

# through ERP world

Web-enabled or not, companies are picking up the pace to respond to accelerating demands from the marketplace. Although enterprise resource planning (ERP) giant SAP may have been caught off guard by the onset of Internet commerce, the company is quickly shifting into high gear. See article, page 14.

Meanwhile, manufacturers are optimizing their existing ERP infrastructures to handle the growing need for speed. See Special News Report, page 34.

#### NEWS

▶ Hewlett-Packard recruits partners for E-speak integration platform. 5

#### NEWS

Soul of an old machine: EMC buys Data General, 12



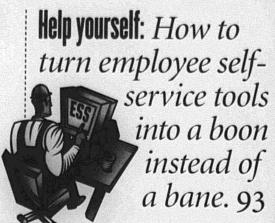
▶ Dan Briody: Who's to blame, Intel or the OEMs?

www.infoworld.com

BEXMJMTB===========CAR-RT SORT==B-052 842239304158 JAN 24 00 221 D011W33 030 138

UMI

Tools for your tag team: SoftQuad's XMetaL uses a word processor model for XML markup. 51



# From bricks to clicks

■GM leads wave of next-generation I-commerce initiatives

By Dana Gardner

TO DOT-COM or not to dot-com? With the potential cost savings and expanded reach of Internet commerce too great to ignore, even a global corporate behemoth such as General Motors is now fully designing its long-term business strategy around the Internet.

A new e-GM division, launched

last week, is one of the early examples of the wave of traditional brick-and-mortar companies, such as Wal-Mart and Williams-Sonoma, that is pursuing major initiatives based on Web services.

"The early Internet economy we have now is only a small vibration of the changes we will see," said George Colony, founder and CEO

of Forrester Research, in Cambridge, Mass. "It will be General Electric, GM, and Wal-Mart that will harmonize their channels and create a single experience for the customer. This is where the action is going to happen. This e-GM is the Manhattan Project of [Internet commerce]."

▶ GM page 32

Payment systems

# **Credit cards** become virtual with eCharge

By Matthew Nelson

PAYMENT COMPANY eCharge plans to do to Internet credit card systems what the Internet itself did to brick-and-mortar stores.

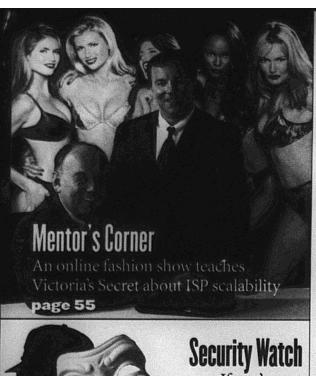
Officials at eCharge will announce this week a completely Internet-based credit and payment system to facilitate purchasing between buyers and eCharge-enabled merchants.

However, eCharge will offer merchants a discount from what they are charged by traditional credit cards such as Visa and MasterCard.

With a less-expensive option available, those traditional cards may be in big trouble.

"The current pricing structure is going to collapse. There is no question about it," said Albert Pang, an electronic-commerce software analyst at International Data Corp., in Mountain View, Calif. "It will chango tho ruloe of the game with







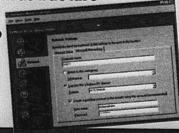
If you're not careful, identity thieves may hijack your personal information and masquerade as you

page 48

# **Platforms & Infrastructure**

Symantec's latest tools help you support your mobile workforce





# THIS WEEK

#### News

- 5 Hewlett-Packard recruits partners to use its E-speak electronic-commerce technology.
- 8 Oracle prophesies that the demand for its delayed Linuxbased 11ii suite will remain strong come 2000.
- 12 The enterprise-storage war heats up with EMC's acquisition of Data General.
- 14 Business-app behemoth SAP lumbers into the Web arena, but the move may be too late.
- 20 Microsoft and the U.S. government draw conflicting conclusions as to whether the company abused its power.
- 24 Street Prices: Pentium desktops
- 28 Hologix's Attricom lightens the electronic-commerce load for heavy industries.
- 28 The Bug Report
- 32 Comdisco tackles some new projects, including data center services and an IT investment tracking tool.
- 34 IT's influence spreads as manufacturers integrate production systems with ERP and Internetbased supply chains.

### Platforms & Infrastructure

- 39 Review: Symantec's pcAnywhere 9.0 connects remote employees to critical data, applications, and users' systems.
- 39 Review: Mobile Essentials, Version 2.0, from Symantec, eases connecting mobile users to the corporate network.

### Intranets & I-Commerce

- 51 Review: SoftQuad Software releases XMetal. 1.0, a production tool for creating content based on XML and SGML.
- 54 Review: BeatWare's e-Picture 1.0 integrates all the features a Web designer needs to edit, illustrate, animate, and more.
- 55 Mentor's Corner: Victoria's Secret's too-popular springfashion cybercast persuades the retailer to adopt IP multicasting technology.

## **Enterprise Computing**

- 59 Review: The flexibility of SalesLogix's SalesLogix 3.1 puts it among the cream of the customer relationship management software crop.
- 60 Review: Corel's latest version of Paradox is easier to use, but with its array of design flaws, the product still needs work.

# **Test Center Comparison**

68 The InfoWorld Test Center examines your options for midtier customer relationship management software.

# **Enterprise Careers**

- 93 Employee self-service tools can boost productivity, but only if workers have the desire and the training to use them.
- 94 Three IT managers reflect on the experiences they had and choices they made while traveling down their career paths.

# Sound off

Do personality profiles build teams or close minds? 95

NICHOLAS PETRELEY
Sure, some software stinks. And it may
be your fault. 114

SANDY REED
The consumer PC market is booming, yet fewer people are using their PCs. 83

### **Opinions**

- 5 From the News Desk / Michael Vizard
- 46 Window Manager / Brian Livingston
- 48 Security Watch / Stuart McClure and Joel Scambray
- 56 Net Prophet / Dylan Tweney
- 66 Test Center Rx / Laura Wonnacott and Brooks Talley
- 82 To the Editor
- 82 InfoToon / Tom Cheney
- 83 From the Editor in Chief / Sandy Reed
- 95 IS Survival Guide / Bob Lewis
- 95 Career Currents / Margaret Steen
- 113 The Gripe Line / Ed Foster
- 113 Notes From the Field / Robert X. Cringely
- 114 Down to the Wire / Nicholas Petreley
- 114 From the Ether / Bob Metcalfe
- 110 Reader Resources

# **ONLINE THIS WEEK**

Go online for all the latest news, discussion forums, interviews, and Test Center product reviews.



#### **FORUMS**

► Maggle Biggs: Have you taken a vacation this summer? If so, did you check e-mail or voice mail while you were away? Why do you think some people have trouble disconnecting?



- ➤ Test Center: What do you think about the promise of customer relationship management tools? Are these products too much work for the return, or are you willing to take the plunge to suit your business needs?
- Bob Lewis: Do exercises that try to instill an appreciation for the perspective of various identifiable groups work, or do they just make the problem worse by emphasizing the groups' characteristics to the detriment of the individuals'?

Nicholas Petreley: We are willing accomplices to the negligent software publishers because we tolerate inferior software. Do you see a bright future for software, or will everyone take bugs and security holes for granted?

#### **OPINIONS**

▶ Dan Briody: Why did Intel blame PC makers for the delay of its own Mobile Pentium III chip? And who should we believe, Intel or the OEMs?

#### INTERVIEW

▶ Steve Kiely: In the age of Web site outages, the CEO of Stratus Computer talks about why such mission-critical systems will increasingly depend upon a solid server infrastructure of fault-tolerant systems.

#### **Newsletters**

Go online to subscribe to any or all of our six e-mail newsletters.

- ➤ From the Ether, by Bob Metcalfe
- ► Notes from the Field, by Robert X. Cringely
- ► Security Watch, by Stuart McClure
- and Joel Scambray
  ► The Tweney Report,
  by Net Prophet
- Dylan Tweney ► Wireless World,
- by Dan Briody ► The Linux Report



## **INTRANETS & I-COMMERCE**

#### **NET PROPHET · DYLAN TWENEY**

# The 'e's have it: learning to spell the new economy

TOP THE INSANITY. I'm drowning in a sea of "e"s.

It all started innocently enough. "Ecommerce" was an understandable, pronounceable abbreviation for "electronic commerce."

But then people started adding the "e" prefix to one damn thing after another. IBM started talking about e-business. Hewlett-Packard helped Microsoft launch eChristmas.com and then went on to offer e-Services. Then came an avalanche of e-terms, both literal and poetic: eToys, eBay, E-Loan, eConcert, eMachines, and even eEye.

This e-mania has reached its apex of

ridiculousness in the term e-conomy. You can almost hear the pundits patting themselves on the back for coining that one.

And yet — hello? — this isn't even a new word. Someone just dropped a hyphen into a perfectly good English word — one that already began with "e," in case you hadn't noticed.

I, for one, have had e-nough.

Yet, as a pundit myself, I have a professional obligation to coin terms. Besides, I want to help shore up the embattled forces behind the "I" prefix, short for "Internet," of course. (InfoWorld, bucking the trend, has long preferred "I-commerce" to "e-commerce.")

Thus, in the spirit of rampant neologisms, I propose that we call the next-generation Internet the I-nternet.

The term I-nternet, of course, refers to the fact that now even the Internet itself isn't immune to the disruptive, decentralizing forces of the Internet.

Three recent battles over Net technologies — the DNS, instant messaging, and Web page annotations — illustrate the point.

The Internet's DNS, the key to readable Net addresses, has long been administered by a single government contractor, Network Solutions Inc. (NSI). The U.S. government proposed a more open, decentralized system, to be organized by the nonprofit Internet Corporation for Assigned Names and Numbers (ICANN). Yet ICANN is proving itself incapable of creating a workable alternative, and NSI meanwhile remains firmly in control.

In other words, the entire I-nternet, which ostensibly empowers small companies to compete with the biggest ones, is being held hostage by a single government contractor.

Another I-nternet attraction is the topsyturvy farce of Microsoft lashing out at America Online for refusing to make its chat client, AOL Instant Messenger, interoperable with Microsoft's chat client, MSN Messenger.

Microsoft's chat client, wish Messenger.

Microsoft, the champion of openness? Give me a break. At no point has Microsoft offered to open its own chat client to AOL or anyone else — openness only goes one way here.

On the I-nternet, "openness" may be nothing more than a verbal cudgel wielded by the public relations groups in big corporations.

And yet, once in awhile something comes along that really does open things up a bit. One such technology is Third Voice (www.thirdvoice.com), a browser add-on that lets anyone stick virtual Post-it Notes on any Web page, for the whole world to see.

Third Voice has provoked strong reactions. The company and its proponents call the plug-in a powerful tool for free speech. Yet Web publishers are aghast that their Web sites are getting "tagged" by Third Voice graffiti.

Nowadays, when everything starts with an "e," the Web itself almost seems passé. That's why I'm glad there are still new technologies capable of provoking outrage and debate.

Does the I-nternet really have revolutionary potential left in it, or is it e-business as usual? Write to me at dylan@infoworld.com.

Dylan Tweney is the content development

# With a Caché database license, you can speed up your development.

With Caché, the post-relational database, you can develop complex applications so fast it's like owning a "License to Speed."

With advanced object and Web technologies, Caché can dramatically speed up your time-tomarket. But Caché gives you more than a rapid application development environment.

Once deployed, Caché-based applications are so fast we've had customers get up to a 20x boost in SQL performance after switching their database. And without changing a single line of application code.



Do you still peddle applications that run on a relational database engine?



All this is made possible by Caché's multidimensional data server and application server, offering you multiple ways to access data, multidimensional storage architecture, scalable performance, plus richer technology for faster Web and object development.

Caché comes from InterSystems, the leader in high-performance database systems, with over 2,000,000 licensed users worldwide, 20 years of database experience, and 24 x 365 support.

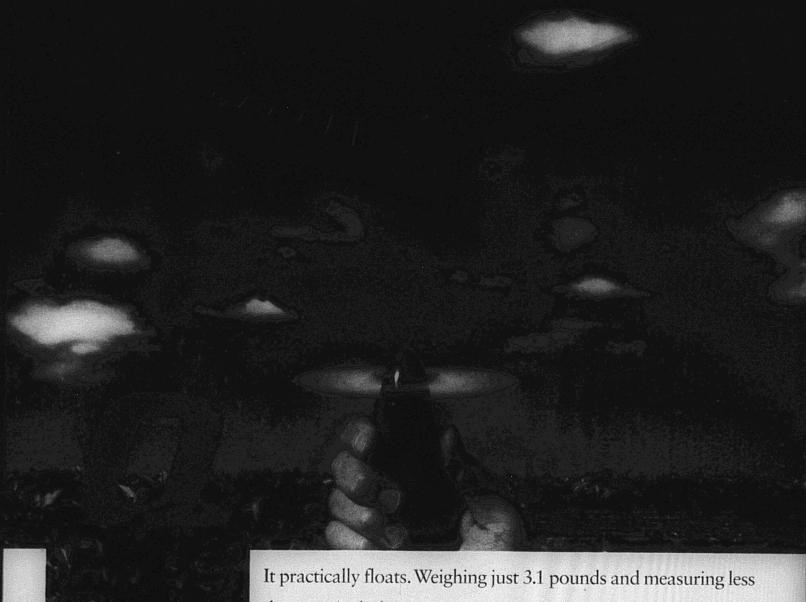
If you want to speed things up, start by moving quickly to call us at 1-800-753-2571. We'll rush information to you about the DBMS that is so advanced, it won the "Best New Database of 1998" award.



www.LicenseTeSpeed.com One Memorial Drive, Cambridge, Massachusetts 02142 1.800.753.2571

© 1999 InterBystems Corporation. All rights reserved. Caché and "License To Speed" are registered trademarks of InterBystems Corporati





Light?

It practically floats. Weighing just 3.1 pounds and measuring less than one inch thin, our new svelte Compaq Armada M300 was truly designed to meet the needs of your most frequent travelers. Built with Intel® mobile processors, its performance is anything but lightweight. An optional Mobile Expansion Unit frees your travelers from having to deal with the hassle

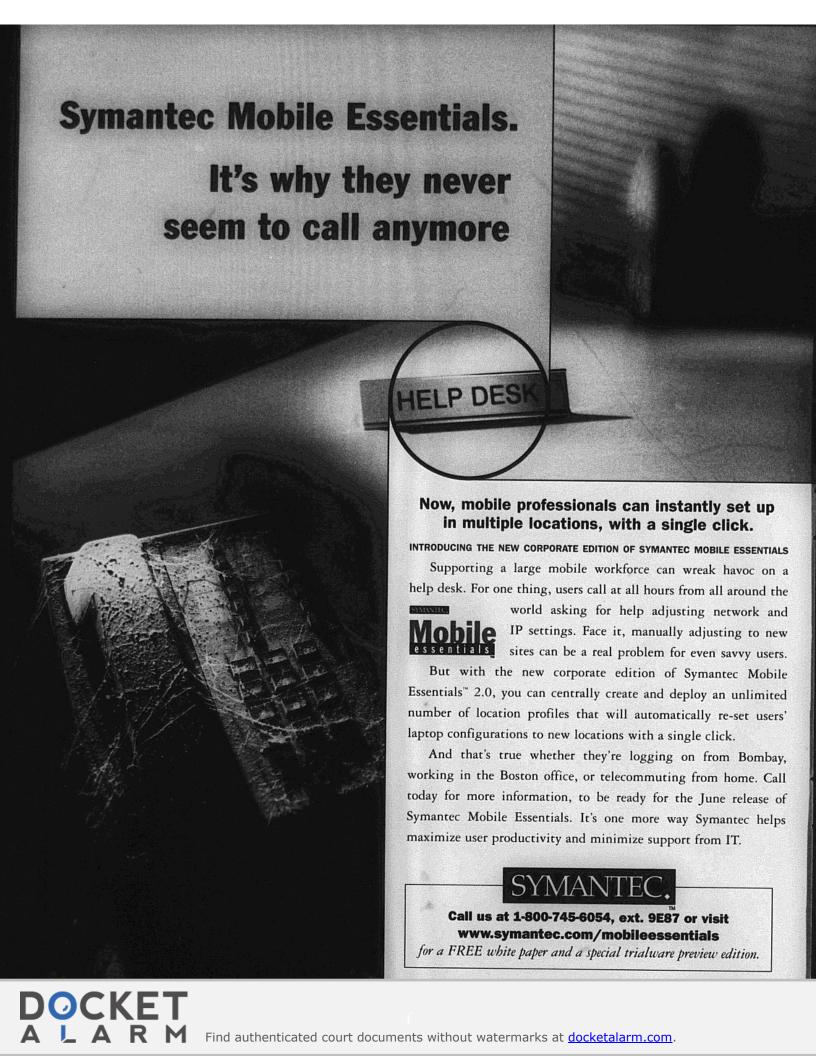
of wires. While a choice of common docking solutions offers you flexibility and investment protection. And, like every Armada, it features Intelligent Manageability that simplifies network management. No wonder our whole Armada line has literally flown off the shelves. Any questions? Call 1-800-AT-COMPAQ. Or visit us at www.compaq.com/armada.

COMPAQ

Better answers."

Armada M300 Series at \$1,999\* 
eron processor 333 MHz • 11.3" color TFT display





# DOCKET

# Explore Litigation Insights



Docket Alarm provides insights to develop a more informed litigation strategy and the peace of mind of knowing you're on top of things.

## **Real-Time Litigation Alerts**



Keep your litigation team up-to-date with **real-time** alerts and advanced team management tools built for the enterprise, all while greatly reducing PACER spend.

Our comprehensive service means we can handle Federal, State, and Administrative courts across the country.

#### **Advanced Docket Research**



With over 230 million records, Docket Alarm's cloud-native docket research platform finds what other services can't. Coverage includes Federal, State, plus PTAB, TTAB, ITC and NLRB decisions, all in one place.

Identify arguments that have been successful in the past with full text, pinpoint searching. Link to case law cited within any court document via Fastcase.

### **Analytics At Your Fingertips**



Learn what happened the last time a particular judge, opposing counsel or company faced cases similar to yours.

Advanced out-of-the-box PTAB and TTAB analytics are always at your fingertips.

#### API

Docket Alarm offers a powerful API (application programming interface) to developers that want to integrate case filings into their apps.

#### **LAW FIRMS**

Build custom dashboards for your attorneys and clients with live data direct from the court.

Automate many repetitive legal tasks like conflict checks, document management, and marketing.

#### **FINANCIAL INSTITUTIONS**

Litigation and bankruptcy checks for companies and debtors.

#### **E-DISCOVERY AND LEGAL VENDORS**

Sync your system to PACER to automate legal marketing.

