

Panzura Freedom Filer™

Panzura turns the cloud into your primary file storage, while delivering the performance you expect from a local NAS. Our Panzura Freedom Filer™ appliances seamlessly connect your data center to your choice of public or private clouds, replacing on-premise primary, backup, DR and archiving systems and processes. You get a true hybrid cloud that combines the performance and features of enterprise storage with the economics, capacity, and pay as you grow business model of cloud storage. Panzura eliminates islands of storage by consolidating all tiers of local unstructured data into the cloud — all without any changes to user workflows. Users access files the same way they always have.

Panzura's Hybrid Cloud consists of Panzura Freedom Filer, the Panzura Distributed Cloud File System (DCFS), and Cloud Storage. Customers use Panzura to solve many use cases, including Hybrid Cloud NAS, Cross-Site Collaboration, Global Software Build Distribution, and Active Archive. Panzura Freedom Filer appliances can be deployed on-premise or in the cloud as an in-cloud NAS mount point — so that the cloud becomes an extension of your datacenter.

The Panzura DCFS runs on the Freedom Filer appliances and connects to the public or private cloud storage of your choice. The DCFS features include:

- **Intelligent caching.** Active data is cached on each Freedom Filer appliance automatically, speeding up performance when users access data. Metadata is always stored on flash, so user access to files is always fast.
- **Cloud-backed.** The Panzura DCFS connects to a public or private cloud of your choice and uses it to store the authoritative copy of all your files.
- **One tier of storage.** Since all of your data lives in the cloud, it's automatically protected by your cloud provider. No more backup, no more tape.
- **Deduplication and compression.** This means much more efficient storage, more room for files, less data sent over your network and best of all — lower cloud storage costs.
- **Distributed file and element locking.** Part of Panzura's magic is file locking. It lets users from New York, Paris and London all work together like they're in the same room.
- **File integrity everywhere.** Distributed file locking also makes sure files are locked when they're in use so you don't have to worry about corrupt files or managing different versions.
- **Global metadata.** Each appliance has a copy of the metadata for every file, making file access and locking fast for every user.
- **Global snapshots and file recovery.** We snapshot the entire file system so there's no need to manage snapshots on a volume or share basis. Users can restore files directly from Windows Previous Versions as well.
- **Security three letter agencies trust.** Our customers include the U.S. Department of Justice and NIST, the organization that certifies FIPS. Why? Panzura is FIPS 140-2 certified with AES-256 bit encryption, so your data is secure at rest and in-flight, whether it's on a local Freedom Filer or in the cloud.



Panzura Freedom Filer Models

A Panzura Freedom Filer appliance is installed at each site connected to the DCFS. The Freedom Filer appliance is available as a physical or virtual appliance in different configurations, designed for everything from branch offices with light usage to offices with large project teams working on complex CAD or BIM models. All Freedom Filer appliances use enterprise server-grade hardware and solid state drives (SSD) to assure fast file access, and can be expanded with additional capacity.

The Panzura Freedom Filer models include:

- The Freedom FD-5100 Filer is designed for small and medium office environments, and can support up to 150 active users.
- The Freedom FD-5300 Filer is the performance workhorse of our lineup, with both in-chassis and shelf expandability, was designed for medium to large offices up to 1,200 active users.
- The Freedom FD-5500 Filer is optimized for environments with large data footprints. It provides maximum expandability, has in-chassis expansion capability, and can support up to 1,200 active users.

Panzura Freedom Filer			
Models	5100	5300	5500
Software	Panzura OS 6.3+		
Effective Data Cache	Up to 1.9 TB ¹	Up to 9.6 TB ^{1,4}	Up to 15.4 TB ^{1,4}
Effective Data Cache w/shelf	Up to 1.9 TB ¹	Up to 40.4 TB ^{1,4}	Up to 46.2 TB ^{1,4}
Addressable Cloud Size	Up to 190 TB ²	Up to 1 PB ²	Up to 1.5 PB ²
Addressable Cloud Size w/shelf	Up to 190 TB ²	Up to 4 PB ²	Up to 4.6 PB ²
Active Users	Up to 200 ³	Up to 1200 ^{3,4}	Up to 1200 ^{3,4}
SSD Expansion Packs	1	4	7
Expansion Shelf Option	No	SSD or HDD	SSD or HDD
Networking	4 x RJ45 1Gb Ethernet, Dedicated Management Port, 10Gb Ethernet (optional)		
Form factor (Rack Units)	1	2	2
Weight	~45 lbs / 20 kg	~65 lbs / 30 kg	~85 lbs / 39 kg
Power (120-240v)	2 x 550W	2 x 750W	2 x 750W
Heat Dissipation	4,214 BTU/hr	5,792 BTU/hr	5,792 BTU/hr

Other Features	
Standard Features	Global In-Line deduplication, Compression, SMB/CIFS, Policy Driven Cache Management, NFS
Optional Features	Distributed File Locking, File Access Logging, Multi-Site NAS, Enterprise Anti-Virus Integration, Secure Erase
Encryption	AES-256-CBC, TLSv1.2
Security	FIPS 140-2 Certification
Monitoring	SNMPv3
Remote Management	Dedicated IPMI v2.0 port

Regulatory Information	
Environmental	Energy Star 2.0, CEC, CECP
Compliance	RoHS Worldwide, REACH
Safety	EN/IEC 60950-1
Emissions	FCC Class A, CISPR 22/CISPR, EN 55022/55024

¹ Space available for active data and metadata cache. Does not include deduplication or compression.

² Total potential active and inactive data footprint in a single file system.

³ Consult your Panzura representative to determine your appropriate sizing.

⁴ Requires 2 expansion shelves for maximum capacity. Support for second shelf available soon. Capacity with 1 shelf 20.2TB and 23TB respectively.

