



POWER SOLUTIONS

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10 COVER STORY

MOBILITY REDEFINED

*By Jeanne Feldkamp, Daniel Bounds, Terry Myers,
and Tom Kolnowski*

As legions of employees take their work outside the office and to the far reaches of the globe, supporting the diverse needs of a highly mobile workforce has become a strategic business priority. To encompass this new world order, organizations must implement strong security technologies, intuitive remote management tools, streamlined backup solutions, and a plan for smooth product transitions.



18 GUIDED TOUR

FREEDOM FROM BUSINESS AS USUAL: INTRODUCING THE NEW DELL LATITUDE

By Daniel Bounds

Dell™ Latitude™ laptops have been completely reengineered to take on the demands of an increasingly mobile workforce. Designed with the core values of both IT managers and end users in mind, the new Latitude laptops make remote management and endpoint security a breeze—while providing a user experience mobile workers will want to write home about.



DELL PROSUPPORT MOBILITY SERVICES PAGE 42

CONNECT AND PROTECT WORKERS ON THE GO

Unleashing the workforce to conduct business anytime, anywhere, is a complex undertaking. Dell ProSupport Mobility Services offers a comprehensive suite of professional support services designed to improve worker productivity with flexible, comprehensive asset and data protection services and global data recovery and destruction services.

NOW PLAYING:

DELL DATACENTER OF THE FUTURE PODCAST SERIES

High availability is important for most applications in an IT infrastructure—but some, such as e-mail, are truly mission critical. “Easier Failover Clustering for High Availability” helps clarify key features introduced in the Microsoft® Windows Server® 2008 OS designed to improve high-availability clustering and simplify cluster deployment and management. For more information, visit **DELL.COM/Podcast**.

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ENABLING THE MOBILE WORKFORCE

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By Richard Thwaites

Dell Precision™ M2400 and M4400 mobile workstations enable engineers, computer-aided design (CAD) designers, video editors, animators, and other creative and business professionals to run high-performance, graphics-intensive applications in a lightweight, durable chassis—and share docking stations and peripherals with the new Dell Latitude laptop family.

34 Enhanced Remote Client Control Using LANDesk Management Suite

By Travis Zhao and Brett Twiggs

The combination of LANDesk® Management Suite with the Intel® vPro™ technology in Dell OptiPlex™ desktops and Dell Latitude laptops can provide a powerful, flexible way for administrators to remotely manage, troubleshoot, and secure client systems throughout their life cycle.

38 Making the News

Dell Precision mobile workstations and Dell PowerEdge™ servers help a media company maintain its competitiveness in the evolving news business, reducing the time needed to publish breaking stories by 50 percent.

40 Students Thrive in a Wireless Environment

Preconfigured Dell Latitude D531 laptops running the Microsoft Windows Vista® Business Edition OS and Microsoft Office 2007 help provide a flexible learning environment and efficient administration and support for university students.

CASE STUDIES

BLADE SERVERS

48 **Box Office Gold**

Dell PowerEdge M1000e modular blade enclosures helped Soho VFX deliver a Hollywood blockbuster on deadline—more than doubling the company's processing capacity while helping reduce power consumption by 20 percent.

50 **High-Performance Supply Chain**

Dell PowerEdge M1000e modular blade enclosures connected to a Dell/EMC CX3-20 storage area network helped supply chain provider YCH Group reduce data center floor space by 70 percent and power consumption by up to 45 percent compared with the previous solution.



EXCLUSIVE INTERVIEW PAGE 24

DESIGNING FOR THE ROAD AHEAD

When done right, industrial design is invisible. But inspiring a sense of delight and lust from a business laptop that is effortless to use—that takes a lot of work. Ken Musgrave, director of industrial design and usability at Dell, reveals what happened behind the scenes when Dell went to the drawing board to design the new family of Dell Latitude laptops.



Bringing Latitude to life. Extensive usability and engineering innovations are designed into the new Dell Latitude laptops with exceptional sophistication and simplicity

HIGH-PERFORMANCE COMPUTING

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By Scot A. Schultz and Charles Rubin

When the University of Nebraska at Omaha's Holland Computing Center teamed up with Dell to build a high-performance computing (HPC) cluster, the result was a flexible dual-boot system of Dell PowerEdge servers with dual-core AMD Opteron™ processors—and one of the world's largest and most powerful Microsoft Windows® OS-based clusters.

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By Dave Jaffe, Ph.D.; Kai Yu; and Dan Brint

To demonstrate the scalability and performance of SunGard Higher Education's Banner® software on Dell hardware, Dell collaborated with the State University of New York to build and test a proof-of-concept architecture designed to handle up to 175,000 students with sub-second response times.

SECURITY SOLUTIONS

60 **How the Guardium Platform Helped Dell IT Simplify Enterprise Security**

By Phil Neray, Addison Lawrence, David McMaster, and Venugopal Nonavinkere

As part of its initiative to simplify IT, the Dell IT group implemented the Guardium platform and database activity monitoring technology to help protect its globally distributed database servers and streamline compliance processes.



STORAGE PAGE 68

AUTOMATED DISASTER RECOVERY WITH VMWARE SRM AND DELL EQUALLOGIC iSCSI SANs

By Andrew Gilman and Jon Bock

Virtualized IT infrastructures can simplify management and facilitate business continuity while helping minimize power consumption and procurement costs. Virtualization also helps organizations automate disaster recovery plans. Dell EqualLogic™ PS Series arrays and VMware® Site Recovery Manager (SRM) software provide integrated, cost-effective, automated site recovery and testing for enterprise data centers.

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DELL POWER SOLUTIONS ONLINE EXCLUSIVES



Best Practices for Networking in a VMware Environment

By Alberto Ramos

By following the networking best practices used by Dell engineers in their own IT environment, organizations can create an efficient, resilient virtualized infrastructure.



Enhanced Power Monitoring for Dell PowerEdge Servers

By Santosh Bhadri G. V., Ramakrishna M. S., and Surendra Bhat

The enhanced power monitoring and management features available in supported Dell PowerEdge servers enable IT administrators to easily track and manage energy use through tools such as the Dell OpenManage™ suite.



Deploying Flexible Brocade 5000 and 4900 SAN Switches

By Nivetha Balakrishnan and Aditya G.

Brocade® storage area network (SAN) switches are designed to meet the needs of rapidly growing enterprise IT environments, offering flexible interoperability, scalability, and cost-effective consolidation.



Maintaining Dell Platforms with Dell Technical Updates

Recent firmware updates for Dell PowerEdge components and Dell PowerVault™ storage can help improve system functionality and minimize potential problems.

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104 Bundle Up: Intel Offers Comprehensive Professional Editions with New Releases of Compilers and Math Kernel Library

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