REINVENT THE WAY YOU WORK WITH VIRTUALIZED HEALTHCARE

Transforming patient care with breakthrough
VDI solutions from HPE and AMD

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Virtual environments built on Hewlett Packard Enterprise and AMD solutions help optimize key healthcare workloads:

- **Helping ensure reliable and secure access to patient records**—Enabling clinical efficiencies that give care teams access to send, report, and analyze patient data remotely

- **Protecting and mobilizing medical imaging data**—Managing endless streams of medical data over a patient's life due to increased demand and image fidelity

- **Accelerating medical insights and scientific discovery**—Searching the genomes of millions of people around the world in search of links between genetics and disease

MANAGING SURGING DEMAND FOR HEALTHCARE

Escalating healthcare demands are changing the way organizations operate, urging them to uncover faster and more effective ways to collaborate, access critical information, and administer care. Global trends such as population growth, increasing life expectancy, novel infectious diseases, and unhealthy lifestyles have triggered widespread need for health services. Healthcare teams now face mounting pressure to deliver personalized care to a rising number of patients. These patients require more doctor visits, complex treatments, and medications, as well as the use of specialized equipment and personal devices, which produce troves of medical data. A single patient typically generates up to 80 megabytes yearly in imaging and electronic health record (EHR) data.

The expansion of healthcare coupled with explosive data volumes is driving digital transformation across the industry. With greater demand comes greater costs and consumption of IT and resources—and those aren't the only concerns.

Mobile workforces are on the rise and quickly exceeding the capabilities of traditional infrastructure. Outdated technologies lack the performance, agility, flexibility, and security necessary to support remote patients and healthcare teams. This is a major obstacle for organizations that rely on secure data access to unlock medical insight and fuel scientific discoveries.

Organizations must create a new type of environment to transform the way they work.

The right technologies will enable fast, resilient applications everywhere, expanding the reach of today's healthcare teams and providing patients with safer, more immediate care when and how they need it.

Virtualized healthcare is key to facilitate seamless collaboration and data accessibility. Organizations that invest in virtual solutions will have the speed and precision to improve medical outcomes and enhance clinical experiences.

ACCELERATING PATIENT-CENTRIC CARE

Data is the foundation of all healthcare operations. In virtual environments, healthcare teams can access applications and data remotely from a variety of desktops and devices. Virtual technologies streamline collaboration between disparate locations—from physician's offices, hospitals, and emergency rooms to hospice, research centers, and patients. Advancements in virtual desktop infrastructure (VDI) are taking healthcare delivery to new heights by putting patients first. VDI adoption helps organizations to support an increasingly mobile workforce by providing constant, reliable access to workplace resources with the performance they demand, from anywhere they choose to work. VDI transfers an image of the data to the remote device while the actual data remains safely at the core. Data can move rapidly from edge to cloud bringing information to the fingertips of healthcare teams, which gives them full and real-time insight into medical data.

Many organizations are already reaping the benefits of VDI:

• A network of connected medical devices

• Improved patient flow and clinical efficiency

• Real-time remote patient monitoring and management

• Operating theater optimization

• More widespread telehealth

• Transition to evidence-based medicine

• Expansion of precision medicine

The ideal VDI solution is not based on the number of healthcare workers it can support but on the types of healthcare workers. VDI enables productivity with seamless, secure access for a diversity of workers and their unique workloads. This includes task workers (physicians, nurses, and staff with functions for office and specialized tasks such as telemedicine, database entry, and market research using server- and browser-based applications), knowledge workers (clinical, financial, customer service, and IT teams with specialized functions such as automation, unified communications, remote teams, collaboration groups, and image-scale EHR), and power users (medical and scientific researchers and management teams with graphic- and data-intensive workloads). Virtual environments extend resources and deliver information in real time to empower each of these workers:

Boosts efficiency—Provide quick access to applications and data where and when they need it to enable well-informed decisions about patient treatment

Simplifies collaboration—Enable clinical, administrative, and operational mobility for rapid communication

Strengthens security—Reduce risk by keeping patient healthcare information in the data center

Saves money—Slash device, management, and support costs

Now, organizations can drive critical advancements to healthcare operations that will optimize workflows and redefine the clinical experience.

REVOLUTIONIZING HEALTHCARE WITH VDI

HPE and AMD are transforming healthcare with a new breed of VDI technologies. Our scalable solutions combine robust HPE servers built on industry-leading AMD CPUs with AMD Infinity Guard technology to help maximize productivity, drive operational efficiency, and protect and mobilize a growing remote workforce. We enable reliable and trusted access to data on countless devices, helping ensure fast, resilient application performance.

We built our VDI solutions on HPE ProLiant servers based on AMD EPYC processors, the world's most secure industry-standard servers, to enhance the security of healthcare operations around the world. These systems are purpose-built to help keep medical data safe, armed with a unique silicon root of trust to protect, detect, and recover from attacks. VDI provides even greater security, allowing organizations to build defensive perimeters around sensitive medical applications and data. Because healthcare teams aren't carrying confidential data on a device that could be lost or tampered with, they can operate and serve patients wherever they are.

HPE ProLiant servers powered by AMD processors offer advanced security features and versatility, providing hardware-based security capabilities with a balance of performance, capacity, and manageability. HPE systems create a flexible platform for desktop virtualization that supports daily tasks, such as logging patient health histories or accessing EHRs, to the most demanding research and imaging workloads. HPE ProLiant servers based on AMD processors are flagship offerings of a comprehensive family. These systems are agile and resilient to address a broad range of healthcare applications.

These systems are powered by the latest generation of AMD EPYC CPUs that offer leading performance and flexibility. AMD EPYC processors feature the highest available core count coupled with extreme memory and I/O throughput, making our joint solutions the cornerstone for virtualized healthcare. AMD Infinity Guard provides a leading-edge set of modern security features that help decrease potential attack surfaces as software is booted and executed, and processes critical data. An important part of Infinity Guard, AMD Secure Encrypted Virtualization encrypts medical data even while it is in use. Whether healthcare organizations run virtualization and cloud computing tools, enterprise applications, or data analytics applications, systems based on AMD EPYC processors can help accelerate and secure healthcare workloads and enable better levels of performance across virtual environments.

IMPLEMENTING PROVEN VIRTUAL SOLUTIONS

VDI is transforming patient care, helping organizations manage today's challenges with confidence and ease, as well as evolving for tomorrow's patient needs. Virtual technologies enable your remote workforce to operate faster and more intelligently to serve a growing population of patients.

To achieve this, HPE offers a broad portfolio of technologies, expert services, and an extensive partner ecosystem to help you meet the future of healthcare.

Designed for Citrix and VMware® environments, the HPE portfolio supports a wide spectrum of architectures to align with your requirements. HPE ProLiant servers based on AMD processors with Citrix allow organizations to easily deploy and manage virtual environments. VDI solutions designed with VMware Horizon® provides healthcare IT teams the flexibility to quickly deliver and refresh desktops, regardless of device while reducing operational risk and lowering the complexity and cost of desktop management.

To select and help optimize the right tools and applications, HPE Pointnext Services provides deep technical knowledge and innovation to support organizations as they transition to virtual environments. HPE Pointnext Services offers a portfolio of operational, advisory, and professional services to help you quickly plan, deploy, and modify VDI to fit your unique requirements. This approach includes accessing and helping eliminate roadblocks, identifying target healthcare applications, and setting workflow and performance requirements to help ensure your deployment can scale to accommodate rising industry demands.

HPE gives healthcare organizations choice in how they acquire and consume IT. Beyond traditional financing and leasing, HPE GreenLake offers VDI-as a service, a pay-per-use consumption model with the security and control of on-premises IT.

CONCLUSION

The new wave of healthcare is powered by virtualization. The latest virtual technologies are designed to modernize healthcare operations from the ground up. HPE and AMD are empowering organizations to capitalize on this trend, delivering the right technologies to harness the full power of medical data. Now, digital transformation that once took years can happen in a matter of months.

Breakthrough VDI solutions from HPE and AMD create the ideal environment to accelerate medical insight and promote quality care. We are committed to providing integrated, cost-effective, and patient-centric healthcare everywhere.

Let HPE and AMD help reinvent the way you work in healthcare.

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