atlas

CORE

The Intelligent Design Behind Performant Storage Solutions

Effective data handling depends on fast, efficient, and extensible software

Hardware specifications used to be the biggest differentiators between enterprise storage solutions. This measuring stick is no longer the case. Software has superseded the role of hardware because of its adaptability and flexibility to incorporate the new features and functionality more rapidly that customers need to get their work done efficiently. OpenDrives storage solutions are powered by our Atlas Core, so our storage can achieve much higher levels of performance with reduced architectural complexity, can flex and adapt to changing business and operational conditions, and can extend your return on investment further into the future.

Increased performance without complexity

Given the ever-increasing size and complexity of the average enterprise's data estate, enterprise storage performance is more important than ever. Poor performance caused by latency or bandwidth issues can be highly detrimental to users and workflows, preventing them from completing tasks in a timely manner and causing operational cost overruns. Simply increasing hardware capabilities won't eliminate these obstacles to productivity.

High-performance enterprise storage requires intelligently architected software that handles and routes data more efficiently and provides other valuable features and conveniences to enhance operations and the user experience. From implementing intelligent caching, which is uniquely designed to access data so that subsequent requests for the same data are read from memory and not disk, to enabling different bandwidth consumption allocations depending on the user or workstation, our Atlas Core powers our storage solutions to work with your enterprise data much more quickly and intelligently than the competitions' offerings. Our roots are in unparalleled, highly performant storage, and our Atlas software facilitates that competitive edge.

The power of simplicity and flexibility of design

Storage vendors often overlook the value of a streamlined architecture and ease of use in lieu of a sole focus on performance. OpenDrives rejects that notion. We believe storage should be performant and provide ease of use, too. We accomplish this by leveraging the power of our Atlas Core to create solutions that are simple to use, adaptable to nearly any operational condition within the enterprise, and flexible enough to scale up and out to meet any business's needs.

Atlas also encourages open standards and open integration with other technologies in your data environment, turning it into an open ecosystem of interoperability in which technologies from different vendors play nicely together, helping to avoid those constraining vendor siloes and technology lock-ins. Embracing open standards ensures that Atlas works seamlessly with other software applications built around those same standards, while promoting open integration makes the process of deploying these technologies together much more straightforward.

We believe that design flexibility and solution modularity are the keys to effective scalability—regardless of whether you're scaling up a single system to its maximum performance capabilities, or scaling out by adding more storage compute or capacity. Atlas makes it easy via a distributed file system (DFS) for customers to scale both up and out depending on current operational needs, helping you avoid rip-and-replace equipment upgrades.

Our enterprise storage solutions are modular, too, allowing you to build the right solution for your environment with different functional modules (such as capacity modules) working seamlessly together, all of which can be easily managed from Atlas' single pane of glass. Our mount management capabilities support multiple open protocols such as SMB and NFS, while automation driven by our routines engine removes manual intervention from frequent tasks, enabling your staff to focus on higher-value activities while reducing operational costs and human-driven errors.

Extending your investment

When businesses make an investment into their IT infrastructure, they need assurances that the solutions they're purchasing not only provide immediate value but also continue to evolve and adapt as market and business conditions change moving forward. For example, while some organizations are making their first moves into the cloud and need basic cloud service mounting and management features, others are moving beyond simple public cloud services to combine the best of cloud-based and on-premises capabilities into a hybrid cloud architecture. OpenDrives continually implements new features to make sure that no matter where your cloud journey takes you, your OpenDrives storage solution adapts to better serve your needs along the way.

Another way to extend your investment into enterprise storage and achieve a longer-term ROI without a decrease in performance is to leverage our container support. Atlas enables you to run containerized applications, what we call pods, directly on the compute portion of our storage solutions, meaning that you can consolidate expensive hardware while positioning critical applications closer to the data it handles. Customized instruction sets, or recipes, for these pods helps you to build more sophisticated multi-application workflows. This functionality underpins our focus on performance, so you can maximize investment while retaining all the performant characteristics for which OpenDrives is known.

To learn more about other features and capabilities that Atlas provides, from data integrity and security to backup and disaster recovery, check out the following features table and connect with one of our account reps [here](#).

Atlas Core features and capabilities

Our solutions incorporate high-value features and functions that promote simplicity, flexibility, and scalability for enterprise data storage.

Pods and recipes

Single pane of glass (SPOG) UI

Mount management

Distributed file system (DFS)

Routines engine

Inline caching

Snapshots

Clustering

Data checksum

Dynamic block and striping

Bandwidth management

Single namespace

open
DRIVES