

KALRAY NG-Stor™ SOFTWARE-DEFINED STORAGE

NG-Stor™ empowers organizations to scale and keep data costs under control

- Highest-performance scratch storage
- Most powerful parallel file system, supports petabytes of data and billions of files
- Software-defined storage offers flexibility to introduce new technologies, without appliance 'lock-in'
- Rich tool set

NG-Stor™, a Powerful Software-Defined Storage Solution for HPC

New workloads are entering the enterprise storage space, powered by next-gen CPUs, GPUs and DPUs: innovative AI/ML, HPC, and Video applications require Tier-0 storage with lower latency, higher IOPs and throughput to maximize the processing cycles of their compute infrastructure.

As a result, most enterprise data centers have a wide range of storage systems, and storage teams are overburdened to meet all performance, capacity and efficiency requirements.

Companies are seeking to adopt cloud storage efficiently and effectively, allowing teams to collaborate globally, and instantly access and share data across all storage tiers. **Business users need a unified storage solution featuring automated, policy-based data movement, active archives, strong search capabilities and instant data access. This is where NG-Stor™ comes in.**



NG-Stor™ Solution Benefits

Performance and Scalability

- Unmatched performance and scalability
- Unrivalled flexibility to scale to meet business requirements
- Leverage the fastest components (NVMe) to feed the most data-hungry compute

Efficiency & Ease of use

- Low TCO: simple maintenance and administrative workflow
- Unprecedented insights into data usage and trends
- Minimize data transfer and maximize data locality
- No hardware lock-in: leverage the latest storage
- Reserve high-speed storage for work in progress, and move everything else to a low-cost archive, with a single view of all data
- Find data fast and improve end-user productivity
- Easy application integration
- Data remains in its original form allowing access at any point in the data namespace without a license tax

Reliability

- Ensure data integrity and protection to the highest industry standards
- No need for complex third-party solutions

Software-Defined, Tier-0 Storage Solution for the Most Demanding Workflows

NG-Stor™ is a Tier-0 storage solution. Powered by a proven high-performance parallel file system trusted by thousands of organizations worldwide, NG-Stor™ can easily manage petabytes of data and billions of files, all under a single global namespace to power demanding, compute-intensive workflows such as AI and ML.

NG-Stor™ is a high-performance scratch space for applications that require very high IOPS, high throughput and the lowest possible latency, such as HPC, AI/ML and video applications. NG-Stor's parallel file system supports parallel data processing for HPC compute clusters.

When combined with **ngenea®**, Kalray's software solution for data management, NG-Stor™ becomes the global namespace access point for all existing storage tiers. Leveraging ngenea®, data can be moved automatically between tiers of storage as needed at workload runtime, including the NG-Stor™ scratch storage.

