# APPLY

*healthcare management in all new ways.*

## HP Converged Medical Infrastructure with health management software

Highly reliable, always-on infrastructure ensures better,
more efficient control of patient records for Epic customers.

Solution brief

Today's healthcare IT organizations face many challenges. For example, system performance must remain high, enabling instant access to patient records. In addition, superior information security must be employed to ensure compliance with patient privacy regulations. And every healthcare organization requires a highly reliable IT environment that provides 24x7 application availability—ensuring medical staff can access the files they need, when they need them. Failure to meet any of these objectives could impact quality of care and jeopardize patient safety.

Many providers address these issues enterprise-wide with advanced software solutions from Epic, running on IT infrastructure from HP. Designed to integrate all patient records from all locations, applications from Epic—including the EpicCare™ suite and MyChart™ patient connectivity—must work in concert with your IT infrastructure to create a secure, continuously available, always reliable, high-performance solution that:

• Provides secure, authenticated information access from any location

• Ensures regulatory compliance, provides security of records and improves disaster recovery readiness

• Supports your ongoing commitment for improving patient care and staff efficiency

• Provides a consolidated patient record database, creating the most accurate, consistent data

But a health management solution is comprised of more than just software. To complete the solution, you must also choose an infrastructure. For forward-looking healthcare companies, HP Converged Medical Infrastructure is a high-performance, cost-effective choice.

## HP and Epic – committed to your success

For more than 30 years, HP and Epic have shared a collaborative relationship—working together to test, configure, design and deliver advanced healthcare solutions to organizations like yours. As part of this long-term relationship, Epic has consistently tested and validated a broad range of HP products. This allows HP to fully support Epic applications that utilize HP StorageWorks XP and EVA (Enterprise Virtual Array) systems, and HP ProLiant and Integrity servers. The experience gained during successful implementations in ambulatory care settings, at hospitals, academic facilities and pediatric organizations, enables HP to provide Epic customers with unified solutions—integrated software running on integrated infrastructure—available in configurations to meet the needs of healthcare organizations.
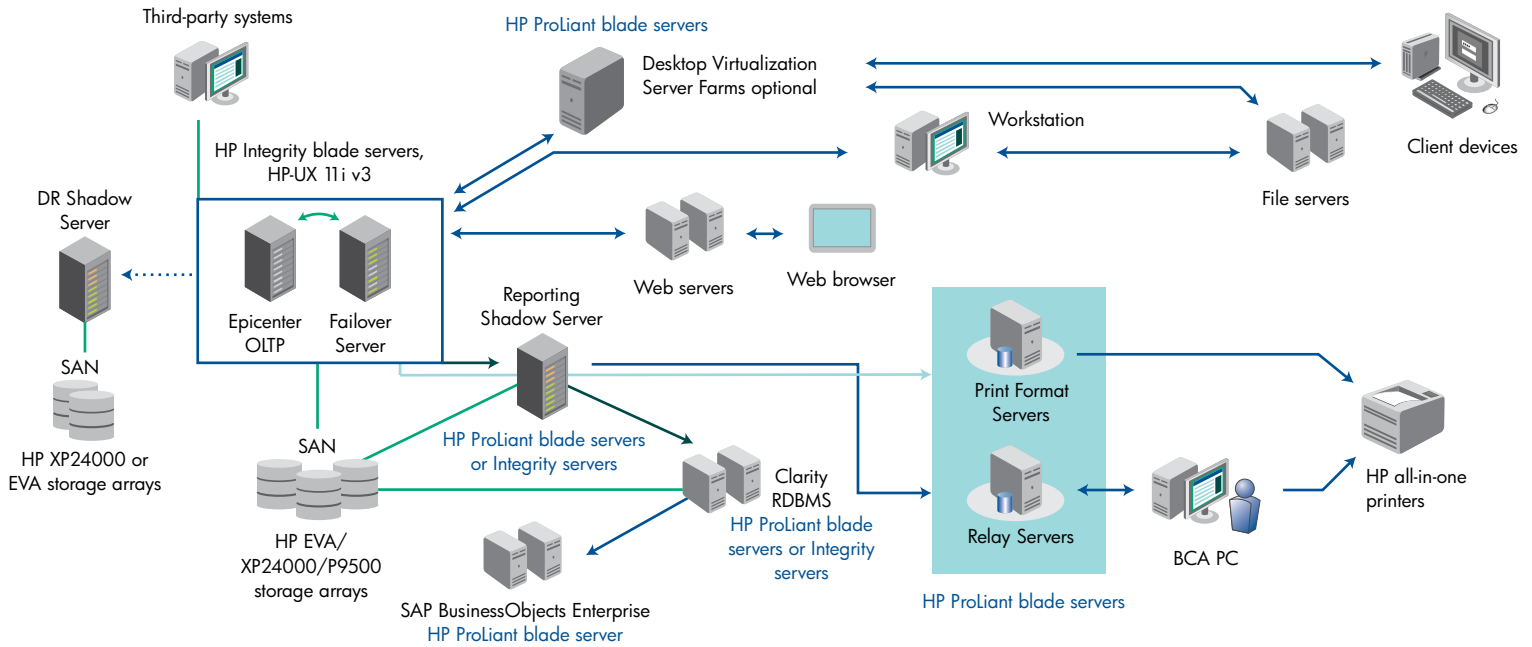
## Why HP for Epic?

HP provides Epic customers with cost-effective, high performance solutions that address the myriad of challenges healthcare IT organizations face. Built on HP Converged Medical Infrastructure—a proven architecture and strategy for unleashing the potential of your medical IT—Epic solutions include the broad portfolio of HP products, including handhelds, laptops, desktops, servers and storage. You also benefit from round-the-clock service options with environmental monitoring, helping you head-off unplanned downtime.

To demonstrate HP's commitment to Epic and our joint customers, HP established a Program Office with resources dedicated to the successful validation of HP products, correct and optimized configurations for customer deployments, and ongoing support for the adoption of new technologies.

**Example of Epic integrated infrastructure on HP**



## HP supports your Epic workflow

An industry leader with more than 30 years' experience delivering innovation to healthcare systems, HP provides highly reliable solutions that help ensure all patient records remain available all the time. Highly demanding applications—including EpicCare and MyChart—powered by HP servers, supported by HP StorageWorks and backed by HP services enable you to drive up success while driving down both risk and cost.

**HP Converged Medical Infrastructure** – Virtualized, resilient, orchestrated, optimized and modular, HP Converged Medical Infrastructure matches the supply of IT resources with the demand for applications in an optimal way. By transitioning away from a product-centric approach to a shared-service management model, HP Converged Medical Infrastructure helps you unleash the potential of your medical IT by enabling you to:

- Use any application, anywhere – including PACS
- Flex resources on demand – to meet changing needs
- Unlock productivity – with round-the-clock accessibility
- Provide predictable continuity of service – keep systems up and available, all the time
- Get faster time to business value – driving down costs during every hour of operation
- Build on what you have today – to protect your legacy investments

**HP Integrity and ProLiant servers** – offering a server for any need; available in a wide variety of form factors; choose from mission-critical HP Integrity servers built on HP Blade Scale architecture, ProLiant servers and BladeSystem Matrix—the industry's first converged infrastructure, delivered in one cost-efficient enclosure

**HP StorageWorks storage systems** – bridging the gap between data explosion and storage infrastructure; for your Epic implementation, choose from disk arrays, scale-out network attached storage systems, tape storage, storage networking and much more

**HP StorageWorks EVA Disk Arrays** – powerfully simple, enterprise-class storage solution; affordable and virtualized storage with a low entry price and low total cost of ownership; provides the reliability and availability you require to access the patient files you need, when you need them

**HP StorageWorks XP24000 and P9500 Disk Arrays** – designed to handle business-critical applications like EpicCare; smart choice for integrated electronic health records including advanced clinicals; XP24000 provides outstanding reliability, availability, performance and capacity. The P9500 offers bullet-proof storage for mission-critical infrastructures where constant access to data is required; it is currently under evaluation by Epic.

**HP Networking** – A critical element of any health management solution, HP Networking devices—which have received the industry's highest ratings in availability, performance and reliability—enable staff to move from office to office, building to building and always have access to the patient files they need; excellent choice for clinics, affiliate offices and remote locations to keep staff members connected, no matter what.

**HP Z Workstations** – Engineered to optimize the way the processor, memory, graphics, operating system and software components work together, HP Z Workstations deliver computational power that helps healthcare professionals accomplish more with their time.
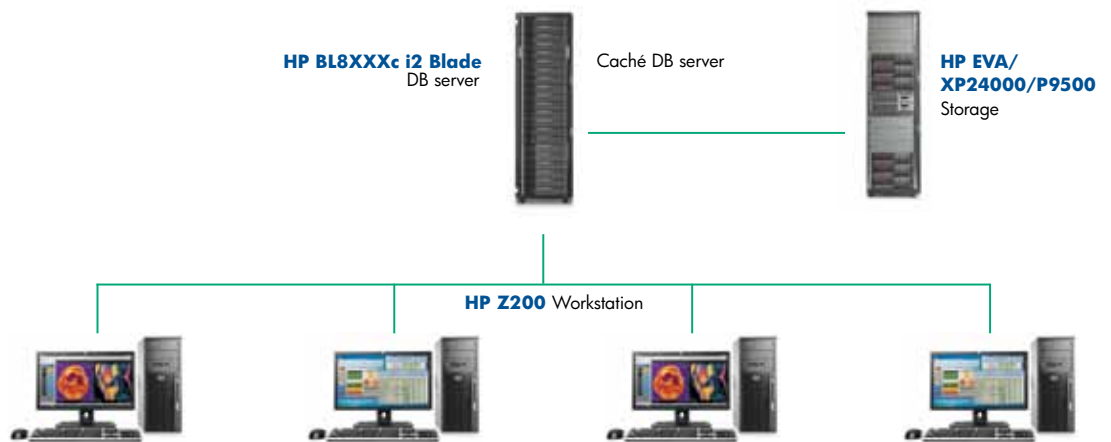
**Client devices** – HP's ultra-portable laptops, notebook computers, netbooks and tablet PCs are lightweight and can be used almost anywhere; HP also offers the latest touch screen computer technology that brings computing to whole new hands-on level.

**HP services** – comprehensive experience to align applications, infrastructure and facilities with your business goals; offering expertise across every aspect of IT; helps you modernize applications and infrastructure to reduce complexity, align business and IT processes, and maximize efficiency
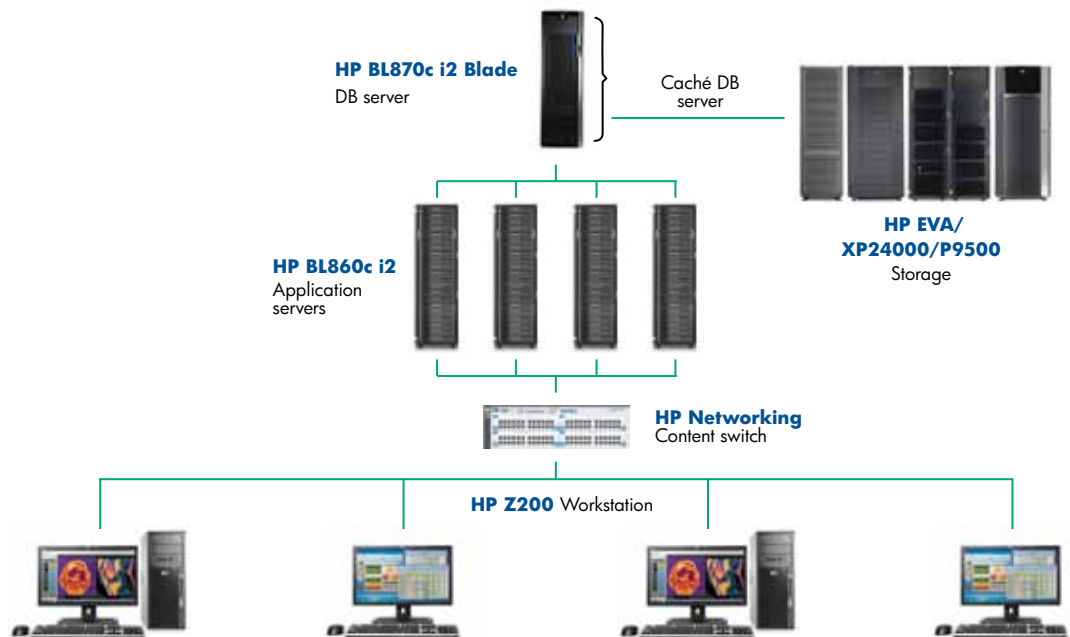
## Example configurations

The following configurations are examples only. Consult with your HP and Epic representatives for an official recommendation that meets your unique needs.

**EpicCare mid-range configuration (SMP model)**



**HP BL8XXXc i2 Blade** DB server    Caché DB server    **HP EVA/ XP24000/P9500** Storage

**HP Z200** Workstation

**EpicCare large configuration (distributed model)**



**HP BL870c i2 Blade** DB server    Caché DB server

**HP BL860c i2** Application servers

**HP EVA/ XP24000/P9500** Storage

**HP Networking** Content switch

**HP Z200** Workstation

| Advanced HP technology helps minimize your risk in an Epic implementation | |
| --- | --- |
| **Compatibility** | Across Epic software applications |
| **Scalability** | Delivering the capacity required as defined by your Epic Sizing Guide |
| **Data tiering** | Using the right storage solution at each stage of the information lifecycle |
| **Data mobility** | Easily move data from one platform to another |
| **Data protection, archiving** | Redundant, reliable backup methods; secure long-term storage |

"Once you begin running your clinical processes on computers, you can't stress reliability too much. By going digital, we've entrusted the well-being of our patients in part to our technology. In HP, we have a partner who understands how critical it is to have systems that deliver the performance and availability we require."

– **Edward Nazzaro**, Chief Information Officer, Fallon Clinic

"Our goal is to make IT invisible, so that doctors and nurses can focus on their patients without worrying about the underlying technology. The high reliability of HP products makes that possible. Thanks to HP Integrity blades, HP StorageWorks, and HP Serviceguard, we are currently achieving better than 99.99% availability."

– **Aivars Apsite**, technology manager, Metro Health

## Service options

HP provides a comprehensive array of solutions across services, software, servers, storage and networking. In addition, HP's services expertise can bring together the management software, resources and infrastructure support for your Epic applications.

You can use these services to help keep critical processes "always on":

• Integrated Support

• Server Services

• Mission-Critical Services

• Service Management Services

• Multi-vendor Support Services

• Storage Services

• ProActive 24

• Security, Compliance & Continuity Services

• Support Services

**You can also choose from these storage services:**
Storage Infrastructure Optimization Services

• Storage Consolidation

• Data Protection & Replication

• Storage & Data Migration

• Storage Management

Storage Technology Services

• Storage Support

• Storage Installation & Implementation

• Scalable Event, Technical & Solution Services

Related Services

• Data Center Transformation

• HP CarePack Services for Storage

• Virtualization Support

## Resources

www.hp.com/storage

For more information, contact Epic and HP's Program Office at hp4epic@hp.com.

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