



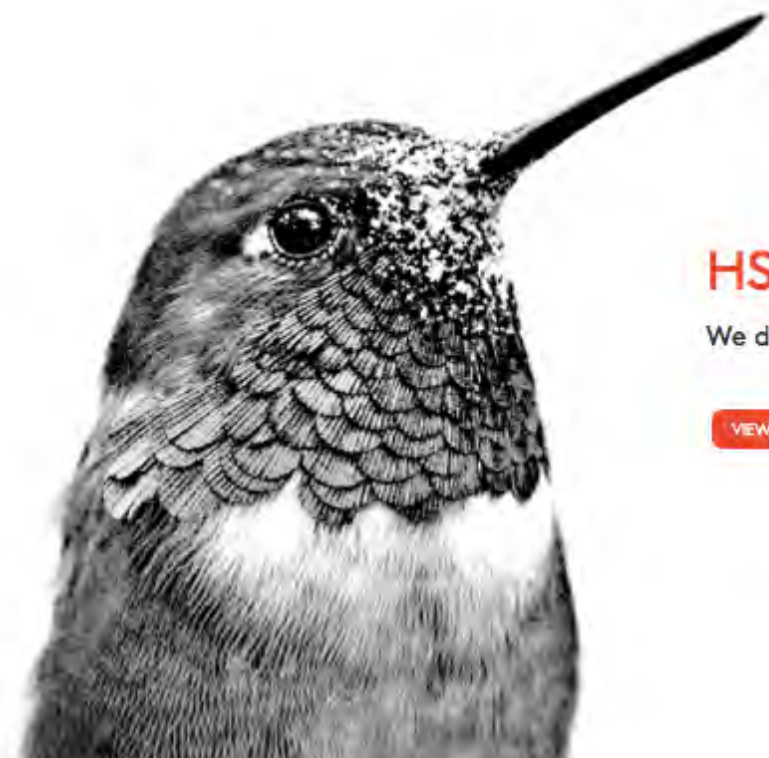
Archiving to Objects

Harriet Coverston, CTO



Versity Software

The only independent pure play HSM software company



HSMS ARE OUR FOCUS.

We do one thing, and we do it well.

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What we do?

- Versity Storage Manager (VSM)
- High performance archiving
- Open source SAM-QFS HSM technology on Linux
- Focused on moving POSIX files to object storage

Primary Verticals

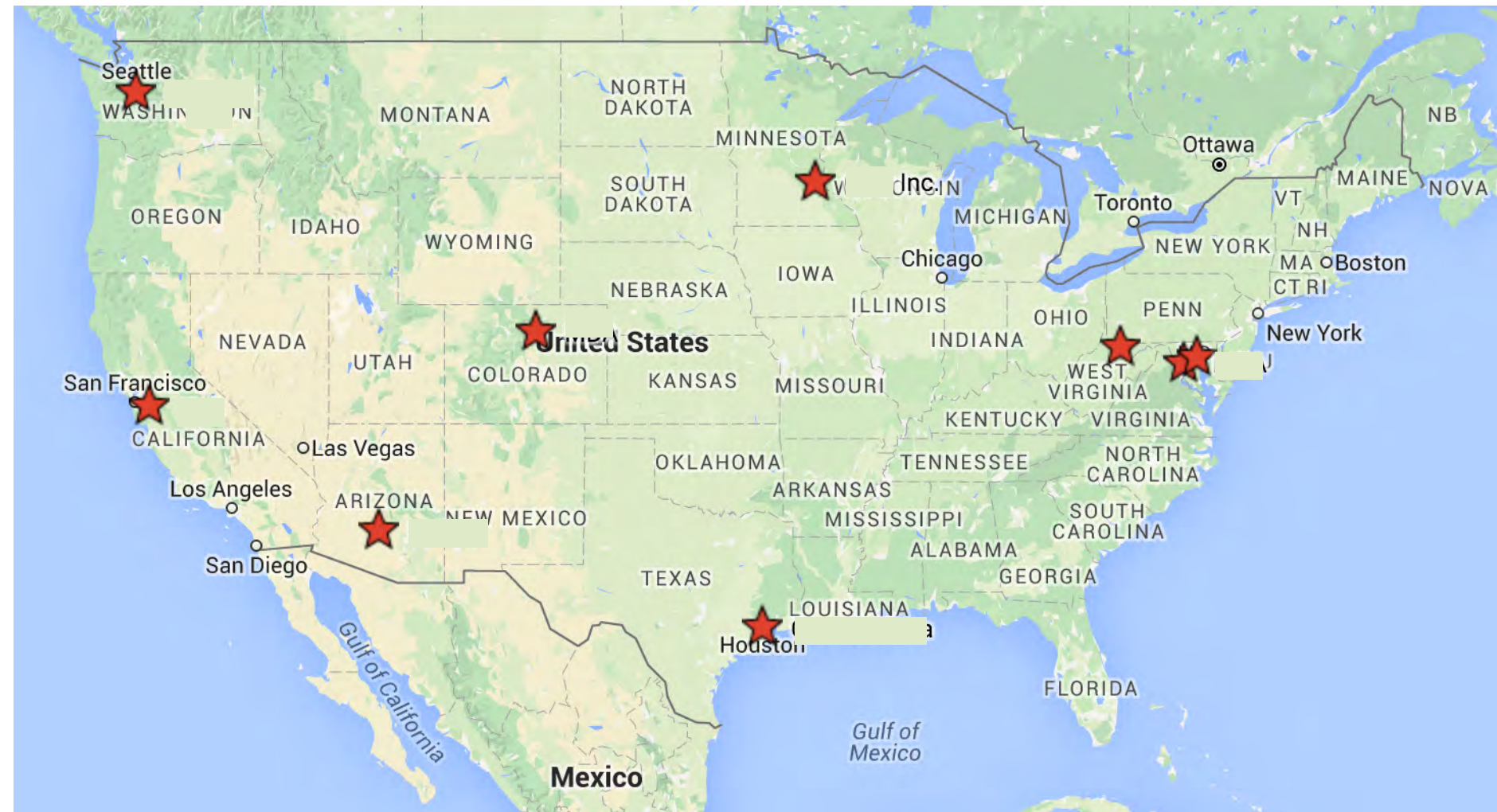
- HPC and Scientific
- Government and Defense
- Healthcare, Medical, Genomics
- Banking & Finance
- Oil & Gas
- Media & Entertainment
- Data Center/Web
- Video Surveillance

Not just cold storage

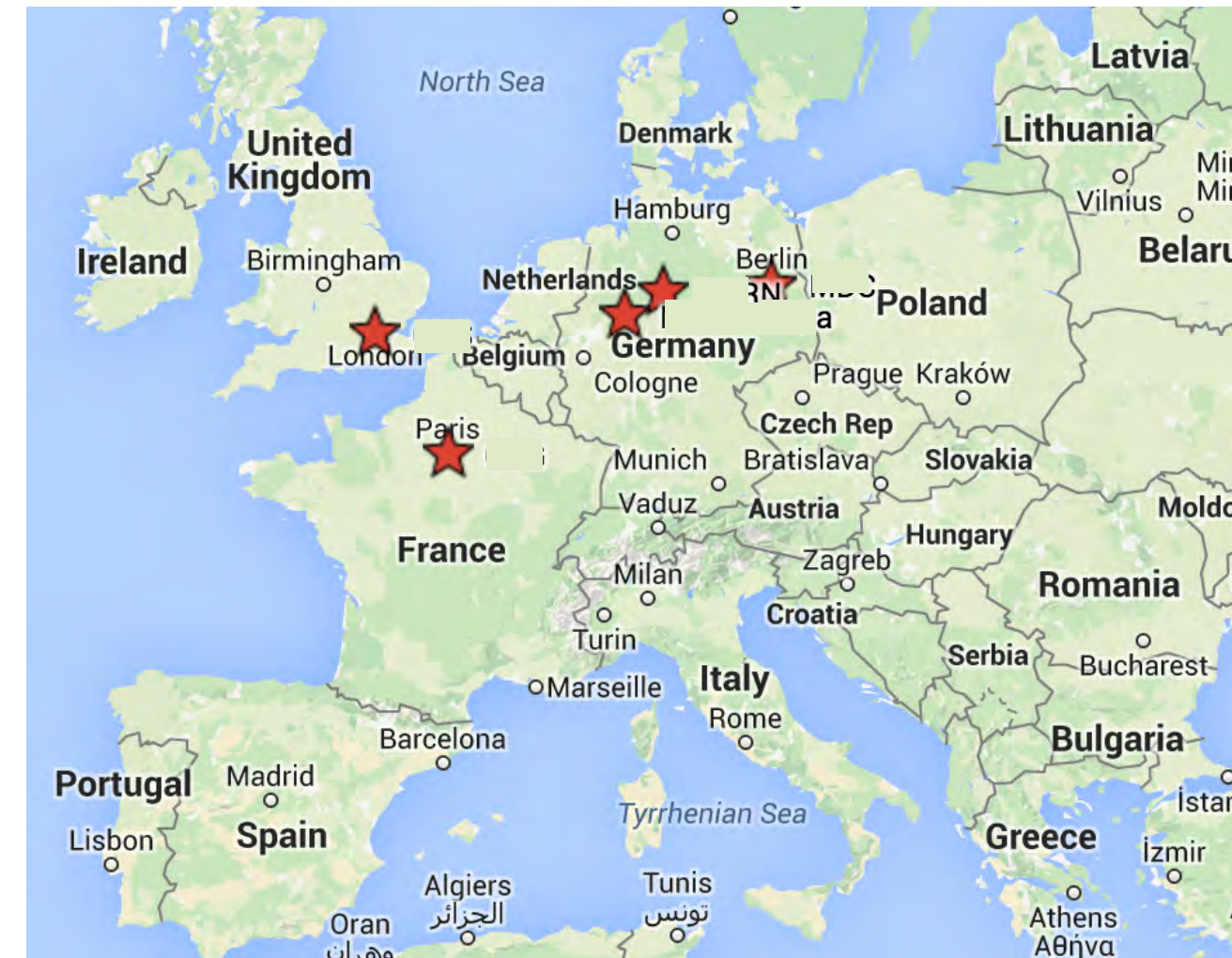


Customers

North America



Europe



Middle East

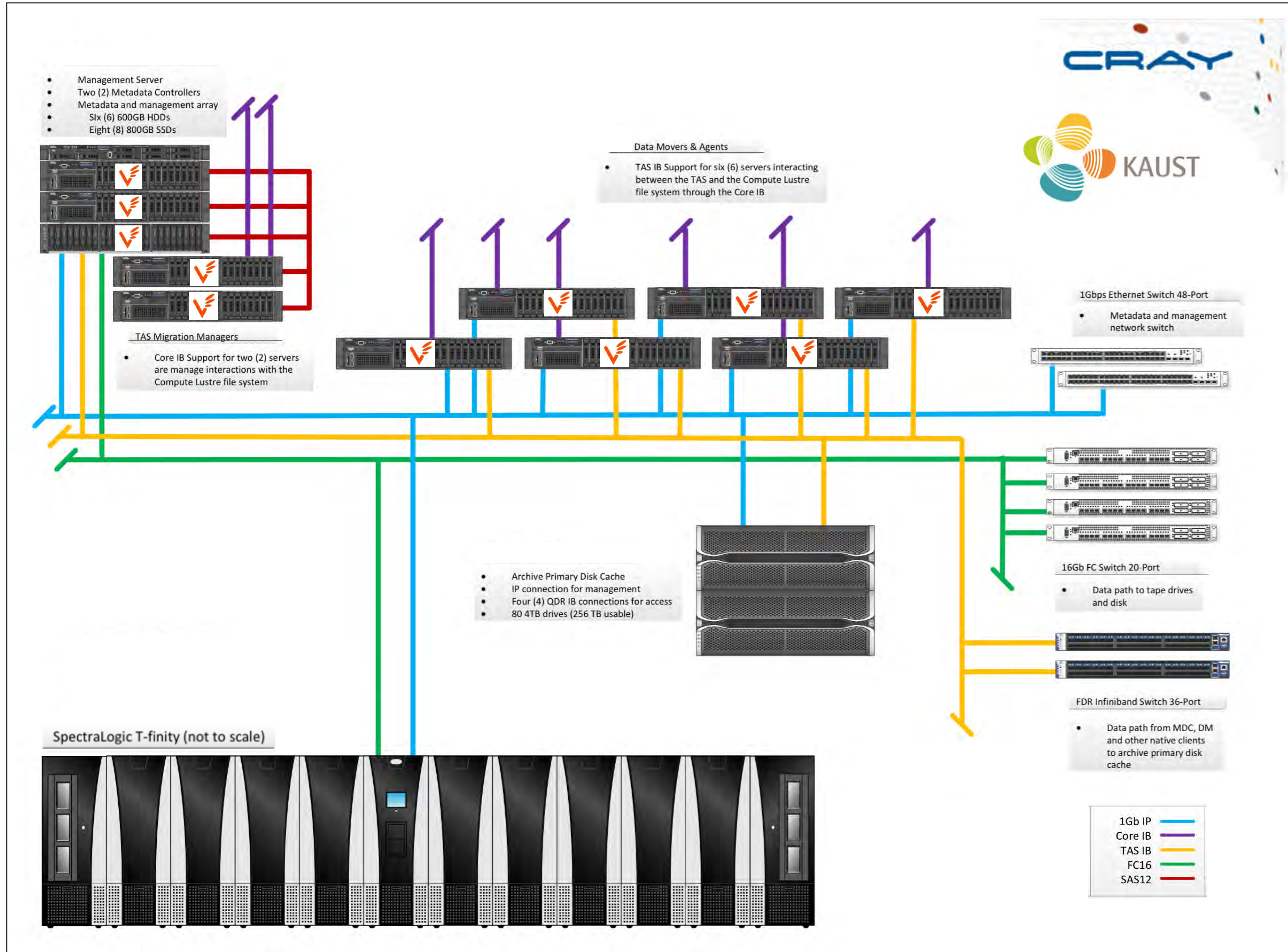


Total Data Managed: 225 PB

HPC Partner

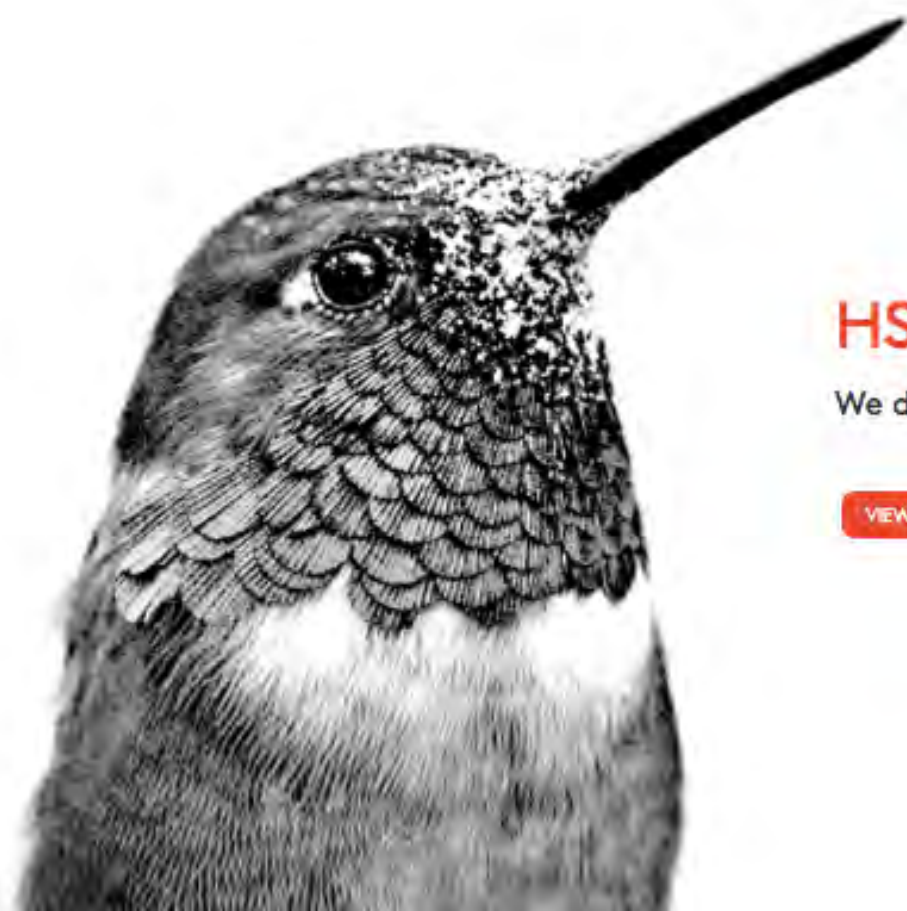
The logo for Cray, featuring the word 'CRAY' in a bold, blue, sans-serif font. The letters are thick and blocky, with a registered trademark symbol (®) at the end.

HPC Architecture





Versity Storage Manager (VSM)



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VSM Tiering Functions

Ingest data from scratch file systems. **Package** files into archive containers.

Archive automatically from disk cache to archive media based on policies. **Release** archived files from disk cache to free up space.

Automatically **Stage** files from archive media back to disk cache when requested, with the option to pre-stage and the option to bypass.

Recycle removable media by repacking the media.

Why Object Storage ?

Archival cost and protection levels without the drawbacks of tape

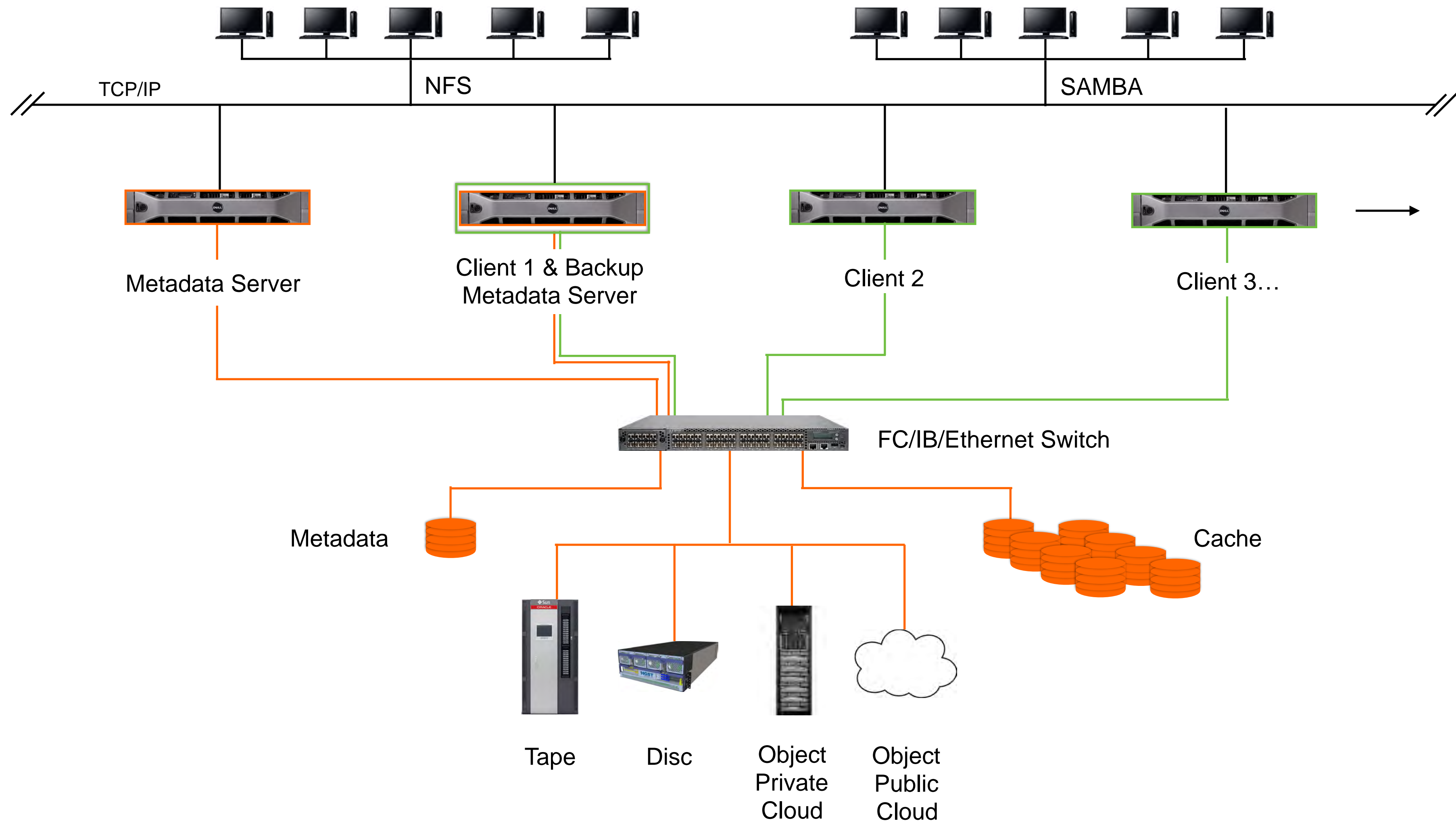
- Dramatically faster time to first byte
- High performance without FC/IB
- Easier to manage
- Low cost
- Safe & Geo replicated



Why Versity in front of objects

Because object storage is an excellent archival target but enterprise sites are locked in a POSIX world. VSM bridges the gap.

VSM Reference Architecture

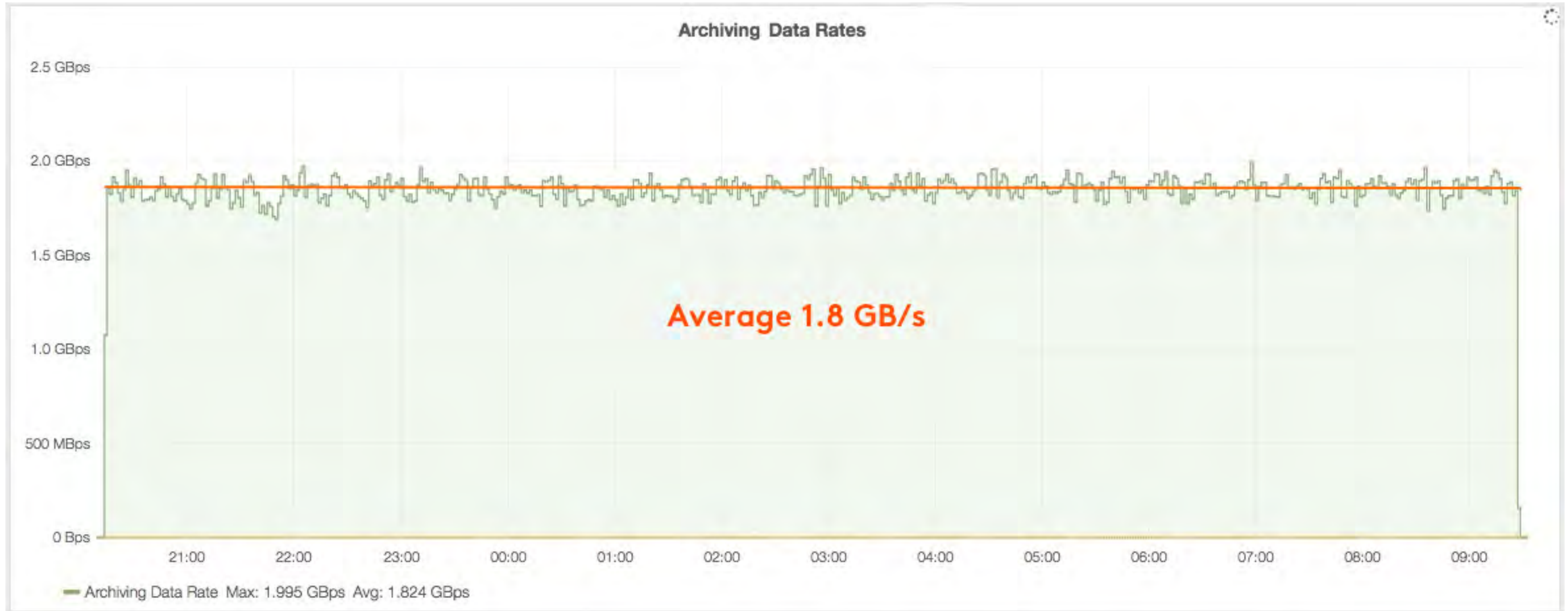


Archiving to Object

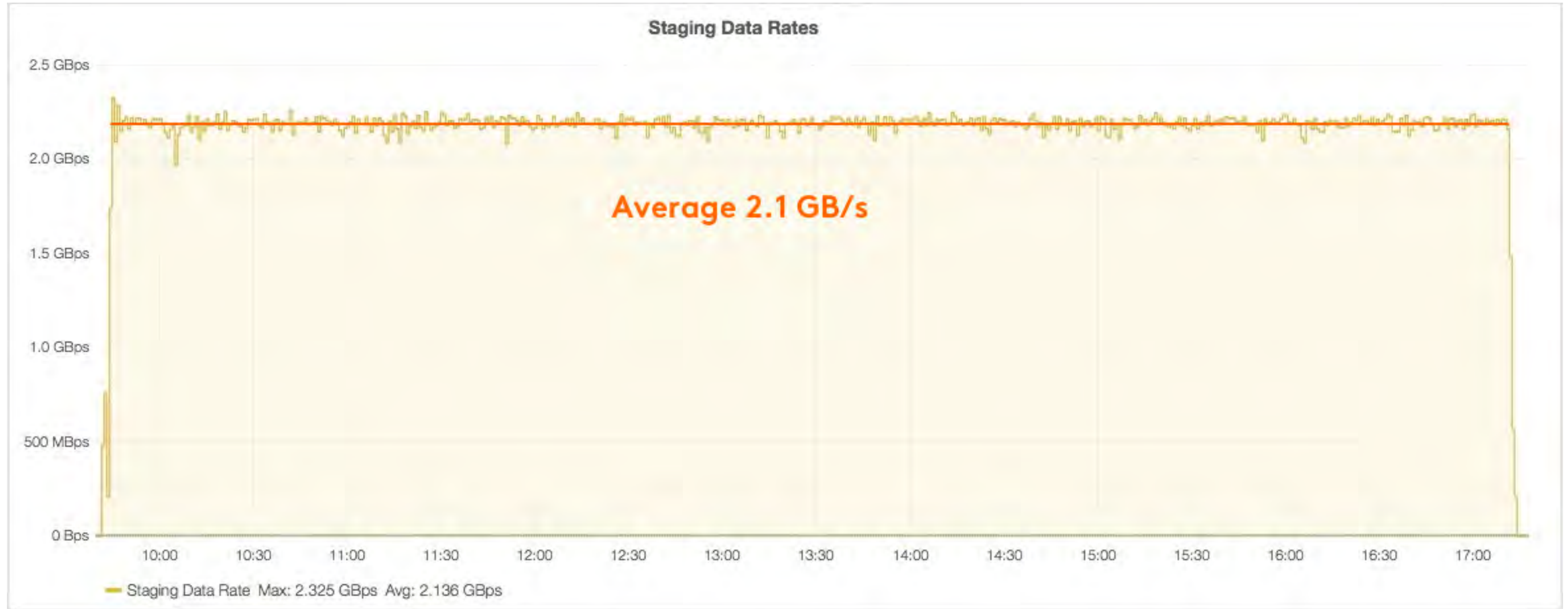
S3 Object Release

- Currently running at a Versity site in Houston Texas
- Archiving, staging, and recycling
- 10x faster performance compared to NFS

Archiving Data Rates - Mixed File Sizes



Staging Data Rates - Mixed File Sizes



Why Versity ?

- Pure play, software only
- Subscription business model
- No minimum contractual term
- Perpetual ability to read your data - for free
- Open source data format
- Investing in the future!

What's Next?

- Scale out archiving application
- Scale out POSIX archiving file system



Thank You

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