



# SQL Server & Vexata

Solution Brief

## Scale Mission Critical Workloads



### YOUR CHALLENGE

From mission-critical transactional systems to strategic decision-making analytics platforms, SQL Server is at the center of the data driven organization. As data footprints and user counts grow, scaling platform performance has become an issue. Storage architectures have not kept pace and are under-delivering. 1st generation flash systems are stuck behind their hard drive architectures leaving your SQL Server platforms data-starved.

### VEXATA IS YOUR SOLUTION TO SCALE

Vexata solves your scaling issues with a unique and innovative architecture designed for memory-class storage. Designed to enable modern infrastructure, Vexata delivers stable low latency I/O to applications and unprecedented high bandwidth to analytics platforms.

## Analytics: Faster, better & more

### UNPRECEDENTED BANDWIDTH

Processor speeds have outpaced traditional storage architectures leaving analytic systems data starved. Vexata fills the gap. Fully saturating the most powerful servers,

Vexata can dramatically accelerate existing analytic workloads while allowing for more reports to run concurrently. Vexata's unique parallel and distributed architecture allows for scaling bandwidth as storage is added.

So, as your data grows, your reports speed up! Additionally, with amazing access to high bandwidths, maintenance operations can be executed without affecting production performance; enabling 24x7 SLAs.

- Saturate servers up to 25GB/s
- 5-10x faster reports
- 5-10x more reports
- 5-10x faster data loads
- Run maintenance without impacting production SLAs

Resource Monitor				
File Monitor Help				
Overview CPU Memory Disk Network				
Processes with Disk Activity				
Image	PID	Read (B/sec)	Write (B/sec)	Total (B/sec)
Image				
sqlservr.exe	2864	25,080,735,335	11,004,881,634	36,085,616,969

Fully enable insight platforms with unprecedented bandwidth

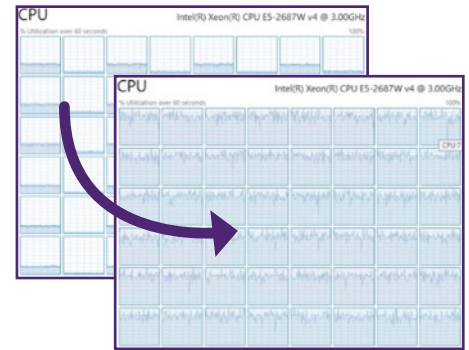
## OLTP: Scale users, enhance experiences

### STABLE LOW LATENCY, AT SCALE

SQL Server OLTP databases are limited to a single active server per workload. Traditional storage architectures slow down as they ramp, reducing CPU efficiency and limiting user scale. Vexata's parallel and distributed fabric is designed for memory-class storage. Maintaining 1/5th the latency of AFAs at over 5x the IOPs, Vexata can drive higher CPU efficiencies and maximize user scale.

- **3-5x more users**
- **Optimize software costs**
- **Consolidate systems**
- **Reliable user experience**

With stable and predictable latencies, at scale, user experiences become reliable, systems can be consolidated and software licenses can be reallocated to additional workloads.



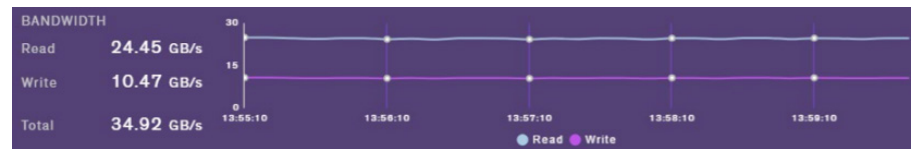
Maximize CPU utilization with low latency at scale

## Operations: Go 24x7 & Reduce Risk

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- **Run index maintenance without hurting production**
- **Take backups 5-10x faster, reducing exposure**
- **Accelerate recovery with many parallel restores**
- **Upgrade HA to synchronous mirroring with faster write commit latencies**



Scale operations & reduce risk with unprecedented and stable performance under mixed workloads

### ABOUT VEXATA:

Vexata is the leader in active data management solutions. Vexata's unique breakthrough enterprise offerings enable transformative performance and scale from database and analytics applications. With unparalleled ability to consume the latest in media like NVMe Flash and now 3D XPoint™ SSDs, Vexata systems deploy simply and seamlessly into existing storage environments. Learn more at [www.vexata.com](http://www.vexata.com)

Contact Vexata: [info@vexata.com](mailto:info@vexata.com)