

## WIRD Group introduces WekaIO

WekaIO has built the industry's first flash-native parallel file system that delivers unmatched performance to the most demanding applications, scaling to exabytes of data in a single namespace. In June 2019, WekaIO announced record-breaking performance on the STAC-M3 "Tick Analytics" Benchmark for financial analytics and multiple enterprise applications—breaking 8 STAC-M3 world records for mean query-response times and 4 world records for throughput. In addition, the WekaIO File System currently holds one of the top positions on the independent [SPEC SFS 2014](#) benchmark and the #1 position on VI4IO's [10 Node Challenge list](#). Please See the following articles for some background on these benchmark results:

<https://blocksandfiles.com/2019/02/13/wekaio-takes-a-walk-in-the-spec-sfs-park/>

<https://blocksandfiles.com/2019/02/05/wekaio-goes-higher-than-summit/>

Matrix software is an NVMe-native, resilient file system that runs on commodity servers, delivering high bandwidth, low latency performance to any InfiniBand or Ethernet enabled GPU or CPU based cluster. Matrix eliminates the management complexity and underutilized capacity found in legacy parallel file system architectures. The software-only solution is a fully parallel and distributed POSIX compliant file system designed from the ground up to scale to thousands of compute nodes and petabytes of storage. Patented distributed data protection and integrated policy-based tiering to any S3 compatible object-based cloud ensure your data is safe and always accessible.

Deployment models include **Hyperconverged** - Matrix is integrated into standard Intel-based application servers, **Bare Metal** - Matrix is deployed on a set of dedicated storage servers, **Public Cloud** - Matrix deployed on EC2 instances with locally attached SSDs, or a hybrid approach that mixes these models.

WIRD Group has onboarded this innovative solution in order to address the following market segments:

**AI:** Modern analytics platforms need to process large data sets to deliver the highest levels of accuracy to the training and analytics systems. A high bandwidth, low latency storage infrastructure is essential to ensure the compute cluster is fully saturated with as much data as the application needs, otherwise it wastes expensive GPU resources

**Life Sciences:** Affordable, next-generation sequencing and bio-imaging backed by powerful analytics, is ushering in an era of precision medicine. High performance shared file storage is essential to transform the vast amounts of data into insights. The first flash-native parallel file system, WekaIO Matrix™ is ideal for the mixed storage workloads in Life Sciences, whether large or small files with random or sequential access patterns, Matrix eliminates performance bottlenecks and helps to significantly reduce the complexity and cost of managing high performance storage systems.

WIRD Group will actively develop an offering that delivers the extra low latency and massive throughput of WekaIO Matrix and the cost-effectiveness of Cloudbian HyperStore in a combined storage solution that is simple to manage and scales with exceptional ease.

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