TRANSFORMING VALUE-BASED CARE
Successfully connecting the healthcare ecosystem

SOLUTION BRIEF

Intel and Red Hat are leaders in building open IT infrastructure that meets the increasingly complex requirements of the healthcare industry.

"*We like the low cost of ownership and high flexibility of Red Hat's solution. Red Hat JBoss BPM Suite was easy to integrate with existing technologies—other tools we evaluated weren't as customizable.*"

SAM ALEXANDER,
ENTERPRISE ARCHITECT,
HEALTHESYSTEMS

Learn more:
redhat.com/en/technologies/
industries/health-life-sciences.

EVOLUTION OF BUSINESS MODELS

While shifting to a value-based reimbursement model delivers benefits, it also presents significant implementation challenges for healthcare organizations. It requires an evolution of business models, processes, data analyses, and, most likely, support for technology solutions, too. Healthcare stakeholders need new applications, interoperable systems, and tracking and measurement tools that support a patient-centric view across the care continuum.

MODERN I.T. INFRASTRUCTURE

With an open IT infrastructure based on Intel® and Red Hat® technologies, healthcare organizations can cost-effectively move to a value-based model by transforming and scaling both new and existing applications. Intel and Red Hat support an open and agile infrastructure solution that provides:

- Ability to rapidly deploy and manage new applications (and even build them if necessary).

- Interoperability across both internal systems and the systems of external partners along the care continuum.

- Business processes management platform for business rules, exception processes, notifications, alerts, process automation, and reimbursement.

STREAMLINED INTEGRATION

Providers and payers rely on different applications and processes to support their respective organizations. For a value-based care model to work, IT organizations must integrate these separate technologies so they can easily share critical information.

The Red Hat JBoss® Middleware portfolio of products streamlines the process of connecting healthcare solutions and sharing patient data:

- Automate processes across the healthcare ecosystem, reducing the need for manual IT staff intervention, with Red Hat JBoss BPM Suite, which combines key technologies: business process management, business rules management, and complex event processing.

- Treat multiple data sources as a single source, delivering the needed data—in whatever form is required—to any application or user with Red Hat JBoss Data Virtualization, a data supply and integration solution.

- Easily connect disparate applications, services, or devices in real time, including support for healthcare-specific transaction sets such as Health Level-7 and others with Red Hat JBoss Fuse, an open source and lightweight enterprise integration platform.

- Connect independent systems and allow them to share information safely with Red Hat 3scale API Management Platform.

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MOBILE INNOVATION

New mobile devices and applications are becoming critical components for supporting patient-centric care, as they bring together convenience, productivity, and patient engagement. Whether it's a smartphone application providing a physician with the latest lab results, or an application that sends data to support disease management efforts, IT organizations need a way to quickly deliver and incorporate mobile technologies.

Red Hat Mobile Application Platform supports an agile approach to developing, integrating, and deploying enterprise mobile applications—whether native, hybrid, or on the web. The platform supports collaborative development across multiple teams and projects with a wide variety of leading toolkits and frameworks and provides privacy- and security-friendly Mobile Backend-as-a-Service technology.

AGILITY AND FLEXIBILITY FOR SPEED

With cloud infrastructure products from Red Hat and standards-based hardware from Intel, IT organizations can take advantage of DevOps principles and the open source development model, with unmatched technology advancement and no traditional vendor lock-in.

New Intel Xeon® Scalable processors are workload-optimized to support hybrid cloud infrastructures and the most high-demand applications. Platforms built on these latest-generation processors can deliver 4.2 times greater virtualized workload throughput to reduce the total cost of ownership (TCO) by up to 65%.[*]

Red Hat cloud technologies let organizations choose an on-premise, hosted, or hybrid environment, depending on their own requirements. Ansible by Red Hat and Ansible Tower by Red Hat are automation platforms for provisioning IT systems, deploying applications, orchestrating complex workflows, and managing the configuration of systems, networks, and applications—all of which helps improve the IT organization's ability to quickly respond to changing requirements.

* 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 five new Intel Xeon Platinum 8180 (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.

ABOUT INTEL

Intel (NASDAQ: INTC) is a world leader in computing innovation. The company designs and builds the essential technologies that serve as the foundation for the world's computing devices. For more information, visit us at intel.com/healthcare.

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