Document Imaging Report

Business Trends on Converting Paper Processes to Electronic Format

March 7, 2014

NUANCE ANNOUNCES CONNECTOR FOR LEADING EHR SYSTEM

Nuance has talked for several years now about leveraging its presence in the healthcare market, driven by the success of its Dragon NaturallySpeaking technology for transcriptions, into increased document imaging sales. At its recent most recent analyst summit held in December, Dave McKanna, Nuance's product marketing manager for healthcare industry solutions, discussed the importance of gaining certifications from leading EHR vendors to promoting sales of Nuance's eCopy ShareScan platform [*see DIR 12/20/13*]. He cited a handful of vendors Nuance was targeting as owning the vast majority of EHR market share.

One of those was **NextGen**, and last week at the annual Health Information Management and Systems Society (HIMSS) event held in Orlando, Nuance announced a ShareScan Connector for integrating its capture platform with NextGen Ambulatory EHR.

While stopping short of saying the Connector is certified by NextGen, the press release included this endorsement by Michael Lovett, EVP and general manager for NextGen Healthcare. "With tools like the new Nuance NextGen Healthcare Connector, our customers can tackle the challenges created by incoming paper-based records more effectively and maximize their IT infrastructure by scanning records directly from their existing MFPs."

The NextGen Connector is being made available "through Nuance's global channel of MFP vendors, partners, dealers, and professional services teams."

For more information:
http://bit.ly/NextGenConnector

Ephesoft Promoting Web Services APIs

There's has been a lot of talk in the industry in the last couple years about document capture being accessed as a service. So, what exactly does that mean? Basically, it's the ability to execute on-demand capture. In one popular example, this involves being able to invoke processes like automated data extraction in the middle of a workflow process.

"Traditionally, document capture systems are deployed at the front of a document-centric workflow," explained Ike Kavas, founder and CTO of innovative capture ISV **Ephesoft**. "A document enters a capture platform, it is classified, meta data is extracted, and then a workflow is kicked off.

"However, as we go to market, we are seeing companies that have workflows, related to document management or some line of business, who want features like content-based classification, data extraction, and PDF conversion, in the middle of their processes. For example, a contract arrives in the middle of an ongoing project and the customer needs meta data extracted from it."

According to Kavas, deployment of on-demand capture has been hindered by the traditional design of capture software. "Imaging toolkits have been around for a long time," he said. "There have always been APIs available for OCR and PDF generation. The problem is that to integrate them you typically need to install the imaging technology on the same server as the line-of-business application."

Especially as software moves increasingly to the cloud, this can be a non-starter. "Last year, we were dealing with a publicly traded company that needed to integrate its capture application with **Salesforce.com**," said Kavas. "They were looking at software from four capture vendors, including us. They chose our software, basically because Salesforce doesn't allow its customers to install any tools on its server.

"With Ephesoft, the customer installed the software in its data center, and customized Salesforce.com to make

calls to our services. This type of connection is enabled through our Web services API."

How's it work?

Ephesoft has always been on the cutting edge of capture technology. It first attracted our attention when it announced an open source offering in 2010 [see *DIR* 10/22/10]. "When we launched we knew we were coming into a mature market," said Kavas. "We had to come up with something that was different from the competition. From day one, we have been focused on IDR—content classification and free-form extraction, and everything is written in Java and accessible through a Web front end.

"We pledge to innovate every two years. In 2010, we started out with our Enterprise Edition (which is sold through a subscription model). In 2012, we introduced our initial Web services APIs, and now we have mature versions of those APIs."

Kavas estimated that there are about 45 different features that users can call through Ephesoft's APIs. "A customer only needs to integrate with the specific services they want to call," he said. "In one workflow, they might just be looking to convert TIFFs to searchable PDFs. In another they might utilize document classification."

Ephesoft has an online video demonstrating how its APIs work. Ephesoft's services are divided into three categories: batch management, imaging (PDF conversion and OCR), and IDR. The video touts the technology's potential to be integrated with a variety of systems, including HR, CRM, sales, ECM and workflow. It also shows what the code looks like.

"We sell primarily through partners, who should be able to handle the bulk of the API integration," said Kavas. "The APIs are packaged with the Enterprise Edition, with a small uplift charge to enable them. About 90% of the time, customers have been installing our software on their own servers, but we also offer a hosted version that utilizes that same APIs. Some of our partners also host our software and they could expose our services through the APIs as well."

Real-world implementations

Kavas shared with us two examples of real world implementations that utilize Web services calls to Ephesoft's technology. "One customer is an organization that provides services to the oil and gas industry," he said. "They have a ton of documents sitting in a repository that they have developed in house. They actually have documents from 15 years ago that they turn into information which they provide to their customers.

"Rather than export these documents and run them through a capture process, they make calls to our technology through our Web services. Our software extracts line item data from the images. That data is then used to update the meta data in their repository.

"The other example is a customer that is using **Alfresco** for a contract management application. In the middle of a workflow, they will receive documents from contractors for things like code enforcement—primarily stuff related to insurance. They then make a call to our software to identify that it is the right document, as well as extract some data. This part of that workflow can be completely automated without anyone having to look at the incoming documents."

Kavas said that Ephesoft is looking for partners with workflow and BPM applications that might want to leverage its IDR tools within their platforms. "Our challenge at the moment is getting the word out that IDR as a service is available and explaining how it can be utilized. The challenge is that people don't know what they don't know. That said, in the past three to four months we've been starting see a lot more of our partners demoing the Web-based APIs.

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>
> **Ike Kavas, Ephesoft**

"Basically, we envision two types of customers utilizing our IDR through Web services calls. One is ISVs that want to add IDR features to their products and deploy it as part of a SaaS or on-premise offering. The other are end users that want to integrate our technology with other applications they are running—the salesforce.com user I mentioned is an example of this.

"In both cases the customers are implementing IDR as a tool, which is different than implementing IDR as part of our capture application and utilizing our GUI. Basically, the tool deployment involves being able to work with RESTful APIs that can be called from either Java or .NET environments. We've even seen customers call them from iPhones."

Spreading the gospel of IDR

This latest initiative to make IDR more widely available by utilizing Web services is in line with Ephesoft's mission of bringing IDR to the masses. "Our goal has always been to make the technology affordable to the point where a mid-market organization can take advantage of it," said Kavas. "We've had success in the mortgage industry where we are often dealing with customers with $10M-$50M in revenue and 100 to 200 employees. They can't afford a million dollar implementation with two months of professional services, but they can afford Ephesoft. If we help them reduce their data entry labor by three or four FTEs out of 10, that's typically a three-month ROI."

Also, in line with its roots in open source software and its goal of innovation, Ephesoft has plans to soon release an Enterprise Edition that can be run on Linux servers. "To date, although it can be integrated with almost anything through its Web Services APIs, our technology has only been able to run on Windows servers," said Kavas. "This includes cloud environments like Windows Azure and Amazon Web Services, as well as on-premise servers.

"Still, there are a lot of government initiatives calling for all software to be installed on Linux servers. IBM and SAP software runs on Linux. The European market is very big on Linux. Also, Alfresco (ECM software with open source roots), which about half of our partners work with, is run 90% of the time on Linux.

"Our software was written in Java and is designed to be platform independent, so by simply replacing the OCR engine (from **Open Text** RecoStar to **Nuance**), we will be able to provide the same product on both Windows and Linux servers. In addition to being the only IDR technology available through Web services calls, we think we will have the only IDR that runs on Linux."

For more information:
http://www.ephesoft.com/products/developers;
http://www.youtube.com/watch?v=psVRKyi7u8E;
http://www.ephesoft.com/home/why-ephesoft-apis

Sharp Introduces Secure Collaborative Cloud

Sharp USA is the latest MFP vendor to release a cloud-based collaborative content repository integrated with its hardware devices. Last month the Mahwah, NJ-based vendor launched its new Cloud Portal Office, which it touts as offering the benefits of five Cs for businesses: Connect, Collaborate, Conference, Capture, and Control. It is available now through Sharp sales channels, with paid licenses starting at approximately $10 per month per user.

"In simplistic terms, let's say I'm working on an editorial piece with several people; I can put the document in Cloud Portal Office and any of the collaborators can access it from any device at any time," said Vince Jannelli, director of product

management applications for Sharp Imaging and Information Company of America. "And they don't have to worry if they are working on the right version.

"So far, that's really not that dramatic. There's probably at least a half dozen providers who offer that type of connect and collaboration technology. The uniquely Sharp twist is our ability to connect Cloud Portal Office with our Aquos Board display system (electronic white board). There is a special connector that enables users to gain access to the Aquos board for showing PowerPoints and other materials stored in Cloud Portal Office. This eliminates the need to connect laptops and turn over the screens and all the complications often associated with presentations."

There are currently four components to Cloud Portal Office with the Meeting Room component handling the Aquos Board connection. The other three are:

■ **Desktop:** enables syncing of files in selected desktop folders with files in Cloud Portal Office; works with both Mac OS and Windows computers.

■ **Mobile:** Android and iOS apps that enable users to access files in Cloud Portal Office from their mobile devices; images of documents can be uploaded and files can be downloaded (if the device permits), edited, and re-uploaded

■ **Scan/Print**: an OSA Connector that enables Cloud Portal Office to be accessed from the touchscreen of Sharp MFPs; the connector can be used to scan documents and add meta data (full text OCR can also be performed), as well as print from the repository

"Cloud Portal Office was built from the ground up to be used by businesses," stressed Jannelli. "Users taking advantage of free versions of applications like Dropbox can share files with anyone. With Cloud Portal Office, a company knows exactly who has access to their documents. There is an administration account included at no extra charge with every implementation.

"The administrator distributes licenses and can control access on a folder-level. There is also a complete audit trail. And when a user leaves a company, the admin can close their account and assign the license to another person."

In accordance with Sharp's legacy in government implementations, a long list of security and encryption features are included in Cloud Portal Office.

There is currently no API available for integrating the platform with other applications, cloud-based or otherwise. "That's something we may consider in the future," said Jannelli. "We want to listen to our customers and see what the market demands. We do have plans to continue to enhance the base offering, as well as possibly introduce some premium features, but it's too early to discuss details."

To help seed the market, Sharp is bundling a starter license of Cloud Portal Office, with 1 GB of storage, with select new MFPs purchases. "Our vision is to complement the hardware platform that we provide," said Jannelli. "That's why a lot of our initial focus is on capture and conferencing."

Cloud Portal Office was previewed for Sharp dealers at the vendor's national conference held last November. Sharp is currently executing a series of roadshows to further reach out to its channel.

For more information:
http://www.documentimagingreport.com/index.php?id=2548;
http://bit.ly/SharpCPOSite

A Deeper Dive into EMC's New Captiva & AX Releases

A few issues ago, we discussed highlights of the recent Captiva 7.1 release, which was announced in January as part of a major unveiling from **EMC's** Information Intelligence Group (IIG) involving a total of nine new products [*see DIR 1/31/13*]. Recently, we caught up with Raul Gabriel, a senior product marketing manager at EMC, who discussed some deeper details associated with the Captiva announcements. Gabriel also sat in on a call with Phil Wong, EMC product manager, who discussed improvements in the recently announced ApplicationXtender 7.0 mid-market document management system.

As we wrote previously, the two major initiatives surrounding Captiva 7.1 are improvements in its invoice capture capabilities and the introduction of a new Mobile SDK. According to Gabriel, the release of 7.1 completes the re-branding of Captiva's InputAccel product line—as now everything falls under the Captiva umbrella. "What was formerly InputAccel for Invoices is now Captiva Invoice Capture," he told *DIR*. "In addition, we've dropped the Dispatcher brand for IDR and now referring to that technology as Captiva Advanced Recognition."

For those of you interested in history, Captiva Software merged with ActionPoint, formerly known as InputAccel, in 2002 [*see DIR 3/22/02*]. ActionPoint's IA Software was a high-end batch capture platform that could utilize third-party forms

processing applications, like Captiva's, within its framework. Captiva's technology was primarily used for high-volume structured forms capture, but in 2005 Captiva broadened its base with the acquisition of French IDR specialist SWT, which developed Dispatcher [*see DIR 5/20/05*]. This was widely rumored to be the final piece of the puzzle that led to EMC's acquisition of Captiva a few months later [*see DIR 11/4/05*].

Ironically, the architect of this roll-up, Captiva founder Reynolds Bish, is now the CEO of one of EMC's primary competitors in the capture space—**Kofax**, and *DIR* is looking forward to catching up with him next week at Kofax's annual Transform conference being held in San Diego. (Yes, the same city where Captiva ended up being based.) Anyhow, I guess the point is that not only has EMC's capture portfolio now been brought together under a single brand, the technology is also being more tightly integrated.

"The UI for Captiva Invoice Capture has been re-designed so that it has the same look and feel as the standard Captiva Desktop," said Gabriel. "This means it now incorporates more intuitive data entry. The error handling has also been modified to be more descriptive and give more specific messages on what needs to be done. We've also enabled Invoice Capture to be configured with the standard Captiva Designer. This helps unify the administration of capture workflows."

EMC has also enabled users to match their invoices with purchase orders through pick lists and now offers the option of real-time integration with **SAP** ERP systems. "We've historically offered batch integration with SAP," said Gabriel. "Before going live with real-time integration, however, we recommend users test their performance to make sure there isn't any degradation. We recommend they do the same when working with Oracle financial systems."

EMC has also greatly expanded Invoice Capture's ability to work with invoices from multiple countries. "Before, it only supported a handful of countries: the U.S., the U.K, France, Germany, and Italy," said Gabriel. "Now, it will support capture of invoices from almost any country, including their tax regulations. We expanded our tax support up to three levels. We've also extended the auto-learning to work with a greater variety of international invoices.

"This is a big plus for multi-national corporations. They can now utilize the same invoice capture platform for all their locations."

Captiva Invoice Capture has been updated to work with the latest technology platforms, including Windows Server 2012, Windows 8, IE10, and the latest version of EMC's VMWare. The Captiva platform in general has been upgraded to support these platforms with version 7.1. "We've also introduced capabilities like support for dual monitors, which enables two developers to work simultaneously on the same capture project," said Gabriel. "In addition our ScanPlus module has been enhanced so that it runs 20% faster over a WAN."

Mobile toolkit a good start

Gabriel stressed that with Captiva Mobile Toolkit 7.1, EMC has not gotten into the business of selling apps. "We sell solutions," he said. "We have customers that have mobile apps in place but do not have seamless integration into their Captiva back-ends. That's what this toolkit is designed to address."

Gabriel explained that there are two sets of APIs associated with the Mobile Toolkit. "There are APIs on the client (app) side that enable developers to interact with mobile devices," he said. "These APIs enable two types of functionality: image capture and enhancement. For capture, they enable developers to control the hardware on the smart device. This includes light sensors, gyroscopes, accelerometers—it enables the developer to position the image and determine whether a flash should be used. For image enhancement, there are APIs for features like cropping, rotating, and converting images to black-and-white. All this functionality can be included in apps installed on a mobile device.

"The second set of APIs takes care of creating a seamless integration to our capture server. They can be used to create batches that are then submitted for processing. Basically, our server views the app as just another input device like a scanner or fax machine."

Those batches can include manually input meta data to be included with images, but the Mobile Toolkit does not have the ability to enable automated data extraction from images. "It's definitely something we are looking at, along with options like verification on the device of extraction done on a server." said Gabriel. "We are also considering opening up the connection APIs to non-Captiva servers. For now though, we are excited about starting out by selling to our current user base.

"We think there is definitely a lot of opportunity in the market. A recent **Celent** survey showed that only 10% of banks currently officer remote deposit capture and 12% of those that do are already

thinking about replacing their solutions with another vendor's—5% within the next year."

For more information:
https://community.emc.com/docs/DOC-31284
https://community.emc.com/docs/DOC-31283

Faster full-text search in AX7

ApplicationXtender 7.0 represents the first full-numbered release of the popular product since 2010. "Version 6.5, which was released in mid-2011, was actually a major release," said Wong. "In that version we introduced features like improved retention management and the ability to control PDF documents even when they leave the AX repository."

Sold almost exclusively through a channel, Wong said there are thousands of customers using AX. "We get new AX customers on a daily basis," he said. "We have hundreds of reseller partners, mainly in North America, but there are implementations all over the world."

ApplicationXtender is sold primarily through two-tier distribution with **MetaSource** and **Cranel** acting as value-added distributors. **Ricoh USA** and **Canon USA** also market the software to their dealers. "We position it mainly as an SMB product but it can scale," said Wong. "We have customers using it to manage hundreds of millions of documents."

Like Captiva 7.1, ApplicationXtender has been updated to support the latest Microsoft platforms, as well as the latest browser versions. AX 7.0 also supports 64-bit processing. This enables it to take full advantage of EMC's homegrown full-text search capabilities, which were originally deployed as part of its high-end Documentum ECM platform.

"We used to use Verity and FAST's full-text search," explained Wong. "However, as those companies' were acquired they became less attractive as OEM partners. We built our own engine based on the Apache Lucene open source code. We feel it is very competitive."

Because of its native 64-bit support, ApplicationXtender can run the EMC full-text engine much faster than it could run previous engines. "We've literally seen a 200-300% increase in performance," said Wong. "What used to take five hours, now takes a little more than an hour. This represents a huge performance gain."

In keeping with the theme of AX being able to leverage other EMC technology, AX 7.0 can be integrated with the latest Captiva technology. "AX really grew up in the Kofax channel," said Wong. "But as Kofax moves away from the mid-market, we are seeing more and more AX users purchasing Captiva technology. We also offer a QuickScan Pro desktop batch capture application that is a good fit for many AX users. For capturing from MFPs, we have an AX Connector for **Nuance's** eCopy ShareScan."

AX 7.0 also offers integration with EMC's Syncplicity "business-class" collaboration platform. As its name indicates, Syncplicity offers features like syncing folders on mobile apps with those on its server. For more basic integration with mobile devices, EMC partners **Business Imaging Systems** and MetaSource have each developed mobile apps for AX.

FUJIFILM RIS ADDS BROWSER-BASED SCANNING

Browser-based TWAIN scanning SDK developer **DynamSoft** recently announced that its technology has been installed in the latest version of **FUJIFILM** Medical Systems' Synapse RIS (Radiology Information Management) system. A Web-based solution, Synapse 6.3 is a complete practice management system for radiology professionals. This includes managing medical images as well as business information.

FUJIFILM has utilized DynamSoft's Dynamic TWAIN version 9.1 SDK to enable document scanning. According to a press release, the capabilities will enable "office staff to easily scan and capture critical documents such as insurance cards and consent forms….The SDK was ideal to ensure cross-browser compatibility for users of the web-based Synapse RIS 6.3."

Synapse is utilized by many of the largest healthcare providers and facilities in the U.S. It supports functions like scheduling appointments, dose management, and paperless consent forms. It includes features like paperless forms, instant messaging, pre-certification, and advanced exam-profile scheduling. The incorporation of document scanning functionality is in line with a trend we have seen of healthcare providers looking to combine their management of business and healthcare content in a single application.

Based in Vancouver, DynamSoft also develops an ImageCapture Suite SDK to enable image processing and OCR. Its latest version, 9.3, was released this week. It includes a new PDF rasterizing function for enabling Web viewing of documents. A bar code generator has also been added.

For more information: http://www.synapseris.com/; http://www.dynamsoft.com/

"From the middle of 2011 up until now, you have seen a number of modernizations to AX as well as its add-on modules," said Wong. "ApplicationXtender 7.0 represents another step in the modernization of the platform. Users can be assured that AX will be around for a long time."

IIG positioned for the long haul

In fact, the slew of new product releases in January coming from IIG is a good sign for that division. There was certainly come concern following a 3% drop in IIG's revenue in 2012. But the group rebounded in 2013 with total revenue of $647 million, only a 1% gain from the previous year, but this included 3% growth in the fourth quarter.

EMC is also a sponsor and will have an exhibitor table at the upcoming **AIIM** 2014 Conference being held April 1-3 in Orlando. So, its interest in this space appears strong. We look forward to catching up with EMC there.

For more information:
http://bit.ly/ApplicationXtender7
http://www.emc.com/corporate/investor-relations/earnings-releases.htm
http://bit.ly/AIIMSponsors

TIS Gaining Momentum with Mobile, SaaS Initiatives

Top Image Systems was the final of the three publically traded capture-focused ISVs to announce its results for the final calendar quarter of 2013, which also coincides with its fiscal year. For the quarter, TIS reported total revenue of $8 million, which represented a 9% increase from Q4 2012. For the year, TIS revenue was down 7% to $29 million. But there were positive signs.

TIS seemed to be doing well in emerging market areas like mobile capture and SaaS. If you remember, in 2012 TIS announced a series of mobile products that it initially aimed at the banking market in North America. Then, earlier this year, it followed up with a new version of its eFLOW capture platform. The new technology is very Web-centric and designed to be cloud friendly [*see DIR 9/20/13*]. In 2013, TIS made sales progress on both these fronts.

For 2013, TIS reported mobile revenues made up 10% of its total revenue, or close to $3 million. We presume this includes a recently announced sale through partner **Xerox Brazil,** which involves TIS technology being used to capture customer contracts at more than 3,000 sites [*see DIR 1/31/14*]. TIS also reported that SaaS revenue in Q4 was

worth $360,000. The service was launched in Q2.

Last week TIS also named a new Executive VP and GM for TIS Americas. Avi Mileguir had formerly managed West region and Mexican sales for **Click Software**—a $100 million company that markets a cloud-based workforce management application. With the appointment, TIS has combined its Latin and North American operations. It also has brought its VP of global engineering, Oren Ilan, to the U.S. from the company's Tel Aviv headquarters to lead professional services for the Americas.

Commented TIS COO Michael Schrader in a press release: "In 2013 we reinforced our mobile and cloud-directed product development strategy with powerful channel and technology partnerships, product launches, patent filings, and key organizational changes to drive U.S. market growth. We are confident that our business model transition and clear focus on our cloud, SaaS, and mobile solution strategies in 2014 will drive us to maximum revenue growth."

For more information: http://bit.ly/TISQ413; http://bit.ly/TISEVPAmericas

Operations Management System gets New Pricing

Be Productive Systems, which markets what its CEO describes as "ERP for service bureaus" has come out with a new pricing model for its Production Manager and Client Portal software [*see DIR 11/1/13*]. BPS has divided its hosted service into three tiers. The Basic Tier includes standard features like the ability to manage employees and tasks, track projects, manage work instructions, and create standard reports and analytics. The Professional Tier ties in the Client Portal, which enables the customers of service bureaus to monitor the progress of their projects, which is designed to improve customer service and increase retention. The Enterprise Tier gives service bureaus the ability to create custom reports, integrate capture and accounting applications, and private label the Client Portal.

"As document scanning and reprographics businesses look to adopt next-generation production management solutions, the right tools at the right price can make all the difference," said Mike Dailey of BPS. "Our new tiered offerings serve to fit those needs for our global base of clients."

For more information:
http://www.beproductivesystems.com/

DIR Market Watch
for Thursday, March 6

A summary of some stocks that we follow as of the market closing on Thursday. The companies on this list all have some document imaging related technology. Please let us know if there is anyone we are missing.

NAME	SYMBOL	EXCHANGE	CURRENCY	PRICE	52-WK RANGE		EPS	VOLUME	AVG VOL	MKT CAP
NEWSOFT	5202.TWO	Taiwan OTC	TWD	6.92	4.97	6.92 -		1,344,104	218,060,000	-
American Capital, Ltd.	ACAS	NasdaqGS	USD	15.70	11.82	16.37	0.61	2,296,657	2,784,590	4.24B
Authentidate Holding Corp.	ADAT	NasdaqCM	USD	1.13	0.60	1.88	-0.38	116,753	213,747	43.32M
Adobe Systems Inc.	ADBE	NasdaqGS	USD	68.92	40.21	71.11	0.56	3,058,942	3,846,360	34.23B
Anacomp, Inc.	ANCPA	OTC Markets	USD	1.00	0.55	2.49	-3.01	0	267	3.7M
Canon Inc.	CAJ	NYSE	USD	30.77	28.67	38.89	2.55	191,178	382,560	35.3219B
DCT	DCMT	OTC Markets	USD	0.12	0.08	0.21	-0.06	21,000	4,930	2.69M
DRS	DRS.L	LSE	GBp	25.50	17.00	29.00	0.02	71	12,636	8.09M
Datawatch Corporation	DWCH	NasdaqCM	USD	32.93	12.14	38.70	-1.34	159,829	102,665	281.58M
Electronics for Imaging	EFII	NasdaqGS	USD	43.92	23.34	45.82	2.26	220,986	378,053	2.06B
Eastman Kodak Co.	EKDKQ	OTC Markets	USD	0.03	0.03	0.48	-2.4	0	9,482,100	-
EMC Corporation	EMC	NYSE	USD	26.93	21.45	27.34	1.33	17,121,841	24,477,500	54.55B
Bottomline Technologies	EPAY	NasdaqGS	USD	36.05	24.62	37.41	-0.58	120,444	203,735	1.33B
Hewlett-Packard Company	HPQ	NYSE	USD	30.09	19.07	30.71	2.73	7,134,760	13,066,200	57.38B
IBM	IBM	NYSE	USD	187.64	172.19	215.90	14.94	3,817,212	5,010,490	195.4B
Infosys Ltd.	INFY	NYSE	USD	63.01	38.91	63.20	2.99	1,196,391	1,211,830	36B
Iron Mountain Inc.	IRM	NYSE	USD	27.52	25.03	39.71	0	1,026,812	1,933,910	5.27B
Itesoft SA	ITFT.PA	Paris	EUR	3.25	2.13	3.50	0.11	1,880	2,375	18.13M
Kofax Limited	KFX	NasdaqGS	USD	8.90	6.50	9.06	0.16	375,797	255,738	764.51M
Kofax plc	KFX.L	LSE	GBp	525.00	260.00	525.00	0.11	40,908	29,936	-
Lionbridge Technologies	LIOX	NasdaqGS	USD	7.21	2.16	7.50	0.19	373,248	528,023	428.58M
Lexmark International Inc.	LXK	NYSE	USD	41.65	23.33	43.12	4.08	1,019,184	1,058,990	2.59B
Allscripts	MDRX	NasdaqGS	USD	18.40	12.30	18.95	-0.59	738,202	1,642,930	3.28B
Mitek Systems, Inc.	MITK	NasdaqCM	USD	5.12	3.88	7.71	-0.26	236,588	378,928	155.81M
Nuance	NUAN	NasdaqGS	USD	15.48	13.00	23.38	-0.48	2,065,112	5,204,250	4.91B
Omtool Ltd.	OMTL	OTC Markets	USD	2.35	1.20	3.90	-0.27	538	760	11.14M
Oracle Corporation	ORCL	NYSE	USD	39.46	29.86	39.85	2.35	13,081,869	16,975,300	177.47B
Open Text Corporation	OTEX	NasdaqGS	USD	50.38	26.81	52.86	1.28	302,155	649,860	5.93B
Pitney Bowes Inc.	PBI	NYSE	USD	26.29	13.12	26.47	0.7	2,311,522	3,363,490	5.32B
Peerless Systems Corp.	PRLS	NasdaqCM	USD	3.64	3.17	3.90	-0.1	150	6,858	9.386M
READSOFT -B-	RSOF-B.ST	Stockholm	SEK	18.60	18.10	28.60 -		19,580	29,405	-
Streamline Health	STRM	NasdaqCM	USD	5.50	5.40	8.50	-1.44	148,150	57,073	76.41M
Tech Data Corp.	TECD	NasdaqGS	USD	57.49	43.02	61.99	3.01	201,617	206,092	2.19B
TIBCO Software Inc.	TIBX	NasdaqGS	USD	22.77	18.18	27.15	0.5	2,112,310	3,031,320	3.63B
Top Image Systems Ltd.	TISA	NasdaqCM	USD	4.66	2.52	6.24	0.1	161,442	88,260	54.43M
Xerox Corporation	XRX	NYSE	USD	11.09	8.11	12.65	0.91	7,654,405	12,641,700	13.14B

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