

SOLUTION BRIEF

Maximize Electronic Health Records Performance with FlashArray//XL

Top-tier power for your most important clinical application.

In a fast-paced care environment where patient expectations are high and demands of quality care delivery are reliant on electronic health records (EHR) applications to perform quickly and cyberattacks make the daily news, Pure Storage® FlashArray//XL™ storage delivers the performance, scale, and security your healthcare business needs to improve patient care. Built to work with the unmatched flexibility of Pure Fusion™ and the Pure Storage platform, the newest generation FlashArray//XL R5 has increased performance density, integrated intelligence, automated workload management, and cyber resiliency that enables an Enterprise Data Cloud, reducing complexity and driving operational agility. These high performance capabilities can now support the intensive data storage needs of the world's largest health systems.

Boost EHR Performance, Availability, and Flexibility

All-flash solutions from Pure Storage uniquely support the care initiatives driving provider organizations mission to deliver high quality care. Requirements to expedite access to patient data for faster diagnosis and treatment, enable AI initiative readiness and adoption at scale, support analytics, and embrace cloud strategies are all forming the next generation of care delivery. FlashArray//XL is designed to provide high performance for medical data-intensive workload, provides 99.9999% availability, and delivers non-disruptive upgrades—ideal for healthcare, where there is no tolerance for inconsistent performance or unplanned disruptions.

Cloud-like Scale for Patient Data

Providers are faced with the challenge of enabling digital transformation and increasing digital automation to streamline operations and achieve scale. Synchronize operations across clinical and administrative staff to improve patient experience and accelerate physician decision making. Deploying a hybrid cloud strategy allows providers to cost effectively store data where it fits best, moving between on premises and cloud seamlessly without costly ingress and egress fees. A comprehensive approach to data governance and compliance helps prevent disruptions to patient care and processes.



Secure Storage

- Data infrastructure with cyber resilience built in.
- Protect patient data from ransomware with immutable SafeMode Snapshots.



Accelerated Speed

- Deliver fast, reliable access to medical information for clinicians and patients.
- Consistent sub-millisecond performance at massive scale.



High Availability

- No planned downtime supports 24x7 clinical operations.
- Data-in-place, non-disruptive upgrades

Always-on Data Protection and Security

Provider organizations need to earn and keep patient trust. Patient experience and delivery of care suffer when effective security, privacy, and compliance is not in place. Providers need to synchronize security protocols across clinical and administrative operations and maintain data governance and compliance. FlashArray//XL is secure, available, and easily recoverable after disruptions, including malicious attacks. To speed data recovery, improve recovery options, and mitigate ransomware attacks, leverage [SafeMode™](#) Snapshots that prevent cyberattackers from tampering with or maliciously destroying critical recovery data on both source and replication target arrays.

Storage that Grows With You

EHR is a critical application for patient care and hospital operations. Due to the high importance of supporting EHR applications, healthcare organizations are constantly seeking ways to improve operational efficiency and streamline growth efforts. Pure Storage delivers performance with unmatched reliability and efficiency that both powers and protects your business outcomes. FlashArray//XL provides a unified and native storage platform that scales easily to support an entire enterprise, regardless of patient record and data volume or how many active physicians are requesting data. This scalability—combined with flat-and-fair maintenance and support fees—make image storage costs predictable with easy expansion, instead of major upgrades.

Operational Simplicity and Lower Costs

Healthcare organizations have struggled to manage the cost of care and storage expenses as patient data sets increase to meet expanding patient volumes and demands and advancements in technology and AI. Unexpected costs and paying for unneeded storage can create economic strain, operational inefficiencies, and performance issues that hurt physicians' ability to provide quality care. Drive operational and cost efficiencies across your business to reduce TCO. By leveraging the high performance and reliability of FlashArray//XL, your organization can move from infrastructure management to centralized control and automated operations while increasing performance and reducing complexity and costs. Simple, seamless, and sustainable storage for electronic health records means less infrastructure management to free up teams to focus on care delivery and innovation.

Improved Performance Metrics

With FlashArray//XL R5, new levels of performance are delivered with unmatched performance density for ultra low-latency, highly transactional workloads. Metrics for Epic environments include:

- Burst IOPS: 929K IOPS
- Workload IOPS: 590K R + W GenerateIO
- Chassis size: 5RU
- 67% higher performance over previous generation FlashArray//XL for Epic environments

Additional Resources

- Learn about how Pure Storage can help healthcare organizations [scale your storage needs](#).
- Read about [FlashArray//XL](#).
- Find out [6 ways healthcare AI is saving lives](#).
- Explore [10 Reasons to Run Epic on Pure Storage](#).

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