



Panzura Freedom NAS Filer™

Consolidate unstructured data. Eliminate islands of storage, and simplify backup and DR processes with a proven, enterprise hardened platform.

The Panzura Freedom Family, powered by the industry’s first purpose built global cloud filesystem, called the Panzura CloudFS is a next generation multi-cloud NAS filer. The Freedom filer provides today’s enterprise with a cluster based solution that spans data centers, office sites and compute clouds enabling local, hybrid and in-cloud data workflows for NFS, SMB and mobile clients. Panzura’s software defined storage solution provides local performance with the economics, scalability, and durability of the cloud. Organizations can consolidate their unstructured data in the cloud, eliminating islands of storage across sites and legacy filers. Panzura’s Freedom NAS filers provide access

The Panzura Freedom Filer provides:

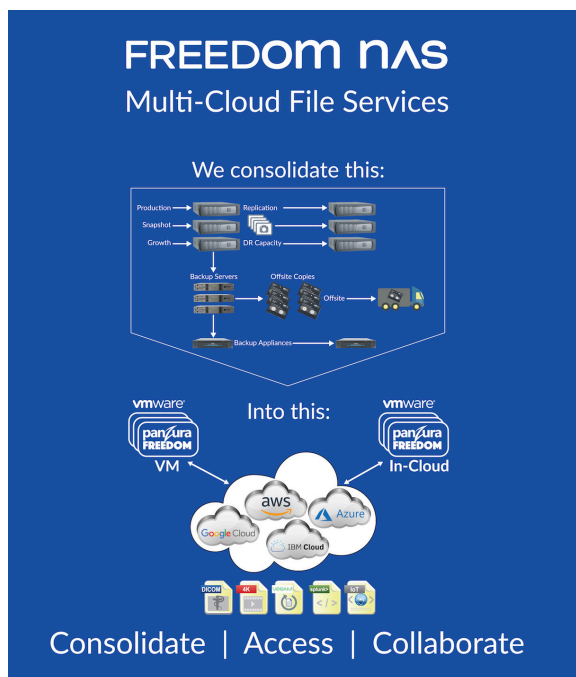
- A proven, on-premise and in-cloud platform to connect to any public or private cloud
- A massively scalable platform that can grow with the needs of the organization
- Maximum performance while consolidating unstructured data to the cloud
- Absolute compatibility with existing applications with multi-cloud file services that enable enterprises to embrace modern hybrid and in-cloud workflows

real-time file and byte range locking capabilities that allow customers to collaborate in unprecedented ways. Panzura’s SmartSync technology ensures immediate consistency of data with bulk synchronization events that occur every sixty seconds complimented with our unique peer-to-peer communications that make site to site collaboration in real-time possible like never before.

Customers can now easily and affordably meet today’s taxing data retention and regulatory policies due to Panzura’s integrated DR features. These include in-line global deduplication, compression and military grade AES-256 bit encryption which greatly reduce the overall storage footprint in the cloud. Backup is now a thing of the past with multiple copies of all data stored in clouds that boast up to 16 9’s of durability coupled with Panzura’s global snapshots with no practical limits.

The Freedom Family provides the freedom of choice and ease of deployment in a fully software defined storage solution that includes virtual machines for VMware and in-cloud instances in AWS, Azure, Google and IBM compute clouds. If customers need a full turnkey solution Panzura also offers a fully integrated hardware solution preloaded with the Freedom filer software.

The Freedom Filer product connects the enterprise like never before by offering an integrated mobile solution that provides access for users on the move with a web-UI interface, applications for Windows, Mac, IOS and Android devices.



to data locally at high speeds without any modifications to existing applications or clients. This is accomplished through Panzura’s intelligent caching algorithms, that regularly achieve 95% or higher cache hit rates, avoiding the delays typically associated with cloud storage downloads. The Freedom products implement a global namespace complemented with



Freedom Mobile is a complete enterprise, file sync and share (EFSS) solution with added real-time access to the Freedom filer active file system.

The Panzura Freedom product line was built for enterprises with a few sites and a large volume of concentrated data as well as organizations with data distributed across multiple sites, Panzura Freedom Filers offer a proven, enterprise grade on-premise, hybrid and in-cloud solution that will always deliver maximum performance and scalability.

With over 5,000 installations worldwide the Freedom Filer offers organizations a platform that has been tested and proven to deliver exceptional performance and reliability. Enterprises can count on it to deliver the consistent, scalable performance over time that their demanding environments and applications require.

Panzura Freedom Filers are offered in a range of models to meet the unique needs of every unstructured data workload at every location. Every system is purpose-built using enterprise server-grade hardware and high-performance solid state drives (SSDs) for maximum performance. Select platforms can use expansion shelves to scale capacity to meet your needs.

Freedom Filer Models Include

Software Defined Virtual Machines: The Freedom family of filers can be easily and quickly deployed as a virtual machine on the following platforms;

- **VMware ESXi and IBM Cloud:** Allows customers to source their own hardware and scale resources including CPUs, memory and local cache space as they grow.
- **AWS EC2 Instance:** Deploy an in-cloud VM in EC2 to support cloud bursting workflows.
- **MS Azure:** Deploy in either Azure standard public compute cloud or the government cloud to access the same data as you do on-premise.
- **Google GCP:** Deploy from the GCP Launcher to support in-cloud or hybrid workflows

Virtual Machine Standard Sizes

Platform	Small 1 Gbps	Medium 5 Gps	Large 10+ Gbps
AWS	m4.2xlarge	m4.4xlarge	m4.10xlarge+
Azure	DS12v2	DS13v2	DS14v2
Google	n1-standard-8	n1-standard-16	n1-standard-64
VMware & IBM Cloud	10 vCPU / 32GB RAM	20 vCPU / 64GB RAM	50 vCPU / 512GB RAM



Freedom Mobile: Deployable locally on VMware ESXi host or in-cloud in AWS, Azure and IBM clouds.

Freedom Hardware Models



Freedom FD-5200 Filer: Designed for small to medium office environments, the FD-5200 can support up to 200 active users.

Freedom FD-5400 Filer: With both in-chassis and shelf expandability, the FD-5400 is engineered for medium to large offices with up to 1,500 active users.

Freedom FD-5600 Filer: Optimized for medium to large offices with a large data footprint, the FD-5600 offers in-chassis and per shelf expandability, and can support up to 3,000 active users.

Freedom FD-5700 Filer: Purpose-built to deliver maximum performance and dynamic scalability, the FD-5700 can support up to 5,000 active users in the largest of environments. Designed for ultimate performance using next generation technologies such as NVMe, the FD-5700 is the industry leading hybrid cloud storage platform.



Freedom Single Filer Specifications

Models	5200	5400	5600	5700
Software	Panzura OS 6.3.1.5 or later			
RAM (standard GB)	64	128	128	512
Max slots	8	16	24	24
Effective Data Cache (TB)	up to 6.4 TB	up to 16 TB	up to 25.6 TB	up to 25.6 TB
Effective Data Cache (TB) w/ shelf	N/A	up to 28.8 TB	up to 38.4 TB	up to 38.4 TB
Addressable Cloud Size	up to 3 PB	up to 14 PB	up to 20 PB	up to 20 PB
Active Users	200	1,500	3,000	5,000
Read Performance	2Gbps	10Gbps	10Gbps	15Gbps - LAGG
Write Performance	1Gbps	3Gbps	3Gbps	10Gbps
SSD Expansion Packs	1	4	7	7
Expansion Shelf Option	No	SSD or HDD	SSD or HDD	SSD or HDD
Networking	On-board 4 x 1Gb Ethernet (RJ45), Dedicated Management Port (iDRAC), 2x 10Gb Ethernet using (Twinax/SFPs) [optional]			
Form factor (Rack Units)	1	2	2	2
Weight	~45 lbs / 20 kg	~65 lbs / 30 kg	~87 lbs / 43 kg	~87 lbs / 43 kg
Power (120-240v)	2 x 550W	2 x 750W	2 x 750W	2 x 750W
Heat Dissipation	4,214 BTU/hr	5,792 BTU/hr	5,792 BTU/hr	5,792 BTU/hr

Other Features

Standard Features	Global File Locking, Global In-Line deduplication, Compression, SMB/CIFS, Policy Driven Cache Management, File Access Auditing
Optional Features	ICAP for Enterprise Anti-Virus Integration, Secure Erase, File Audit
Encryption	AES-256-CBC, TLSv1.2
Security	FIPS 140-2 Certification, HIPAA
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



Panzura, Inc. | 695 Campbell Technology Pkwy #225, Campbell, CA, USA | 855-PANZURA | www.panzura.com

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