Empowering enterprise creatives —without compromising IT

Atlas delivers high-performance, media-optimized NAS solution that bridges the gap between Creatives and IT

What happens when two departments don't see eye to eye? Competing priorities and undercover operations like shadow IT. In the case of data creators (creatives) versus the data managers/handlers (centralized IT), it's usually the creatives who feel forced by deadlines and resource pressures to purchase unsanctioned media-centric data storage solutions that meet their specific high-resolution content needs. Creatives are constantly racing against the clock despite their time-consuming workflows that are high throughput, low latency. This explains the prevalence of shadow IT operations. In fact, studies indicate that around 30-40% of enterprise organizations' tools and applications are unapproved by IT. Shadow IT data storage operations are not safe, nor are they sustainable, but they are a reality due to this common conundrum of two competing departments trying to get their way.

On the flip side, IT makes storage infrastructure decisions from a completely different perspective. In addition to user experience or workflow efficiency, they need to also focus on maintaining security, data integrity, business continuity, scalability, and costs. Adding another system to the data center just to meet creative-centric needs is a tough decision to make, especially as more businesses are forced to do more with less resources. IT decision makers have an important task in balancing the creative team's needs against the entire organization.

So where is the middle ground? How can creatives get the data delivery and features they need while IT maintains their goals?

Introducing OpenDrives' Atlas: Corporate Creative Solution

Dedicated to Creative Needs

For over a decade, OpenDrives' software-defined storage platform, Atlas, has been powering some of the most demanding media production workflows. Technology should never be a barrier to the creative process, and OpenDrives understands this best because we were once creatives ourselves. Unlike our competitive peers focused on more general-purpose storage systems, Atlas focuses on the high-throughput delivery of large files that our creative peers like you crave.

Atlas' simplicity, interoperability, and speed empower you to unleash your full creative potential by pushing the limits of what you can achieve. Of course, Atlas also offers the data integrity, security, and resiliency features savvy IT professionals look for to ensure data is protected and accessible. As a result, Atlas has been widely recognized by the networks, video production studios, and advertising agencies, which operate similarly to corporate creative teams like yours, for driving highly performant, collaborative, reliable, and easy-to-use storage environments.

The Atlas Corporate Creative Solution combines all the features and capabilities that have made Atlas so sought after within media and entertainment circles. Our powerful Atlas Performance Engine liquidizes and serves video content to critical applications at blazing speeds. You get the flexibility to launch the applications critical to your workflow like data movers and orchestration tools (like MASV), as well as the ability to connect to your assets in the cloud with full browsing capability in a familiar file/folder environment.

What you get is a right-priced bundle that never sacrifices performance, integrates into your existing workflow, and doesn't punish scale or growth. Best of all, it's IT friendly too.

Benefits for the Never-Idle Creatives

- Built to withstand and sustain read and write performance under heavy, concurrent, multi-user workloads
- Seamless collaboration with a centralized storage platform, even when working remotely
- Customized Adobe Shared Caching makes mounting and rendering Premiere Pro projects more efficient
- Faster project turnaround for higher productivity with Atlas Performance Engine
- Easier accessibility to assets in public clouds like AWS
- Containerization of critical data services means they're primed and closer to the data for easier access and faster performance
- Interoperability with a wide variety of creative applications and tools
- 24/7 support by a team staffed with media technicians and engineers with real-world creative experience

Understands IT Requirements

An IT administrator's job is not easy, and we get that, which is why we built this solution to cater not only to the creatives, but to you. Not only do you have to serve the needs of the entire organization, you also have to balance individual department needs with what's best for the overall company. You're the one that must consider data delivery performance, plus all the other things that others deprioritize like the security, integrity, accessibility, recoverability, and cost of data across the board. Unfortunately, this usually results in friction between the creatives you serve. They want speed and ease; you have IT data governance requirements you need to uphold.

If you're one of those special cases where you're both an IT and a creative, it must get frustrating having to prioritize practical general-purpose storage requirements like scalability, redundancy, recovery, and support over keeping your creativity from having to wait for storage performance.

Thankfully, with the Atlas Corporate Creative Solution, you don't have to choose. You get a solution that:
· extends your data governance and overall security posture requirements
· allows you to scale-up cost predictably thanks to Atlas' unlimited capacity licensing model
· lowers downtime risks with the Dual Node bundle option, which includes Active/Passive High Availability (HA)

Benefits for the "Must Always Support, But Never Increase Risk" IT Admins

· Reduced IT overhead and data sprawl with one, centralized system to securely manage large teams working in often remote/hybrid environments

· Predictable scaling costs with an unlimited capacity model, meaning your licensing cost stays the same even as you increase your system's capacity

· Composable architecture allows for the easy addition of additional features without disruption

· ZFS reliability and workflow-focused performance architecture meet dual needs for both creatives and IT

· Extended security posture with options for encryption, AD/LDAP binding, and compatibility with SSO tools like SAML and Okta

· Seamless integration with multi-protocol support (NFS, SMB, S3), Docker Swarm support, and a RESTful API

· Active/Passive failover and data integrity checking during read and write operations ensure solid protection against data corruption (even invisible corruption) so that you can be certain that what you put in is what you'll always pull out

What's Under the Hood

OpenDrives' powerful and unique Atlas Performance Engine combines widely used open-source tools with our engineering to deliver the best balance of low-latency media file delivery, ease of use, and market cost. It is a reflection of our engineering expertise in unstructured data workflows that keep your creative productions running seamlessly all day long. It combines unique and intelligent data-handling and tiering capabilities with automation, data integrity, and most importantly of all, blazing-fast speed.

In more technical terms, here's what's included:

- Customized kernel, services, software tools, and latency-focused system tuning maximizes consistent high performance for large, unstructured datasets
- Adobe Accelerator—our specialized approach to shared caching makes mounting and rendering Premiere projects faster and more efficient, especially for collaborative teams
- Fully inline caching analyzes data in real time to maximize block sizing while inline compression reduces the block footprint on disk
- Automated block-level data promotion from bulk storage to cache tiers maximizes RAM/NVMe utilization, thereby minimizing the capacity and cost requirements to achieve low latencies and high performance
- Intelligent prefetching accelerates data access by promoting data to the system cache, then automatically predicting and serving up the most popular, requested data
- Provides All Flash Array performance in a hybrid (HDD/NVMe) solution, which significantly reduces total cost of ownership and scaling
- Algorithmically monitors data usage to automatically pin hot data to caching tiers

Compared to the competition under heavy loads*
· Up to 100% faster reads
· Up to 400% faster writes

Compared to the competition under single use loads*
· Up to 25% faster reads
· Up to 200% faster writes

*Provided results based on specific testing conditions set against three enterprise general-purpose storage competitors. Performance will vary based on real-world environment and conditions.

Certified Hardware Options

ceres SINGLE NODE AT-A-GLANCE

Specification	Ceres Hybrid	Ceres All-NVMe
Manufacturer	Supermicro	
CPU	AMD 16 cores @ 3.0GHz	
RAM	384GB DDR5	
NIC Options	8x 25Gbps SFP+ Ports **or** 2x 100Gbps QSFP Ports	
Form Factor	2U	
HA Support	Not Supported	
Base Module Depth	25.5" (68.4cm)	
Scale-up Capacity	Up to ~1.2 PB	
Base Module Performance	Up to 2GB/s	Up to 6GB/s
Scale-up Performance	Up to 6GB/s with JOBD	N/A

Base module - Compute, Cache, Capacity

Options: Hybrid or All-NVMe

8x 25Gbps SFP28 **or**
2x 100Gbps QSFP28

JBOD Options - Additional Capacity

2U 12 Drive · Up to 8 Modules	2U 12 Drive · Up to 8 Modules
4U 24 Drive · Up to 8 Modules	4U 60 Drive · Up to 4 Modules

eos DUAL NODE AT-A-GLANCE

Specification	EOS
Manufacturer	Supermicro
Number of Compute Nodes	2
CPU (per node)	32-core Intel Xeon 2.8Hz (4.1GHz Turbo)
RAM (per node)	512GB DDR5 ECC
NICs (per node)	4x 100Gbps QSFP28
Capacity Drives (shared)	24 U.2 NVMe Drives
OS Drives (per node)	2x M.2 NVMe Drives
Supports JBOD Expansion	Yes
SAS Ports (per node)	8x 12Gbps SAS3 Ports
HA Support	Yes
Form Factor	2U
Depth	30" (76.2cm)

2 discrete hot-pluggable compute nodes per base unit

24x NVMe drive array shared by both compute nodes

Designed for scalability with 8 SAS ports per node

Supports both Atlas and Astraeus installations

Features and Capabilities

FEATURE	SINGLE NODE (CERES)	DUAL NODE (EOS)
Network Sharing (SMB and/or NFS and/or S3)	✓	✓
Local Users/Permissions	✓	✓
Atlas Performance Engine	✓	✓
Advanced Checksums for data integrity	✓	✓
Routines Engine	✓	✓
Local Snapshots	✓	✓
Remote Snapshots	Optional	Optional
Analytics & Diagnostic Tools and Notifications	✓	✓
Active Directory / LDAP+Kerberos	✓	✓
SAML/0Auth 2.0 Authentication/Okta	✓	✓
NFS over RDMA (NFSoRDMA) Ready	✓	✓
Docker Containerization	✓	✓
API Access	✓	✓
24/7 World-Class Domestic Support	✓	✓
Mount Manager - S3	✓	✓
Mount Manager - NFS/SMB	Optional	Optional
Single Pane-of-Glass (SPOG) Multi-System UI	X	✓
Active/Passive High Availability	X	✓
Software Price *	$47,840.90	$66,817.88

*Does not include hardware or installation. Reflects popular 3-year support plan.

Licensing

Our new licensing model makes it convenient to acquire Atlas with attractive multi-year contracts. We can help you find the model that works best for your budget.

Unlimited Capacity

Another way we're trying to disrupt the storage industry is to eliminate "gotcha" pricing when you want to expand your capacity. We find that up-charging for software when you simply need to accommodate more content is unnecessary. All Atlas bundles come with unlimited capacity per controller, meaning you can add another 500 TB or even 2 PB without additional software fees, up to the capacity limits of your storage hardware. As your workload continues to grow, Atlas' unlimited capacity brings you the peace of mind that comes with cost predictability.

Contact us to choose which Atlas Corporate Creative Solution bundle is right for you.

www.opendrives.com
sales@opendrives.com
+1 888-778-5491