

# Panzura™ Quicksilver™ Cloud Storage Controllers

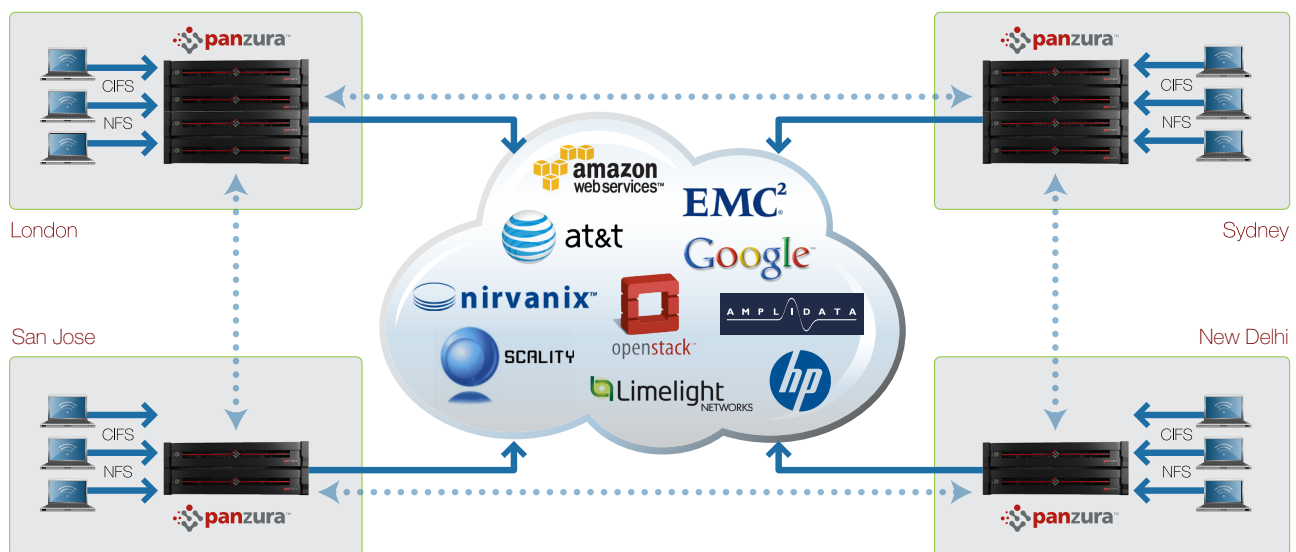
Globally-distributed enterprises face exponential data growth and struggle with the cost and complexity of storing and distributing data. Additionally, datacenter consolidation has pulled storage further away from enterprise users, compromising performance and severely hampering global access to mission-critical files. How can organizations keep up with this rising demand, eliminate data islands, and provide real-time global file access?

With up to 1/3 PB local cache, Quicksilver Cloud Storage Controllers combine local NAS functionality with the highly-scalable Panzura Global Cloud Storage System, seamlessly providing the flexibility, performance, and productivity benefits of distributed storage with the functionality, security and cost benefits of centralized storage. The Panzura architecture unites a single unified namespace and global file system that manages file creation, locking, storage, security and replication across all locations in real time, making the latest versions of any file visible and available to anyone, anywhere, at any time, regardless of where they were created or last edited. High-performance global file locking is managed dynamically with minimal overhead, preventing data collisions and ensuring data integrity regardless of the numbers of users, file sizes, or user locations. All Panzura storage systems leverage public or private clouds as a highly scalable storage sub-system to augment their massively scalable file system, providing users unrivaled cost, scale, time, flexibility and performance benefits of cloud storage. Data security is optimized through military-grade encryption that protects data both in motion and at rest in the cloud with keys managed by administrators.

Quicksilver Cloud Storage Controllers offer a compelling alternative to standard NAS storage arrays:

- Contain up to 1/3 PB local cache
- Provide global access to data for any user from any location at any time
- Protect files from data collision with dynamic file locking and from theft with military-grade encryption
- Reduce spending on expensive Tier 1 storage while slashing capacity needs with deduplication and compression
- Leverage cloud economics with drop-in access to a variety of public or private clouds

Supporting both CIFS and NFS, the Quicksilver Cloud Storage Controller deploys seamlessly into existing infrastructures at each site, delivering local LAN-like access to the global file system as local NAS while providing inter-connected data access to all other equipped sites. Cost is minimized by eliminating the need to store multiple file copies and by using global inline deduplication and compression on all data, ensuring only unique data is stored in the cloud regardless of the number of users or locations.



With Panzura cloud storage, any users can access any files from any location at any time.

# Panzura Global Cloud Storage System

The Panzura OS (PZOS™) and CloudFS file system are the core technologies embedded in each Quicksilver Cloud Storage Controller. Designed with the needs of today’s distributed organizations in mind, the CloudFS file system presents the same view to all Quicksilver Cloud Storage Controllers, regardless of their location. This gives seamless access to all files in the system across a global fabric without having to migrate files from their native local storage environment, where they are robustly protected. Files can be browsed, opened, edited, and saved as needed, regardless of where they were created or last accessed. The system prevents users from making conflicting file changes and requires no administrator intervention to maintain write order fidelity and atomic file synchronization.

Quicksilver Cloud Storage Controllers deliver global file system access at the network edge, allowing capacity to be centrally located and protected, dramatically reducing cost and administrative complexity.

Panzura: Cloud Storage Made Seamless.

|                                 |  |
|---------------------------------|--|
| Size                            | Virtual, 1U, 2U  |
| Maximum drives                  | 108  |
| Maximum capacity per controller | 324 TB   |
| SSD acceleration                | Up to 108 SSDs   |
| Memory                          | 64 GB  |
| RAID controller                 | Hardware 6 Gb/s with 512 MB battery-backed cache   |
| RAID protection                 | RAID-5, RAID-6+  |
| I/O protocols                   | CIFS, NFS  |
| Network interface               | 2 onboard ports: Copper @ 1 Gb Ethernet<br>Dual port: Optical @ 10 Gb Ethernet (optional)<br>Dual port: Copper @ 10 Gb Ethernet (optional)                         |
| Power supply                    | Dual redundant 500W (1U), 750W (2U)  |
| Private cloud support           | NFS, rsync over SSH, Amplidata Amplistor, EMC Atmos, Scality RING Organic Storage  |
| Public cloud support            | Amazon S3, EMC Atmos (AT&T Synaptic Storage as a Service), Google Cloud Services, HP Cloud Services, IBM, Limelight Agile Storage, Nirvanix SDN, OpenStack (Swift) |



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