

# Reduce costs and improve scalability with Red Hat and Intel

Migrate your Cerner electronic medical record (EMR) systems to an open foundation

## Red Hat and Intel architecture allows you to:

- Reduce TCO by up to 65%.<sup>1</sup>
- Scale easily as your business grows.
- Simplify and streamline your Cerner production and training environments.
- Ease integration and boost interoperability with open technologies.
- Improve stability by standardizing your Cerner environment.
- Take advantage of a larger pool of cost-effective Linux professionals.
- Focus on patient care, not on day-to-day IT operations.

## Introduction

Managing electronic medical records (EMRs) is a priority for healthcare technology professionals. By migrating your Cerner EMR environment to a foundation based on industry standards and open innovation, you can reduce costs, improve efficiency, and increase scalability. Industry leaders Red Hat and Intel deliver a stable, proven hardware and software solution for your Cerner system infrastructure—with conversion services to help you safely and confidently migrate your Cerner environment.

## Streamline Cerner operations with Red Hat and Intel

Built on open standards, the Red Hat® and Intel solution features cost-effective performance that allows all aspects of your Cerner software to run at peak levels. This degree of performance, combined with immense scalability, leaves room for future Cerner functionality so you can easily adopt new features and expand your environment as business grows. The solution also simplifies your Cerner environment, helping to streamline maintenance and improve reliability. Finally, subscription-based software pricing and commonly available hardware can reduce total cost of ownership (TCO).

The Red Hat and Intel solution is based on Red Hat Enterprise Linux®, Red Hat Satellite, Intel® Xeon® Scalable processor, Intel® Solid-State Drive (SSD) DC P4610 Series storage, and VMware vSphere for simplified high availability. The solution provides:

- A high-performance, enterprise-grade, reliable, highly scalable, and cost-effective platform for Cerner EMR systems with Red Hat Enterprise Linux.
- Simplified and automated system management, patching, and provisioning that can help you standardize your production, training, and testing environments for improved efficiency, reliability, and lower costs with Red Hat Satellite.
- Automated provisioning and life-cycle management of Cerner training environments, freeing your system and database administrators to focus on critical activities with Red Hat CloudForms® added to the solution to take full advantage of the features of VMware vSphere.

<sup>1</sup> Up to 65% lower four-year TCO estimate example based on equivalent rack performance using VMware ESXi virtualized consolidation workload comparing 20 installed two-socket servers with Intel® Xeon® processor E5-2690 (formerly Sandy Bridge-EP) running VMware ESXi 6.0 GA using guest OS Red Hat Enterprise Linux 6.4 compared at a total cost of \$919,362 to ve new Intel® Xeon® Scalable Platinum 8180 (formerly Skylake) running VMware ESXi 6.0 U3 GA using guest OS Red Hat Enterprise Linux 6 64-bit at a total cost of \$320,879 including basic acquisition. Server pricing assumptions based on current OEM retail published pricing for two-socket server with Intel® Xeon® processor E5-2690 v4 and two CPUs in four-socket server using E7-8890 v4—subject to change based on actual pricing of systems offered.

Software and workloads used in performance tests may have been optimized for performance only on Intel microprocessors. Performance tests are measured using specific computer systems, components, software, operations and functions. Any change to any of those factors may cause the results to vary. You should consult other information and performance tests to assist you in fully evaluating your contemplated purchases, including the performance of that product when combined with other products.



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Intel Xeon Scalable processors provide the high-performance compute engine at the core of the solution. With a high core count, increased memory capacity, and high reliability, you can run more virtual machines on fewer servers for initial and ongoing cost savings. In addition, Intel's processors work seamlessly with Intel SSDs, boosting storage performance and reducing power requirements.

Red Hat and Intel conversion services reduce migration risks and the time required to set up your new Cerner environment.

### Reduce total cost of ownership

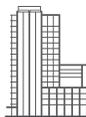
With Red Hat and Intel, healthcare providers can reduce TCO by up to 65%<sup>1</sup> through the use of commonly available servers and extreme virtual machine density. The highly scalable environment allows you to expand as your business grows—and as Cerner adds new features and functionality. Also, with a Linux-based environment, you can choose from a much larger and more cost-effective pool of experienced IT professionals.

### Conclusion

EMR systems play a critical role in hospital and medical clinic operations, and running those systems on open platforms can save you time and money. With more than 20 years of experience in making open technologies safe and reliable for commercial use, market leaders Red Hat and Intel offer a cost-effective, high-performance, industry-standard foundation for your Cerner EMR system. With lower TCO, more efficient operations, and improved flexibility, you can focus on delivering the best patient care, knowing that your EMR environment is ready for the future. Ask Cerner for a customized hardware configuration guide to see how your hospital or clinic can benefit from a Red Hat and Intel-based environment.

For more information on Red Hat and Intel's offerings for Cerner environments, and to receive a custom TCO analysis detailing how much you can save, contact your Red Hat account executive.

### About Red Hat



Red Hat is the world's leading provider of enterprise open source software solutions, using a community-powered approach to deliver reliable and high-performing Linux, hybrid cloud, container, and Kubernetes technologies. Red Hat helps customers integrate new and existing IT applications, develop cloud-native applications, standardize on our industry-leading operating system, and automate, secure, and manage complex environments. Award-winning support, training, and consulting services make Red Hat a trusted adviser to the Fortune 500. As a strategic partner to cloud providers, system integrators, application vendors, customers, and open source communities, Red Hat can help organizations prepare for the digital future.



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**North America**  
1 888 REDHAT1  
www.redhat.com

**Europe, Middle East,  
and Africa**  
00800 7334 2835  
europe@redhat.com

**Asia Pacific**  
+65 6490 4200  
apac@redhat.com

**Latin America**  
+54 11 4329 7300  
info-latam@redhat.com