

SCALING SAP ENTERPRISE WORKLOADS



Vexata VX-100 Scalable NVMe Storage Array Accelerates SAP

- Breakthrough Economics**
 The VX-100 reduces infrastructure TCO for SAP environments by delivering 5X more performance at lower prices compared to traditional allflash arrays (AFAs).
- Performance at Scale**
 Vexata offers a resilient and high-performance enterprise storage solution, with linear scaling of performance as capacity scales.
- Expandable**
 SAP applications benefit from NVMe-based storage within the Vexata system by unlocking the full potential of modern solid-state media and seamlessly expanding capacity from TB's to PB's. Vexata enables the consolidation of multiple simultaneous SAP workloads to one array without sacrificing capacity or performance.
- Enterprise Features**
 Storage services such as snaps and clones lower infrastructure consumption, risk, and TCO.

Enterprise organizations deploy SAP ERP, customer engagement and analytics software to improve business processes and profitability. These systems can experience performance bottlenecks that throttle performance and impact productivity. IT architects have moved to all-flash arrays (AFAs), only to learn that these AFA may have controller bottlenecks that impact performance. To overcome these issues, architects are forced to add system nodes and servers as a way to increase performance and scale, but this dramatically increases the infrastructure costs.

Vexata: Unmatched Performance for SAP and SAP HANA®

The Vexata VX-100 patented architecture gives SAP and SAP HANA® systems a ten-fold performance improvement over existing AFAs and has a lower cost point. Vexata ensures that SAP applications are not throttled by I/O bottlenecks, which can impact OLTP and OLAP performance of these SAP architectures. Modern SAP-based insight systems process extensive volumes in parallel. In order to best support transactional and analytic environments, Vexata's parallel distributed processing supports sustained read bandwidths over 80GB/s.

Seamlessly scale SAP Workloads

Analytics systems growth can be unpredictable, something addressed by the Vexata scalable systems which provide on-demand scaling to petabytes. Businesses looking to scale SAP HANA® in memory data platforms are often faced with costly-DRAM scale these environments. SAP HANA® inmemory systems can utilize the Dynamic Tiering capability native for table extension, but the storage must be fast enough to support rapid data loads. Both the Vexata VX-100F or VX-100M integrate with the SAP HANA Dynamic Tiering feature for seamless extension of HANA data tables to larger data sets.

Eliminate Noisy Neighbors

Running different applications on AFAs often causes one application to utilize an unfair share of an the I/O resources, requiring IT to tweak the AFA, the offending application, or the server. This goes away with Vexata, which provides ultra-high-performance data services to every SAP application regardless of load.



"Vexata improved our payroll processing time from days to hours – on our existing servers."

VP of IT, Tata Business Services

BREAKTHROUGH ECONOMICS	PERFORMANCE AT SCALE	FLEXIBLE EXPANDABILITY	ENTERPRISE FEATURES
<p>Reduce application spend</p> <ul style="list-style-type: none"> • Half cost of AFAs • >4X reduction in servers • Dramatic reduction in software licenses • Multi-chassis management reduces management cost 	<p>Linear scaling of performance as capacity increases</p> <ul style="list-style-type: none"> • 10X lower latency than AFAs across 100's of terabytes • 5X higher DB query/update performance per server • Ingest at 1.5TB/m • Throughput of 3TB/m • Millions of IOPS 	<p>Broadest range of interfaces in industry, with built-in balancing of capacity and performance</p> <ul style="list-style-type: none"> • SCSI-FC, NVMe-FC, and NVMeEthernet • 32Gb FC or 40Gb Ethernet • Supports SAN and NAS • Non-disruptive capacity scaling from TBs to PBs 	<p>All enterprise features included</p> <ul style="list-style-type: none"> • Immutable instant snapshots and clones • Always-on encryption • N+1/N+2 data protection • Continuous operations • 99.9999% availability • Non-disruptive rolling upgrades • Call-home & predictive analysis

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Case Study

ACCELERATING DATABASE PROCESSING AT TATA BUSINESS SYSTEMS

Tata Business Systems Services (TBSS) is a large division of the multi-national holding company headquartered in India. TBSS uses a SAP application for payroll processing.

Challenges

Due to rapid growth, their current hybrid storage platform was unable to support their environment, so payroll processing took **4 DAYS (96+ HOURS)** to complete. The proposed solution was to add additional hybrid storage from the same vendor along with network hardware, servers, and additional Oracle licenses to their existing SAP payroll configuration.

Solution

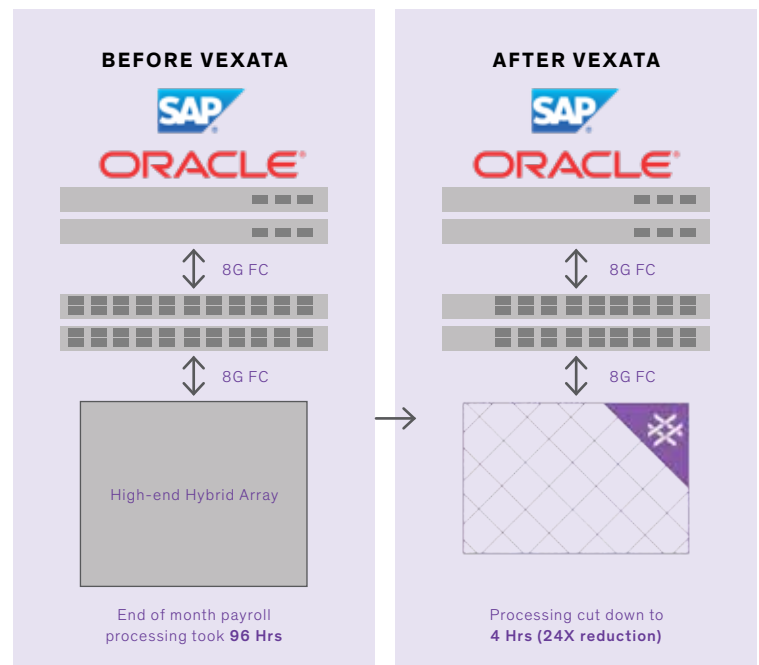
Vexata was seamlessly Integrated alongside their existing server and SAN Infrastructure. After the Vexata deployment, the payroll was completed in under **4 HOURS** by lowering latency and increasing the throughput.

Results

For the less cost than an AFA, Vexata was able to take the same workload that took days to complete and reduce that down to a few hours. The customer could make payroll changes and get the results in the same day.

With Vexata the customer saw:

- 24× elapsed time/performance improvement with Vexata
- User growth stressed Oracle RAC infrastructure
- Customer improved performance without adding new servers
- Tata lowered TCO and re-purposed existing Oracle/SAP licenses
- Linear scaling: Tata can expand capacity without impacting performance
- Future proof design: As data grows capacity can be seamlessly added without production impact



Getting Started with Vexata

Vexata has improved application performance by 3-10X for some of the world's largest corporations on their existing infrastructure. It delivers Tier 0 performance across large datasets at a fraction of the cost of existing storage offerings, providing SAP applications with solid-state NVMe storage performance at scale with enterprise-class services.

Vexata will provide a free assessment of your SAP application. We will discuss workloads with your application/analytics team, work with your operations group to design an integration plan and provide your IT team with a budgetary TCO analysis.

ABOUT VEXATA: Founded on the premise that every business is challenged to deliver cognitive, data-intensive applications, Vexata delivers 10X performance AND efficiency improvements at a fraction of the cost of existing all-flash storage solutions.

Learn more at www.vexata.com. Contact us at 1.408.931.6334 or info@vexata.com.