



DELIVERING UNCOMPROMISED WORKSTATION PERFORMANCE



**GUIDE TO FLEXIBLE COMPUTING SOLUTIONS
DEDICATED REMOTE WORKSTATION**

“We have been supplying other rack based solutions to the broadcast industry for years but Dell listened and addressed our needs with the R5400 and FX100”

TIM NOWAK, MANAGER OF PRODUCTION & INFORMATION TECHNOLOGY, RCS.

Dell revolutionizes desktop computing with Flexible Computing Solutions. We simplify IT from the desktop to the data center by centralizing data and image control without compromising the end-user experience.

Unlike our competitors who focus on IT at the cost of the end user, Dell's approach ensures the necessary flexibility to provide improved security, manageability, and reliability — with zero sacrifice to the end-user or business productivity.

We deliver an innovative and alternative means of computing built on standards-based, Dell-validated hardware, combined with software, services, and ongoing support. You get a complete solution, all from one source: Dell.

The Dedicated Remote Workstation solution delivers a world-class remote access solution. IT Managers retain centralized control of end-user data and network security while delivering the most advanced levels of graphics applications and workstation-class performance. Designed for environments where real estate may be limited or restrictive, end users receive secure access to all their data and advanced graphics applications, even though the datacenter may be centrally housed at a physically different location across the room or across the world.

This solution is comprised of the Dell Precision™ R5400, a cost-effective, scalable, and standards-based rack workstation and the optional Dell FX100 remote access device (and host card) that was designed to help overcome the limitations of traditional KVM offerings. The combination of the two helps deliver enhanced security, improved ROI, and simplified IT. Unlike competitive solutions, this rack workstation solution (100% Blade Free) provides a more flexible, standards-based alternative to blade workstations.

WHO COULD BENEFIT FROM DELL FLEXIBLE COMPUTING SOLUTIONS DEDICATED REMOTE WORKSTATION?

- Customers using workstations who need to remove the heat and noise from the workplace. This may include finance but could also be within a manufacturing environment or an office.
- Customers looking to physically secure a workstation in a rack for security of the system or centralizing of the data and applications.
- Customers using traditional KVM cabling who need greater distance support plus support for high powered graphics at their desk without needing a Client system.

NEW SOLUTION FOR SOME OLD CHALLENGES

The Dell Dedicated Remote Workstation Solution offers advanced, innovative, and relevant technologies to overcome some tough traditional challenges and succeeds where other solutions have struggled to deliver:

- Centralizing and accessing critical data and applications in a secure location
- Eliminating the need for workstation users to be in inhospitable or hazardous areas
- Retaining performance and other benefits of a standards-based workstation for remote users
- Addressing the distance limitations of traditional wired KVM solutions

“We are really excited about the Dell Precision R5400 Workstation solution. Dell is working on some amazing things and Softimage are thrilled to be part of it!”

MARK SCHOENNAGEL, SENIOR 3D EVANGELIST AT SOFTIMAGE.

VISUAL REALISM WITH HIGH-PERFORMANCE OPENGL GRAPHICS

Dell Dedicated Remote Workstation offers an intelligent selection of high-performance graphics cards on the R5400 that can satisfy a range of customer needs, from outstanding OpenGL 3D performance to dependable 2D performance. With its two PCIe x16 slots, the R5400 is well equipped to house high-performance graphics cards to help meet the toughest of visualization challenges. Select from a wide range of industry-standard cards while retaining the option to change or upgrade at a later date.

Developed specifically for the purpose of enabling a best-in-class remote user experience, and drawing on the best imaging, silicon, and network techniques, the Dell FX100 provides support for host-based OpenGL graphics, USB, and audio interaction at distances greater than traditional KVM limits. As a highly self-contained system communicating over industry standard IP networks, this solution operates in conjunction with any host operating system and software for a true desktop experience with demanding workstation applications.

DEDICATED ADVANCED REMOTE ACCESS TO THE PERFORMANCE OF THE R5400

With Dell Dedicated Remote Workstation, the full performance of the Dell Precision™ R5400 can be accessed by using the optional Dell FX100 Remote Access Device. As part of Dell's Flexible Computing initiative, this solution (host card and remote user portal) benefits from having dedicated hardware that leaves the workstation's CPU and network resources available to run the chosen applications. A more flexible and low-cost alternative to

traditional wired KVM remote solutions, the FX100 can deliver an outstanding remote user experience (network infrastructure dependent). Please refer to the Dell Precision R5400 and Dell FX100 product brochures for more information on this world-class solution.

FLEXIBLE COMPUTING FOR A CHANGING WORLD

The Dedicated Remote Workstation is the ideal solution for workstation users who need to interact with their system when elsewhere on the network. Providing audio, multiple USB, and two DVI connections, the FX100 portal enables flexible configurations, including support for one or two screens. All interfaces are industry standard, ensuring all existing peripheral devices such as keyboard, mouse, printer, and headphones can be used. The Dell FX100 has been optimized for use with the Dell Precision R5400 Rack Workstation and includes remote user hardware support for powering up and down of the R5400 workstation and visibility to its boot process.

PEACE OF MIND THROUGH ISV APPLICATION CERTIFICATION

The Dedicated Remote Workstation solution features ISV certification. Dell partners with leading ISVs to certify system and application compatibility to ensure optimized performance in demanding workstation environments. And to assure access to the latest productivity-enhancing technology solutions, Dell invests in the workstation ISV community by providing the hardware platforms needed to further multi-threaded and 64-bit application development. By maintaining strong relationships with ISV application developers, Dell engineers can provide ongoing optimization and support, should you need it.

ASSESSMENT

Our End User Profiling assessment utilizes online surveys for IT and end users and, where possible, a remote audit of end user devices to gather data. Data analysis is conducted through a rules engine which generates end-user FingerPrints (patterns of usage) for end users with a comparison of these FingerPrints to Dell validated reference architecture usage patterns. We can provide accurate advice back to you for Flexible Computing based on actuals rather than estimates.

DESIGN AND VALIDATION

Design to create a blueprint for your solution that addresses the requirements identified during assessment. Design includes servers, workstations, clients, software, images, storage, and networking, tested for production-readiness in your environment.

DEPLOYMENT

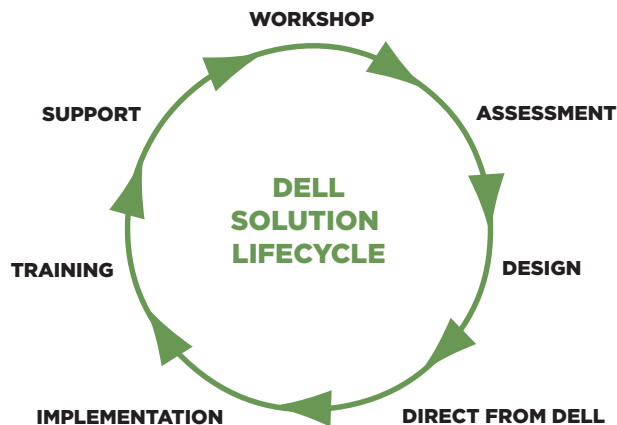
On-site deployment includes complete knowledge transfer. Dell can help you set up, install, and configure required hardware and software. Save time and let Dell configure and test.

SINGLE POINT OF CONTACT

Dell offers ongoing single contact support for a truly complete solution. You can rely on our highly trained Flexible Computing support specialists, available 24 hours a day, to take you from call to resolution.

ENABLING YOUR FLEXIBLE COMPUTING SOLUTION

Dell Global Infrastructure Consulting Services works with customers worldwide to deliver smooth, Flexible Computing solution implementation. We provide advice, readiness assessments, design, as well as implementation all the way through to training as well as ongoing support to help ensure a solution built around your specific needs. Select the service you require and scale up or down as needed. No hassle, no army of consultants — just a solution that delivers results.



COMPLETE SOLUTION SUPPORT

It's a difference you'll see right from the start with our understanding that not all computing environments are the same — especially when it comes to environments that require alternative instead of traditional computing solutions. As a part of deployment, Dell tests all hardware, software, and networking in your environment to help ensure optimal functionality. Throughout deployment and support, Dell is your single point of contact. It's a complete solution that helps reduce cost and complexity for both IT and end users, making maintenance easy with solution lifecycle support. And this means IT is freed up to work on projects that really matter to your organization.



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