

Atlas

Shoulders the load of your workflows

OpenDrives software platform powers
ultra-high performance, low latency,
and centralized management



OpenDrives—A Software Company to the Core

When you think of enterprise storage, you probably think of massive hardware units racked in a data center. We want you to think differently. The principles informing the ongoing evolution of OpenDrives enterprise storage solutions are to minimize hardware footprint, increase portability, and de-emphasize the commodity aspects of hardware. We're headed in a new and exciting direction—it's really an inflection point for our company as an enterprise storage leader.

Many of the critical features which help our storage solutions achieve ultra-high performance, incredibly low latency, and an unparalleled ease of use are based in our powerful software platform, Atlas. OpenDrives is as much a software as a hardware company. This allows us to innovate rapidly and push new and exciting features to our customers—and keep in mind, our agility with software helps you accelerate your own organization's business momentum, pivoting quickly to any workload and project regardless of size and scope.

Going Beyond Performance

Most companies want to help customers increase their performance capabilities. Our goals are way more ambitious than that. Where they want to help your business perform, we want you to outperform. Since the beginning, our company has had a singular focus on designing the fastest enterprise NAS storage solutions with the highest throughput capabilities and the lowest latencies imaginable. In fact, that's how we started. Vendors weren't creating storage solutions that went beyond ordinary performance specifications, that could truly outperform in every way possible, so our founders designed one that could and did. Outperformance is in our DNA.

Atlas Outperforms So You Can

To outperform, your business requires storage that moves data as fast as possible while minimizing latency arising from system transactions. You also need storage that is capable of massive scalability (or hyper-scale, which means scale up performance within a scale-out capability) to accommodate the

dynamic changes within your growing organization and the projects and data you put through your workflows. However, you can't have such ultra-high performance at the expense of data integrity—so you need automated data integrity built into the solution to ensure against corrupt data or data loss. Ease of use and integration, centralized management, and actionable insights create operational efficiencies that truly help you go beyond plain-vanilla performance.

Our Atlas software platform is loaded with capabilities that drive these and other value-added features. Atlas provides the intelligence, automation, and single-pane-of-glass visibility needed to push the boundaries of what a data storage solution can do for your business. Speed? Absolutely! Integrity? Check! Simplicity? Built right in. Now that's how you outperform. We put an enormous amount of development time and effort into making sure Atlas seamlessly incorporates features that take performance to a completely new level. Atlas is at the core of every one of our new Ultra enterprise storage solutions.



The following table shows just how capable Atlas is at increasing storage performance while facilitating scalability and data integrity. We've organized these features around focal priorities and outcomes that our customers have told us matter most to them:

Outcome	Feature	Definition	Value
Performance	Inline Caching	All I/O hits high-speed memory first	Intelligently maximizes throughput
	Active Data Prioritization	Active data is tracked as the system is used	Provides the lowest latency response to the hottest data
	Dynamic Block	Intelligently fits incoming data to the most efficient block size from 4KB to 1MB	Minimizes transaction I/O and reduces wasted storage capacity
	Inline Compression	Data and metadata only exist in an uncompressed state in CPU and RAM	Minimizes the workload on slower components and drives
Integrity/ Reliability	Clustering	Multiple storage systems are grouped as a single logical entity	Load balances and provides fault tolerance
	High Availability	One compute module stands ready in hot standby mode	No hardware single point of failure ensuring availability
	Snapshots and Accelerated Replication	Local and remote "copies" of data	Enables disaster recovery
	Intelligent Data Integrity	Combination of fully check-summed file system, dual parity striping, inflight error correction and more	Multiple layers of protection to ensure consistency and security of data
Scale	Distributed File Systems	Combines multiple OpenDrives systems into a larger clustered system	Enables massive scale in throughput and capacity
Ease of Use	Single Namespace	Access all data on multiple systems from single mount point	Simplified data accessibility
	Single Pane Of Glass	Single UI interface for all systems	Simplified system management
	Standards-Based Protocol Support	Connect to OpenDrives storage without additional drivers or software	Simplified connectivity
Business Intelligence	Actionable Analytics	Ability to access all data about the storage system and act on that information	The analytical data important to you is easily obtained, interpreted and converted to positive action

Other Atlas software features work in tandem with these to further extend performance, integrity, scalability, and usability:

- Accelerated Pool for shared projects
- Dynamic Data Efficiency
- Role Based Authentication
- Bandwidth Throttling
- RDMA Offload
- SMB Multi-Channel
- Data Migrator
- Automated Routines
- Flexible Notifications
- Realtime Connection Monitoring
- Historical Connection Analytics
- Responsive UI design
- RESTful API/SDK

Achieving A Return On Performance

At OpenDrives, we understand that your desired outcome isn't just to have the fastest, most reliable, and most user-friendly enterprise storage solution on the market. You're trying to accomplish much bigger business outcomes, like keeping your CapEx and OpEx in check, creating operational efficiencies wherever you can find them, investing in tools that have real longevity and that interoperate with all your critical toolsets, and always finishing your projects on time and within budget. Your storage infrastructure is a critical part of how you get work done, and it can have an impact on these outcomes and how well you achieve them. You not only need a return on investment but also a return on performance.

We know that your focus is on your business, and so ours is too. Our software platform is extensible and continues to grow and evolve with the demanding needs of your business. As your business scales to whatever work is in front of you, so does your OpenDrives storage solution. Whether your goal is to scale up, scale out, or hyper-scale along multiple performance and capacity dimensions, we have the storage solution that's right for you. Powered by Atlas.