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News Headlines

9976: **Greg Papadopoulos Named as 2003 InfoWorld Innovator**

InfoWorld released its 2003 list of innovators who have advanced IT. Of the 16, Greg Papadopoulos, Executive Vice President and CTO of Sun, is being honored for his work on computer systems. The InfoWorld article by Tom Yager traces the career path of Papadopoulos from HP in the 1970s to Sun in the 1990s.

9984: **Services Bundle Lease Promotion from Sun Microsystems Finance**

Get the Sun equipment and services you need and take advantage of interest-free financing on the services. The Services Bundle Lease plan makes acquiring your complete technology solution more affordable. The promotional offer is only available until June 30, 2003.

9992: **SolNet Provides Australian Book Manufacturer with a Solution to Cope with Growth**

When Australian book manufacturer, Ligare, needed to implement a standard operating environment that would support multiple users across the company's three offices, they chose Sun iForceSM partner SolNet to architect a thin client solution using Sun hardware and software. The thin client solution was chosen for its ability to reduce the company's costs and complexity while delivering session portability, mobility and security.



Events Headlines

9952: **Enterprise Linux Forum Conference & Expo 2003**

The Enterprise Linux Forum Conference & Expo 2003 will be held June 4-6, in Santa Clara, California. It aims to provide IT and business professionals with an understanding of all the issues and benefits related to the application of Linux and Linux-based datacenter solutions in the enterprise.

Focus On . . . JavaOneSM Conference 2003

The JavaOneSM Conference begins in only a few days. For a basic overview of the event, check out article number [9720]. Article number [9880] looks at the eight main topics of focus for this year. For conference speakers and experts who will be present, see article number [9731]. Coverage of ten of the more intriguing destinations for enterprise developers at the conference is supplied in article number [9879].

The Java UniversitySM program will be available before the JavaOne conference begins to help prepare candidates for some Java technology certification exams. See article number [9891]. For a look at some of the Hands-on-Labs see article [9889]. For coverage of Web Services sessions, see article numbers [9729] and [9931].

Birds-of-a-Feather (BoF) sessions will abound at this year's event; see article numbers [9757] and [9832] for coverage of the general sessions, article number [9932] for some Web Services BoFs and article number [9806] for Jonathan Knudsen's top wireless picks. For the Java coding challenge at the conference see article [9937].

9965: **65th EAGE Conference & Exhibition**

The 65th Annual Conference and Exhibition of the European Association of Geoscientists and Engineers (EAGE) will be held June 2-5, in Stavanger, Norway. With a theme of "Geoscience, and its Role in Society" at this year's meeting, the event will focus on the human aspects of the profession and the importance of geosciences to society through presentations and discussions.

9969: **Internet World UK 2003**

Internet World UK 2003 will be held in London, England, from June 3-5. The conference is designed to help attendees move their businesses to the next level of performance and profits. This multi-dimensional event will be comprised of six integrated shows and over 250 exhibitors, with three pillar events taking place at the same time.

Publications Headlines

9866: **"Mac OS X for JavaTM Geeks"**

O'Reilly has released the new book, "Mac OS X for JavaTM Geeks," which aims to be a study of the Mac OS X written specifically for Java programming language developers. The book can be used by both new and experienced developers who want to learn more about the Mac OS X tool set and Web Services.

9899: "Solaris™ Operating Environment Boot Camp"

The new book "Solaris™ Operating Environment Boot Camp" offers detailed techniques for getting more from the Solaris OS. The text aims to offer comprehensive coverage of Solaris OS system administration.

9907: "Expert Oracle9i Database Administration"

Experienced Oracle Database Administrator, Alapati, covers building and managing complex Oracle9i databases in his 1248-page book, "Expert Oracle9i Database Administration." The book is suitable for beginner or intermediate level Oracle DBAs or Oracle Developer/Managers.

9947: "Learning UML"

The new book "Learning UML," by Sinan Si Alhir, tries to help readers understand and eventually master Unified Modeling Language (UML). The text focuses on the language, while trying to stay away from the methodology, and offers a direct and to-the-point presentation.

Java Technology Headlines

9934: "The Java Tutorial: A Practical Guide for Programmers"

A group of lessons by Mary Dageforde focuses on security in Java™ 2 Software Development Kit (SDK) 1.2. "The Java Tutorial: A Practical Guide for Programmers" teaches readers how to use tools, how the built-in Java™ technology security features protect a user from malevolent programs and more.

9935: Security Aspects of Creating Java Web Services

Chapter 18 from the Java™ Web Services Tutorial focuses on security. Authors Debbie Bode Carson and Eric Jendrock talk about deployment descriptors, authorization and the authentication service of the Tomcat server.

JavaOne Headlines

9932: 22 Birds-of-a-Feather Sessions on Web Services

The BOFs focusing on Web Services cover many technologies such as Java™ API for XML-based RPC (JAX-RPC), Java™ 2 Platform, Enterprise Edition (J2EE™) Connector Architecture, .NET, Java™ Specification Request (JSR) 181 and more.

9937: Join the Coding Challenge at the JavaOne Conference

Sun and TopCoder Inc. are bringing a coding challenge to the JavaOne Conference. Attendees will use the Java programming language to solve real-world problems in the three major themes for the 2003 JavaOne Conference — Mobility, Enterprise Applications and Web Services.

Storage Headlines

9963: Sun Storage Migration Services: Two Phases

If you are planning a complex migration from one storage system to another, Sun Storage Migration Services can help make the migration successful. This service is designed for large Sun customers who are planning to install configurations of the Sun StorEdge™ T3 array, Sun StorEdge™ 3xxx series, Sun StorEdge™ 6xxx series and Sun StorEdge™ 9900 series storage systems. The service consists of two phases, the assessment phase and the implementation phase.

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System News' three magazine formats allow you to quickly find and to read in detail information about Sun Microsystems and its products.

- PDF News Magazine: An Adobe Portable Document Format file that includes in its front section summaries of the week's articles; subsequent sections contain detailed articles.
- Text News Magazine: Plain text email that provides brief summaries with links to full articles online.
- Web News Magazine: Full articles in HTML format. In addition, the Web version includes a searchable archive of all previous editions and links to the original material that the news magazine reports were based on.

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For more information about subscription and customization, see the back page.

About System News Inc. (SNI)

This news magazine is produced and distributed by System News Inc. (SNI). SNI also produces editions of this magazine for Sun Microsystems and for certain iForce™ Partners.

SNI has evolved and streamlined its product line of innovative communication tools since its inception in 1997 with more sections than ever, covering news about Sun products and services. Visit the System News Web site at:

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How to Get More System News Online

Most articles in this news magazine are numbered so you can get more information on them. To follow up on an article, type its number into the Web site:

http://www.SystemNews.com

The Web site is updated weekly and also offers a search engine, an archive and more details on the articles.

You can also send email to:

sun@systemnews.com

with article numbers, separated by commas, in the subject line.

9953: **Trade Up Certain Sun StorEdge™ Products and Get a Free Assessment**

SunSM Services is participating in the Trade Up, Consolidate and Save program and offering a one-day assessment service at no charge to customers participating in the IBB trade-up promotion of trading-in Sun StorEdge T3 arrays, Sun StorEdge™ A3500 series systems, Sun StorEdge™ A5000 series systems for specific Sun StorEdge™ 6120 or Sun StorEdge™ 6320 system configurations.

9884: **Sun StorEdge™ Enterprise Backup Software**

Sun StorEdge™ Enterprise Backup software (formerly Solstice Backup™ software) automates data backup and recovery. Features include granular-level restore, automated media management and heterogeneous platform support.

9887: **Sun StorEdge™ Enterprise Storage Manager Software**

Sun StorEdge™ Enterprise Storage Manager software helps improve the availability and uptime of a Sun Open storage area network (SAN) infrastructure. The software provides a consolidated view of essential SAN management services, helping to streamline operational activities, improve efficiencies and reduce storage management costs.

9958: **LTO Gen 2 LVD SCSI Drive for the Sun StorEdge™ L25 and Sun StorEdge™ L100 Tape Libraries**

The LTO Gen 2 LVD SCSI drive for the Sun StorEdge™ L25 and Sun StorEdge™ L100 tape libraries expands the capacities of the tape libraries. The drive has 200 GB/cartridge native capacity and 30 MB/sec native throughput, allowing more data to be stored on each cartridge, and faster transfer of data to/from each cartridge.

Sun ONE Headlines

9941: **Technical White Paper: Sun™ ONE Portal Server, Secure Remote Access**

The technical white paper for developers and deployment engineers on the Sun™ ONE Portal Server, Secure Remote Access (formerly iPlanet™ Portal Server) describes the key components of the software with respect to their roles in providing secure remote access to corporate intranet resources from outside the intranet. It covers the components such as the Gateway, Netlet and NetFile.

9974: **Sun™ ONE Application Server 7 Downloads**

Some of the downloads for the Sun™ ONE Application Server 7 (formerly the iPlanet™ Application Server) include an upgrade that is integrated with the Solaris™ 9 Operating System (Solaris OS), NSS/NSPR components, an assembly tool, a Web server proxy plug-in and more.

Developer's Section Headlines

9832: **Improving Translation with XLIFF**

XML Localization Interchange File Format (XLIFF) is used for exchanging localization data. Translators often get files in many different formats, making translation more complex. XLIFF removes the complexities of localizing different types of source files by separating localizable text from formatting. It also gives localization engineers a common platform for localization. It enables software companies to exchange data with localization vendors.

9970: **Understanding Locale in the Java™ Platform**

John O'Conner, staff engineer specializing in Java technology internationalization, explains locales, classes that are affected by the locale, locale constructors, using locales and more.

Oracle Headlines

9964: **Consolidating? Learn Why Sun and Oracle are the Best Choice**

The Oracle and Sun Alliance Web page now offers resources that illustrate why Sun and Oracle are the best choice when consolidating servers and groups of common applications. Learn the elements of a successfully operating IT center and how Sun and Oracle provide them. Sun and Oracle also provide the best-in-class hardware and software and the experience you can trust.

9957: **Best Uses of Java Technology Stored Procedures and Oracle PL/SQL**

Stored procedures allow a set of database operations to be processed in one call. The Oracle white paper "Unleashing the Power of Java Stored Procedures" discusses when it is best to use Oracle PL/SQL or Java technology stored procedures. Which one to use depends on skills of programmers at a company and application requirements.

9959: **Bankers Automated Clearing Services Chooses Oracle and Sun**

Bankers Automated Clearing Services (BACS), the clearinghouse that enables electronic payments for the entirety of the UK, recently needed to upgrade to a solution that could handle the projected five billion transactions the company expects to conduct annually by 2005. BACS turned to SunPlex™ systems and the Oracle*gi* Real Application Clusters to solve its problems.

Java Technology Solutions Headlines

9917: **SafeNet Announces New SafeEnterprise Security System**

SafeEnterprise Security System provides a single, dedicated application for securely managing appliances for ATM, Frame, Link and IP networks. It is a flexible, scalable and complete WAN and VPN system for integrated high assurance network security. It leverages existing infrastructures.

9918: **Dynamic Fleet Logistics Solution Provides Location-based Services**

A joint solution combining ObjectFX's software platform, SpatialFX, with TD Fleet scalability and processing components from TransDecisions, provides a tool that supports operations management for transportation companies. This logistics solution is Java technology-based and utilizes real-time location-based information such as the movement of drivers, service personnel, equipment and inventory.

9945: **Covalent Application Manager**

Covalent Application Manager (CAM) is a Web application management solution designed specifically for IT Operations. CAM presents one integrated application view by automatically discovering and then correlating multiple components of a Web application. It aims to increase utilization of the Web infrastructure and improve service levels.

9976: **Greg Papadopoulos Named as 2003 InfoWorld Innovator**

Systems and N1

InfoWorld released its 2003 list of innovators who have advanced IT. Of the 16, Greg Papadopoulos, Executive Vice President and CTO of Sun, is being honored for his work on computer systems. The InfoWorld article by Tom Yager traces the career path of Papadopoulos from HP in the 1970s to Sun in the 1990s.

He and Sun are working on connecting every device to a network, "Programmers realize that things just got 1,000 times harder because an application can have 1,000 processors that it has to get to work together," Papadopoulos said.

"Network computing has been a consistent vision throughout Sun's history," Papadopoulos said. "The work that I'm doing on N1 is similar to what I did in the past with Java™ 2 Platform, Enterprise Edition (J2EE™). I moved our development focus from Java™ technology as a Web language to Java as the way we solve enterprise problems. Now networks are heterogeneous, parts are coming and going, and they're parts not just from us but from other people. That's why Sun is so focused now on the virtualization layer."

Yager also talks about Sun's N1 vision which will connect the major components in the data center. For more details on N1, see article numbers 8987 and 8623 in this news magazine's archive.

[For more details click here or see article \[9976\] on the Web](#)

9984: **Services Bundle Lease Promotion from Sun Microsystems Finance**

Interest-free Financing on the Services

Get the Sun equipment and services you need and take advantage of interest-free financing on the services. The Services Bundle Lease plan makes acquiring your complete technology solution more affordable. The promotional offer is only available until June 30, 2003.

The lease plan combines costs into a single payment at a competitive rate. Another benefit is the budget predictability it provides by spreading services costs over the lease term. You can also avoid large capital outlays.

To get all the details on this limited-time lease offer contact your local Sun representative or call Sun Microsystems Finance at (800) 735-5786.

This offer available as a lease through Sun Microsystems Finance (SMF) in the U.S. All leases subject to SMF credit approval.

http://www.sun.com/sales/leasing/bundled_lease.html

[For more details click here or see article \[9984\] on the Web](#)

9992: **SolNet Provides Australian Book Manufacturer with a Solution to Cope with Growth**

Smart Cards Provide Mobility, Open Source Saves Money

When Australian book manufacturer, Ligare, needed to implement a standard operating environment that would support multiple users across the company's three offices, they chose Sun iForce™ partner SolNet to architect a thin client solution using Sun hardware and software.

The thin client solution was chosen for its ability to reduce the company's costs and complexity while delivering session portability, mobility and security.

SolNet's solution implements smart cards, 20 Sun Ray™ 1 thin clients, and two Sun Fire™ 280R servers with shared storage via a Sun StorEdge™ D2 storage array. They are also using Sun's StarOffice™ Software Productivity Suite and Oracle's manufacturing applications suite, mPowered Manufacturing pre-configured on Sun's hardware.

"Ligare has grown rapidly over the past 20 years," said Ligare Information Systems Manager, Dominic McDonald. "Like many other small to medium sized enterprises, the organization had historically taken an ad-hoc approach to the development of its IT infrastructure adding individual components as and when needed."

Ligare used the Technology Refresh finance option which provided them with an economical and flexible alternative to the outright purchase of IT equipment.

"This solution is a great example of Sun's iForce Partner program at work. Sun's partnership with SolNet has resulted in a cost-effective solution that is easy to manage and delivered better results for Ligare," said Paul O'Connor, Director Partner Sales, Sun.

[For more details click here or see article \[9992\] on the Web](#)

Sun Mainframe Rehosting Free Application Assessment

Sun Mainframe Rehosting is a flexible and scalable alternative to mainframes. Sign up for a free assessment to see how Sun Mainframe Rehosting can give your enterprise an advantage by:

- Preserving the customized CICS and batch code that gives your business a competitive advantage.
- Leveraging existing personnel and mainframe skill sets to minimize disruption.
- Integrating with existing third-party packages and frameworks.
- Reducing TCO costs up to 50 percent or more with a return on investment typically between 12-24 months.

See the following URL to register for a free assessment:

<http://www.sun.com/datacenter/mainframe/mfrq.cgi>

Calendar of Events–US and Online		Details Available Online	
Article	Date	Event	Location
9834	June 1-3	June 2003 NANOG28 Meeting	Salt Lake City, UT
9828	June 1-5	SUPERCOMM 2003	Atlanta, GA
9952	June 4-6	Enterprise Linux Forum Conference & Expo 2003	Santa Clara, CA
9375	June 8-10	JA-SIG uPortal Conference	Denver, CO
9833	June 9-10	HIMSS Summer Conference 2003	Chicago, IL
9900	June 9-12	Retail Systems 2003/VICS	Chicago, IL
9674	June 9-14	USENIX Annual Technical Conference	San Antonio, TX
8777	June 10-13	JavaOne SM Conference	San Francisco
8779	June 17-19	SIA Technology Management Conference	New York City
9281	June 18-20	CeBIT America	New York City
9905	June 23-26	ClusterWorld Conference & Expo	San Jose, CA
9718	June 23-27	Worldwide Developers Conference 2003	San Francisco
9218	June 27-29	ServerSide Symposium	Boston, MA
9784	June 29 - Jul. 2	NECC 2003	Seattle, WA
9365	July 7-11	2003 O'Reilly Open Source Convention	Portland, OR
9673	July 7-11	ESRI International User Conference	San Diego, CA
9611	Oct. 23-24	St. Louis e-Security Conference 2003	St. Louis, MO

Calendar of Events–Non-US		Details Available Online	
Article	Date	Event	Location
9965	June 2-5	65th EAGE Conference & Exhibition	Stavanger, Norway
9969	June 3-5	Internet World UK 2003	London
9896	June 22-23	HPC Consortium	Heidelberg
9347	June 23-26	Oracle AppsWorld EMEA	London
9897	June 24-27	International Supercomputer Conference	Heidelberg
9910	June 29 - Jul. 3	International Conference on Intelligent Systems for Molecular Biology	Brisbane
9717	June 30-Jul. 3	2003 LISA Forum Europe	London
9783	July 2-4	Eunis 2003	Amsterdam
9835	July 23-26	Ottawa Linux Symposium	Ottawa
9617	July 28-30	International Web Services/XML Conference & Expo	Toronto
9835	Aug. 9-17	Linuxbierwanderung 2003	Tajov, Slovakia

9952: Enterprise Linux Forum Conference & Expo 2003

The Enterprise Linux Forum Conference & Expo 2003 will be held June 4-6, in Santa Clara, California. It aims to provide IT and business professionals with an understanding of all the issues and benefits related to the application of Linux and Linux-based datacenter solutions in the enterprise.

The conference is geared toward those business executives, IT professionals and decision makers from Global 2000 organizations and mid-sized businesses who utilize Linux as a cost-effective platform.

Attendees at the forum will be able to:

- See the entire range of Linux solutions now available in the marketplace
- Discover how to assess a company's need for a particular class of Linux solution
- Gain knowledge of all the options for Linux usage in server consolidation
- Gauge the readiness of Linux as an enterprise-scale server OS

[For more details click here or see article \[9952\] on the Web](#)

9965: 65th EAGE Conference & Exhibition

The 65th Annual Conference and Exhibition of the European Association of Geoscientists and Engineers (EAGE) will be held June 2-5, in Stavanger, Norway. With a theme of "Geoscience, and its Role in Society" at this year's meeting, the event will focus on the human aspects of the profession and the importance of geosciences to society through presentations and discussions.

The conference program will encompass a broad program of oral and poster sessions covering the geosciences and related engineering. Many of the sessions will address multi-disciplinary subjects and case studies, which will remain in line with the central theme of the EAGE.

Also included with the technical sessions will be a series of workshops, field trips, the DISC course and the exhibition. Some 200 exhibitors will present their technology and associated services, including Sun Microsystems AS of Norway, and provide the opportunity for clients to discuss business and technology needs.

[For more details click here or see article \[9965\] on the Web](#)

9969: Internet World UK 2003

Internet World UK 2003 will be held in London, England, from June 3-5. The conference is designed to help attendees move their businesses to the next level of performance and profits. This multi-dimensional event will be comprised of six integrated shows and over 250 exhibitors, with three co-located events taking place at the same time.

Five individual theaters at the event will each hold real end-user case studies and demonstrations on how attendees can get the most out of the Internet. These are specifically programmed to be technically accessible to everyone to better demonstrate the business benefits offered by the Internet.

Three pillar events taking place at the same time as, and in conjunction with, Internet World, include:

- Mobile Enterprise Event 2003
- Smarter Business Expo 2003
- OutsourceWorld

An Executive Track will be comprised of individual sessions which take place across the whole program and consist of 11 theaters. The Executive Track sessions are hand-picked from the numerous individual seminars, keynotes and case studies and are designed for company executives to provide an overview of the major business critical issues, Internet business technologies and mobile wireless solutions.

[For more details click here or see article \[9969\] on the Web](#)

9963: Sun Storage Migration Services: Two Phases

From Project Planning to Testing and Sign-off

If you are planning a complex migration from one storage system to another, see how the Sun Storage Migration Services can help make the migration successful by minimizing risks. This service is designed for large Sun customers who are planning to install configurations of the Sun StorEdge™ T3 array, Sun StorEdge™ 3xxx series, Sun StorEdge™ 6xxx series and Sun StorEdge™ 9900 series storage systems. The service consists of two phases, the assessment phase and the implementation phase.

The assessment consists of the migration planning workshop, identification of appropriate tools and facilities and the project planning. The planning workshop is held with key customer representatives to gather information such as configuration of existing equipment, server dependencies and application impact and server software inventory. They also review existing backup and recovery scheme for use in risk management plan, and identify additional hardware required during the migration process.

The implementation phase consists of the migration itself, testing and customer hand over. The implementation service is a custom priced service which depends on the amount of data to be migrated and the number of hosts attached to the storage devices. The Sun project team manages and augments resource requirements for execution of the project plan. These requirements are represented in the migration strategy document. Testing and sign-off procedures are developed and executed.

For more details click [here](#) or see article [9963] on the Web

9953: Trade Up Certain Sun StorEdge Products and Get a Free Assessment

Limited-time Offer

SunSM Services is participating in the Trade Up, Consolidate and Save program. Consolidate and trade-in Sun StorEdge T3 arrays, Sun StorEdge™ A3500 series systems, Sun StorEdge™ A5000 series systems and receive up to a 35 percent trade-in value towards specific Sun StorEdge™ 6120 or Sun StorEdge™ 6320 system configurations.

To assist customers with the platform migrations, Sun Services is offering a one-day assessment service at no charge to customers participating in the IBB trade-up promotion. This is a limited offer and is only available for orders placed during the promotion period May 20, 2003, to September 30, 2003, or until allocated systems are consumed.

A one-day service will meet the requirements for customers replacing a storage system with two or less hosts attached to the storage device. If you are replacing a system with three or more hosts attached, Sun will charge for the assessment service at a reduced price (one day of the engagement will be no charge). This promotion is for the Assessment Service only, not the Implementation Service. This service is only available to customers qualifying for and taking advantage of the IBB trade-up promotion. For details of the services, see article number 9963 in this issue of the news magazine.

For more details click [here](#) or see article [9953] on the Web

Test Storage Software with Solaris™ 9 Operating System

Sun's updated Solaris™ 9 Operating System (Solaris OS) is offered with bonus software to make it easier for Solaris OS customers to experience the benefits available to them from Sun Storage. The bonus software includes Sun's advanced, policy-based file system, Sun StorEdge™ Performance Suite software (featuring Sun StorEdge™ QFS), Sun StorEdge™ Availability Suite software, and Sun StorEdge QFS software. The bonus software can be downloaded into Solaris OS customers' test sites for evaluation.

"As the demand for simple storage management on the operating system increases, Sun is making it easier for its current customers to test storage software for free in their environments," stated James Staten, director of software and data continuance marketing, Sun Storage. "Our commitment is to provide customers with the storage service levels when they need them, with a positive impact in the areas of scalability, availability, manageability and security."

In addition, the updated Solaris 9 OS includes new advances in scalability through an improved version of UFS, enabling file systems of up to 16 TB in size for the operating environment, far surpassing the 1 TB limit that was standard in the Solaris OS marketplace. Other new features of Solaris 9 OS include new management features and improvements in Web browsing, email connectivity, network connectivity and language support making Solaris OS an even better global platform for service delivery, both as a server and as a desktop system.

To find out more on complete storage solutions from Sun please visit:

<http://www.sun.com/storage>

9884: Sun StorEdge™ Enterprise Backup Software

Protect Storage Assets and Minimize Downtime

Sun StorEdge™ Enterprise Backup software (formerly Solstice Backup™ software) automates data backup and recovery. Features include granular-level restore, automated media management and heterogeneous platform support.

The software offers advanced indexing, high-speed parallelism, LAN-free and serverless backup, cluster awareness, comprehensive NDMP (Network Data Management Protocol) support and dynamic tape drive sharing.

The Sun StorEdge Enterprise Backup software's Application Modules deliver "hot" backup and granular recovery for Oracle, Microsoft SQL Server, IBM DB2, IBM Informix, Sybase, Microsoft Exchange, IBM Lotus Notes/Domino and SAP.

Sun StorEdge Enterprise Backup software 7.0 is available in four editions. Various options are available for extending coverage, capability and throughput.

System Architecture

Sun StorEdge Enterprise Backup Software has a client/server architecture comprised of three distinct functions: Client, storage node and server.

The data protection process is encompassed in a data zone, which is the collection of clients, storage nodes and data protected by a single Sun StorEdge Enterprise Backup software backup server. A software data zone can be collectively administered with a single set of storage management policies and procedures.

The processing responsibilities are effectively "shared" between the client and the server. This provides the ability to harness the distributed network computing model to provide a flexible backup operation.

For more details see:

http://www.sun.com/storage/software/data_services/backup/details.html

For more details click here or see article [9884] on the Web

9887: Sun StorEdge™ Enterprise Storage Manager Software

Simplify Sun Open Storage Area Network Infrastructure

Sun StorEdge™ Enterprise Storage Manager software helps improve the availability and uptime of a Sun Open storage area network (SAN) infrastructure. The software provides a consolidated view of essential SAN management services, helping to streamline operational activities, improve efficiencies and reduce storage management costs. The Sun™ Open Net Environment (Sun ONE) Web-based management infrastructure allows for any time, anywhere access.

The software offers 24x7 proactive health monitoring, event notification, fault identification and recommendations for recovery. Manage the various elements of the SAN with the SAN topology management and reporting services. The software is compliant with SNIA's Storage Management Initiative Specification (SMIS) for providing standards-based discovery and device management support for open storage management.

Features

- Broad device support, single management console for viewing frequently accessed information
- Fault isolation features for faster servicing of faults
- Customizable notification services
- Wizard-based configuration of Sun StorEdge T3 array management
- Modular architecture
- Integrated Storage Management Services
- Link-n-Launch integration with Sun™ Management Console
- Real-time health monitoring of managed devices
- In-context health diagnostics

For more details click here or see article [9887] on the Web

9958: LTO Gen 2 LVD SCSI Drive for the Sun StorEdge™ L25 and Sun StorEdge™ L100 Tape Libraries

200 GB/Cartridge Native Capacity

The LTO Gen 2 LVD SCSI drive for the Sun StorEdge™ L25 and Sun StorEdge™ L100 tape libraries expands the capacities of the tape libraries. The drive has 200 GB/cartridge native capacity and 30 MB/sec native throughput, allowing more data to be stored on each cartridge, and faster transfer of data to/from each cartridge.

The LTO Gen 2 LVD SCSI drive is read/write compatible with LTO Gen 1. In order to realize the LTO Gen 2 specs, LTO Gen 2 tape cartridges must be utilized. With LTO Gen 2 drives in the Sun StorEdge L25 and Sun StorEdge L100 libraries, specifications are as follows:

	Cart. Count	Drives	Max. Capacity	Max. Throughput
Sun StorEdge L25	25	1-2	5 TB	60 MB/s.
Sun StorEdge L100	100	1-5	20 TB	150 MB/s.
Sun StorEdge L100	87	6	17.4 TB	180 MB/s.

The LTO Gen 2 drive offers extended capacity and increased throughput over the first generation LTO:

	Sun StorEdge L25	Sun StorEdge L100
LTO 1 max native capacity	2.5 TB	10 TB
LTO 2 max native capacity	5 TB	20 TB
LTO 1 native thrput/drive	15 MB/sec	15 MB/sec
LTO 2 native thrput/drive	30 MB/sec	30 MB/sec
LTO 1 max native thrput	30 MB/sec	90 MB/sec
LTO 2 max native thrput	60 MB/sec	180 MB/sec

For more details click here or see article [9958] on the Web

Transition of Sun StorEdge™ 9840 SCSI and 9840 FC Drive

The Sun StorEdge™ 9840 SCSI and Sun StorEdge™ 9840 FC Drive for the Sun StorEdge™ L180, Sun StorEdge™ L700, Sun StorEdge™ L5500 & Sun StorEdge™ L6000 libraries are being transitioned off the Sun price list. The last order date is September 16, 2003, and the last ship date is November 15, 2003.

The replacement product is the Sun StorEdge™ 9840(B) FC drive, which can be used with existing libraries. The Sun StorEdge 9840(B) FC transfer rate is 19 MB/sec vs. 9 MB/sec for the Sun StorEdge 9840(A) FC. The Sun StorEdge 9840(B) FC also allows for 2 Gb full fabric connectivity whereas the Sun StorEdge 9840(A) FC does not.

SunSM Upgrade Advantage Program (UAP) is applicable on Sun StorEdge 9840(B) FC tape drives the above listed tape drive systems. For additional details on Sun UAP, please refer to:

<http://www.sun.com/upgrades>

<http://www.sun.com/ibb/upgrades/pathfinder>

"Analyzing Deadlocks Using the Solaris™ Operating System CAT"

Sun recently released the Solaris™ Operating System (Solaris OS) Crash Analysis Tool (CAT) to help analyze Solaris OS system core files. The document "Analyzing Deadlocks Using the Solaris Operating Environment CAT" explains how CAT can be used to analyze deadlock-related system crash dumps, such as values of structure members, details about threads, locks, their owners, etc. The document also discusses how to correlate the information retrieved from Solaris OS CAT macros to analyze the cause of system crashes/hangs. A basic knowledge of the Solaris OS is recommended for this document.

The document is available at:

<http://access1.sun.com/techarticles/CAT/deadlock.html>

9832: Improving Translation with XLIFF

Separating Text from Format for Localization

XML Localization Interchange File Format (XLIFF) is used for exchanging localization data. Translators often get files in many different formats, making translation more complex. XLIFF removes the complexities of localizing different types of source files. It also gives localization engineers a common platform for localization. It enables software companies to exchange data with localization vendors.

The goals of the XLIFF format are to:

- Separate localizable text from formatting
- Enable multiple tools to work on source strings and add to the data about the string
- Store information that is helpful in supporting a localization process

During localization, files are processed by tools such as translation memories and machine translation systems. Translation memory systems (TM systems) look up segments in a database containing a large number of previously translated segments and their translations and present the results to the translator. Machine translation systems (MT systems) use a set of language-specific linguistic rules that describe how to translate sentences into the target language. Translators review and edit these results as needed. Source formats tend not to have support for these localization processes.

XLIFF is a standard which makes localization engineering easier. First, converters are written for a source file format, then new tools are made to deal with the XLIFF format, without having to be concerned about the original file format. It also provides tags and attributes for review comments.

[For more details click here or see article \[9832\] on the Web](#)

9970: Understanding Locale in the Java™ Platform

Create Multilingual Java Technology Applications

Locales are identifiers for languages, regions and optional variant code. A Java™ technology application can have multiple locales active at the same time to create multicultural and multilingual Java technology applications. John O'Conner, staff engineer specializing in Java technology internationalization, explains locales, classes that are affected by the locale, locale constructors, using locales and more.

Locales affect user interface language, case mapping, collation (sorting), date and time formats, and number and currency formats. Different locales can be used for different parts of an application.

John O'Conner, staff engineer specializing in Java technology internationalization, explains locales, classes that are affected by the locale, locale constructors, using locales and more.

Locales contain only a few important members: a language code, an optional country/region code, and an optional variant code. These three elements provide enough information to other objects so that they can modify their behavior for a specific linguistic or cultural purpose. O'Conner provides details on each of these. He also covers the constructors in the locale class and how each can be used. There is a table of pre-constructed locales.

There is a section on how to determine supported locales in the runtime libraries. There are tables of some of the supported locales in `java.util` and `java.text` packages and more. O'Conner outlines how to retrieve the default locale.

For code, tables and technical details, see:

http://www.sun.com/developers/gadc/technicalpublications/articles/j2_locale.html

[For more details click here or see article \[9970\] on the Web](#)

Functions of the Sun™ ONE Application Server 7 Compared to the Sun™ ONE Web Server 6.0

For a comparison of the functions of the Sun™ ONE Application Server 7 and the Sun™ ONE Web Server 6.0 (both formerly iPlanet™ branded products), see the technical article by Jasen Meece and Marina Sum on the Sun ONE Developer Web page. The following is excerpted from their article:

"Sun ONE Application Server 7 is the ideal platform for deploying and monitoring complex Java™ 2 Platform, Enterprise Edition (J2EE™) applications and services on the Web, such as those built with Enterprise JavaBeans™ (EJB™) architecture. Specifically:

- Sun ONE Application Server 7, Platform Edition, a free product, includes a limited HTTP engine.
- Sun ONE Application Server 7, Standard Edition, a licensed product, is an enhanced edition with additional features that ease operations management and monitoring tasks and net a lower cost of ownership.

Sun ONE Web Server 6.0, a licensed product with a security-engineered architecture, is the best choice for developing enterprise Web sites, in particular those built with JavaServer Pages™ (JSP™), ASP, CGI and PHP technologies."

http://sunonedev.sun.com/building/tech_articles/as7vs6.html

9941: Technical White Paper: Sun™ ONE Portal Server, Secure Remote Access

The technical white paper for developers and deployment engineers on the Sun™ ONE Portal Server, Secure Remote Access (formerly iPlanet™ Portal Server) describes the key components of the software with respect to their roles in providing secure remote access to corporate intranet resources from outside the intranet.

The Sun ONE Portal Server, Secure Remote Access provides organizations with a secure portal which gives employees and others such as business partners, suppliers and the public, access to content, applications and data. Users can securely access their organization's network, applications and services that are available within the organization over a public network (the Internet).

The Sun ONE Portal Server, Secure Remote Access also provides secure access to file systems that reside within the organization's network. To provide these services, the software includes the following components:

- Gateway: This component listens on configured ports to accept both HTTP and HTTPS requests. The Gateway has two components, the Encryption Proxy (Eproxy) and the Reverse Proxy (Rproxy). The Eproxy is responsible for handling Netlet connections. The Rproxy is responsible for all HTTP and HTTPS connections.

- Netlet: This component gives secure, on-demand virtual private network (VPN) functionality to the intranet from a public network.
- Netlet Proxy: Prevents clogging of the Sun ONE Portal Server node.
- NetFile: Provides secure remote access to the file systems in the corporate intranet from the extranet (for example, through the Internet). NetFile is a Sun ONE Portal Server, Secure Remote Access file manager application that allows remote access to file systems and operations on them.
- Rewriter: The Rewriter component enables end users to browse the intranet by making links and other URL references work correctly on pages that a user may not be able to access from outside.
- Rewriter Proxy: Can be used to minimize the number of open ports in the proxy.

The white paper has figures and additional technical details.

[For more details click here or see article \[9941\] on the Web](#)

9974: Sun ONE Application Server 7 Downloads

Upgrade, Add-on and More

Sun ONE Application Server 7, Update 1 Solaris™ 9 Operating System (Solaris OS) Upgrade

This upgrade is for those using Sun ONE Application Server 7, Platform Edition that is integrated with Solaris 9 OS. (The Sun ONE Application Server was formerly the iPlanet™ Application Server.) Features of the upgrade:

- Defect resolutions
- EJB technology performance enhancement
- Support for Sybase and SQL Server

<http://www.sun.com/software/download/products/3ec2c279.html>

Sun ONE Application Server 7 Update 1, NSS/NSPR Components

A set of libraries designed to support cross-platform development of security-enabled client and server applications. Includes:

- NSS 3.3.4
- NSPR 4.1.4
- Solaris 8 OS patch
- Solaris 9 OS patch

<http://www.sun.com/software/download/products/3ec169f9.html>

Sun ONE Application Server 7 Update 1 Add-ons

This download includes:

- Web Server Proxy plug-in for the Sun ONE Application Server
- Utilities for managing the SSL capabilities included with the Sun ONE Application Server
- Web Services Client package

<http://www.sun.com/software/download/products/3e3afa8e.html>

Sun ONE Application Server 7 Assembly Tool 1.0

This Tool provides a complete solution for packaging and configuring new and pre-existing J2EE platform applications. The J2EE platform Archives created by this tool are deployable to Sun ONE Application Server 7.

<http://www.sun.com/software/download/products/3ec10b05.html>

[For more details click here or see article \[9974\] on the Web](#)

CLDC Version 1.1 Download

Get the latest download of the Connected Limited Device Configuration (CLDC) 1.1. Version 1.1 (Java™ Specification Request 139) is a revised version of the CLDC 1.0 specification. It includes new features of floating point and weak reference support and other enhancements. CLDC 1.1 is backward compatible with CLDC 1.0, and continues to target small and resource-constrained devices with the objective of maintaining a tight footprint.

CLDC is part of the Java™ 2 Platform, Micro Edition (J2ME™) and is the foundation for the Java™ runtime environment (JRE) for mobile phones, pagers and mainstream PDAs.

Sun's CLDC Implementations are the K Virtual Machine (KVM) and the CLDC HotSpot Implementation. The KVM is designed to demonstrate the basic functionalities of the CLDC specification in conjunction with the CLDC libraries. The CLDC HotSpot Implementation is a virtual machine that is highly optimized and provides superior performance compared to KVM.

<http://java.sun.com/products/cldc>

9934: "The Java™ Tutorial: A Practical Guide for Programmers"

Lessons Focus of Security in the Java™ 2 Software Development Kit 1.2

A group of lessons by Mary Dageforde focuses on security in Java™ 2 Software Development Kit (SDK) 1.2. "The Java™ Tutorial: A Practical Guide for Programmers" teaches readers how the built-in Java™ technology security features protect a user from malevolent programs. It also discusses how readers should use tools to control access to resources, to generate and to check digital signatures and to create and to manage keys needed for signature generation and checking.

The lessons also examine how to incorporate cryptography services, such as digital signature generation and checking, into a program. Nearly all of the security features discussed were added to JDK for its 1.2 release. For that reason, the code examples provided in the lessons will work only on Java platforms that are compatible with JDK 1.2.

The JDK 1.2 security features are intended for a variety of audiences:

- Users running programs: Built-in security functionality protects these users from malevolent programs (including viruses), maintains file privacy and authenticates the identity of each code provider.
- Developers: API methods can be used to include security functionality into programs, including cryptography services and security checks.
- Systems administrators, developers and users: JDK 1.2 tools manage a keystore (database of keys and certificates), generate digital signatures for JAR files and more.

Several of the specific lessons covered include:

- Security Features Overview
- Quick Tour of Controlling Applets

- Quick Tour of Controlling Applications
- API and Tools Use for Secure Code and File Exchanges
- Signing Code and Granting It Permissions
- Exchanging Files
- Generating and Verifying Signatures
- Implementing Your Own Permission

For more details click [here](#) or see article [\[9934\]](#) on the Web

9935: Security Aspects of Creating Java™ Web Services Achieving End-to-end Security

Chapter 18 from the Java™ Web Services Tutorial focuses on security. Authors Debbie Bode Carson and Eric Jendrock talk about deployment descriptors, authorization and the authentication service of the Tomcat server.

A deployment descriptor is a document which expresses the declarative security mechanisms used in an application. The security requirements of applications are declared so that those who are configuring an application can satisfy the requirements.

The goal of the Java™ Web Services Developer Pack (WSDP) security architecture is to achieve end-to-end security by securing each tier. The tiers can contain both protected and unprotected resources. Resources need to be protected to ensure that only authorized users have access.

The chapter contains a section on "Users, Groups and Roles." The section states a user of Web Services is similar to a user of an operating system. There are code examples such as how you would set up roles in the web.xml deployment descriptor for the Web component. It shows how to define multiple security roles for an application. There are also details on managing roles, using the Tomcat Web Server Administration Tool, declaring and linking role references and mapping application roles to realm roles.

The Web-tier security section addresses protecting resources and authenticating users in the Web tier. It covers deployment descriptors, security constraints, authentication mechanisms and SSL. There is a section on installing and configuring SSL support and on configuring JAX-RPC based Web service applications.

For more details click [here](#) or see article [\[9935\]](#) on the Web

Live Chat Transcript Available: Java™ 2 Platform, Standard Edition 1.4.2

The transcript is available for the live chat on the Java™ 2 Platform, Standard Edition (J2SE™) 1.4.2. Guests were three key members of the J2SE 1.4.2 platform team: Java Hotspot™ virtual machine engineer Ken Russell, Java™ Foundation Classes/Swing (J.F.C./Swing) API lead Scott Violet, and Deployment Technical Lead (Java™ Web Start/Plug-In), Stanley Ho. Topics include the new XP look and feel and the GTK look and feel, startup time improvements, JFileChooser, the Web bundle, SSE and SSE2 and more. See the transcript:

<http://developer.java.sun.com/developer/community/chat/javaLive/2003/jl0429.html>

JavaOneSM Conference 2003: Where and When

This year's JavaOneSM Conference will be held June 10-13, 2003, at the Moscone Convention Center, 747 Howard Street, in San Francisco, California. Telephone: (415) 974-4000.

The JavaOne Conference is the source for the unparalleled opportunity to learn from the creators and foremost experts in JavaTM technology. In-depth technical training arms you with key tools and solutions, while our Hands-on Labs give you the opportunity to test-drive which technologies work best for you.

Register before June 8th and save \$100 on the on-site price of \$1,995.

<http://servlet.java.sun.com/javaone/sf2003/home/index.en.jsp>

9932: **22 Birds-of-a-Feather Sessions on Web Services** Integration, Simplification, Etc.

Introductory

How to Develop and Deploy JavaTM API for XML-based RPC (JAX-RPC) on JavaTM Web Services Developer Pack (Java WSDP) and SunTM ONE Application Server 7.0, BOF-2164

Introduction to Enterprise Application Integration (EAI) and the JavaTM 2 Platform, Enterprise Edition (J2EETM) Connector Architecture, BOF-2534

Intermediate

Auto-ID: Integration with Existing Enterprise Applications, BOF-1079: Deals with the process used and lessons learned in connecting the automatic product identification technology from the Auto-ID Center into existing enterprise applications such as SAP and Manugistics.

Integration Strategies for Heterogeneous Enterprise Environments Using J2EE (platform) and .NET, BOF-3276: Design discussions include the SOAP protocol, .NET Remoting protocol and Java technology-related best practices.

The Simpler Way to Write Web Services: Web Services Metadata for the Java Platform (JSR 181), BOF-2967: JavaTM Specification Request (JSR) 181 describes the Java technology Web service file standard that seeks to simplify the creation of Web services by using JavadocTM software comments in Java technology classes to provide instructions for the generation of a supporting Web service framework.

There are many other intermediate level BOFs on topics such as XML, ebXML, JavaTM Business Integration, real-time information integration and more.

Advanced

Integrating Web Services and Digital Payments in Practice, BOF-2092

The Challenge of Security Policy Management in the Collaborative Web Services Environment, BOF-2016

[For more details click here or see article \[9932\] on the Web](#)

9937: **Join the Coding Challenge at the JavaOne Conference**

Solve Real-world Problems in Mobility, Enterprise Applications and Web Services

Sun and TopCoder Inc. are bringing a coding challenge to the JavaOne Conference. Attendees will use the Java programming language to solve real-world problems in the three major themes for the 2003 JavaOne Conference — Mobility, Enterprise Applications and Web Services.

The challenge starts on Tuesday, June 10th and ends Thursday, June 12th. All registered attendees of the JavaOne Conference will be able to access the online Competition Arena.

Participants will be presented with a real-world programming problem and will use the Java programming language to code, compile, test and submit a solution to the problem sets.

Each day, TopCoder will objectively score each competitor's submission for accuracy and time to complete the problem. Top scorers will be invited back for head-to-head competition in the afternoon. All participants in the Coding Challenge will be awarded a gift to highlight their participation.

If you start feeling the need to code, join the challenge.

[For more details click here or see article \[9937\] on the Web](#)

Benefits of My Schedule and My Interest on the JavaOne Conference Web Site

To help you get ready for the JavaOne Conference, the Web site provides a "My Schedule" feature. Use it to plan your experience at the conference. With My Schedule you can email your itinerary to a friend or other attendee and compare notes or send a copy to your boss or co-workers. You can add and remove events in different ways. The My Schedule feature is only for planning; it does not reserve space at events.

The "My Interest" feature of the Web site can be used by attendees and non-attendees alike. You can create a list of the sessions and BOFs you're interested in, and, after the conference, use the list as a bookmark for the PDFs of the presentations. For instructions on how to use each of these, see the Web site and log in or create an account.

<http://java.sun.com/javaone/sf>

Java Technology Solutions Content

Vendors with appropriate news items that they would like to see included in the Java Technology Solutions section may contact:

marketplace@systemnews.com

9917: **SafeNet Announces New SafeEnterprise Security System**

High Assurance Security System Centered on Strong Security Products

SafeEnterprise Security System provides a single, dedicated application for securely managing appliances for ATM, Frame, Link and IP networks. It is a flexible, scalable and complete WAN and VPN system for integrated high assurance network security.

The system supports increased network capacity and speed, as well as evolution from one protocol or topology to another, without replacement of the security infrastructure. The SafeEnterprise Security System leverages existing infrastructures in point-to-point, nested, hub-and-spoke, or fully meshed configuration, and works seamlessly with new network topologies.

The SafeEnterprise Security System is comprised of solid security products, including VPN clients and appliances (HighAssurance Remote VPN Client, the new HighAssurance 500, 1000, 2000 and 4000 Gateways, SafeEnterprise Link, Frame and ATM Encryptors), and a central management system, the SafeEnterprise Security Management Center (SMC). The different Gateways apply to businesses from medium to headquarter size.

SafeEnterprise SMC is a robust, Java™ technology-based management platform that authenticates any combination of SafeNet solutions deployed on the enterprise network and remotely configures, monitors and performs firmware updates for SafeNet network security products.

<http://www.safenet-inc.com>

mkolb@safenet-inc.com

(800) 533-3958

[For more details click here or see article \[9917\] on the Web](#)

9918: **Dynamic Fleet Logistics Solution Provides Location-based Services**

Advanced Asset Management Tool from ObjectFX and TransDecisions

A joint solution combining ObjectFX's software platform, SpatialFX, with TD Fleet scalability and processing components from TransDecisions, provides a tool that supports operations management for transportation companies.

This logistics solution is Java technology-based, scalable, database centric and Internet enabled. It utilizes real-time, location-based information. The movement of drivers, service personnel, equipment and inventory can be monitored and viewed in real-time. A single database source combines constantly updated information including routing attributes onto a map display.

It can be easily integrated with existing operations at transportation companies, allowing them to optimize scheduling, track multiple assets and improve overall customer service.

TransDecisions specializes in the development of large-scale mobile resource management solutions with complex geographies, customer patterns and mobile worker skill sets.

ObjectFX provides an innovative Java technology-based software platform that enables the integration of dynamic, location-based services such as mapping, vehicle routing, address geocoding and other spatial operations into enterprise applications.

<http://www.transdecisions.com>

pthibeau@oci-hr.com

(612) 638-1590

[For more details click here or see article \[9918\] on the Web](#)

9945: **Covalent Application Manager**

Solution Addresses the Current Disjointed Server Management Approach

Covalent Technologies has released the Covalent Application Manager (CAM), a Web application management solution designed specifically for IT Operations. CAM presents one integrated application view by automatically discovering and then correlating multiple components of a Web application.

Covalent aims to move the management of Web applications beyond today's disrupted server approach to integrated Web application management by combining its application model with a comprehensive solution that covers all operational activities. CAM combines the full spectrum of operational activities with an application model so users can view and manage applications holistically.

By using CAM and managing applications, instead of servers, IT groups can:

- Improve service levels by quickly navigating through the components of an application to alleviate application problems.
- Increase utilization of the Web infrastructure — now that IT ops has one integrated tool they can quickly measure and optimize utilization of their Web infrastructure in an application context.
- Report service levels accurately. Instead of manually creating reports from the various point tools that make up their management infrastructure, with CAM IT can measure and report service levels for an entire application.

CAM is based on open standards, supports Java™ 2 Platform, Enterprise Edition (J2EE™) and Java™ 2 Platform, Standard Edition (J2SE™) and the Solaris™ Operating System (Solaris OS). It also manages Web servers, including Apache, Sun™ Open Net Environment (Sun ONE) and Microsoft IIS.

<http://www.covalent.net>

amanda@covalent.net

(415) 531-0483

[For more details click here or see article \[9945\] on the Web](#)

9866: **"Mac OS X for Java™ Geeks"**

Tool Sets, Extensions, IDEs, QuickTime and More

O'Reilly has released the new book, "Mac OS X for Java™ Geeks," which aims to be a study of the Mac OS X written specifically for Java programming language developers. Author Will Iverson is an experienced Java technology user; he wrote the book with the intention that it be useful to both new and experienced developers.



The book begins with an explanation of the Mac OS X tool set, covering areas like the Java™ runtime environment, third-party tools, IDEs and Jakarta Ant. The text also examines advanced, Mac-specific extensions to the Java programming language, including the Spelling Framework, the Speech Framework and integration with QuickTime. This section focuses on writing code that falls back to non-Mac specific code when it runs on other platforms.

The book next examines how to get the Apache Web server running and supplement it with the Jakarta Tomcat JavaServer Pages™ (JSP™) framework and servlet containers. JSP technology and servlet containers are covered in detail, including installation and connectivity to a database. Readers will also find instructions on interfacing Web applications and Enterprise JavaBeans™ (EJB™) components via the JBoss application server on Mac OS X. The book ends with coverage of the latest developments in Web Services, including XML-RPC and SOAP.

[For more details click here or see article \[9866\] on the Web](#)

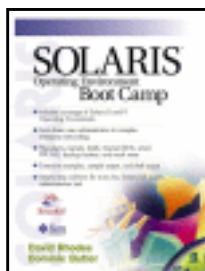
9899: **"Solaris™ Operating Environment Boot Camp"**

Focusing on the Details of Solaris Operating System Administration

The new book "Solaris™ Operating Environment Boot Camp" offers detailed techniques for getting more from the Solaris OS. Covering issues like simple user management on stand-alone servers and building and managing a fully networked enterprise environment, the text aims to offer comprehensive coverage of Solaris OS system administration.

Author David Rhodes has worked throughout the IT industry, including system builds, program development, support and maintenance. Rhodes has worked with Solaris OS and Sun hardware for more than 13 years. Dominic Butler is a freelance technology consultant specializing in Solaris OS and UNIX®-related projects. At IBM, Butler helped develop and manage processors for building, updating and recovering e-business servers.

Authors Rhodes and Butler try to offer readers more than just a general outline by focusing on the details of Solaris OS administration. The book explains tasks in detail, with sample commands, specific output, lists of impacted system files and in some cases, complete shell scripts.



The book focuses on:

- Step-by-step solutions for every key Solaris OS system administration task
- Basic user administration to complex enterprise networking
- Filesystems, kernels, shells, Internet/DNS, email, PPP, NIS, backup/restore and much more
- Extensive examples, sample output and shell scripts
- Coverage of Solaris 8 and 9 OS

[For more details click here or see article \[9899\] on the Web](#)

9907: **"Expert Oracle9i Database Administration"**

Experienced Oracle Database Administrator, Alapati, covers building and managing complex Oracle9i databases in his 1248-page book, "Expert Oracle9i Database Administration."

The book is suitable for beginner or intermediate level Oracle DBAs or Oracle Developer/Managers. It covers all aspects of the 9i database, includes a UNIX primer and an introduction to SQL and PL/SQL. Alapati also covers the new Oracle9i RDBMS software.

The book is divided into six parts, covering database basics; the Oracle RDBMS; database creation, connectivity and user management; data loading, backup and recovery; managing the database; and performance tuning and troubleshooting.

[For more details click here or see article \[9907\] on the Web](#)

9947: **"Learning UML"**

Learning and Mastering Unified Modeling Language (UML)

The new book "Learning UML," by Sinan Si Alhir, tries to help readers understand and eventually master Unified Modeling Language (UML). The text focuses on the language, while trying to stay away from the methodology, and offers a direct and to-the-point presentation.

"Learning UML" allows readers to first get a feel for and perspective on UML. After that foundation is laid, the reader is taken through a gradual process that is designed to eventually provide them with a mastery of the language. The book begins by teaching how UML is used to model the structure of a system. Many key UML concepts, especially that of the general (classes) versus the specific (objects), are illustrated in the chapter on class and object diagrams.

Later the book illustrates how to use use-case diagrams to model the functionality of a system. The reader will finally deal with component and deployment diagrams, and learn how they are used to model the way in which a system is deployed in a physical environment. Readers will also learn: how to use sequence and collaboration, to model the interaction over time between system components, how to use state diagrams to describe the life cycle of system components, and how to use activity diagrams to document control-flow and responsibility.

[For more details click here or see article \[9947\] on the Web](#)



9964: **Consolidating? Learn Why Sun and Oracle are the Best Choice**

Benefits and Lists of Resources

The Oracle and Sun Alliance Web page now offers resources that illustrate why Sun and Oracle are the best choice when consolidating servers and groups of common applications. Learn the elements of a successfully operating IT center and how Sun and Oracle provide them.

Why choose Sun and Oracle when consolidating? Consolidating servers from a mixed operating environment to a single platform provides superior business value. Consolidating groups of common applications to a unified Oracle on Sun platform can dramatically simplify operations, improve IT quality and accelerate time-to-deployment. Sun and Oracle provide the best-in-class hardware and software and the experience you can trust.

Customers who have moved to the open, end-to-end architecture of the Sun platform running the Oracle Database and/or Oracle E-Business Suite in the data center have experienced operation cost savings between 15 and 30 percent. Total management costs of operation of a consolidated system can reach 50 percent or more for certain applications. The streamlined environment can also result in increased availability and flexibility.

Scalability is crucial for a successful IT center to cope with varying loads of Web-based environments, changes in user demand and growth. New needs can be supported with the Solaris™ Operating System (Solaris OS) which scales from entry-level servers to large, high-end servers. Standard practices can be implemented to reduce datacenter management complexity. Around-the-clock availability can be achieved with the Oracle E-Business Suite.

Resources available on the consolidation section of the Sun and Oracle Alliance Web site include links to Sun consolidation and migration suite of services and to Oracle9i Architecture Services. Also find links to clustered solutions, Sun StorEdge™ systems, Sun Fire™ servers, certified configurations of factory-installed Oracle on Sun servers and the Oracle9i RAC.

[For more details click here or see article \[9964\] on the Web](#)

9957: **Best Uses of Java™ Technology Stored Procedures and Oracle PL/SQL**

How to Get Unlimited Usage Patterns by Running Java Programming Language Code in the Database

Stored procedures allow a set of database operations to be processed in one call. Java™ technology stored procedures use procedural logic encapsulating multiple SQL statements that run within the database and are invoked in one call, thereby avoiding multiple network round trips.

Oracle strategy is to enhance both languages and make them interoperate. The Oracle white paper "Unleashing the Power of Java Stored Procedures" discusses when it is best to use Oracle PL/SQL or Java technology stored procedures. Which one to use depends on skills of programmers at a company and application requirements. The following recommendations are offered:

- Use PL/SQL for SQL operations and access to all database types and objects. PL/SQL was originally designed for stored procedures and functions. Compiled PL/SQL packages can be moved to different platforms. It is well suited for encapsulating SQL operations with procedural logic and for manipulating all database object types.
- Use Java technology when you already have the skill set; use it for SQL operations and for leveraging and interacting with the worlds of Web Services, XML, the Java™ 2 Platform, Enterprise Edition (J2EE™) and Java technology. As opposed to PL/SQL, Java technology requires declaring exceptions that can be thrown by methods in any class, thereby making Java technology stored procedures more robust. All major database vendors provide Java technology support in their databases. Java technology programming in the database allows implementing more complex database logic than PL/SQL and extends database functionality.

Common usage patterns of Java technology stored procedures are covered in the white paper, as well as the support Oracle furnishes for the Java™ DataBase Connectivity (JDBC™) 2.0 API. The white paper includes code and illustrations.

[For more details click here or see article \[9957\] on the Web](#)

9959: **Bankers Automated Clearing Services Chooses Oracle and Sun**

Solution Includes SunPlex™ Systems and the Oracle9i Real Application Clusters

Bankers Automated Clearing Services (BACS), the clearinghouse that enables electronic payments for the entirety of the UK, recently needed to upgrade to a solution that could handle the projected five billion transactions the company expects to conduct annually by 2005. BACS turned to SunPlex™ systems and the Oracle9i Real Application Clusters to solve its problems.

BACS attributes much of its success to its ability to leverage technology, which works to the benefit of banks, businesses and consumers. In 2001, the New BACS technology renewal program launched to better equip the business so it could technologically cope with the coming years. BACS expected its approximately 3.5 billion annual transactions to grow to five billion by 2005. It was important that any solution the company chose would not interfere with its record for reliability.

After establishing a relationship with Oracle by deploying Oracle Financials applications, BACS still performed a competitive evaluation before selecting the Oracle9i RAC. As the basis for the Oracle applications, BACS chose a pair of SunPlex systems, consisting of two Sun Fire™ 15K servers clustered using Sun™ Cluster 3.0 software. The Sun Fire servers give BACS ample capacity for addressing future loads. The two layers of redundancy also provide BACS with essentially 100 percent availability levels.

BACS has already begun the production stage of its New BACS program, which will be fully deployed in four stages over the next five years. The first step introduced a new Internet-based delivery channel that allows customers to make submissions, receive reports and track their payment transactions online.

[For more details click here or see article \[9959\] on the Web](#)

Customizable News Magazine

This news magazine is customizable; you can select which sections you would like to be included in the news magazine that is sent to you. You can also choose which format you prefer for the news magazine. Your name, title, Company name and email address may be included in the news magazine and/or the email message that delivers the news magazine to you.

Subscription Administration Tool (SAT)

To make changes to your account profile, click on the Subscription Administration Tool (SAT) URL that can be found in the email that delivers the news magazine to you.

Alternatively, you can go to the SAT URL:

<http://sat.systemnews.com>

and login with your email address. If you can't remember your password you can request a new one on the Web site and it will be sent to your email address.

On the SAT Web site, you can change:

- your name, company name, title, email address
- the format that you prefer (text, PDF, HTML, all)
- your subscription (suspend, resume, unsubscribe)

(Note: the HTML format option is an index of the Web site, not an HTML news magazine.)

To Unsubscribe or Suspend

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