

THE GILBANE REPORT™

Content, Computing, and Commerce – Technology & Trends

CONTENT MANAGEMENT STRATEGIES: INTEGRATING SEARCH

Given how much most of us depend on search technology it is surprising that so many enterprises lack a coherent strategy for ensuring search technology is meeting the needs of their constituents. In fact, most organizations would be hard-pressed to even list all of the search technologies they have deployed. This is largely due to the incorporation of search functionality in the multiple enterprise applications, especially content management and portal solutions, companies have in place. But the multiplicity of technologies and varied range of capabilities is precisely why businesses need to pay attention – this is one of those cases where ‘more’ does not equate to ‘better’, but only to ‘more confusion’, and probably ‘more cost.’

Search technology is usually considered a critical component of a content management or portal initiative. But there are many subtle issues concerning how search functionality should be integrated within a content management system or portal, as well as how it should be integrated across applications. There are technical, user-interface, and licensing issues that need to be analyzed. This month Kathleen Reidy returns with a look at different approaches to integrating search and content management products, and provides some valuable advice on what to watch for. If you are in the process of starting, or revamping a content management or portal project her article will save you frustration, if not money.

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CONTENT MANAGEMENT STRATEGIES: INTEGRATING SEARCH

Managing content is largely about making it easier for users to access and find the information they need. Yet too often search is an afterthought in a content management project. It may be one of a long list of features provided by a CMS vendor – or the CMS may not provide it as a feature at all, leaving the customer to determine how best to provide users the ability to search content. Search, along with an effective and tightly coupled browsing mechanism, are the primary paths that site users take to find content. This is why understanding the implications of integrating search functionality into a content management initiative is critical. A useful and accurate search engine should be a desired outcome of a successful content management project.

There are as many variations in how search can be applied to information as there are search and content management products on the market. Some systems build search functionality tightly into core features, making it seamless to users – and often inaccessible to other systems. Others focus only on creating and delivering content and do not address the search issue at all. This often leaves organizations with a wide variety of search technologies at play within one environment with multiple search interfaces confronting the user.

As organizations grapple with implementing content management systems specifically, it is critical that the way in which this content will be made available for searching is considered. It is also important to think about how the search functionality applied to a CMS will be integrated – or not—with existing search engines already at work within the organization. Many organizations today are standardizing on content management products to help centralize the management, publishing, categorization, and security functions that they provide. Similarly, organizations are looking at search infrastructures that will be able to meet the needs of a wide number of users who access all types of content. This may mean a centralized search and indexing service that can integrate with the content management system as well as other data and information stores within the organization.

This article looks at search in the broadest sense. Most search products today rely on a full-text index of content. All kinds of value-added services and technologies can be layered on top of this index to cluster like documents, automatically expand queries, intelligently pinpoint specific answers – the list goes on. The many flavors of search technology as nicely sampled by Sebastian Holst in the Gilbane Report article *Searching for Value in Search Technology (Vol. 10, No. 7)*. In this article we'll look more generally at how search engines – regardless of the sophisticated retrieval features they may or may not offer – can be integrated with managed content as well as other disparate content that resides within the organization.

THE IDEAL SOLUTION

There are many considerations to keep in mind when looking at the ways in which a search engine can integrate with a CMS. The requirements in each organization are different as the content sources vary and users have different

needs. For this reason, saying there is an 'ideal solution' is hyperbole, but this article is intended to provide a framework for thinking about the often complex issues that arise when synchronizing a search engine with a CMS, and other information sources in the enterprise.

An ideal coupling of a search engine and a CMS will result in:

- A full-featured search engine that can access content – structured and unstructured – originating from many sources and systems.
- A search engine that is able to search the full-text of documents as well as any metadata associated with those documents regardless of where that data is stored (i.e., on the document or not).
- Search results that are secure at the document-level without the need to duplicate access control information in multiple stores.
- Content available for searching as soon as it is published.
- Unpublished content also available via search to those CMS users who are privileged to access it.

Figure 1 identifies some of the technologies and integration points that come into play in addressing the above issues.

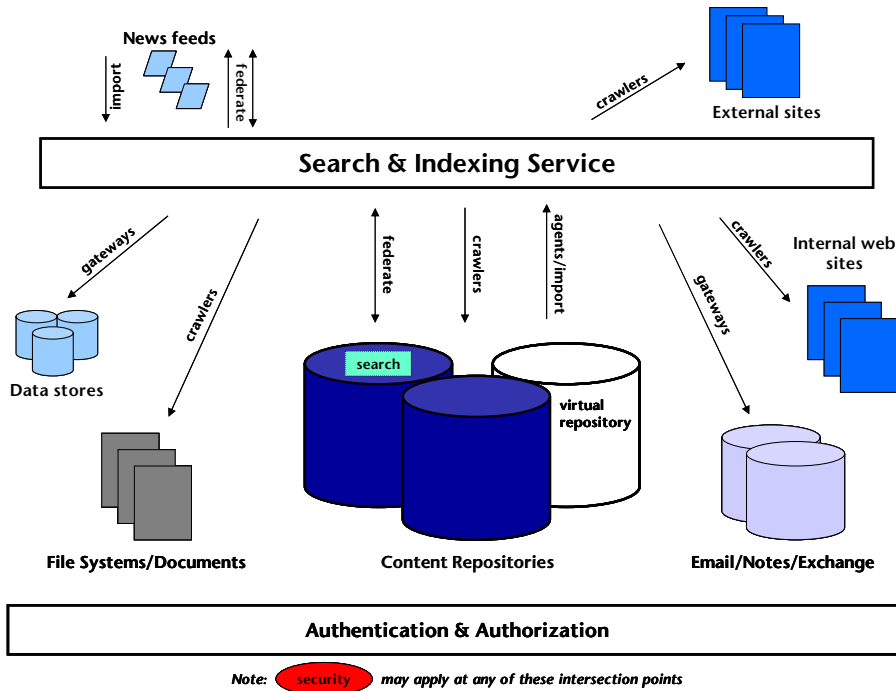


Figure 1.

There are a number of issues identified in the above graphic. The intent is to show the possible technologies that might be used, not to say that all of these are required in each solution. For example, to search an external news feed, it may make sense to federate results if that feed maintains its own search engine, import its data to the search index (which may cause size concerns), or to crawl

some version of the feed that is available in-house or made available by the news feed provider. One of these is likely to be the chosen solution, not all.

Looking specifically at the integration points with a CMS, let's identify some of the key components articulated above:

- A central search engine is able to provide indexing and search services for content that is coming from one CMS, multiple content management systems, content that is not currently managed by a CMS, external content, structured data and email, or other collaboration stores. This service provides all the search features that users expect (Boolean, fuzzy search, parametric search *etc.*). It may also include auto-classify or clustering features.
- This index is created and maintained using a number of technologies based on the type of content or data, its location, its security, and the frequency with which it changes.
 - Most search engines today are still built upon a crawler-based architecture. This means the search engine is able to crawl a wide variety of document types to build a full-text index of these documents. Crawlers can typically be scheduled and can run incrementally so that only new content is added to the index. Crawling pages that have been published by a CMS and thus pushed to a web server is probably the most common integration point, though in cases where the search engine is tightly linked with the repository and all content is stored there, crawling of published pages may not be necessary.
 - Crawlers must be supplemented by import features. This allows data to be loaded directly into the index. In cases where the search engine has no direct access to a repository (and so no access to content that is not published), import features allow the system to send its data to the index and synchronize it with any data that the search engine already has about a particular piece of content. This can be the most effective way to ensure metadata that and content that are stored separately are included together in the search engine's index.
 - Both crawlers and importing features may need to be triggered by agents. Agents can alert the search engine when there is new content available. So, for example, the CMS may notify the search engine that a piece of content has been published. This will tell the search engine to crawl that content and it may also initiate the importing of the metadata about that document to the search engine.
 - As many systems include their own search engines, federated search capabilities can often be the most straightforward way of providing users with a unified search across multiple sources. Federated search allows one search engine to query and retrieve results from another, filter and de-duplicate results, and deliver one coherent set of results to the searcher. It's important that the federation features be cross-product and cross-vendor.

-
- Many content management systems today promote the idea of a 'virtual repository' where the CMS is managing just the meta-data about a piece of content and that piece of content remains in its original location. This concept is amenable to multi-repository search requirements and can enhance the integration of the two technologies. However, it is important to ensure that a) the search engine can access the source document and b) the metadata stored by the CMS is synced with the full-text information the search engine has gathered.

SECURITY

Security has long been, and continues to be, a sticky situation with search and is such a big issue it deserves more lengthy coverage. In the past, organizations often chose to only index publicly available documents so as to avoid the security issue altogether. This is not a viable solution for many organizations as they move towards centralizing content management and search services. Ensuring that search results are secure is an increasingly important concern and one that has several possible and partial solutions.

To be secure, search results need to be filtered so that the results page only shows links for documents to which that user has access. This means the index must understand who the user is and what she can see. Showing all results and leaving authentication to the source repository so that a user is challenged *after* he clicks on a search result link is not sufficient. Users may see private information in the search results page, even though they are not able to access the actual document when they click through the result link.

There are a number of ways that this secure results filtering can be accomplished. The search engine can store access control information associated with each record in its index. This provides a solution but can be a laborious process to set up and requires that information be stored in more than one location. Better are systems that can work from a centralized authentication scheme (like a Unix, MS, or LDAP login) to identify which sources a user can access – if you can't access Lotus Notes, the system will not even look at those results. This can be a fast way to solve one portion of the problem but doesn't address the more granular security issues within a particular system. To accomplish this, the search engine must be able to filter the search request through the authorization mechanism of the source system. This may slow the search results or may require further duplication of security data stored in the search engine.

Many organizations today are starting to move towards centralized policy or 'identity management' solutions that layer authorization, policy enforcement, and single sign-on on top of standard LDAP directories. As these identity management solutions are integrated with search engines, they may offer the most efficient way to provide secure search results without a lot of duplication, provided they are able to do so while maintaining adequate search engine speed. This is still an emerging concept however and not well advanced in most organizations. Figure 1 shows both a centralized authentication and authorization layer along with specific integrations that may need to be done to ensure the document-level security of content coming from specific systems.

APPROACHES TO INTEGRATING SEARCH & CMS PRODUCTS

Figure 1 clearly represents a complex environment and this complexity is why effectively integrating search technology with a CMS is not always a straightforward task. There are different approaches that an organization can take. Many CMS vendors today include search technology as a feature of their products and this represents the first possible approach. The other is to work with two stand-alone products for CMS and search engine technology.

CMS vendors clearly recognize the importance of effective search in making content management successful. This is certainly something for which customers consistently clamor. The scope and scale of this functionality can vary quite a bit product by product, depending on the origin of the search technology. Some CMS vendors have built it, others have bought it, and others OEM some version of a search engine from a search vendor such as Verity or Autonomy. For example, Documentum OEMs Verity, Vignette OEMs Autonomy, FatWire OEMs AltaVista, Autonomy, and Verity, Stellent OEMs Convera, and Interwoven resells iPhrase.

There are a number of potential benefits in taking this approach.

- The search engine may be tightly integrated and able to leverage CMS metadata.
- Tight integration could enable searching of published and unpublished content.
- The search engine may natively respect the access privileges managed by the CMS.
- No additional license / integration costs required.

These are only identified as potential benefits as the actual search features provided and the level of integration with the CMS can vary substantially. Similarly, depending on the specifics of the product and the integration, this solution may also have the following drawbacks.

- CMS (and other) vendors often OEM a search engine from a search engine vendor, as seen in Table 1. OEM versions of products can be limited both in terms of the features they provide and in terms of the level of integration that is available. An OEM product is not generally the full product that would be provided by the search vendor if purchased independently.
- The CMS product license (particularly if it is an OEM) may only include the ability to search content managed by that CMS – and perhaps may only be intended for system users accessing the repository, not site users searching published content.
- A CMS vendor's search may not be able to crawl other systems or repositories.
- The included search engine may not offer the most sophisticated or cutting edge search features that are available from independent search

vendors (the Gilbane Report article referenced above is a good source for more information on some of these advanced features).

Despite these potential pitfalls, using the search features provided by a CMS vendor, whether an OEM of another product or native product features is a common approach among customers today. This approach can solve the search problem for a particular site or set of sites that are running a CMS and are not looking to provide a unified search across multiple systems or sources. For organizations standardizing on a single CMS, this approach may also make more sense, provided the search engine is able to access other data or information types (like email) if required.

The other primary approach is to work with separate products from search and CMS vendors. Some well-known enterprise search vendors include Autonomy, Convera, Google, and Verity.

This is just a sampling of some of the more mainstream search engine vendors. There are many vendors offering new and different twists to help solve the search problem. See the Gilbane Report article *In Search of Search Solutions (Vol. 10, No.3)* for a more comprehensive list of these vendors.

It should be noted that even when a CMS vendor OEMs a particular search engine, most maintain relationships with the other leading search vendors as well. Customers can generally choose not to use an OEMed product and to go with another search product without too much difficulty.

Taking this “best-of-breed” approach offers a number of benefits.

- These search engines are content and system agnostic.
- They provide a centralized index that can be comprised from many content and data sources.
- Independent products are typically full-featured and sophisticated.
- For organizations with search engines already in place, it’s likely that one of these is already the enterprise search provider.

Yet to achieve the ‘ideal solution’ articulated above, a significant amount of integration work between the two systems would be likely. Without extensive integration work, the search engine may:

- not easily leverage CMS metadata.
- only crawl published pages from the CMS.
- not be able to search content as soon as it is published.
- require a lot of duplication of access privileges to secure search results.

Addressing these issues will require the use of a number of the technologies depicted in Figure 1: federation, agents, gateways, and import features. The specifics depend on the requirements, the available integration between the two products today, and the capabilities of those products.

This approach has the best chance of coming close to the ideal solution if the requisite integration work is well thought out and complete. With this in hand,

this approach can solve large enterprise-scale search needs to provide a central indexing service, along with tight CMS integration.

Where Do Portals Fit In?

The line between portals products and content management systems continues to blur, as we explored in a previous Gilbane Report article, *Portals & Content Management Systems: Have Two Markets Become One?* (Vol. 11, No. 4). Search has been a service portal products have provided since the early days. As with CMS vendors, this search functionality can have different origins and different capabilities. Table 1 looks at some portal vendors and the search capabilities they provide.

Vendor Name	Search Included?	Origin
BEA	Yes	OEM - Autonomy
IBM	Yes	Lotus
Oracle	Yes	Oracle
Plumtree	Yes	RipFire acquisition
Sun	Yes	Netscape

Table 1: Portal Vendors and Search Features

Adding portal technology to the CMS and search engine mix has the potential to both muddy the waters and to offer a solution. Integrating portal technology that also includes a search engine presents several potential benefits.

- CMS and portal vendors have done a lot of pre-integration work that is available to customers. Sometimes this includes search integration.
- Portals are increasingly addressing the need for centralized access control (or identity management) which may be leveraged by the portal, the search engine, and hopefully the CMS
- Portal search features will almost always be multi-repository.
- Search engine will be included in portal license.

However, portal products in many cases have similar relationships to search vendors as the CMS vendors do, so potential cons to this approach are also similar.

- Portals also often use OEM versions of other vendors' search products. These can have limited licenses, scope, and integration.
- A portal's search engine integration with a CMS may be no different than if the two products were purchased stand-alone; the search engine may not be in sync with the publishing process and may only be able to crawl published pages.

CONCLUSIONS & RECOMMENDATIONS

Knowing that a product “comes with search” or that “we already have a search engine” is never enough. Be sure that you understand the technology underlying the search engine, whether it is bundled in a CMS product or purchased stand-alone. Questions to consider are:

- Is it crawler-based only?
- Does it have import features?
- Can these be triggered by agents that understand when new content is available?
- Can it crawl structured repositories and email systems or just web pages and documents?

It is also important to understand the specifics of the CMS integration, if it is already available. Think about the following:

- Will metadata stored in the CMS be indexed by the search engine along with the document’s full text?
- Does the search do any auto-categorize and if so, how will this merge with existing, manually applied metadata?
- Will the search engine leverage CMS access controls or does this information have to be duplicated to provide secure search?
- Will authors and publishers use the same search to find in-process documents in the repository?

In cases where the CMS vendor does provide search, make sure you understand the search engine’s license structure.

- What features does an OEM search engine provide? How do these compare to full product available from the search vendor?
- Is it only licensed to search content managed by this CMS?
- What’s involved in extending the license? Is the CMS vendor authorized to resell additional licenses or does it require working directly with the search vendor?

Perhaps most important in beginning an initiative in this vein is to identify the search experts in-house and at the vendors you’re working with. Search is fairly specialized and the folks who understand intricately how it works or how it will integrate with the CMS may not be the same folks who typically sell or implement the CMS. Ask the really tough questions that don’t make sense to you and most likely they don’t make sense to the guy on the other side of the table either.

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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.

MEDIASURFACE RELEASES V4.7

9/30/2003

Mediasurface announced their latest release, Mediasurface 4.7. When creating or updating content using the CMC, Mediasurface's content contribution interface, the author can now request the generation of a summary of that content using the theme summarisation feature. Version 4.7 improves the management and monitoring of the Mediasurface Application Engine with introduction of a JMX compliant interface. Reporting on and managing a number of Mediasurface operational areas, including caches, logging and job scheduling. This release adds support for compound documents - content items that contain other content items, such as an article constructed of individual sections, which might be owned by different authors. Additionally, Mediasurface 4.7 allows authors of XML content to preview their documents through user-defined XSL templates. 4.7 offers a range of system based image manipulation capabilities, including the ability to resize, crop, reformat images within the Mediasurface application. www.mediasurface.com

SAP LAUNCHES NETWEAVER INITIATIVE; INCLUDES MERANT & TRIGO

9/30/2003

SAP AG announced the launch of the "Powered by SAP NetWeaver" initiative, a new program designed to empower SAP partners and ISVs with the SAP NetWeaver technology platform to build new business applications. The new program builds upon the SAP NetWeaver Partner Initiative. Initial participants in the "Powered by SAP NetWeaver" program include Merant, Metro, TimeVision, Trigo and Vertex. While traditionally SAP has certified companies for component interface compliance, this new program offers companies the entire platform for application development. Companies can achieve "Powered by SAP NetWeaver" status by offering third-party applications deployed by SAP Web Application Server of the SAP NetWeaver platform and accessible through SAP Enterprise Portal via pre-built iViews. Merant's Collage content management system and Trigo's Product Center are both "Powered by SAP NetWeaver." www.sap.com

VERSANT TO MERGE WITH POET

9/29/2003

Versant Corporation announced that it has signed a definitive agreement to merge with Poet Holdings, Inc. Poet shareholders will receive 1.4 shares of Versant Common Stock in exchange for one Poet share. Based on Versant's stock price as of close of market on September 26, 2003 the Versant stock to be issued to Poet shareholders would be worth approximately \$26 million and represents approximately 45% of the pro forma combined company's outstanding shares. Poet's Fast Objects object database complements Versant's VDS object database, which is used in high-performance large-scale real-time applications. The joint product line will offer customers the ability to manage XML and other types of hierarchical and navigational data. Versant also plans to target a broad range of applications that include data management, telecommunications, real-time integration, catalog information for supply-chain, and government and defense applications. www.versant.com, www.poet.com

ADOBE UNVEILS INTEGRATED SUITE

9/29/2003

Adobe Systems Incorporated unveiled the Adobe Creative Suite, a new product that combines full-version upgrades of Adobe Photoshop CS, Adobe Illustrator CS, Adobe InDesign CS, and Adobe GoLive CS, incorporates Acrobat 6.0 Professional, and introduces the Version Cue file version manager. With 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. Adobe GoLive CS offers a visual programming environment and supports CSS level-2 layout and authoring. A redesigned CSS editor helps create styles which can be rendered with a visual preview. Code-completion offers users the ability to work with tags directly from a pop-up list in the source code editor. Estimated street price for the Adobe Creative Suite Premium Edition is US\$1229 and \$999 for the Standard Edition. Adobe Creative Suite for Mac OS X 10.2.4, Windows 2000 with Service Pack 2, and Windows XP Professional and Home Edition, will be available in the fourth quarter of 2003 to customers in the United States and Canada. www.adobe.com

ANTARCTICA ANNOUNCES VISUAL NET 4.0

9/29/2003

Antarctica Systems Inc. announced the availability of version 4.0 of its Visual Net (VN) software. Visual Net's map-based visual displays convey the relevant, meaningful content that business users need. The improvements in Visual Net 4.0 are aimed at changing the user focus from dealing with the complexities of constructing complex queries to dealing with key business issues. The VN maps display all the complexities inherent in real business issues, showing multiple dimensions of both macro and micro data. This enables users to have a complete view of their business problems. Visual Net 4.0 has built in more interactivity, allowing users at all levels of the organization to manipulate and filter data to customize the information on the maps, giving users more flexibility in what they see. Visual Net is now equally adept at visualizing three types of information: numeric, textual and geographic - either individually or in combination. Visual Net 4.0 is available immediately. www.antarctica.net

IUPLOAD CONTENT MANAGER 4.1 ADDS DASHBOARD INTERFACE

9/29/2003

iUpload has simplified the integration of e-marketing, surveys and analytics with content management through the iUpload Dashboard. This new interface makes modules of the iUpload Application Suite accessible through one interface. Content Manager version 4.1 also contains a "cloning" feature that allows replication of an architecture any set of folders, pages and templates for reuse. The cloning feature exploits "wrappers" or templates that are optimized so that there is just one file with all navigational labels and content areas on the site to edit or translate. Version 4.1 includes new tags and attributes; and new fields exist for recommended page keywords, allowing authors to classify content that will provide integration with Site Search and Analytics Modules, and language classifications for multilingual applications. A new Macromedia Dreamweaver extension supports all iUpload tags and attributes. Existing iUpload subscribers gain access to the iUpload Dashboard and other enhancements in iUpload Content Manager version 4.1 automatically and at no additional cost. www.iupload.com

INNODATA CHANGES NAME TO INNODATA ISOGEN

9/29/2003

Innodata Corporation announced that effective immediately it will be doing business as Innodata Isogen. The company will ask its shareholders in November to approve the change of the corporate name to Innodata Isogen, Inc. Since December 2001, when the company acquired Isogen International, a provider of content management and publishing systems, the company has steadily expanded its offering to encompass the entire content supply chain. Doing business as Innodata Isogen is symbolic of this transformation. www.innodata-isogen.com

EISTREAM ACQUIRES LEXIGN

9/24/2003

eiStream, Inc. announced the acquisition of electronic document management and workflow provider Lexign, Inc. Lexign markets two products: Keyfile, a document management and imaging repository that was developed in 1989; and Flow, a Microsoft Exchange-based workflow automation tool. Lexign offers document tracking, management, organization and version control. The Keyfile client interface offers the look and feel of a Microsoft Windows desktop or a Web browser, depending on user preference. The Keyfile Document Server (KDS), an object database, serves and stores documents and implements business processes. Lexign Flow is a business tool that automates mission-critical business processes regardless of complexity. It may be deployed in a single department, across an enterprise or in business-to-business environments. Lexign was founded in July 2001 with the merger of icomXpress (formerly Keyfile), thinkXML and E-Lock Technologies. www.eistream.com

INTERWOVEN ANNOUNCES SUPPORT FOR MICROSOFT'S .NET FRAMEWORK

9/24/2003

Interwoven, Inc. announced broad support for the Microsoft .NET platform and its programming model, the .NET Framework. Interwoven's recently announced ContentServices 2.0 SDK (CS SDK) is a Web Services toolkit that interoperates with the .NET Framework. ContentServices 2.0 supports WSDL 1.1 and provides these files for developers to integrate content management into packaged applications such as portals, CRM, ERP, and custom applications. .NET developers can access Interwoven Content Services with Visual Studio .NET. Future releases of Interwoven ContentServices will expose the entire Interwoven product line as a layer of Web Services that can be used in any .NET initiative. They will enable point-and-click as well as custom integrations with .NET-based portal servers such as SharePoint, and will support the recently ratified Web Services for Remote Portlets (WSRP) specification in order to support .NET servers. www.interwoven.com

OPEN TEXT ANNOUNCES LIVELINK REVIEW MANAGER FOR ADOBE ACROBAT

9/24/2003

Open Text Corporation said it will release a new product this month called Livelink Review Manager for Acrobat, which lets users securely execute multiple, parallel reviews of legal and regulatory documents. Livelink Review Manager for Acrobat integrates the review and comment features of Acrobat with Livelink's document management features. With Livelink Review Manager for Acrobat, users' changes are maintained in separate comment files within the repository and linked to the original document. The input from reviewers can then be assessed and consolidated by editors, who are the only ones with access to the original, which is securely protected in Livelink. The solution also adds a Review Comments tab to Livelink, giving document authors access to review history, including the names of the reviewers, a link to the asso-

ciated comment files, and the dates and times when the comment files were modified. Livelihood Review Manager can be installed with no plug-ins or downloads required, and works with Acrobat 5.0.5 and above. www.opentext.com

GLOBAL MOXIE RELEASES BIG MEDIUM 1.2

9/24/2003

Global Moxie announced the release of Big Medium 1.2, a major update to the company's web content management system. Big Medium is browser-based software that enables non-technical staff to update websites without learning HTML. New features in Big Medium 1.2 include RSS news feeds, support for non-western languages and a new, streamlined editing interface that makes webpage publishing even easier. The suite of Perl scripts is \$129 for web servers running Linux, Mac OSX, Solaris, BSD and other Unix operating systems. A free online demo is available. www.globalmoxie.com

MOREOVER LAUNCHES ENTERPRISE GRADE WEBLOG SEARCH

9/23/2003

Moreover Technologies announced it has launched a real-time weblog search tool for the enterprise. The product harvests information from over 25,000 hand selected, business-critical weblogs. To overcome the issue of the variable quality of blog content the team of human editors at Moreover Technologies assigns each blog a ranking that corresponds to the reliability, integrity and caliber of the blog thus enabling users to instantly identify high value information. Additionally, each blog is tagged with a wide range of metadata including, but not limited to, the number of incoming and outgoing links to it as well as the blog's status in the wider blogging community. The aggregated blog information is also available to users as pre-configured or customized topical 'feeds'. Blog content will also be made available via Moreover's ci-metabase product – a complete and constantly updated XML feed of all information harvested by Moreover – allowing a completely customized solution for the enterprise.

www.moreover.com

XML GLOBAL SELLS ASSETS TO XENOS

9/23/2003

XML Global Technologies, Inc. announced that it has signed a definitive agreement to sell all of its business assets to Xenos Group Inc. Xenos will acquire XML Global's intellectual property, customer relationships, and operating assets and will retain most employees. The terms of the transaction call for Xenos to pay \$1,250,000 and to issue 1,000,000 shares of common stock to XML Global in exchange for the purchased assets, including the GoXML eBusiness product line. Xenos will provide a price guarantee on the Xenos shares to XML Global such that Xenos under certain conditions may make additional cash payments to XML Global, not to exceed C\$1,340,000, in the event that Xenos shares are trading below C\$3.50 prior to the anniversary date of the closing. The parties hope to be able to consummate the purchase and sale by the end of December 2003. Xenos and XML Global have entered into a co-marketing agreement allowing Xenos to market and sell XML Global's products and services pending completion of the acquisition. www.xenos.com, www.xmlglobal.com

STELLENT RELEASES UNIVERSAL CONTENT MANAGEMENT 7.0

9/22/2003

Stellent, Inc. announced the release of Stellent Content Management 7.0. Stellent Content Server now supports document management, Web content management, records manage-

ment, collaboration and digital asset management applications from a single server, and features a new common GUI and common APIs. Version 7.0 leverages Stellent's core platform to offer built-in records management functionality that enables users to manage disposition and retention schedules for electronic and physical records. In addition, Stellent Content Management 7.0 will comply with the U.S. DoD 5015.2 standard. Stellent Content Management 7.0 includes a new, optional, high-volume repository that supports large volumes of content for imaging and digital asset management applications. Version 7.0 also offers workflow support for business processes to enable users to route forms, scanned documents and images through workflows. Additional features include: a simplified workflow interface, schema management, image conversion, directory rollover, enhanced enterprise management, expanded XML functionality, and a simplified pricing model. www.stellent.com

ATG ANNOUNCES GENERAL AVAILABILITY OF ATG 6.1 WITH UPGRADED WEB CONTENT MANAGEMENT

9/22/2003

ATG announced the general availability of ATG 6.1. ATG 6.1 contains a variety of new capabilities including an upgraded Web content management solution, integration with industry leading application servers, and enhancements to ATG's innovative Scenario Personalization technology. ATG has upgraded its Web content management solution, ATG Publishing, with several features for companies utilizing database-driven Web applications such as portals, commerce and self-service. ATG 6.1 offers tighter integration with Web application servers including IBM's WebSphere 5.0 and others. New capabilities enable customers to automate business processes in the same manner as ATG's Scenario Personalization allows customers to automate customer interactions on the Web. With the new workflow functions in ATG 6.1, companies can automate repetitive manual business processes. Industry compliance issues, sales and marketing automation, customer and employee service management, and other highly complex processes can be automated through application workflow. www.atg.com

EASYASK ANNOUNCES EASYASK ENTERPRISE 9

9/22/2003

EasyAsk announced EasyAsk Enterprise 9, a platform for unifying all forms of enterprise content and enabling information access across commerce, service and decision support activities. EasyAsk Enterprise 9 delivers information quickly, regardless of format or location. Users can be guided through dynamic navigation, or they may use an advanced natural-language interface to go directly to the content they seek. EasyAsk Enterprise 9 offers three different components. EasyAsk Decision Advisor provides enterprises with an internal solution for harnessing real-time information from multiple sources. It provides novice to expert business users access to information contained within and reports generated from BI platforms. EasyAsk Service Advisor facilitates a variety of enterprise information access for customer self service and call centers and within enterprise portals. For online B2C commerce and catalog merchants and B2B manufacturers and distributors, EasyAsk Commerce Advisor enables their customers to quickly find and browse through merchandise and catalogs that meet their specific criteria. www.easyask.com

iMANAGE ANNOUNCES PARTNERSHIP WITH KOFAX

9/22/2003

iManage, Inc. announced a new partnership with Kofax that will bring scanning capabilities to users of the iManage WorkSite suite. iManage has also joined the Kofax Technology Alliance Program. Ascent Capture will be tightly integrated with iManage WorkSite to provide users with a complete, out-of-the-box capture and collaboration solution. Ascent Capture automates the

capture of information from documents and forms and delivers retrievable information into business applications. Documents scanned with Ascent Capture will be delivered automatically into iManage WorkSite, capturing the information alongside all project work within the repository – such as emails, spreadsheets, reports, etc. – keeping all content in context and readily available for access, editing, collaboration or completion. www.kofax.com, www.imanage.com

WHITTMANHART FORMS ALLIANCE WITH ATG TO OFFER PORTAL & CONTENT PUBLISHING SOLUTIONS

9/18/2003

WHITTMANHART announced that it has formed an alliance with ATG. The companies are developing customer self-service solutions that combine WHITTMANHART's portal and content management implementation experience with ATG's portal and publishing solutions. ATG Publishing provides an interface for creating product catalogs, posting updated knowledge base articles, and designing targeted e-mail marketing campaigns. Combined with the ATG Portal, WHITTMANHART and ATG will deliver solutions for self-service and collaboration.

www.whittmanhart.com, www.atg.com

CLEARFOREST & NESS PARTNER

9/18/2003

ClearForest Corp. and Ness Technologies have partnered to develop comprehensive business intelligence solutions for the Life Science industry. The partnership will combine ClearForest's content extraction and analysis software with Ness' 17 years of expertise delivering IT solutions to Life Science companies. The partnership is focused on applying text mining and other advanced knowledge management capabilities to clients' strategic initiatives in drug discovery, clinical development optimization, competitive and business intelligence. In addition to joint product development and implementation, ClearForest will provide Ness with extensive technical, marketing and sales resources to ensure successful integration and implementation with its Life Sciences and other customers. www.clearforest.com, www.ness.com

ALTOVA'S XMLSPY 2004 INTEGRATES WITH VISUAL STUDIO .NET

9/18/2003

Altova Inc. announced the availability of XMLSPY 2004 integrated with Microsoft's Visual Studio .NET versions 2002 and 2003. The new integration of XMLSPY 2004's XML development tools and utilities, directly within Microsoft Visual Studio .NET will enable the Microsoft developer community to build XML-enabled software applications for the Microsoft platform. The XMLSPY 2004 integration for Microsoft Visual Studio .NET is included in both XMLSPY 2004 Professional Edition and XMLSPY 2004 Enterprise Edition which retail for \$399 and \$990 (USD) per installed user. Volume discounts, Support and Maintenance, upgrade pricing, and concurrent licensing options are available, see Altova's online shop for complete price list.

www.altova.com

REDDOT & LOGICWORKS ANNOUNCE HOSTED CMS

9/17/2003

RedDot Solutions announced that it has partnered with Logicworks to provide customers with a new hosted content management solution based on RedDot's product, RedDot Content Management Server (CMS) 5.0. The joint offering delivers enterprise-class CMS functionality at a fixed monthly cost to small to medium-sized businesses. Logicworks' infrastructure will provide

value-added services that enable secure hosting, operating system patching, rapid development and deployment, upgrades, management and flexible finance options. Terms of offering are based on 12 and 24 months with option to convert to a perpetual license. The Red-Dot/Logicworks hosted solution is created for organizations with fixed budgets that need a full content management system or are limited with hardware resources. Logicworks' managed infrastructure supports RedDot CMS implementations with a dedicated server(s), operating system and connectivity, 24x7 monitoring, failover & redundancy options, back-up and recovery. www.logicworks.net, www.reddot.com

INTERWOVEN ANNOUNCES SELF-SERVICE SOLUTION WITH IPHRASE

9/16/2003

Interwoven, Inc. announced the Interwoven Self-Service Solution, enabling organizations to shift customers and employees to online channels to find information, transact business, and resolve issues. Extending an existing relationship with self-service search and navigation provider iPhrase, Interwoven also announced it will re-sell iPhrase One Step, a search and navigation solution. iPhrase's offerings complement Interwoven's content management platform, and most importantly Interwoven MetaTagger content intelligence server software, for creating, tagging, managing, and deploying business-critical enterprise content. Utilizing metadata services from Interwoven MetaTagger software and natural language capabilities from iPhrase that understands customers' intent, users are routed to the proper online application or information that enables them to serve themselves online without ever speaking with a customer service representative. The Interwoven Self-Service Solution with iPhrase can be purchased from Interwoven today. www.interwoven.com

CLEARFOREST ANNOUNCES ALLIANCE PROGRAM

9/16/2003

ClearForest announced the launch of its Alliance Partners Program. The new program provides a comprehensive set of support resources to partners who provide complementary technologies and services for integrating ClearForest software with other enterprise solutions. ClearForest alliance partners already include Endeca, MicroPatent, Alion Science & Technology, and Verity. The Alliance Partner Program is intended to support two core partner groups. Technology Partners – who offer technologies complimentary to ClearForest's, and Integration Partners – who provide customers with a variety of services including vertical market customization, integration with content management or related applications, development of domain-specific applications built upon the ClearForest platform, customization of Discovery Modules and related implementation and training services. www.clearforest.com

XEROX UNVEILS DOCUSHARE 3.1

9/16/2003

Xerox Corporation unveiled DocuShare 3.1. The new software components include two add-on modules that make it easier for end users to share information. Built on the Dralasoft Workflow engine, the Enterprise Workflow add-on component extends DocuShare's core document approval and routing capabilities. For Web collaboration on team projects and documents, DocuShare users can integrate DocuShare Interact an add-on built on Sparrow Web technology developed at Palo Alto Research Center. DocuShare Interact allows people to create shared, collaborative Web pages for project management, reports, calendars, meetings, to-do lists, blogs, and other types of group work that needs to be published and updated on the Web. In addition, the DocuShare Developer Environment enables further development and customization of DocuShare solutions. The entry-level U.S. list price for a complete DocuShare system with 10

seats is \$4,045 and a 100-seat system is \$9,995. Existing DocuShare 3.0 customers with a support agreement can upgrade to DocuShare 3.1 at no charge. DocuShare 3.1, DocuShare Interact, DocuShare Enterprise Workflow and DocuShare Developer Environment will be available beginning Oct. 15. www.xerox.com/docushare

PINDAR SYSTEMS RELEASES AGILITY 2.1

9/16/2003

Pindar Systems announced the availability of Agility 2.1, an update that adds new enterprise platform and application support, Java and Web ease-of-use features, and workflow/functionality enhancements. Pindar Systems has added to Agility interfaces for its Java and Web clients, and other productivity features. New workflow enhancements include event triggering on workflow state changes, auto-advance of "child" states, defined "next states," and extended auto-transition rules. New functionality features include check-in and check-out for documents and digital media assets, new capabilities for automating the creation of complex tables, and automated Enterprise Java Beans functionality. Agility 2.1 supports Adobe's InDesign 2.0 desktop publishing system, and the QuarkXpress desktop publishing product. IBM's Websphere and BEA's WebLogic application servers are supported as well as IBM's DB2, Oracle 9i and MS SQL Server 2000 database products. Agility 2.1 also now runs on the UNIX AIX/Solaris platforms in addition to Microsoft Windows 2000. www.pindarsystems.com

FILENET INTRODUCES CONTENT INTEGRATION INTERFACE TO BEA WEBLOGIC PORTAL

9/15/2003

FileNet Corporation announced a joint solution with BEA Systems Inc. known as the FileNet Content SPI Integration for BEA. With this service provider interface (SPI), users of BEA WebLogic Portal 8.1 can leverage FileNet's content management capabilities in developing dynamic and personalized Web applications. In addition, the integration leverages the upcoming JSR 170 specification, which simplifies integration with other portals in the future. The SPI is designed to provide integration without the need to replicate data between the BEA WebLogic Portal content repository and FileNet content repository. Consequently, as content is changed within FileNet, the change will be immediately reflected within the portal environment via the SPI. www.filenet.com

VIGNETTE TO ACQUIRE INTRASPECT

9/15/2003

Vignette Corp. announced that it has entered into a definitive agreement to acquire privately held Intraspect Software, Inc., a provider of enterprise collaboration solutions. Under the terms of the agreement, Vignette will pay \$20 million, comprised of \$10 million in cash and approximately 4.2 million shares of Vignette stock, for Intraspect. The transaction is subject to approval from the Intraspect stockholders and customary closing conditions. The Intraspect product line includes Java-based collaboration functionality and a complete collaborative applications framework so users can customize the user interface and collaboration services flow. Services provided by the core Intraspect platform include indexing and search, security, communications, data management and subscription notification. In addition to the core Intraspect 5 platform, Intraspect offers several packaged horizontal and vertical solutions that help customers solve more complex collaborative business process needs. As part of Vignette, the Intraspect 5 platform will continue to be sold, supported and enhanced as well as offered in an integrated suite. Vignette also will integrate Intraspect technology with its content management and portal solutions. www.intraspect.com. www.vignette.com

NEXTPAGE LAUNCHES NXT 4

9/15/2003

NextPage Inc. announced the launch of NXT 4, a publishing suite for publishers and corporations to secure and deliver information on the Internet, to corporate intranets and on CD/DVD. New NXT 4 is designed for commercial publishers that provide content on the Web or through other electronic media, and for publishers of corporate reference libraries that deliver information critical for decision making to employees and clients. New license management features in NXT 4 allow publishers to apply secure license rights to content delivered on CD and to corporate intranets. Corporations that need to deliver business-critical information to end users, such as auditors, insurance underwriters or other frontline service professionals, can use NXT 4 to reduce risk of noncompliance with features such as a user interface designed for researchers, incremental updates and content networking with other offices and commercial publishers. Corporations can use NXT 4 in applications such as auditor's reference libraries, help desk knowledgebases and electronic policy and procedure manuals. NXT 4 is scheduled to ship Sept. 30, 2003. www.nextpage.com

PERCUSSION CHOOSES ORACLE APPLICATION SERVER 10G AS STRATEGIC PLATFORM

9/15/2003

Percussion Software announced that it has chosen Oracle Application Server 10g as a strategic platform for its Rhythmyx 5 ECM system. The combination of Rhythmyx 5 and Oracle Application Server 10g will address enterprises' need for flexible content management solutions that facilitate content reuse across multiple delivery channels, including Web sites, enterprise portals and mission-critical Internet and other enterprise applications. www.percussion.com

XYTHOS SUPPORTS ORACLE APPLICATION SERVER 10G

9/15/2003

Xythos Software announced that its WebFile Client will support Oracle Application Server 10g, a middleware offering that simplifies the management of applications running in a grid computing environment. Together, the products help simplify the process of publishing and managing any type of content by leveraging WebDAV and exposing the portal content management features of Oracle Application Server 10g directly within the Windows Explorer desktop environment. Users can edit and publish content and associated metadata, version files, and set access controls directly from their preferred desktop applications, helping to simplify the publishing process. In addition, the WebFile Client also introduces offline file synchronization. The WebFile Client for Oracle Application Server 10g is expected to be commercially available beginning in October 2003. www.xythos.com

ARBORTEXT PARTNERS WITH DATA CONVERSION LABORATORY

9/15/2003

Arbortext, Inc. announced a new partnership where Arbortext will offer data conversion services from Data Conversion Laboratory (DCL). Including DCL data conversion services with Arbortext applications gives organizations access to more comprehensive solutions as they build and implement XML-based publishing applications. www.dclab.com, www.arbortext.com

ENTRIEVA & NORTHERN LIGHT PARTNER

9/15/2003

Entrieva, Inc. and Northern Light Group LLC announced the signing of a marketing and technical co-operation agreement. Under the terms of the agreement, the companies will integrate the Northern Light Enterprise Search Engine with Entrieva's Semio classification engine so that a customer of either would have the option of using the other component seamlessly. The companies further agreed to work on joint sales and marketing opportunities together.

www.entrieva.com, www.northernlight.com

INSCI ANNOUNCES WEBWARE ACQUISITION

9/10/2003

INSCI Corp. announced the acquisition of WebWare. The acquisition was made for cash and stock. Further terms of the transaction will be disclosed on Form 8K to be filed with the SEC by the end of the month. This transaction is anticipated to accelerate the development of the next generation of ActiveMedia SOAP/J2EE platform. WebWare ActiveMedia software brings INSCI a digital asset management platform for integrating rich media contentsuch as images, illustrations, layouts, slide presentations, video and animationinto content management systems, web publishing systems, and e-commerce portals. This complementary technology is expected to broaden INSCI's product suite, which is designed for the capture, long-term preservation and web presentment of such content as banking and financial statements, explanations of benefits (EOBs), claim images, and e-mail. The resulting expanded enterprise solution manages wide-ranging business contentfrom documents to e-mail, graphic images to video.

www.webwarecorp.com, www.insci.com

REDDOT EXPANDS MULTILINGUAL SUPPORT & CONTENT TRANSLATION FUNCTIONALITY

9/10/2003

RedDot Solutions announced that it has expanded its support of multilingual web development with the latest version of its Translation Editor. The RedDot Translation Editor assists organizations with managing the translation of content between multiple languages and enables organizations to automatically default to the primary language during a translation. RedDot offers native support for English, French, Spanish, German, Hungarian, Italian, Portuguese and Polish languages. The RedDot multi-language project structures are centrally administered allowing administrators and editors to manage the different language variants. Organizations can use the RedDot system to design sites that display the same information in multiple languages. The solution also provides for characteristics such as UTF-8/UTF-16, all ISO character sets and SHIFT-JIS for Asian character sets. www.reddot.com

ATOMZ ANNOUNCES ENHANCEMENTS TO SOFTWARE SUITE

9/8/2003

Atomz announced that it has added a series of new features and functionality to its Web-native software. Nearly a dozen new enhancements work together to improve the ease-of-use, security, customization and reliability of its suite of products. Context menus of the content management solution's Rich Text Editor now allow users to right-click their mouse to Undo, Cut, Copy, Paste, Delete and Select All. Administrators using Atomz Publish now have a greater ability to control the exact format of automatically generated file names. Web teams working on collaborative projects will benefit from the upgraded WebDAV support for Macromedia

Dreamweaver. Search Restrictions is a new feature in Atomz Search that is useful for Web sites that wish to limit the viewing of search result content in some manner. Atomz Promote now enables multiple site search promotions to be rotated across a particular keyword or key phrase. Search Personalization has been added to Atomz Search. Atomz Promote can now be utilized in conjunction with the categorization feature of Atomz Search. www.atomz.com

IPEDO ANNOUNCES NEW MULTI-SOURCE ENTERPRISE INFORMATION INTEGRATION (EII) CAPABILITIES

9/8/2003

Ipedo announced their software platform now handles concurrent assimilation of complex information sets from Oracle 9i, DB2, MySQL, SQL Server and Web Services. The information integration was done using Ipedo's XML-based views and query technologies. With this new capability, Ipedo allows enterprises to create custom information views on demand. The XML-driven EII capabilities of the Ipedo XML Information Hub go beyond integration and allow custom assembly and persistence of information, in the variety of industry standard formats. The testing was done using the Ipedo XML Information Hub 3.3 with Oracle 9iR2, DB2 Universal Database v3.1, MySQL Pro v4.0, SQL Server 2000 Enterprise Edition, and a public Web Service from Google. Information was integrated using XQuery to quickly aggregate real-time business information across multiple sources, leveraging Ipedo's XML Views, Web Services Views, Content Conversion and Universal XQuery Engine capabilities. www.ipedo.com

GILBANE REPORT TO ADMINISTER INDUSTRY INITIATIVE TO PROMOTE & DISSEMINATE CONTENT TECHNOLOGY BEST PRACTICES

9/8/2003

The Gilbane Report announced that it has agreed to administer an industry initiative to be known as The Gilbane Content Technology Works Program. Under the auspices of this program, best practices and success stories will be documented, assessed and published. Founding partners represent leaders from every segment of the content technology marketplace including enterprise infrastructure, content management, portal, XML databases, search and categorization, digital asset management and content integration. Gilbane Content Technology Works founding partners include Software AG, Sun Microsystems, Artesia Technologies, Atomz, Context Media, Convera, Vignette, and WebWare. Material will be developed in collaboration with enterprises able to share their experiences and will be written in "the enterprise's voice." Final editorial review and the essential components of these works will be established by the enterprises whose stories we relate. In order to develop this valuable information at no cost to the consumer, leading content technology vendors have been invited to subsidize the expense of developing and distributing content technology best practices. Vendor partners do not determine which enterprises we collaborate with and will be subsidizing success stories that do not include their technology. The first collection of success stories and best practices will be rolled out through all of our channels during the 4th quarter of 2003.

www.gilbane.com/technology_works.html

IXIASOFT & INGENIUX PARTNER

9/8/2003

IXIASOFT and Ingeniux announced a new technology partnership to integrate TEXTML Server with Ingeniux Content Management System (CMS). Combining these two XML technologies will provide customers with a comprehensive XML-based Web content management solution. IXIASOFT's TEXTML Server is an XML content server designed for software developers who re-

quire advanced storing, indexing, and searching capabilities for their applications. Ingeniux CMS provides a complete Web content management and publishing system for developing, managing and deploying Web content throughout the enterprise. Ingeniux CMS empowers non-technical users to contribute to and manage the Web publishing process. Adding TEXTML Server, a native XML repository, to Ingeniux Content Management System will extend its functionality by providing users with advanced searching and publishing capabilities. The joint product offering is aimed at organizations who wish to take full advantage of a pure XML architecture. As part of this technology partnership, IXIASOFT and Ingeniux will collaborate on and coordinate sales and marketing efforts. www.ixiasoft.com, www.ingeniux.com

VIVISIMO ANNOUNCES RELEASE 4.0 OF CLUSTERING ENGINE

9/4/2003

Vivisimo announced the upcoming Release 4.0 of its Clustering Engine, which organizes internet or intranet search results on the fly into meaningful folders. The Clustering Engine now integrates a fully compliant XSLT processor, allowing administrators to customize the end-user interface. Corporate information managers can customize the installation by adding company or industry-specific knowledge such as synonyms, acronyms, abbreviations, spelling variants and type-of relations as XML declarations or via a web-based interface. Or they can select Vivisimo's built-in knowledge bases for news, science, government, medicine, and others. Using XSLT, regular expressions, and an enhanced conversion framework, the Vivisimo Clustering Engine can extract meta-data and convert any type of data sources to XML. New versions of Vivisimo's Content Integrator, Enterprise Publisher and Software Development Kit are included in Release 4.0. Customers and OEMs now get an integrated solution that solves the twin challenges of organizing information and providing a single entry point to multiple information sources. www.vivisimo.com

XYENTERPRISE & RIGHT HEMISPHERE PARTNER

9/4/2003

XyEnterprise and Right Hemisphere have announced an integration of their products to support the use and re-use of CAD data and technical content across enterprise creation, management, and delivery environments. This integrated solution will serve engineering, training, and technical documentation creators and users throughout the aerospace, military, and product manufacturing sectors. The solution components include XyEnterprise's Content@ content management and workflow software and Right Hemisphere's Deep Server VIS technology. The integration of Deep Server with Content@ creates a complete technical content and graphical information delivery solution. This solution promotes efficient re-use and re-purposing of graphics and text content used to support and maintain complex products. This integration also promotes the creation and delivery of next-generation training and support materials, derived from the source CAD and technical documentation data sets. Right Hemisphere solution is available now. www.xyenterprise.com, www.righthemisphere.com

PLUMTREE SHIPS PRODUCTS TO SUPPORT WSRP & PROPOSED JSR 168 PORTLET STANDARDS

9/3/2003

Plumtree released new software to support Web Services for Remote Portlets (WSRP) from OASIS and the proposed final draft of the Java Specification Request 168 (JSR 168) portlet standard. For both standards implementations, Plumtree's support extends to versions 4.5, 4.5WS and 5.0 of the Plumtree Corporate Portal. Currently in proposed final draft, JSR 168 is developed through the Java Community Process with contributions and support from an 18-member

Expert Group (EG). It is a portlet standard for portal computing designed to establish a common interface for portlets. Final release of the standard is expected later this month. Plumtree plans to update its container with any changes made in the final release of the JSR 168 standard. In any implementation of JSR 168, the portal communicates with a container, which contains the actual JSR 168 portlet. The Plumtree Container was designed to run on many application servers and Web servers including Apache Tomcat, BEA WebLogic and IBM WebSphere. www.plumtree.com

INTERWOVEN ANNOUNCES AVAILABILITY OF MEDIABIN ASSET SERVER 3.0

9/2/2003

Interwoven, Inc. announced the availability of Interwoven MediaBin Asset Server 3.0 software, an integrated digital brand management solution incorporating a services-oriented architecture (SOA). On June 27, 2003, Interwoven completed its acquisition of MediaBin. MediaBin Asset Server 3.0 software includes a new Web Services-enabled connector for Interwoven TeamSite content server software that automatically ensures that published renditions of digital assets are always properly formatted and up-to-date across all Internet-based applications. Interwoven MediaBin 3.0 can be purchased from Interwoven today at an entry price of approximately \$100K. www.interwoven.com

ALTOVA UPDATES TOOLS; INTRODUCES MAPFORCE 2004

9/2/2003

Altova Inc. announced the availability of the new Altova 2004 XML development tools product line, designed to meet the needs of building advanced XML and Web services applications. The new Altova 2004 product line consists of updates to existing products, XMLSPY 2004, AUTHENTIC 2004, and STYLEVISION 2004, and introduces a new product, MAPFORCE 2004. MAPFORCE 2004 is a visual data integration tool, which auto-generates custom data mapping code in multiple output languages such as XSLT and Java, to enable programmatic XML-to-XML or database-to-XML data transformations. Altova's new MAPFORCE 2004 provides a 2-step XML-based approach to enterprise data integration. Using MAPFORCE 2004, data architects can programmatically convert data into XML from any database by drawing visual mappings from relational databases to any data model expressed in XML schema. MAPFORCE 2004 will then auto-generate the software program code required to programmatically marshal data from the source database to the target XML schema. Next, data can be transformed from one XML format to another, by visually drawing mappings between different XML schema data models. MAPFORCE 2004 is available for a free 30-day trial download or purchase for \$499 for a single user license. www.altova.com

RECENT ISSUES

Issues from 1993 thru 1998 are \$15 if in print. More recent issues are available in PDF for various prices and may be available in print form for \$30. See www.gilbane.com or call for more information.

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CALENDAR *(Subscribers: login to the gilbane.com subscriber site for your conference discounts!)*

The Gilbane Conference on Content Management. September 9-10, exhibits September 9-11, Moscone Center, San Francisco. Our annual conference is *the* place to go to learn what is happening in content management from the industry thought leaders. We cover technologies, best practices, and market trends. The event is designed for beginners, experienced implementors, and IT and content strategists from all vertical industries. Co-located with our partners at Seybold Seminars.

www.gilbane.com/gilbane_at_seybold_03.html

Software AG/Gilbane Report Seminar – XML: Theoretical to Practical, What Really Works.

Sept. 18 - Reston, VA, Hyatt Regency Reston - Sept. 24 - Seattle, WA, Hyatt Regency Bellevue - Oct. 1 – Manhattan, NYC, NY Marriott East Side. Join Software AG and Sebastian Holst of the Gilbane Report for a presentation on the role of an XML repository into today's enterprise infrastructure. Stellant will discuss the role of XML in content management systems. Finally, XML experts will demonstrate how to apply these concepts today. A live Q&A session will allow you to ask questions of the experts and focus on information most valuable to your organization. www.softwareagusa.com/buildwithXML/seminar/bwb.asp

Gilbane Report Tutorial on the State of the Art in XML Content Management, at XML 2003.

December 7, Pennsylvania Convention Center Authority. Join Bill Trippe for this day-long session which will provide you with an overview of current approaches to XML-based content management, and incorporate the lessons learned from case studies presented by guest speakers who have implemented solutions. Prerequisites: Background in XML and content management, including a basic understanding of XML terminology, concepts, syntax, and related standards. www.xmlconference.org/xmlusa/2003/sunday.asp#4

We have more events on the way! Bookmark the link below for updates and stay tuned

<http://www.gilbane.com/events.html>

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