and develops custom-built systems for document, information and translation management. During the past three years, EP has developed and implemented a sophisticated translation management system for a large European institution, providing a unified translation management tool for more than 2000 users. EP was created in 1993 and was formerly the research division of TA Triumph Adler. The company employs 15 people who are active in system integration and consulting projects for German publishing companies. EP also has ongoing projects for a large European institution developing and maintaining translation and information management systems. EP currently projects 1999 revenues, prior to being acquired by Alpnet, to be approximately \$1.3 million with profitable operations. www.alpnet.com

MICROSOFT AND EFF PROPOSE SOLUTIONS FOR SIMPLIFYING P P

4/6/99

Microsoft Corp. and the Electronic Frontier Foundation (EFF) jointly announced newly proposed guidelines for the Privacy Preferences Project (P3P). The new technology and standards-based solution is designed to accelerate the widespread adoption of P3P. The proposed guidelines, which will be submitted to the W3C, simplify the process by which Web sites of all sizes can post privacy policies. Microsoft and EFF's proposed P3P guidelines are intended to simplify the process by which P3P-ready privacy policies can be created and posted. A P3P-based privacy statement is an XML document that states the information practices of a Web site or page. The first application of the P3P syntax to privacy statements will be available as a Web-based service called the Privacy Wizard. It is a simple-

to-use and easy-to-implement privacy solution for Web site owners who have limited technical and policy resources. The Privacy Wizard was developed by Microsoft and TRUSTe, a nonprofit organization dedicated to building consumer trust on the Internet, and will be available by the end of the week through MSN LinkExchange (<http://privacy.linkexchange.com/>). MSN LinkExchange is a provider of services that helps small businesses and Web site owners promote, improve and earn revenues from their Web sites. More information about the development and deployment of practical solutions for online privacy can be found in a case study, co-authored by EFF, Microsoft, and Ernst and Young, titled "Architecture Is Policy: Cooperative Development as a Means for a Standards-Based Implementation for Privacy on the Internet" www.eff.org/privacypaper/, www.microsoft.com

MULTICOSM ANNOUNCES REFINDMENT FOR LOTUS NOTES

4/6/99

Multicosm Ltd., announced Refindment for Lotus Notes. Refindment enables searches across Notes databases enterprise-wide and better organizes information with theming and summarization features. Refindment for Lotus Notes lets organizations make use of the vast amount of information contained in the Notes databases throughout an organization by coordinating the data into a master index of the most significant concepts or themes. Users can drill down and view summaries of the documents containing the selected themes. Refindment for Notes automatically populates each document with hyperlinks so that users can jump to other related documents. In addition, user's summary and theme databases can be saved for access by other employees, permanently capturing valuable corporate knowledge regardless of employee or company transitions. www.multicosm.com

XEROX CANADA JOINS PC DOCS AS NATIONAL RESELLER

4/6/99

Xerox Canada and PC DOCS/Fulcrum Canada announced a nation-wide reseller agreement to add the PC DOCS/Fulcrum suite of products to the Xerox Professional Business Services (XPBS) portfolio. Under the agreement, Xerox Canada

will offer the DOCS Enterprise and DOCSFulcrum suite of products on a national level through its established sales channels focusing on industry and vertical markets including Legal, Manufacturing, Financial Services, Graphic Arts, Engineering and the Public Sector. Xerox is also making a nationwide commitment to training and support for their XPBS sales team on the PC DOCS/Fulcrum solutions suite. www.xerox.com, www.pcdocs.com

THOMAN BECOMES CEO OF XEROX

4/6/99

Rick Thoman was elected chief executive officer of Xerox Corporation by the Board of Directors. The announcement was made by Paul A. Allaire, who is relinquishing the title of CEO but remaining as board chairman for about another year. Also today, two executive vice presidents, William F. Buehler and Barry D. Romeril, were elected to the board and named to the newly created position of vice chairman of the board. Buehler is also president of Industry Solutions Operations for Xerox and Romeril is also the company's chief financial officer. Allaire became CEO in 1990 and chairman the following year. Richard "Rick" Thoman, 54, joined Xerox in June 1997 from International Business Machines. From 1994-1995, he was senior vice president and general manager of IBM's personal systems group, which included the PC Company; and later he became IBM's chief financial officer. Prior to joining IBM in 1994, Thoman was president and CEO of Nabisco International, beginning in 1992. Before that, he was president and CEO of American Express International and chairman and co-chief executive officer of American Express Travel Related Services Company. Before joining American Express in 1979, Thoman was a senior associate with McKinsey and Company. Buehler, 59, joined Xerox in 1991 after 27 years with AT&T. His organization, Industry Solutions Operations, is responsible for developing and delivering industry-specific document solutions to customers in North America and Europe. Romeril, 55, joined Xerox in 1993 from British Telecommunications in London, where he had served as group finance director since 1988. At Xerox, he is responsible for all finance, treasury, tax and audit aspects of the company, as well as its internal services and real estate operations. In addition, he is responsible for Xerox Technology Enterprises, which oversees

emerging businesses; the company's intellectual property unit; and Xerox Engineering Services. www.xerox.com

INSO ANNOUNCES AVAILABILITY OF OUTSIDE IN FOR JAVA

4/5/99

Inso Corporation announced availability of Outside In for Java Version 1.0. Outside In for Java is a certified 100% Pure Java OEM viewing solution for developers of Java or multi-platform applications that require platform-independent access to business documents and graphics. Outside In for Java 1.0 consists of a collection of JavaBeans that can be integrated into Java-based and multi-platform applications, such as document management, workflow and messaging products, where access to information stored in business documents is required. Outside In Java can also be implemented as an applet to enable sharing and exchange of information on Network Computers and other thin client devices that support Java. 1.0 is available immediately. For access to an evaluation version and a complete list of supported formats, please visit the Outside In for Java area of the Inso Web site at www.inso.com.

DATACHANNEL'S RIO 3.2 NOW ON SOLARIS

4/5/99

DataChannel announced an addition to the Solutions Software component of XMLFramework by releasing RIO 3.2 for Solaris for general availability. RIO, an Enterprise Information Portal (EIP), is the core offering for Solutions Software within DataChannel's XMLFramework which consists of Solution Software, XMLToolkit, XMLBlueprint, XMLTraining, and XMLServices. RIO 3.2 for the Solaris operation environment extends the functionality of the RIO server. The feature set includes: Extensible Security Architecture, Extended Channel and Folder Capabilities, and Enhanced Content Management. Pricing for the RIO 3.2 for Solaris is \$14,500 for a server and 100 user licenses. www.datachannel.com

ALTAVISTA TO USE INXIGHT'S HYPERBOLIC TREE

4/5/99

Inxight Software, Inc., announced that AltaVista will be using its Hyperbolic Tree technology. The Hyperbolic Tree, is a user interface that allows computer users to navigate through large amounts of information such as web sites and document collections in a visual, intuitive way - unlike the traditional Windows metaphor of opening and closing folders and scrolling up and down to find information. www.inxight.com

This kind of interface, especially appealing for huge volumes of data, is finally moving from labs to products. Unusual at first glance, it quickly grows on you.

VERITY AND EARTHWEB ANNOUNCE RELATIONSHIP

4/5/99

Verity, Inc and EarthWeb, Inc. have announced a strategic relationship. The companies stated that EarthWeb is now using Verity as the core information retrieval technology for its Web site, and that together the two companies are looking at ways to use Verity products to package EarthWeb's information technology content for delivery on corporate networks. www.verity.com

INFOACCESS ANNOUNCES VIRTUAL WEBMASTER

4/5/99

InfoAccess Inc. has released the HTML Transit 4 beta to select partners and customers. This release, labeled "The Virtual Webmaster," automates the creation and maintenance of, Websites from standard business documents. HTML Transit 4 builds Websites from standard business documents that have been created using popular authoring tools such as Office 2000, Lotus SmartSuite Millennium or less traditional tools such as a CrossPad or a scanner. It can also import XML, HTML and PDF files. Transit Templates, Cascading Style Sheets and sophisticated frame layout capabilities facilitate precise control over the look and feel of Web pages generated by HTML Transit. HTML Transit also supports custom tagging and Java, giving Web developers more options when developing complex corporate Websites. Using a new

technology called Abstraction. HTML Transit analyzes inconsistently styled business documents, infers their structure and creates consistent looking Websites. Tables of contents, indexes, metadata and other reference materials are created automatically providing rich navigational options and search support across virtually unlimited levels of hierarchy. HTML Transit 4 is scheduled for public release in May 1999. Suggested Retail Price for HTML Transit is \$495. HTML Transit is available from InfoAccess directly or from select partners and resellers. www.infoaccess.com

GLYPHICA LAUNCHES PORTALWARE 2.0

4/5/99

Glyphica, announced InfoPortal 2.0, the next generation product of its PortalWare product suite. InfoPortal 2.0's enhanced functionality makes it easy for companies to automatically create personalized extranets, print documents remotely via the Web, immediately convert existing documents and data into Web content and manage and communicate targeted, business-critical information to customers, partners and employees over the Internet. Specifically designed to be used by the non-technical, line-of-business professional, PortalWare automates portions of building and sustaining a portal site and provides content management capabilities. InfoPortal 2.0's features are designed to specifically benefit large sales and marketing organizations, financial services institutions and publishing companies. www.glyphica.com

UWI.COM ANNOUNCES XML DIGITAL SIGNATURE SUPPORT FOR NETSCAPE

4/5/99

UWI.Com, announced a free addition to its InternetForms System product line that provides support for Netscape Certificate Management System 4.0 and Communicator. The InternetForms System is the first third-party solution offering digitally-signed XML documents compatible with Netscape Communicator and Netscape Certificate Management System. UWI.Com's InternetForms System is a suite of XML software that allows organizations to conduct secure, verifiable business-to-business e-commerce transactions

on the Internet. InternetForms are based on Extensible Forms Description Language (XFDL), the XML protocol for legally-binding transactions on the Internet. Users can sign InternetForms using digital signatures in either Netscape or Microsoft browsers, providing a secure transaction record that offers non-repudiation. www.uwi.com

MIVA INTRODUCES MIVA COMMERCE

4/5/99

Miva Corporation, introduced the Miva Commerce Server, a complete e-commerce solution designed for small- to mid-sized enterprises to enable their Web servers with a application engine, an XML-based scripting language and a browser-based electronic storefront development and management system. The product gives enterprises complete autonomy in the development, deployment and management of robust and scalable commerce applications, data-driven Web sites and corporate Intranets. The Miva Commerce Server is a fusion of the company's Miva Merchant v1.2 electronic storefront development and management system and its Miva Empresa v3.6 application engine and is available for the Windows NT and Cobalt RaQ2 platforms. In addition, Miva Corporation has developed a customized installer for the Cobalt RaQ2 platform allowing for ten-second installation of the product for RaQ2 customers. The Miva Commerce Server includes an application engine and enables enterprises with Miva Script, an XML-based scripting language. Once the Miva Commerce Server has been plugged into a Web server, Miva Script files, identified by specific extensions, are automatically parsed and deployed by the engine. In addition, the electronic storefront development and management system included with the product enables non-technical users to create and manage customized commerce sites in a point-and-click interface and offers advanced developers the ability to manipulate application source code (Miva Script) to author complex, highly customized commerce sites. www.miva.com

INTRANET SOLUTIONS LAUNCHES DEVELOPER'S KIT

4/5/99

IntraNet Solutions, Inc. announced the immediate availability of the Intra.doc! Developer's Kit (IDK) that helps organizations customize Intra.doc! instances on an intranet, extranet or the Internet. The IDK helps organizations get a customized Intra.doc! system up and running using ActiveX or command line interfaces, a scripting language and a "component" wizard. In addition, IntraNet Solutions is announcing Intra.doc! Version 3.6 that includes support for SQL Server 7, PDF Watermarking and other enhanced functionality. www.intranetsol.com

OPTIKA eMEDIA INTEGRATES WITH MICROSOFT COMMERCE PLATFORM

4/5/99

Optika Inc. announced that it will integrate Optika eMedia with the Commerce Interchange Pipeline (CIP) and next-generation Microsoft technologies, including BizTalk Server, to offer a complete Web commerce solution. BizTalk Server will extend Microsoft CIP features found in Site Server Commerce Edition version 3.0 to further enhance interchange and data transformation capabilities, as well as trading partner management tools. The integration with Microsoft's commerce technology offers a platform that will enable corporations to more rapidly and easily exchange business information with their partners over the Web, and will extend Optika eMedia's functionality in providing access to disparate types of transaction information. Together with its existing Web commerce relationships with EDI vendor Harbinger and XML Internet forms vendor UWI.Com, Optika's alliance with Microsoft enables Optika's customers to use industry-standard eCommerce technologies to more effectively and efficiently exchange business transactions. www.optika.com

MICROSOFT RELEASES OFFICE 2000 TO MANUFACTURING

4/1/99

Development and testing of Office 2000 is complete and the suite has been released to manufacturing, according to Microsoft. The business software suite is scheduled to be available to volume license customers in April and to retail customers on June 10, 1999. Office 2000 adds extensive web functionality to business software applications, making it easy to use the web to publish and share information. Using any Office 2000 application, people can create documents and easily save them directly to a web server. They can also open Office documents from a web server and edit them with any Office application.

www.microsoft.com

INTRANET SOLUTIONS APPOINTS NEW CFO

4/1/99

IntraNet Solutions, Inc., announced the appointment of Gregg Waldon to the position of chief financial officer, treasurer and secretary reporting directly to chairman, chief executive officer and president, Robert Olson. Waldon will be responsible for all aspects of financial operations at IntraNet Solutions and will play a key role in strategic planning and expansion of the company's software business. He will also join the board of directors replacing the departing CFO, Sjobeck. Previously Waldon was CFO for seven years at GalaGen, Inc. He brings over 14 years of financial management experience including seven years of experience with public accounting firms such as Price Waterhouse and Touche Ross & Co.

www.intranetsol.com

INPUT SOFTWARE FORMS ALLIANCE WITH EASTMAN

4/1/99

Input Software, Inc. announced it has formed a strategic marketing alliance with Eastman Software. As part of this alliance, Input Software's information capture software product, InputAccel is now integrated and available with the newest release of Eastman Software's document image management product, Eastman Software Imaging for Windows NT 3.2 via the InputAccel/Export Module. InputAccel provides end-users with the ability to standardize on a single capture solution for converting and exporting hard copy documents such as paper, faxes, microfiche and electronic documents into compatible file formats that are stored in Eastman Software Imaging for Windows NT 3.2 common documents repository.

www.eastmansoftware.com, www.inputsw.com

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