The Atom

File and object storage for media workflows. One system. Fully supported.

Built on Ceph and standard Dell hardware — designed, delivered and supported by 33Mega.

33MEGA
DATASHEET

The Atom is 33Mega's storage platform: file and object storage for media workflows, delivered as a single, fully managed system, built on Ceph and standard Dell hardware. No proprietary hardware, no proprietary software licences, no forced refresh cycles — a supported product with the economics and openness of open source.

One platform: file, object and block

High-performance file storage (SMB and NFS with full POSIX support) and standards-compliant S3 object storage from a single system, under one namespace, supported by one team. Block volumes serve the infrastructure around your content — virtualisation, databases, playout. Editing, archive, content management, cloud integration and AI workloads run against the same platform.

Built for performance

NVMe storage accelerates metadata and active workloads, and intelligent data placement sustains throughput for high-bitrate video and restores from archive. Performance scales with the cluster as it grows — a property of the architecture, not a promise.

Open by design

The Atom is powered by Ceph, the open-source storage platform behind CERN's scientific data and many of the world's largest clouds, with more than 10,000 deployments worldwide. No proprietary file systems, no closed formats, no dependence on a single vendor's roadmap. Your data remains readable by open tools for as long as you keep it.

Reliable by architecture

Data is stored in multiple copies or erasure-coded across the cluster. The platform is self-healing: when a drive or server fails, data is rebuilt automatically and operation continues. Hardware failure is an expected event, not an emergency.

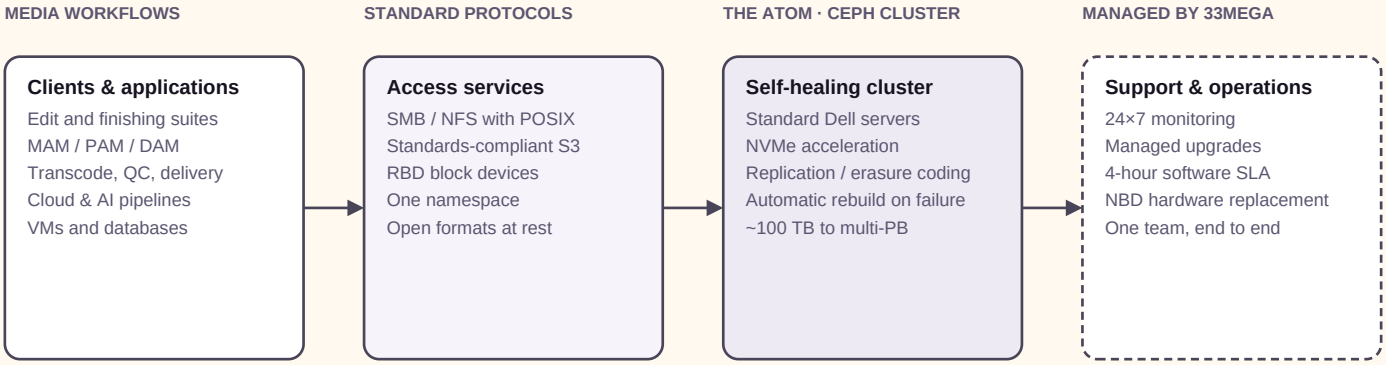
Fully managed, fully supported

- 24×7 software monitoring and support
- Four-hour software SLA — contractual
- Proactive management, software updates and lifecycle management
- Next-business-day hardware replacement
- End-to-end ownership by a single team

Custom management interface

Our custom management interface makes handling the Ceph cluster a breeze — upgrades, hardware fault location and performance profiling at the touch of a button. Leave it all to our engineers, or hook event notifications into your own monitoring. Everything is possible.

Architecture



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Built for media

The Atom was designed by people who have spent decades in broadcast, post-production, sport and archive. It expects large files, millions of objects, mixed file-and-object workflows, high-throughput editing, long-term preservation and integration with content management systems — because those are the environments its designers came from. AI, backup and general enterprise workloads run well on the platform; media is who it was built for.

Built around your requirements

Every deployment is designed around the workflow it serves — capacity from around 100 TB to multiple petabytes, performance sized to the job, and growth added without disruption or data migration.

Lower cost, explained

The Atom costs less for structural reasons, not promotional ones: standard hardware bought at market prices, open-source software with no proprietary licence, and a lean company without enterprise-vendor overhead. You pay for hardware and for support — the two things that actually cost money.

What support means in practice

One number to call, answered by media workflow experts rather than a triage script. We monitor the platform continuously and usually see problems before you do. Upgrades are planned, tested and performed by us. Hardware faults are handled end to end — we coordinate replacement and reintegration, so you never manage two vendors.

If you ever leave us

This is the section no vendor writes, so we will. If 33Mega disappeared tomorrow, or you simply chose to go elsewhere: your hardware is yours — standard and reusable. Your data sits in Ceph, open-source software with a large global community and multiple commercial support providers. Your applications talk to it over standard S3 and file protocols. Off-boarding is documented, not discovered.

We believe making it easy to leave is the best reason to stay.

Typical use cases

- Shared editing and finishing workspaces (SMB / NFS / POSIX)
- Content archive and long-term preservation in open formats
- MAM, PAM and DAM integration over standards-compliant S3
- Nearline libraries for fast partial restores to the edit
- Backup targets with versioning and protected retention
- AI and ML pipelines reading straight from the library
- Block volumes for VMs, databases and playout infrastructure

Technical highlights

Storage services	Unified file and S3 object storage under one namespace; block volumes for supporting infrastructure
Software	Ceph open-source storage software — proven at CERN, 10,000+ deployments worldwide
Hardware	Standard Dell enterprise servers with NVMe acceleration, owned by you
Scale	From ~100 TB to multiple petabytes, expanded without disruption or data migration
Management	Fully managed: 24×7 monitoring, managed upgrades and lifecycle management
Support	Four-hour software SLA; next-business-day hardware replacement — contractual
Protocols	Standards-compliant S3 API; SMB and NFS file protocols with POSIX support; RBD block devices
Data protection	Replication or erasure coding, self-healing on drive or node failure
Lock-in	None: no proprietary hardware, software or formats; documented off-boarding
Deployment	On-premises today; hybrid cloud to follow

Design an Atom around your workflow

Tell us about the workflow — capacity, performance, growth, integrations — and we'll come back with a design and a number. Talk to a media workflow specialist, not a sales script: **33@33mega.cloud** · **33mega.cloud/contact**