SOLUTION BRIEF

Increase Imaging Performance for Life Sciences

Speed your infrastructure to keep up with your innovation.

A cornerstone of therapeutics and vaccine pipelines, life sciences imaging data comprises close to 70% of all clinical data worldwide. As organizations rely more on advanced imaging modalities, establishing an effective IT infrastructure to support that data is critical. How can you transform your capacity to harness the power of your data now and into the future?

Keep Pace with Imaging Advances

Groundbreaking discoveries depend on quick access and analysis of imaging data: Waiting for those images to load or for analytics to churn through volumes of imaging data may mean that your infrastructure is more of a hinderance than a strategic advantage.

Given the imaging and analytics requirements of pioneering research, the need for fast and scalable infrastructure will only grow. That's why leading scientific research organizations are choosing solutions from Pure Storage®, which are a quantum leap ahead in speed, scale, and agility.

Enterprise Imaging Runs Faster on Pure

Pure delivers a Modern Data Experience™ that enables life sciences organizations to host multiple analytics applications and concurrently support large numbers of users. Use Pure technology to make fast data analytics possible and expand storage quickly without disruptive downtime.

Enterprise imaging on Pure provides fast, flexible resources for the ever-growing information requirements of advanced scientific research. FlashBlade® is built to handle the most challenging data requirements and deliver consistent, fast performance even during peak use of the most complex imaging modalities. FlashBlade is the industry's

Data Growth without Limits

Pure easily scales to support exponential data increases.

Fast, Reliable Performance

Pure easily supports scientific imaging's rigorous data-processing requirements.

Power and Flexibility for Analytics

Train algorithms faster while ensuring your data platform keeps pace.

most advanced, all-flash storage solution with [unified fast file and object storage (UFFO)](#), bringing together the strengths of two key forms of data storage within one system. FlashBlade addresses the speed, reliability, and performance needed for the enterprise imaging and data-intensive applications used by today's leading pharma and research organizations.

Drive Enterprise Imaging Performance

Pure technology can enhance the performance of digital imaging systems in several key areas:

Digital Pathology: Pure provides the fast and expandable infrastructure that you need to implement digital pathology solutions for image capture, storage, and analysis, while leveraging partnerships with leading picture archive and communication system (PACS) vendors. Pure solutions also integrate directly with digital pathology solutions for easy access to large volumes of studies and support the storage of both DICOM and non-DICOM images. [FlashArray//C](#) provides all-flash performance with the highest reliability and best configuration options. FlashBlade provides cloud-optimized, simple unified file and object storage.

Microscopy and Mass Spectrometry Imaging (MSI): Research organizations routinely employ data-intensive advanced light and electron microscopy techniques and are now slowly adding 3-D microscopy to the repertoire. With every single specimen being scanned and imaged to build a 3-D image, data processing and storage needs are significant. Research teams using mass spectrometry imaging to conduct spatial proteomics have similar requirements. Pure's FlashArray//C and FlashBlade deliver the fast, flexible performance required for storage, IO, and analytics that you need.

Image Analysis Using Artificial Intelligence and Machine Learning: Pure solutions are tuned to integrate with artificial intelligence (AI) and machine learning (ML) solutions for precision medicine applications such as algorithmic cancer diagnoses using imaging. Pure provides the foundational infrastructure for unified image cataloging based on open-source platforms, such as XNAT and others. Pure's native support of AI and ML with the latest graphics processing units (GPUs) ensures the highest level of performance. Pure integrates easily with leading imaging instruments and matches the strength and power of high-performance computing, supporting analytics needs and delivering vastly expandable storage. [FlashBlade for AI](#) is architected from the ground-up to be massive parallel for AI. [AIRI®](#) is the industry's first, full-stack AI-ready infrastructure.

Additional Resources

- Find out how [Paige.AI relies on Pure to support cancer imaging research.](#)
- Learn more about [life sciences solutions from Pure.](#)
- Learn more about [healthcare solutions from Pure.](#)

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