

THE GILBANE REPORT

Content Technology Works!

MICROSOFT, ADOBE & XFORMS TO SHAKE UP ELECTRONIC FORMS MARKET

Our title this month reads like a news headline on purpose. There are a number of new, and upcoming, developments in electronic forms (eForms) technology that should be grabbing your attention. Some of these are of major importance on their own, but taken together, they signal the start of a major improvement in businesses' ability to easily collect, integrate, and process information.

"Electronic forms" have been around for years, but the term refers to a wide variety of technologies – from scanned image applications to HTML forms – that are not at all similar and far from equal in their ability to accelerate and smooth business processes. What eForm technology has shared is: a level of difficulty that kept it out of the reach of office professionals who were comfortable enough with documents and spreadsheets, but scared-off by forms, and proprietary data formats that made information integration costly and complex. This month Bill explains why all this is changing. The effects of new eForm technology will be far-reaching, and we will be looking closely at eForm developments in these pages as well as in our conferences. This is a critical technology for improving content management and information integration capabilities and ROI. Stay tuned.

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MICROSOFT, ADOBE & W3C TO SHAKE UP ELECTRONIC FORMS MARKET

Electronic forms (eForms) have always represented a significant piece of the Enterprise Content Management puzzle. On one end of the marketplace, eForms have been implemented to replace traditional paper processes, such as in government and paper-intensive industries such as financial services. In a number of other applications, such as Web Content Management, eForms are the *de facto* user interface for such tasks as content entry, editing and system administration.

As eForms have proliferated in both of these types of applications and others, the functional and architectural requirements for eForms have grown. Where early eForms were successful merely for capturing and perhaps storing data, it didn't take long for developers to want to manipulate and work with the captured data. On the end of the market where dedicated eForms tools were being used to automate paper processes, such development typically involved working with the proprietary data structures and programming interfaces of the eForms vendor. In applications such as Web content management, the functionality and architecture of eForms were bounded mainly by HTML and related technologies such as JavaScript. As organizations have moved toward application server-centric architectures such as J2EE and .NET, both the proprietary approaches and HTML-based forms have failed to keep up.

From the perspective of commercial software, eForms are a substantial business, but one that historically has been seen from one end of the content management spectrum—that being the scan and capture world. That is, many e-forms products and efforts have been concerned with taking traditional paper processes and beginning to make them more electronic. More recently, some e-forms technologies have begun focusing on taking these now-electronic processes and making them more robust, especially on the front end. By robust, we mean that the front ends have more logic, more customization and adaptation to the user experience, and more fidelity with the intended look and feel of the forms and documents being processed.

This evolution of the traditional eForms business is now intersecting with an evolution in the way forms are being used in Internet applications. Since the beginning of the Web, HTML forms have been the *de facto* and dominant mechanism for user interaction with Web-enabled content sources and applications. The good news about HTML forms is that they are easy to assemble, ubiquitous, and well understood by Web developers. The bad news is that HTML forms are as flawed as HTML itself. Because they are loosely structured and lack a standard programming interface, HTML forms remain an incomplete technology.

Enter Xforms, a W3C technology to bring XML, well developed programming interfaces such as the Document Object Model, and a standard data model to Web forms. In response, the traditional forms vendors have, to varying degrees, made their technology Xforms compatible – some by providing mapping of their proprietary data structures to Xforms, others by making their data structures and tools less proprietary. The result should be a new generation of forms technology that will work much better with the growing technical infrastructure of J2EE and .NET.

Significantly, though, both Adobe and Microsoft have stepped into the mix. Adobe has been targeting the forms market since its Accelio (Jetform) acquisition. Adobe's efforts are both an attempt to broaden the Acrobat/PDF franchise and to expand into new markets. Microsoft's introduction of InfoPath can be viewed in a similar light – an attempt to broaden the franchises of both Microsoft Office and Microsoft's developer tools, as well as an effort to expand into new markets (and notably some of Adobe's). How successful will Adobe and Microsoft be, and how successful will some of the established e-forms companies be in retaining their market share in the face of these new and larger competitors?

The fundamental change is that the new generation of eForms technologies will combine interactive forms based on structured markup with tools accessible to normal office workers. eForm applications and XML content could proliferate both throughout larger enterprises as well as smaller businesses. More tools—and more affordable tools—are emerging because the technology is maturing and because of the number of potential applications is enormous. eForms should emerge as a significant technology in the ECM mix.

FORMS & EFORMS IN THE ENTERPRISE

Forms are ubiquitous in business, government, and education. One of the first things that even a small organization does is develop forms for standard business processes—invoices, time cards, employment applications, and so on. For customers and citizens, forms are often the first (and hopefully not the last) interface to an organization. For large organizations, it is not unusual to have hundred, even thousands, of unique forms. Often, these forms have evolved and been refined over a long period of time with great care being paid to both the information being collected and the design of the form. A well-designed form is a successful blend of information design, graphic design, and attention to the needs of the business.

But the traditional paper form left this information at arms-length—or more—from the business systems that needed to process this information. As businesses automated, paper forms often were lashed to electronic processes, making for complex and inefficient workflows. Thus was the scan and capture business born, and many organizations have lived for years with various kinds of scanning, data entry, and other kinds of semi-automatic processes.

Form technology has have given organizations the ability to tie forms—and the level of information capture that comes with forms—more closely to business processes. eForms can reduce inefficiencies, and increase the accuracy of the information that is captured. Such improvements come from simply allowing the information to be captured once, instead of relying on error-prone techniques such as scanning and re-entering. By capturing the information earlier—and with greater accuracy—eForms can help organizations avoid data quality problems downstream and provide more automation to common business processes.

eForms technology has grown by providing better functionality in at least three areas:

1. *Improvements in the rendering of the forms.* The precise rendering of some forms is very important for certain applications. Many eForms ap-

plications have been driven by the requirement to make the electronic version of the forms as much like the paper as possible.

2. *Improvements in the validation and user interface.* Early eForms provided rudimentary data capture, and little validation of the captured information. These technologies have been improved by providing more validation, and also by improving the user interface to allow for features such as having the form customize based on certain user input.
3. *Improvements in the interoperability of the forms technology with other software.* Originally, eForms solutions were highly proprietary, with proprietary repositories and programming interfaces. As organizations have emphasized open standards and greater interoperability, the eForms technologies have been enhanced to improve more standard data structures and programming interfaces.

HTML forms have followed a similar evolution. Early HTML forms provided rudimentary data capture, little or no validation, and were loosely coupled with databases and other applications. As more applications were tied to browser interfaces, developers devised a number of techniques to improve the user experience and improve the data capture and validation. Ultimately, though, the result is a hodgepodge of scripting, style sheets, HTML, and a variety of supporting technologies. The fact that HTML—with its inability to describe and enforce a standard data model—is at the core of the approach is a fatal problem in and of itself.

The shortcomings of HTML forms are widely known and understood. Indeed, the standardization effort that became Xforms grew out of the frustrations developers had with HTML forms—and the realization that a better forms technology was needed to help make the Web the ubiquitous interface for all applications and content. Similarly, the commercial eForms products needed to conform to the current architectural requirements of enterprise content and data management systems.

This brings us to the current state of eForms, and the near-simultaneous emergence of several new technologies:

- The release of the W3C's Xforms 1.0 as a *recommendation*.
- The release of Microsoft's InfoPath forms technology as part of the general release of the latest version of Microsoft Office.
- The release of new versions of eForms products from established vendors such as Cardiff, PureEdge, and Texcel. The product releases are addressing both Xforms and compatibility with InfoPath.
- The upcoming release of Adobe's new *Forms Designer* product, which is intended as a complete overhaul of the product line that Adobe acquired from Accelio

It's important to note that these specific technology innovations are not happening in a vacuum. At least one broader technical trend is driving this focus, and there are several business drivers. *The broad technical trend* is the need for an improved experience for the end user as more and more applications rely on a

browser interface. *N*-tier computing is here to stay, as more and more business applications are brought to portal and browser interfaces through the loose coupling of disparate systems and data sources. For presentation, HTML and Cascading Style Sheets are giving way to XML, XHTML, and more flexible and variable style sheet technologies such as XSLT and XSL-FO. For data structure, HTML forms will give way to Xforms.

The business drivers include the recent deadlines for HIPAA (the Health Insurance Portability and Accountability Act) and GPEA (the Government Paperwork Elimination Act). Both of these government initiatives have led to significant investments by healthcare organizations, insurers, and government agencies to digitize more content and information, automate more workflows, and ensure greater controls and protection over the information. And while these initiatives are important, and have led organizations to make specific changes, there clearly is a broad effort to not only bring more content and information under electronic workflows, but to also ensure that these new workflows are effective. Even small organizations are doing more in this direction and realizing short-term goals of cost savings on the way to longer-term goals of greater efficiencies and improved customer service.

The result is a healthy and active corner of the ECM market. It's worth looking at Microsoft's InfoPath to see if it represents another evolutionary step in this market, or something else.

INFOPATH & XML EVERYWHERE

Microsoft is not new to forms, of course. Various Microsoft end-user and developer tools have rich capabilities for forms development. This begins with business tools such as Word and Excel, and continues with HTML tools such as FrontPage, and development tools such as Visual Basic and others. What these other tools lack, despite their excellent overall capabilities, is a unified data model. Microsoft's own illustration for InfoPath shows how such disparate tools for collecting information and content can lead to the *stovepipe* problem in application development. As with the client-server development model, the immediate problem is solved once a user interface is in place to connect users with the back end systems.



Figure 1.

Source: Microsoft

With XML-based forms, the information and content can be captured in a generic way that can then be integrated with multiple applications. Where the W3C's Xforms specification is an attempt to provide a generic data structure for eForms that everyone would use, InfoPath is an attempt to provide an XML-centric platform for forms development. As Microsoft's illustration shows, they see it as a general-purpose forms development environment, and, with the other primary applications of Microsoft Office, as the ubiquitous user interface for the business user.

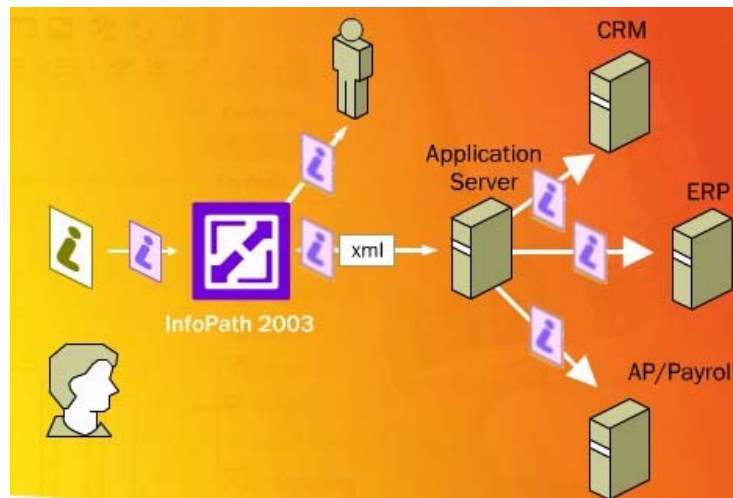


Figure 2.

Source: Microsoft

InfoPath is a desktop application that uses XML as its native format, and provides features such as XML document editing, document viewing, and document input and output. InfoPath's working document is a *form template*, a file or set of files that specifies the form's data structure, appearance, and behavior. Typically, the form template contains a schema and one or more XSLT files to define the structure and view(s) of the data to be captured by the forms. It can also contain image files, scripts, and something Microsoft calls a *manifest file* for containing form customizations. Once data is entered in the form, the form's contents are handled in memory as a DOM tree, making the core of InfoPath largely based on industry standard XML and closely related standards.

At the same time, InfoPath is a Microsoft client application. It requires installation of a client to each machine, and is tied closely to the Microsoft Office suite. The good news with that, of course, is that so many users are accustomed to the Office environment, and the Office installation includes a great deal of useful general purpose tools for rich text editing and formatting, table handling, and spell checking. The bad news is that the eForms market has been trending toward a thin client in the recent few years. Established eForms vendors that have been unable to deploy thin client solutions have lagged, and newer vendors that have embraced thin client approaches (such as PureEdge) have gained traction against older competitors.

It is also interesting that InfoPath is bucking another trend that many analysts had felt was a foregone conclusion—that not only would the browser be the ubiquitous user interface, but also that some kind of portal infrastructure would do the job of bringing specific application interfaces to the browser. Microsoft

seems to be offering another strategy—that Windows, Office, and interface tools such as InfoPath will be the ubiquitous user interface.

Yet it appears Microsoft needs the Office environment—and the rather heavy client installation that goes with it—to accomplish one of the key features of InfoPath, which is its ease of use. Microsoft has designed InfoPath to be easy to use, and it includes a WYSIWYG design mode to let users design or modify *form templates* without having to interact with the XML schemas or XSLT scripts. InfoPath comes with a selection of canned forms, and forms can be designed from scratch using the WYSIWYG design tool. The WYSIWYG tool then generates the necessary XML schema, XSLT files, and related supporting files.

This emphasis on ease of use likely signals part of Microsoft's aim with InfoPath, which is to offer organizations an alternative to Acrobat and PDF. Despite Microsoft's overwhelming success with Microsoft Office, Adobe Acrobat has stubbornly maintained—and grown—its position as the primary means of representing and distributing office documents. While Adobe has been looking to eForms to further solidify the Acrobat franchise, Microsoft has positioned InfoPath as a more flexible platform for eForms development. The conventional wisdom in advance of InfoPath's release was that it was indeed more flexible but was perhaps more programmer friendly than user friendly. That Microsoft is emphasizing the WYSIWYG design and customization tools suggests that Microsoft is trying to answer the criticism that InfoPath is too programmer friendly. It also suggests that Microsoft is doing some positioning in advance of the release of Adobe's new forms designer product, which is coming out in Beta this November and will be in commercial release next Spring.

One of the interesting applications of InfoPath is as a reporting mechanism. Because of its core reliance on XML schema and XSLT, InfoPath offers a powerful and flexible mechanism for generating ad hoc views of data. When coupled with the interface tools and widgets, InfoPath gives developers an impressive toolkit for forms generation. While Microsoft's FAQ stresses that InfoPath is not optimized for reporting—rather it is optimized for applications where the information and content need to be edited—developers will find a lot of opportunities to use InfoPath as a reporting tool.

ADOBE'S CONTINUING EFFORTS

Adobe, of course, has a long history in the eForms market, and they have been working with both the evolution of their core products and through acquisition to broaden that franchise. Because eForms has grown from the print incarnation of forms, Adobe has always had a presence in the eForms market. Beginning with Acrobat 3, users began using Acrobat for the distribution of forms. The IRS, for example, was an early and significant organization to begin distributing forms in Acrobat for distributed printing. End users would download and print important forms locally. Indeed, this was one of the early Web applications that drove the browser companies to aggressively develop plug-in interfaces for applications such as Acrobat.

Such an application, though, immediately raises the question of allowing people to view and fill in the form online. So while Acrobat 3 itself did not have a

capability for filling out forms via a browser interface, Adobe did release a plug-in for Acrobat that did support forms, and then provided this functionality in Acrobat 4.

Acrobat 4 also introduced a dynamic format for creating forms in Acrobat—Forms Data Format, or FDF, which, like PDF, was an all-ASCII format that could be manipulated and generated using a toolkit. The toolkit supported C and Java, and enabled developers to create applications where forms could be generated and regenerated dynamically. While this proved very useful, this was also the timeframe in which XML was emerging as the *lingua franca* for data interchange on the Web. As a result, later versions of Acrobat focused on first opening up FDF to XML and later to making XML support truly generic. Thus, Acrobat 5 included XFDF, with XML-based forms encoding that supported a single Schema (XFDF), and Acrobat 6 includes support for any XML schema.

Adobe clearly views eForms as an important market. While Acrobat has perhaps the largest audience of any single software product, the majority of Adobe's end-user and developer products are marketed at professionals in various creative fields. The eForms market itself is perhaps almost as broad as the market for Acrobat. Nearly every kind of consumer interacts with forms of some kind or another; eventually the same thing can be said for eForms.

Thus Adobe's acquisition of Accelio made perfect sense from a market perspective. In Accelio they acquired an established player on both the server and client side of the eForms market. They also acquired a company with an XML focus and a great deal of XML technology, though the earlier versions of the Accelio product lines didn't necessarily feature it prominently. Acrobat's newer capabilities, for instance, of allowing arbitrary XML in and out of the document, are based on the Accelio technology.

Adobe's approach to eForms is intended to leverage all of their strengths in document creation and processing. Indeed, Adobe views the problem set of eForms and dynamic documents as being closely intertwined, so the clear long-term strategy for Adobe is to provide tools that allows a designer to create both documents and forms together. As such, it will be very interesting to see what Adobe does with the new version of its Forms Designer product, which is due out as a public Beta before the end of 2003.

Adobe's clear strength in the forms market will be to continue to leverage their unmatched capabilities in document distribution, and to stress the necessity of page fidelity in many eForms applications. While Adobe was one of the original contributors to the Xforms effort and is still involved, Adobe is counting on people caring about the presentation of the eForm. This is a pretty safe bet, in our eyes.

CONCLUSION: INFOPATH, ADOBE, AND THE COMPETITION

InfoPath is an impressive new offering, but it will not immediately dominate the eForms market. The early conventional wisdom is that it is good, solid 1.0 offering. InfoPath is also, intentionally, not a total eForms solution. Several of the existing eForms vendors have more comprehensive product offerings (*e.g.*, Cardiff's Liquid Office), some of them do a better job of providing a more open and stan-

ards-based solution (*e.g.*, PureEdge), and several of them successfully deliver *page fidelity* (what others might call “pixel perfect form”) to the original paper forms. Finally, InfoPath will propagate with the latest version of Microsoft Office. It typically takes more than a year for the latest version of office to replace earlier versions on the majority of desktops.

In the meantime, Adobe will be introducing their new Forms Designer product, and continuing to emphasize the need for page fidelity and presentation in eForms applications. Adobe also can already point to the significant number of applications that already leverage Acrobat and the product lines they added in the Accelio acquisition.

The good news for the eForms market is that Microsoft and Adobe bring new strategic thinking to what has been a relatively small market. InfoPath will have the immediate effect of bringing eForms to the attention of the CIO, and will help bring a new focus to improving the client experience for the business user. As organizations deploy more applications to a distributed workforce and partners, eForms will become a more strategic piece of the ECM mix.

Indeed, eForms have a growing role beyond ECM itself, as they are emerging as the primary interface between people, process and programs. It is no accident that the significant initiatives now—Sarbanes-Oxley, HIPAA, and the like—are forms-centric. Moreover, initiatives such as Sarbanes-Oxley are all about improving business process management while making access to both content and data more transparent and comprehensive. To this end, eForms must continue to evolve from a standalone artifact to a flexible interface intimately connected to enterprise infrastructure. The implications of this are profound. The vendors and organizations that can successfully manage this evolution will realize more success, more quickly, and will lead the next wave in integrated content and information technology.

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Some Representative eForms Vendors	
Company	Comments
Cardiff, http://www.cardiff.com	Established provider of eForms solutions; maker of a comprehensive eForms solution, LiquidOffice.
Adobe, http://www.adobe.com	A growing presence in the eForms space through Acrobat and acquisition of Accelio.
Microsoft, http://office.microsoft.com/infopath	A newly focused presence in the eForms space with the introduction of InfoPath
PureEdge Solutions, http://www.pureedge.com/	Established provider of eForms solutions. Along with Cardiff, has taken active role in development of Xforms specification.
Texcel Systems, http://www.texcel.com	Smaller but growing company that provides tools for converting various legacy document formats into eForms.
Mosquito orgabit GmbH, http://mosquito.markuplanguage.net	mosquito is the maker of the DENG XBrowser. DENG is a modular XML browser, that supports XForms , SVG , XHTML , arbitrary XML with CSS , XFrames and any other custom XML namespace.
ScanSoft, http://www.scansoft.com/	ScanSoft is a supplier of productivity software with concentrations in imaging, speech, and language solutions. Their OmniPage and PDF Converter tools are used for converting documents to various eForm formats.

Table 1. Representative eForms vendors

INDUSTRY NEWS

Current news, old news (to January 1999), and commentary is available at www.gilbane.com. Free RSS 2.0 news feeds are available at www.gilbane.com/syndication.html.

WEBMETHODS ANNOUNCES INTRODUCTORY PORTAL PRICING

10/29/2003

webMethods, Inc. announced special introductory offerings of webMethods Portal to help customers move strategic portal projects into production. The special promotions, which are expected to remain in effect until March 31, 2004, are designed to remove cost barriers that may inhibit companies from expediting their portal projects. The first offering, called webMethods Portal Quick Start, includes a license for an unlimited number of users and 80 hours of webMethods professional services for deployment at \$175,000 per project. The second offering is an introductory offering of webMethods Portal for \$25,000 per server, which represents a 50 percent savings. Both offers are available for North America pricing only.

www.webmethods.com

PINDAR SYSTEMS INTEGRATES CAPE CLEAR'S WEB SERVICES CAPABILITY

10/28/2003

Cape Clear Software announced that Pindar Systems is adding Web Services capability to Agility, its multi-channel content management platform. The addition of Web Services will enable Pindar Systems' customers to simplify the integration of their various sources of content with the Agility platform. The new Web Services functionality is being added through the Cape Clear Web Services platform. www.pindarsystems.com, www.capeclear.com

OPENLINK SOFTWARE DELIVERS VIRTUOSO 3.2

10/28/2003

OpenLink Software, Inc. announced Virtuoso Universal Server 3.2 the latest edition of its cross platform Virtual Database for SQL, XML, and Web Services. The new release builds on prior .NET CLR integration functionality across both the Microsoft and Mono variants of .NET CLR and associated Frameworks, on all Mono-supported platforms, including Microsoft Windows. Virtuoso 3.2 also includes new XML data types; SQLX-compliant SQL-to-XML functionality; XML for Analysis; Weblog Engine Services; and additional Web Services protocol stack implementations, such as WS-Security and WS-Routing. Virtuoso also provides access to heterogeneous data sources – Databases, XML and other documents, and Web Services through XML, XQuery, XPath, SQL, ODBC, JDBC, OLE DB, and ADO.NET. It integrates with .NET, Mono, and J2EE, enabling the creation and hosting of WSDL-compliant XML Web Services, Stored Procedures, Functions, Triggers, and User Defined Types, written in Java or any .NET bound language. Virtuoso 3.2 is now available. www.openlinksw.com

FACTIVA & VERITY PARTNER

10/28/2003

Factiva and Verity Inc. announced an agreement to integrate a set of Factiva's industry-specific taxonomies with Verity's intellectual capital management software, K2 Enterprise. In addition, customers can gain access to Factiva's collection of nearly 8,000 content sources. Factiva will offer its content and taxonomy expertise, including strategy and implementation adaptable to the specific needs and rules of an organization - for use with Verity's intellectual capital man-

agement solution, K2 Enterprise. Factiva will offer its general business taxonomy for companies, industries, regions and subjects, as well as its recently announced specialized pharmaceutical and healthcare taxonomy. Factiva Client Solutions, including its taxonomy specialists, will now be available to assist with Verity implementations. www.factiva.com, www.verity.com

ADOBE INCOPY CS AVAILABLE

10/28/2003

Adobe Systems Incorporated shipped Adobe InCopy CS, a full-version upgrade to the professional writing and editing program that integrates tightly with Adobe InDesign CS and the new Adobe Creative Suite. InCopy CS has a new editorial workflow technology that allows writers, editors, and designers to work simultaneously on the same InDesign CS document, InCopy CS streamlines editorial revision and review cycles, reducing the amount of time it takes to get a publication to press. Previously only available through systems integrators and third-party developers servicing large publishing enterprises, Adobe InCopy CS will now also be sold directly from the Adobe store. In-line notes and change tracking tools let editors review and collaborate more closely, while support for XML allows InCopy CS to integrate into cross-media publishing workflows. InCopy CS for Mac OS X version 10.2, Microsoft Windows 2000, and Windows XP is available in the United States and Canada for an estimated street price of US \$249 for all platforms. InCopy will also be available through Adobe-authorized system integrators.

www.adobe.com

ACTIVESTATE ANNOUNCES VISUAL XSLT 2.0 FOR STUDIO .NET 2003 & 'WHIDBEY'

10/28/2003

ActiveState announced the release of Visual XSLT 2.0. Visual XSLT now ships with ActiveState's debugger, enabling developers to test XSLT code embedded in other applications or libraries built for the Microsoft .NET Framework without the need for special instrumentation or access to source code. Also new, the Visual Schema Mapper allows programmers to build transformations of XML files in a drag-and-drop interface, without writing code or employing XML schemas. In addition, Visual XSLT will support Microsoft's next major version of Visual Studio .NET, code named "Whidbey". ActiveState Visual XSLT combines the familiar Microsoft Visual Studio .NET 2003 integrated development environment with XSLT-specific debugging and editing features and an interactive tool for building and testing XPath expressions. Visual XSLT licenses are \$295. The program is also offered as part of the ActiveState Open Source Language Suite for Microsoft Visual Studio .NET 2003 - a bundle of Visual Perl, Visual Python, and Visual XSLT-for \$495. Upgrades are \$99.95 for current users. www.ActiveState.com

FORMSCAPE ANNOUNCES FORMSCAPE V3

10/28/2003

FormScape announced the next generation of its document management product suite - FormScape V3, a single source for multi-channel document management and distribution capabilities. With enhancements including automated failover and logging for reliability, faster database performance for complex high-volume production systems, broader integration across systems, expanded XML support, and new user interfaces and objects, FormScape V3 delivers a lower total cost of ownership. FormScape V3 is sold exclusively through a network of more than 50 channel partners world wide. FormScape V3 is immediately available world wide.

www.formscape.com

OPENLY INFORMATICS PARTNERS WITH SIRSI

10/27/2003

Sirsi Corporation announced a technology partnership with Openly Informatics, Inc. Sirsi has selected Openly Informatics OpenURL linking technology as the core engine for Sirsi Resolver, Sirsi's solution for OpenURL resolution and linking. Offered as a standalone product and integrated with Sirsi Rooms Context Management Solutions, Sirsi Resolver can be configured to work with all of Sirsi's online products including iBistro, iLink, Web2, and the new Sirsi Single-Search. Using information provided by these searching tools, the Openly engine powers Sirsi Resolver to provide deep-linking access to full-text content for tens of thousands of journal articles and online services for books and all other bibliographic formats. www.openly.com, www.sirsi.com

HITACHI DATA SYSTEMS & IXOS PARTNER

10/27/2003

Hitachi Data Systems and IXOS Software AG announced a worldwide software development and distribution agreement. Hitachi Data Systems will provide IXOS' archiving and enterprise content management software to its customers and will integrate IXOS' products into Hitachi's storage management software suite. The first result of this relationship is Hitachi Data Systems' new e-mail archiving solutions, also introduced. Delivered by Hitachi Data Systems' Global Solutions Services division and powered by IXOS-eCONserver software, e-mail archiving is available in two versions: Message Archive for Compliance, and Message Archive for E-Mail. IXOS' software will provide Hitachi Data Systems with the ability to associate meta data with stored content, enabling content to be located and retrieved based on standard document attributes, regardless of location. These attributes can include creation date, author, recipient, subject or indexed terms in a document. www.hds.com, www.ixos.com

IBM SIMPLIFIES CONTENT MANAGEMENT SOFTWARE

10/22/2003

IBM announced new simplified, full-functioned content management systems designed for the mid-market customer, with support for major Linux platforms, tighter integration with IBM's software portfolio, and enhanced records management and information archiving capabilities. IBM DB2 Content Manager Express is available as of October 14, 2003. It is priced at \$9,375 per server and \$1,063.00 per concurrent user. IBM DB2 Content Manager for Linux is available as of October 21, 2003. It is priced at \$29,000 per Server and \$2,500 per concurrent user and is available for RedHat, SuSe, and United Linux. IBM DB2 Records Manager version 3 is available as of September 9, 2003, and is priced at \$24,000 per server and \$250 per concurrent user. Though optimized for Windows 2000, applications running on any platform can be enabled to run on the Records Manager. IBM DB2 CommonStore for SAP will be available on October 31, 2003. It is priced at \$29,000 per Server and \$244 per Named User. IBM DB2 CommonStore for Exchange Server and Lotus Domino will be available on October 31, 2003. It is priced at \$29,000 per Server, \$30 per Registered User and \$12,500 per Gateway. www.ibm.com/software/data/cm

GILBANE REPORT & EXGENEX FORM LIGHTHOUSE SEMINARS & LAUNCH CONTENT MANAGEMENT CONFERENCES

10/22/2003

The Gilbane Report has formed Lighthouse Seminars, LLC in partnership with Exgenex to expand its conference business. Lighthouse Seminars will develop targeted events focused on

content technology and industry trends, and will provide focused, content-rich and independent events that businesses are looking for by combining in-depth IT management discussions with best practices and case studies developed under the auspices of the Gilbane Content Technology Works initiative. Gilbane conferences produced by Lighthouse Seminars initially include: March 24 - 26, 2004 at the Westin Bonaventure in Los Angeles, focused technology and solutions for managing data-rich content, such as information associated with complex products found in aerospace and defense, and media-rich content, such as digital assets used in training, brand marketing, and media and entertainment applications; and October, 2004 in New York City, focused on content technology for financial service applications and marketing operations. The Gilbane Report will continue to work with existing conference partners, including Seybold Seminars, who produces the Gilbane Conference on Content Management at Seybold San Francisco, IDEAlliance, AIIM, and TechnoForum/Reed. www.lighthouseseminars.com, www.gilbane.com/CM_conference_LA_04.html, www.exgenex.com

FACTIVA SEARCH INTEGRATED INTO OFFICE 2003

10/21/2003

Factiva announced that Factiva's first solution for the Microsoft Office System, Factiva Search, is now commercially available. Factiva Search, integrated with the Microsoft Office 2003 Editions, provides information workers with quick and convenient ways to gain a comprehensive view of the external business environment from within their daily workflow. It allows information workers to conduct research on Factiva's collection of thousands of sources directly from a report or presentation they're creating. For example, while drafting a competitive brief in Microsoft Office Word 2003, competitive intelligence professionals can use Factiva Search to quickly look up important industry trends from newspapers, journals, and newswires from around the world and enhance the accuracy and timeliness of their research. Factiva's platform is based on XML and Web services and is integrated into the Research Task Pane of all the Microsoft Office System programs, including Word 2003, Excel 2003, Access 2003, Outlook 2003, OneNote 2003 and PowerPoint 2003. www.factiva.com/factivasearch

OPEN TEXT TO ACQUIRE IXOS

10/21/2003

Open Text Corporation and IXOS SOFTWARE AG announced that they have entered into a business combination agreement in which a wholly owned subsidiary of Open Text will acquire all of the issued and outstanding shares of IXOS. The transaction will proceed via a tender offer for cash consideration of either 9 Euro per share (approximately US\$10.46) or 0.2610 of an Open Text share for each share of IXOS tendered. The Open Text share will include a warrant to purchase 0.0742 of an Open Text share for up to one year after closing the transaction, with a strike price of US \$41.50 per share. The cash consideration represents a 34% premium based on the three months volume weighted average prior to the announcement. Open Text has approximately 1200 employees and had revenues of US\$178 million in the last fiscal year. IXOS has approximately 900 employees and revenues of US\$145 million in fiscal year 2002/2003. Open Text will be organized into two divisions. The North American-based division, with operational headquarters in Chicago, will have global responsibility for collaboration and knowledge management solutions as well as North American responsibility for operations. The European-based division, headquartered in Munich, will have global responsibility for content management and archiving as well as European responsibility for operations. Gauss Interprises AG, which was recently acquired by Open Text, will also be part of the European content management division. IXOS' CEO Robert Hoog will become head of the European organization for Open Text. www.opentext.com, www.ixos.de

FILENET RELEASES IMAGE SERVICES RESOURCE ADAPTER

10/21/2003

FileNet Corporation announced general availability of its FileNet Image Services Resource Adapter (ISRA), which provides connectivity from applications built on Sun Microsystems' J2EE to content managed within FileNet Image Services repositories. ISRA, compliant with and built to the J2EE 1.3/Java Connector Architecture (JCA) 1.0 specifications, provides a Java-based solution to address connectivity between application servers and legacy enterprise information systems. The solution is designed for industries that have large-scale integrated content management systems in place. ISRA offers a cost-effective way to repurpose this existing information in new ways as they begin to replace older client/server models with a kind of distributed computing in which a central server acts as an information hub. ISRA supports BEA WebLogic 8.1 and 7.0 SP2 and IBM WebSphere 4.0.4AE application servers and AIX 4.3.3 and above, HP/UX 11.0 and above, Windows 2000 and Sun Solaris 8.0 and above. www.filenet.com

SOFTWARE AG RELEASES ENTIREX XML GATEWAY

10/21/2003

Software AG, Inc. announced the availability of EntireX XML Gateway, which enables organizations to publish Adabas data using XML and Web services. EntireX XML Gateway harnesses XML technology to enable the generation and deployment of Web services that read or update data in Adabas. The product includes a browser-based administration tool that supports the deployment of the generated Web services, as well as an adapter that enables access to Adabas (adapters to other relational database management systems are available). EntireX XML Gateway is currently available on Windows 2000 and Windows XP, as well as Sun Solaris 7 and 8; additional platforms are planned. Access to Adabas is supported on all platforms. Supported application servers include JBoss, BEA Weblogic and IBM Websphere. In addition to the adapter to Adabas, EntireX XML Gateway is also available with adapters to Oracle, other relational database management systems, and EntireX Mediator. EntireX XML Gateway is priced at \$25,000 per adapter. www.softwareagusa.com

VERITY LAUNCHES JAPAN OPERATION

10/21/2003

Verity Inc. announced the establishment of Verity Japan K.K. in Tokyo. Verity named Digital Garage a premier distributor of Verity Ultraseek software, formerly known as Inktomi Enterprise Search (IES), in Japan earlier this year. Digital Garage first introduced the Ultraseek product to the Japanese market in 1997. Verity Japan K.K. is located at 15th Floor, Cerulean Tower, 26-1 Sakuragaoka-cho, Shibuya-ku, Tokyo, 150-8512, Japan. www.verity.com/japan/index.html

VENETICA ANNOUNCES CONTENT BRIDGE FOR FILENET ISRA

10/21/2003

Venetica announced availability of Content Bridge for FileNet ISRA to allow organizations to access FileNet Image Services through VeniceBridge in a pure UNIX environment. The Content Bridge for FileNet ISRA is an alternative for those customers who do not want to deploy a Windows server in order to access FileNet Image Services content. www.venetica.com

COREL & ORACLE PARTNER ON XML DATABASE CONTENT

10/20/2003

Corel Corporation announced that it has teamed with Oracle Corp. to build and deliver a solution to enable the creation, storage and delivery of XML content and SVG Smart Graphic applications. The solution integrates the Oracle Database 10g with Corel's XML tools, Corel XMetaL and Corel Smart Graphics Studio. Corel XMetaL and Corel Smart Graphics Studio work together with the XML DB functionality in Oracle Database 10g to provide intelligent user interfaces for rich structured documents such as product documentation, financial reports, technical manuals and government legislation and regulation. www.corel.com

CAMBRIDGE DOCS ANNOUNCES XDOC CONTENT TRANSFORMATION SERVER

10/20/2003

CambridgeDocs announced the xDoc Content Transformation Server (xCTS). CambridgeDocs' xCTS combines the xDoc Conversion Server with the PDF-XML Publishing Server in an end-to-end solution for easy and automatic re-use of existing content. Inbound, the xDoc Conversion Server transforms documents from PDF, HTML, Microsoft Excel, Microsoft Word, WordPerfect, into meaningful and well-structured XML. The transformation retains the "look and feel" of the document including layout, graphics, and textual content. Outbound, the PDF-XML Publishing server, customizes the transformed content with new layouts, styles or dynamic content from existing data-sources, and generates print-ready PDFs, MS Word documents or HTML files. The xCTS XSLT, and XSL:FO. It can also use any XML-schema or DTD as the target or source for transformation. The xCTS works with J2EE application servers, such as TomCat, EAServer, as well as with Microsoft IIS based applications. The xCTS is available immediately and pricing starts at \$15,000 per server.

XYTHOS ANNOUNCES RECORDS MANAGEMENT & SCANNING SOLUTIONS

10/20/2003

Xythos Software announced the introduction of two new software products specifically designed to help organizations respond to federal and state regulations requiring improved information compliance capabilities. Both new products work with the company's line of WebFile Server software. The new Xythos WebFile Records Manager (WRM) software has been specifically designed to ease the cost of compliance with regulations such as HIPAA, Sarbanes Oxley, FDA 21 CFR Part 11, and a variety of state level information access regulations. The WRM allows users to dynamically create and manage physical and electronic documents in the same system, develop uniform retention schedules and is 100% WebDAV compatible. The company's new WebFile Scan Manager (WSM) software helps automate the process of adding physical documents and records into the WebFile Server simplifying the process of developing comprehensive multi media compliance solutions. www.xythos.com

MOBIUS EARNS IVIEW CERTIFICATION FOR SAP ENTERPRISE PORTAL

10/20/2003

Mobius Management Systems, Inc. announced that the Mobius ViewDirect Connectivity Business Package has received iView certification for SAP Enterprise Portal 5.0. The ViewDirect iView is a component of ViewDirect TCM, a software suite for content management. When integrated directly into an SAP user's enterprise portal, the ViewDirect iView provides authorized users with easy access to enterprise content. The ViewDirect iView is integrated with the ViewDirect TCM repository and other business systems to enable enterprise employees, customers, and business partners to search, view, download, and print documents, reports, and images in any format

without logging on to a separate application and without leaving the enterprise portal environment. ViewDirect TCM includes an SAP-certified interface to SAP R/3 ArchiveLink that supports all major SAP R/3 archiving scenarios. ViewDirect TCM provides archiving and output management services for the SAP R/3 environment, integrating SAP and non-SAP documents in a single repository and providing flexible viewing options both within SAP and with ViewDirect TCM viewing clients. www.mobius.com

INTERWOVEN & SBI LAUNCH BRAND PORTAL SOLUTION

10/20/2003

Interwoven, Inc. and SBI and Company (SBI) announced the availability of a Brand Portal Solution designed to help enterprises build, manage and steward their brands. Developed jointly, the Brand Portal Solution combines Interwoven MediaBin Asset Server software with SBI's expertise in brand strategy and technology implementation consulting. The Brand Portal Solution is a single place for brand managers and their constituencies, such as marketing and advertising agencies, distributors and channel partners, to build, leverage and distribute brand assets. The solution provides marketing departments of all sizes the ability to control the marketing content development, management, and distribution process. The Interwoven Brand Portal Solution integrates with portal applications from BEA, IBM, Microsoft, Oracle, Plumtree and SAP via Interwoven's service-oriented architecture, a Web service-enabled, next generation interface to all Interwoven services. Interwoven Brand Portal Solution can be purchased from Interwoven today. www.sbiandcompany.com, www.interwoven.com

FILENET & MICROSOFT TO DELIVER FILENET ECM SOLUTIONS ON .NET

10/20/2003

FileNet Corporation and Microsoft Corp. announced plans to implement a series of new development, sales and global marketing initiatives to provide customers with optimized FileNet enterprise content management (ECM) solutions that are built on Microsoft .NET. As part of the alliance, FileNet will work closely with Microsoft to broaden FileNet's support for .NET by extending its use of Visual Studio .NET and enhancing its product offerings to include the .NET Framework, the Microsoft Office System, smart client technology and XML Web services. In addition, Microsoft and FileNet will collaborate on a plan for FileNet to adopt new technologies including SharePoint Portal Server 2003 and the upcoming version of SQL Server, code-named "Yukon." In addition, the two companies will collaborate to bring these offering to customers through a series of joint marketing and sales campaigns, aligned with Microsoft's go-to-market programs and vertical industry initiatives. www.filenet.com, www.microsoft.com

IBM & ADOBE JOIN FORCES TO DELIVER ENTERPRISE DOCUMENT SERVICES

10/20/2003

Adobe Systems Incorporated and IBM announced that the two companies have signed an agreement to develop solutions to help customers improve data capture, document generation and delivery across the enterprise, by creating intelligent, digital document processes. As part of the expanded agreement, the two companies will further integrate technologies across IBM's portfolio of software offerings, beginning with IBM's DB2 Content Manager and DB2 CommonStore for SAP, and moving to integration with IBM's WebSphere and Tivoli software brands. The first phase of IBM and Adobe's software agreement has been the integration IBM DB2 Content Manager with Adobe Form Server, Form Designer and Reader, allowing forms to be created, managed and processed within DB2 Content Manager environments. The joint solution will integrate capabilities for intelligent Web-based forms giving organizations and governments the ability to automate their existing paper-based processes. www.ibm.com, www.adobe.com

FILENET ANNOUNCES FILENET RECORDS MANAGER

10/16/2003

FileNet Corporation announced the introduction of FileNet Records Manager, a new records management suite that is designed to offer comprehensive lifecycle management of records from creation to disposition. FileNet's Records Manager will be based on a single, integrated, scalable repository featuring the ability to create and manage file plans, retention schedules, and security. It also offers reporting and auditing tools to enable organizations to meet any number of regulatory reporting requirements. FileNet Records Manager is designed as a tightly integrated solution within the FileNet P8 architecture. The FileNet Records Manager suite is designed to address specific needs around issues of complying with reporting provisions of the Sarbanes-Oxley Act and is designed to meet the U.S. Department of Defense's 5015.2 records management standards requirement, as well as the U.K.'s National Archives 2002 revised functional requirements. FileNet Records Manager is scheduled for availability during the second quarter of 2004. www.filenet.com

OPEN TEXT RELEASES LIVELINK CADMANAGER

10/16/2003

Open Text Corporation announced the availability of Livelink CADManager which gives architects and engineers a system for managing large volumes of interrelated CAD drawings for major design projects. The new product provides an integration between Livelink and CAD applications from Autodesk, Inc. Livelink CADManager supports Autodesk's AutoCAD 2000i, AutoCAD 2002 and AutoCAD 2004. With Livelink CADManager, Livelink becomes a knowledge management repository for design projects, serving as a central point for managing all working drawings, as well as data about drawings and their relationships. Livelink CADManager gives users an easy-to-browse directory structure, the ability to apply detailed metadata to drawings, advanced search capabilities, and check-in/check-out features to control drawing revisions. Access to Livelink is provided through a menu structure in AutoCAD. Open Text also plans to introduce Livelink CADManager modules for Autodesk Inventor 3D mechanical design software, Bentley Systems' MicroStation and SolidWorks. www.opentext.com

VIGNETTE ENHANCES BUSINESS PROCESS MANAGEMENT

10/15/2003

Vignette Corp. announced that it has delivered enhanced business process management capabilities in Vignette's content management, portal and integration products to support organizational compliance with regulations such as the Sarbanes-Oxley Act, HIPAA and Basel II. By deploying the Vignette V7 family of products, organizations can accelerate and enhance their compliance programs. With Vignette V7, organizations can enhance their ability to comply with regulations by streamlining the procedures that consolidate information from multiple internal sources, manage the security of that information, and analyze the effectiveness of their business processes. www.vignette.com

EMC TO ACQUIRE DOCUMENTUM

10/14/2003

EMC Corporation and Documentum, Inc. announced a definitive agreement for EMC to acquire Documentum in a stock transaction valued at approximately \$1.7 billion. Documentum stockholders will receive 2.175 shares of EMC common stock for each share of Documentum common stock. Based upon the EMC closing stock price of \$14.45 on October 13, 2003, the transaction is valued at approximately \$1.7 billion. The acquisition is subject to customary clos-

ing conditions and is expected to be completed in the first quarter of calendar year 2004. When completed, EMC expects to take a charge in the quarter the transaction is closed for the value of Documentum's in-process research and development costs and other integration expenses. Upon completion of the acquisition, EMC intends to operate Documentum as a software division of EMC headquartered in Pleasanton, California, led by Dave DeWalt, Documentum's current CEO. Documentum's sales, marketing and services will remain focused on selling and servicing Documentum's products and solutions. www.EMC.com, www.documentum.com

IBM TO ACQUIRE CROSSACCESS TECHNOLOGY

10/14/2003

IBM announced it has signed a definitive agreement to acquire the software assets of CrossAccess Corporation. The acquisition is expected to close later this month. Financial details were not disclosed. CrossAccess is a provider of infrastructure software that enables corporations to access information stored in mainframe databases and make it available for use with new business applications. The acquisition is meant to strengthen IBM's enterprise information integration capabilities, a key strategic priority for its Data Management efforts and the company's on demand computing initiatives. With CrossAccess technology integrated into DB2 Information Integrator software, IBM will be able to deliver a comprehensive enterprise information integration infrastructure. Once the acquisition is completed, IBM plans to integrate CrossAccess' software assets and personnel into the Data Management Software group, market and sell CrossAccess technology through the IBM sales force, and integrate CrossAccess technology into IBM's DB2 Information Integrator software. <http://www.software.ibm.com/data>

CONVERA & NEXIDIA PARTNER

10/14/2003

Convera and Nexidia announced a new partnership that will add phonetic audio search as an optional component to Convera's RetrievalWare search and categorization platform. Nexidia's technology embedded within Convera's search platform will ensure RetrievalWare can search audio and video the equivalent of 30 hours of audio information in less than one second. Nexidia's phonetic searching pinpoints spoken words in word or phrase formats by analyzing the phonetic content of indexed audio or video files based on the similarity of sound. RetrievalWare's new audio search feature will enable customers to search for spoken words without converting the audio to text through speech-to-text software or human transcription. Nexidia's technology adds high precision to RetrievalWare's phonetic search capability, identifying not just dictionary words, but also slang terms and code words. In addition to retrospective search, Convera will offer Nexidia technology for real-time monitoring of audio, matching capabilities already offered by Convera's Profiling feature for processing textual content. www.nexidia.com, www.convera.com

PERCUSSION SOFTWARE INTRODUCES LYRIX

10/14/2003

Percussion Software introduced its newest software product, Lyrix, a content integration solution for the reuse of Domino content in other enterprise applications. Lyrix is targeted at users of Lotus Domino that are deciding between co-existence and migration for each of their Domino applications. Built on a Web services architecture, Lyrix provides organizations with a range of options allowing them to choose the right future for each of their Domino applications. For each application, Lyrix enables organizations to choose co-existence with Domino by continuing to create content in existing applications while simultaneously reusing the content in other applications, or migration of Domino content to other applications systematically. In addition, if

selecting to migrate, Lyrix does not force a migration of all content into a new central repository. Lyrix automatically transforms all unique Domino attributes into standard XML and XHTML, and also maintains content relationships. Pricing for the Lyrix Starter Package is \$34,000 (USD). Lyrix is available now for immediate delivery. www.percussion.com

STELLENT ANNOUNCES DATA TRANSFORMATION WEB SERVICE

10/14/2003

Stellent, Inc.'s Content Components Division announced the release of the Outside In Transformation Suite, bringing together established data transformation components into a new server architecture accessible as a Web service. The Outside In solution converts native files to XML, HTML, wireless or image formats, enabling access to information stored in more than 250 proprietary file formats from a broad range of devices, such as desktop computers, browsers and wireless devices. The components of the suite include Outside In HTML Export, XML Export, Image Export and Wireless Export. The server architecture features automatic fault protection, support for multiple simultaneous transformation processes and an extensible architecture that provides third-party transformations with the benefits of process isolation and a single client API. The Web services SOAP interface is provided in addition to existing C and Java APIs. www.stellent.com

W3C PUBLISHES XFORMS 1.0 AS RECOMMENDATION

10/14/2003

The World Wide Web Consortium (W3C) announced the release of the XForms 1.0 Recommendation. XForms 1.0 is the foundation for next-generation Web-based forms, combining the ability to separate purpose, presentation, and results with XML. In contrast to HTML forms, in which functional and presentation markup are intertwined, XForms lets forms authors distinguish the descriptions of the purpose of the form; the presentation of the form, and how the results (the instance data) are written in XML. By splitting traditional HTML forms into three parts—XForms model, instance data, and the XForms user interface—XForms separates presentation from content. This separation allows for reuse, device independence, and accessibility. Practically speaking, XForms technologies make it possible to deliver the same form to a PDA, a cell phone, screen reader or conventional desktop machine—without loss of functionality for the end user. XForms, while initially designed to be integrated into XHTML, may be adopted by any suitable markup language, such as Scalable Vector Graphics (SVG). XForms uses XML Events, another W3C technology, to define XML-based declarative event handlers that cover common use cases, so that the majority of XForms documents can be statically analyzed. The XForms Working Group includes W3C Members and invited experts from Adobe; CWI; Cardiff; Helsinki University of Technology; IBM; Mozquito Technologies; Novell; Oracle Corporation; Origo Services; PureEdge; SAP; Sun Microsystems; and x-port.net Ltd. www.w3.org

ENTOPIA INTRODUCES ENTERPRISE SOCIAL NETWORKS ANALYSIS FOR K-BUS

10/14/2003

Entopia, Inc. unveiled Entopia Enterprise Social Networks Analysis, a diagnostic tool that enables managers to optimize information flow. By combining Entopia's dynamic expertise location with its visualization techniques, Entopia's latest application identifies the social networks within the enterprise related to a specific topic. These "people maps" illustrate the subject matter experts, information bottlenecks and disconnected communities with an enterprise. Entopia Social Networks Analysis is a solution built upon Entopia K-Bus, its enterprise knowledge infrastructure technology. Entopia Enterprise Social Networks Analysis harnesses the existing content in, and user activity around, various enterprise-wide repositories for use by the human resources, sales, mergers and acquisitions, compliance and customer support teams to identify experts, build

teams, improve communication, identify displacement problems and avoid work duplication. Entopia Enterprise Social Networks Analysis software is currently in beta testing. www.entopia.com

TOPOLOGI UPDATES ITS COLLABORATIVE MARKUP EDITOR

10/13/2003

Topologi announces the 1.1.6 release of its Collaborative Markup Editor. Along with several interface improvements for both Windows, Linux and Mac OS X, Topologi announced new support for very large file handling. From original conception, Topologi has committed the Collaborative Markup Editor to addressing the needs of SGML and XML publishing production environments. However, feedback to date has been that working with 8-10 megabyte files is still not enough for many users. The editor's core has been extensively reworked in version 1.1.6. Using memory profiling techniques, users can make final edits to million-line (50 megabyte) files without performance problems. Other improvements in this release include improved interactive diagnostics of markup syntax errors, support for Java 1.4.2 features such as mouse wheels and improved file chooser, Schematron 1.1.6 compliance, allowing better datatyping, improved support for RTF import of foreign languages including Chinese, built-in hex and image previewer, and faster load times. The Topologi Collaborative Markup Editor is available as a 30 day evaluation download or as a licensed purchase for US\$60 at www.topologi.com

PLUMTREE TO OFFER J2EE VERSION OF PORTAL SOFTWARE

10/13/2003

Plumtree Software unveiled plans to offer a J2EE version of its portal software by the middle of 2004, designed to run with Java application servers hosted on UNIX, and later, Linux. Plumtree plans to continue developing the .NET version of its portal alongside this new J2EE version. The 5.0J version of the portal software is expected to have the same features, functionality and server architecture as the 5.0 Windows product but will have a re-designed Java kernel, and will use many J2EE components and specifications including JDBC for access to multiple databases, JMX for management and monitoring of the portal server, JNDI for naming and directory services, and JNI for JVM communication. In addition, both J2EE and .NET versions of the portal are designed to support the new Java portlet standard JSR 168. The 5.0J portal design draws on the J2EE application server, but uses the same HTTP-based Web Services Architecture as the Windows portal for communicating with other systems and the same parallel processing technology for communicating with a large number of Web services simultaneously. Plumtree plans to test application and Web servers including Apache Tomcat, BEA WebLogic, IBM WebSphere and Sun Java System Application Server, running on Sun Solaris and IBM AIX operating systems. Plumtree currently plans to offer Linux support later in 2004. www.plumtree.com

MICROSOFT EXPANDS CONTENT MANAGEMENT SERVER OFFERINGS

10/9/2003

Microsoft Corp. announced plans to offer new versions of Content Management Server (CMS) 2002, including a Standard Edition (SE) for medium-sized businesses and an enhanced CMS 2002 Enterprise Edition (EE) that provides compatibility with Windows Server 2003 and is localized into three new languages. In addition, Microsoft will be updating the content integration pack for enterprises looking to integrate CMS 2002 with the newly released Microsoft Office SharePoint Portal Server 2003. The new features in the Content Management Server 2002 Connector for SharePoint Technologies include the abilities to publish CMS content directly from SharePoint Portal Server 2003 and to integrate document libraries. A beta version of the Microsoft Content Management Server 2002 Connector for SharePoint Technologies is available today at <http://www.betaplace.com/>; the final version will be released by the end of 2003.

Pricing for CMS SE will start at \$6,999 ERP per CPU. It will be limited to 15 content contributors and also will offer a Microsoft Content Management Server 2002 Connector for SharePoint Technologies. Future versions of Content Management Server 2002 Enterprise Edition and Standard Edition will support French, Japanese and German. www.microsoft.com

EQUILIBRIUM LAUNCHES MEDIARICH SERVER FOR SHAREPOINT PORTAL SERVER 2003

10/9/2003

Equilibrium announced the availability of Equilibrium MediaRich Server for Microsoft Office SharePoint Portal Server 2003 as a digital asset management (DAM) solution for mid-sized to enterprise corporations using Microsoft Office 2003. The new version extends Microsoft Office 2003's collaborative experience with brand management and image automation. The resulting DAM solution allows corporations to maintain revision control for a single high-quality asset, create derivatives on demand, and deliver consistent brand assets for the Web, print, wireless and Microsoft Office 2003 applications. Equilibrium MediaRich Server for SharePoint Portal Server 2003 provides previews of CMYK images, vector images, and layered Photoshop files along with related metadata, and reads and writes BMP, WBMP, GIF, JPG, PNG, PCT, TIFF, PDF, TGA, Adobe Illustrator and Photoshop PSD or EPS files with accurate ICC color profiles. Equilibrium MediaRich Server for SharePoint Portal Server 2003 (beta) is now available. Companies may download a 15-day evaluation of Equilibrium MediaRich for SharePoint Products and Technologies at www.equilibrium.com.

ANTENNA HOUSE UPDATES XSL PROCESSOR

10/8/2003

Antenna House, Inc announced their XSL-FO processor [XSL Formatter V3.0] is now available. XSL Formatter is a software to format XML documents for production-quality printing and output to PDF. Some of the key features of V3.0 as compared to V2.X are: V3.0 is significantly faster than XSL Formatter V2.X, V3.0 has newly developed SVG support to retain the vector information for the output module thus meeting the increasing demands for SVG delivery and viewing, and the V3.0 formatting engine has been developed from scratch to be able to format "any" size of document. This overcomes the V2.X limitation of approximately 4,000 pages in a single document. V3.0 is able to format about 10 times as much as V2.X. System Requirements: Windows NT4.0/2000/XP/Server2003, or Sun Solaris 8, 9 (Sparc version), or RedHat Linux 8.0 or later, SuSE Linux 8.1 (libstdc++.so.5 required). www.antennahouse.com

EKTRON UPDATES EWEBEDITPRO+XML & EWEBEDITPRO

10/7/2003

Ektron announced version 4.0 of Ektron eWebEditPro+XML and eWebEditPro. Version 4.0 includes a new Design Mode feature which automates the manual step of creating XML structure and supporting documents, including XSLTs and schemas. eWebEditPro+XML's new Design Mode builds an abstraction layer that hides the complexities of XSLTs and schemas. Developers can give non-technical users this tool to create environments for data input and validation. Using a new Drag and Drop toolbar, the user creates a Web page that resembles a form. With the tool, the user can position elements to define and design the layout of XML data, and use simple dialogs to define criteria for data validity. Additional new features in both Ektron eWebEditPro+XML and eWebEditPro Version 4.0 include enhanced form field editing (for standard HTML page editing) and support for Ektron WebImageFX, a browser-based image editors. Pricing starts at \$299 for 10 users, with enterprise pricing available. www.ektron.com

TRIPLEHOP ANNOUNCES MATCHPOINT 3.0

10/6/2003

TripleHop Technologies announced MatchPoint 3.0, its new enterprise contextual search software. MatchPoint 3.0 combines statistical and semantic analysis to give users increased sensitivity to the context of their query including the user profile and existing enterprise knowledge. MatchPoint 3.0 enhances the sensitivity of a query as it factors in the context of the search. MatchPoint automatically generates a contextual thesaurus as it crawls and indexes enterprise documents, and uses this thesaurus to disambiguate and expand the user query based on existing enterprise knowledge, the user profile and the customer's work process. MatchPoint's index architecture gives users immediate access to new documents. The product uses a distributed architecture to create as many "Search Services" as necessary. Each Search Service can have several indexes and each index can be partitioned. User queries are launched into multiple indexes and sub-indexes, and the results are merged through the MatchPoint Federator. This distributed architecture helps handle terabytes of data without substantially degrading response time. www.triplehop.com

OPENPAGES ANNOUNCES SARBANES-OXLEY EXPRESS 2.0

10/6/2003

OpenPages introduced Sarbanes-Oxley Express 2.0 a framework that supports companies' corporate governance strategies. SOX 2.0, a Web-based suite of enterprise applications, addresses both the specifics of Sections 404 and 302 of the Sarbanes-Oxley Act, as well as ongoing modifications and additions proposed by the SEC and other regulatory organizations. Version 2.0 extends SOX with enhancements that address Section 302, which requires officers to sign statements verifying the completeness and accuracy of financial statements. Specifically, 2.0 includes a fully articulated Survey capability. Sarbanes-Oxley Express 2.0 is built on the Committee of Sponsoring Organizations of the Treadway Commission (COSO) framework, and runs on top of the OpenPages 4.0 Enterprise Edition OP4 Platform. The OP4, a J2EE-compliant environment, combines a set of services, including document and content management, collaborative and automated workflows, and multi-channel publishing. www.OpenPages.com

EMC INTERNATIONAL TO RESELL ARBORTEXT IN LATIN AMERICA

10/6/2003

Arbortext announced it has entered into a Reseller Agreement with EMC International Group (EMC) to provide sales and support for customers in Latin America. EMC is Arbortext's first reseller for this region and has offices in Chile, Brazil, Colombia and Mexico. www.emcintl.com, www.arbortext.com

INTERWOVEN TEAMSITE CONTENT SERVER 6.0 & WEB SERVICES KIT NOW AVAILABLE

10/6/2003

Interwoven, Inc. announced the general availability of its TeamSite 6.0 Content Server software. This announcement follows the official launch of the product in July of this year. The new release of Interwoven's core content management offering extends content management access to all business users and enables them to maintain control and distributed ownership of content across the enterprise. Also launched in July and shipping today is Interwoven ContentServices SDK 2.0, a Web Services-based toolkit that provides access to 160 content management services such as task management, workflow, user access, project configuration, and versioning from J2EE and .NET applications. www.interwoven.com

DOCUMENTUM ANNOUNCES LINUX SUPPORT FOR DOCUMENTUM 5

10/6/2003

Documentum announced that it plans to offer support for Red Hat Enterprise Linux with Documentum 5, the latest version of the company's ECM platform. Documentum has joined the Red Hat Advanced Software Partner program to support its Linux development and support efforts. Documentum's support for Red Hat Enterprise Linux will be made in a phased-approach, with Web application support available later this year. www.redhat.com, www.documentum.com

KINEMATIK & OPEN TEXT PARTNER

10/6/2003

KineMatik, a provider of enterprise Collaborative eR&D (CeR&D) solutions, and Open Text Corporation said they would provide their integrated software solutions to Irish biotechnology research institutions to help scientists manage information and collaborate on research projects. KineMatik and Open Text will donate licenses of their software to two Centers for Science, Engineering & Technology (CSETs) in Ireland. The centers include the Alimentary Pharmabiotic Centre at University College Cork, in Cork, Ireland, where scientists will be conducting research into drug treatment and pharmaceutical products whose applications can include treatments for Crohn's disease, and the Royal College of Surgeons' National Center for Human Proteomics in Dublin, where researchers will study technologies and proteins that can successfully treat diseases of the heart. KineMatik's eNovator is integrated with Open Text's Livelink product. www.kinematik.com, www.opentext.com

CAMBRIDGE DOCS ANNOUNCES XDOC XML CONVERTER 1.7

10/1/2003

CambridgeDocs announced the xDoc Converter 1.7, an update to its xDoc Converter product. The xDoc Converter is a tool for migrating unstructured content from Microsoft Word, HTML, and Adobe PDF documents into any XML schema (XSD) or DTD for improved searching and indexing across the enterprise. The new release includes the Microsoft Excel Driver, which can be used to transform Microsoft Excel 97, 2000, and XP spreadsheets into XML. xDocs modular architecture enables the Microsoft Excel driver to produce ppXML, which can be then be further transformed into HTML, XSL:FO, PDF, or Microsoft RTF. "Visual Rules By Example", which allows an end user to "highlight" a phrase or some text in a visually rendered version of the original document is also in the new version. The ability to convert XML and XSL:FO into Microsoft's Rich Text Format is also in this release. This capability makes it possible, for example, to convert a PDF file into XML and then convert the XML into RTF for editing and opening within Microsoft Word. www.cambridgedocs.com

NETWORK ASSOCIATES DELIVERS MCAFEE PORTALSHIELD FOR SHAREPOINT PORTAL SERVER

10/1/2003

Network Associates, Inc. announced the availability of McAfee PortalShield 1.0 for Microsoft Office SharePoint Portal Server. McAfee PortalShield offers virus protection for Microsoft SharePoint Portal Server 2001, 2003 and Microsoft Windows SharePoint Services. McAfee PortalShield is integrated with McAfee ePolicy Orchestrator (ePO) for policy management and enforcement, enterprise-wide visibility, rapid software deployment and distribution of the latest virus definitions. Each time a document is written to or read from the document libraries, the McAfee PortalShield software scans the content and compares it with a list of known viruses

and suspected virus-like behavior. McAfee PortalShield also scans for content within the document or Webpart using the rules and policies defined within the McAfee PortalShield software. Lexical and content management capabilities enable McAfee PortalShield to apply these rules and policies to over 280 document types such as Acrobat Reader and Microsoft Word. Using McAfee PortalShield rules, document download and upload actions can be prevented, and alerts sent to the administrator if the documents contain banned content. McAfee PortalShield is currently available through Network Associates channel partners and its direct sales force. www.networkassociates.com

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Our Los Angeles event this year will look closely at technology and solutions for managing two types of rich content: *data rich content*, for example, information associated with complex products found in aerospace and defense, electronics, pharmaceutical and biotech, *etc.*, and *media rich content*, such as digital assets used in training, brand marketing, and media applications.

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