

# What Makes Storage Director® Primary DIFFERENT?

## THE LOST DECADE OF STORAGE

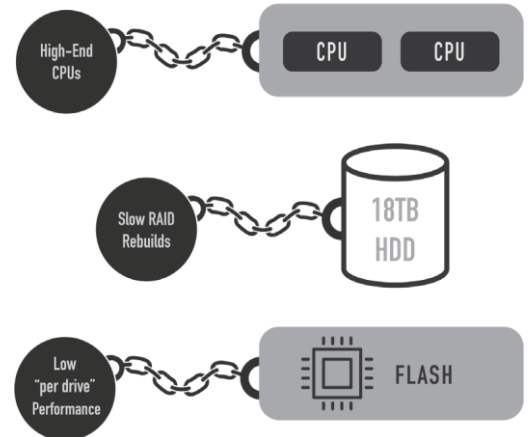
In the past decade, the storage industry has seen incredible innovations:

- Networking bandwidth increased from 10GbE to 200Gb
- IOPS performance increased from 20K IOPS to over 800K IOPS per drive
- Drive densities increase from 4TB to over 30TBs

In 2021 the trend continues, and now with PCIe Gen 4 coming to market, we see the doubling of potential bandwidth to over 24GBs!

The modern storage system should deliver more performance, more capacity, and better data protection in less space at a lower cost. But it is not happening! Why? Storage Software is now the ball and chain, holding the storage industry back.

### LEGACY STORAGE SOFTWARE

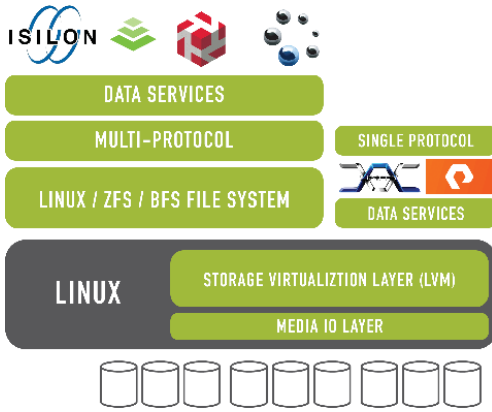


## EXPECT BETTER STORAGE

Storage Director Primary delivers industry leading storage. We significantly lower storage total cost of ownership (TCO) for any storage use case by providing an efficient storage engine that allows you to tap into the full potential of your storage hardware. Storage Director Primary with the S1 Engine simplifies the entire storage infrastructure by supporting all-protocols and use cases while delivering uncompromising data protection.



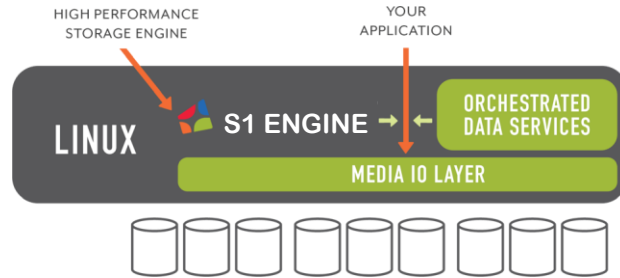
## 20 YEAR OLD INEFFICIENT STACK



## HOW DOES STORAGE DIRECTOR PRIMARY DO IT?

It took eight years of development and an OEM partnership to complete a whole new storage engine. The S1 Engine was re-written to flatten the entire IO stack into a single layer, highly efficient storage engine. Your applications and users have much closer access to the physical hardware with Storage Director Primary. An IO Orchestration Algorithm was developed which coordinates IO interaction. Hence, the critical features like volume management, thin provisioning, media protection, snapshots, and replication all work together in harmony on IO so that these features do not impact performance.

### MODERN - FLAT, HIGH EFFICIENT ENGINE



## STORAGE DIRECTOR PRIMARY THINKS RESULTS!!

### WITH STORAGE DIRECTOR PRIMARY, YOU WILL EXPERIENCE A BETTER STORAGE OUTCOME:

- Maximum per drive performance - hundreds of thousands of IOPS from eight SSDs
- Maximum per drive capacity utilization - run your S1 Platform at 90% or greater capacity
- Maximum RAID Rebuild performance - recover high-capacity hard drive volumes in two hours, flash drive volumes in four minutes.
- **All Protocols - All Use Cases - Future Ready - ONE Platform**
- Storage Director Primary delivers the lowest TCO in the industry - lowest up-front cost
- Lowest operation cost
- Migration free, non-disruptive upgrades

