



DELL Power Solutions

Managing Editor
Eddie Ho

Art Director
Iva Frank

Designers
Mark Mastroianni, Cynthia Webb

Publication Services
The TDA Group
Four Main Street, Suite 100
Los Altos, CA 94022

Subscriptions and Address Changes
Subscriptions are free to qualified readers who complete the subscription card found in each issue. To subscribe or change your address, complete and return the business reply card in this issue.

About Dell Computer
Dell Computer Corporation, headquartered in Round Rock, Texas, near Austin, is the world's leading direct computer systems company. Dell is the number 2 and fastest growing among all major computer systems companies worldwide, with more than 26,100 employees around the globe. Dell uses the direct business model to sell its high-performance computer systems, and workstation and storage products to all types of enterprises. For more information, please visit our Web site at www.dell.com.

Dell, Dell Talk™, OpenManage™, OptiPlex™, PowerEdge®, PowerVault™—Dell Computer Corporation; 3Com®—3Com Corporation; ADIC™—ADIC; HomeSite™—Allaire Corporation; Macintosh®—Apple Computer, Inc.; Ariba™—Ariba Technologies, Inc.; Baan™—Baan Development BV; Brooktrout Technology™—Brooktrout Technology, Inc.; Cellular Solutions®—Cellular Solutions, Ltd.; Cisco®—Cisco Systems, Inc.; Citrix®, WinFrame®—Citrix Systems, Inc.; CommerceNet®—CommerceNet, Inc.; Compaq®—Compaq Computer Corporation; Dialogic®—Dialogic Corporation; Fujitsu®—Fujitsu; Gigaset™, eLAN™—GigaNet, Inc.; GTE®—GTE Corporation; e-speak™—Hewlett-Packard®, HP™—Hewlett-Packard Company; AIX®, DB2®, IBM®, Magstar™—International Business Machines Corporation; NTrigue®—Insignia Solutions, Inc.; Intel®, Pentium®, Itanium®, Xeon®—Intel Corporation; Domino™, Lotus®—Lotus Development Corporation; Lucent®—Lucent Technologies, Inc.; Memorex Telex™—Memorex Telex NV; SANergy™—Mercury Computer Systems; Merrill Lynch®—Merrill Lynch and Company; BackOffice®, BizTalk™, IntelliMirror®, Microsoft®, Outlook®, Windows®, Windows NT®—Microsoft Corporation; Motorola™—Motorola; Cluster CoNTroller™, MPI/PRO™—MPI Software Technology, Inc.; AppManager®, NetIQ®—NetIQ Corporation; Netscape Navigator®—Netscape Communications; ThinPATH™, ThinSTAR™—Network Computing Devices; Nortel®—Northern Telecom Limited; NetWare®—Novell, Inc.; ClusterX™—NuView, Inc.; Oracle®—Oracle Corporation; Panasonic®—Matsushita Electric Industrial Company Ltd.; Nokia®—Nokia Corporation; Quantum®—Quantum Corporation; LEXIS/NEXIS™—Reed Elsevier Properties, Inc.; SAP®—SAP Aktiengesellschaft; Siemens®—Siemens Aktiengesellschaft; Seagate®—Seagate Technology, Inc.; SONY®—SONY Corporation; Spectra Logic™—Spectra Logic Corporation; Sprint®—Sprint Communications Company; StorageTek®—Storage Technology Corporation; Sun®, Solaris®—Sun Microsystems, Inc.; Tandberg®—Tandberg Data ASA; Tivoli®, Tivoli Enterprise Console™—Tivoli Systems, Inc.; UNIX®—Licensed exclusively by X/Open Company Ltd. in the United States and other countries; VERITAS®, Backup Exec®, WinINSTALL™—VERITAS Software Corporation. Other company, product, and service names may be trademarks or service marks of others.

Dell *Power Solutions* is published quarterly by Enterprise Systems Group, Dell Computer Corporation, One Dell Way, Round Rock, Texas 78682. No part of this publication may be reprinted or otherwise reproduced without permission from the editor. Dell does not provide any warranty as to the accuracy of any information provided through Dell *Power Solutions*. The information in this publication is subject to change without notice. Any reliance by the end user on the information contained herein is at the end user's risk. Dell will not be liable for information in any way, including but not limited, to its accuracy or completeness.

© Dell Computer Corporation. All rights reserved. Printed in the U.S.A.

March 2000

■ Executive Notes

- 1** Windows 2000: The Operating System for Next-Generation PC Computing
By Brian Valentine

■ Editor's Comments

- 3** Windows 2000 is Ready for Business...
By Eddie Ho

■ OS Environment

- 4** Windows 2000: A More Reliable OS Environment
By Eddie Ho
- 8** Designing Your Windows 2000 Active Directory
By Linda Chapman
- 14** Clustering Options for Windows 2000
By Mike Kosacek and Edward Yardumian
- 20** Enhancements to Microsoft Cluster Server for Windows 2000, Advanced Server
By Mike Kosacek and Edward Yardumian
- 25** The Power of Scalable Cluster Computing
By Paul Redfern
- 28** Windows 2000 Update: Terminal Services Comes of Age
By Dana Lloyd
- 32** Thin Client Computing: Windows 2000 and NCD ThinPATH
By Blaine Branchik

■ Enterprise Management

- 38** A First Look: Windows 2000 Tape Backup on Dell
By Charles Curtis and James Nall
- 52** Protecting Windows 2000: VERITAS Backup Exec
By John Michael Garcia
- 55** How Tivoli Manages Windows 2000 on Dell Systems
By Sabrena McBride
- 59** Tivoli Storage Management with Windows 2000
By Ron Riffe
- 62** Choosing the Right Tape Technology
By James Nall
- 66** Resolving Data Storage Demands with SANs
By Gerald Longoria

■ Knowledge Management

- 47** Electronic Fax Services for Enterprise Messaging at Dell
By Lisa Larson
- 72** InternetPBX: A Powerful New Phone and Messaging System
By David Perez
- 77** Tuning Tips for LoadSim
By Mike Metz

■ Internet Environment

- 85** Creating A Common Language: Dell's Transition to XML
By Paul Laster
- 89** The Pursuit of an XML Framework
By Eddie Ho