

## Vexata VX-100 Scalable NVMe Flash Array

- Breakthrough Economics**  
 Vexata delivers more performance, scale, and capacity at half the price of leading all-flash arrays (AFAs)
- Performance at Scale**  
 Vexata offers a resilient and high-performance enterprise storage solution, with linear scaling of performance as capacity scales
- Linear Scaling**  
 Scale-out capacity and throughput by non-disruptively adding dense, high performance storage blades
- Simple Operations at Scale**  
 Large deployments run smoothly with lower operational risk
- Reduced Infrastructure Risk**  
 Integrates into servers, networking, and hypervisor platforms to reduce infrastructure consumption and lower risk

“Vexata is the fastest array we have ever tested. Vexata runs faster on VMware than our existing array ever did on bare metal. It performed as promised.”

*Chief Architect  
Global Financial Organization*

“Vexata Flash Array is the highest performing storage for SAS.”

*Software Architect  
Software Service Group  
Intel*

Across all industries, businesses now utilize analytics and machine learning (ML) in applications to assess customer, market, security and operational risks. These risk analytics applications operate on large volumes of data to detect patterns, learn and respond to events in real-time. Simply and affordably meeting the performance at scale requirements of these data-intensive applications requires a new class of data infrastructure.

Vexata simplifies the deployment, operationalization, and management of any analytics solution at any scale with breakthrough economics and transformative performance. The linear scaling combined with simplified management, flexible infrastructure support, and a deep expertise acquired from delivering Vexata to some of the largest names in the industry.

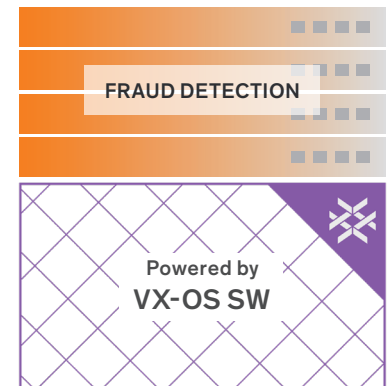
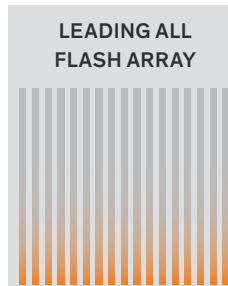
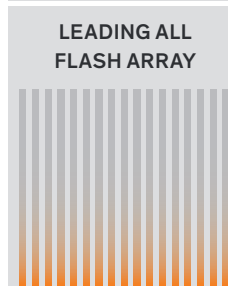
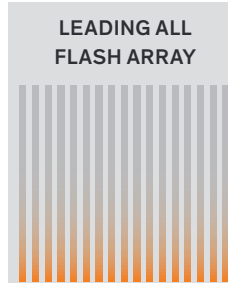
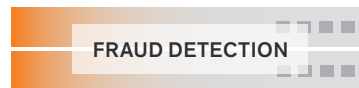
Vexata’s next generation architecture enables **dramatic increase in performance at substantially lower cost while greatly simplifying the data infrastructure.**

### RISK ANALYTICS USE CASES

Fraud Detection | Credit Risk | Trend Analysis | Insurance Risk





### DATA PLATFORMS

SAS | Oracle | KX | Apache Spark | Cassandra, Mongo, etc.



## Benefits of using Vexata for Risk Analytics

**VEXATA SCALABLE NVMe FLASH ARRAY IS PURPOSE BUILT TO REDUCE RISK FOR HIGH PERFORMANCE ANALYTICS**

 <b>BREAKTHROUGH ECONOMICS</b>	 <b>SIMPLIFIED OPERATIONS</b>	 <b>TRANSFORMATIVE PERFORMANCE</b>	 <b>REDUCED INFRASTRUCTURE RISK</b>
<b>Lowest TCO, Strongest ROI</b> <ul style="list-style-type: none"> <li>• Lower costs than legacy AFAs</li> <li>• 8X better CPU/GPU utilization resulting in server consolidation</li> <li>• Dramatic reduction in software licenses</li> <li>• Powerful management that reduces OPEX</li> </ul>	<b>Massive Consolidation</b> <ul style="list-style-type: none"> <li>• Fibre Channel (SCSI)</li> <li>• 6U chassis with simple, in-system scale-out</li> <li>• Nearly 500GB/s throughput and 3.5PB capacity per rack</li> <li>• Multi-chassis management</li> </ul>	<b>Unmatched Performance at Scale</b> <ul style="list-style-type: none"> <li>• 10X lower latency</li> <li>• High ingest rates of 1.5TB/min</li> <li>• High scan rates of 3TB/min</li> <li>• 5X higher DB query/update performance per server</li> </ul>	<b>Comprehensive Data Protection</b> <ul style="list-style-type: none"> <li>• Immutable &amp; instant snapshots</li> <li>• Always-on encryption</li> <li>• RAID 5/6 data protection</li> <li>• Continuous operations with 99.9999% availability</li> <li>• Supports FC networks</li> <li>• Supports multiple hypervisors</li> </ul>

## Customer Case Study

**SAS ANALYTICS / MACHINE LEARNING – “GLOBAL FINANCIAL”**

### Customer Challenges

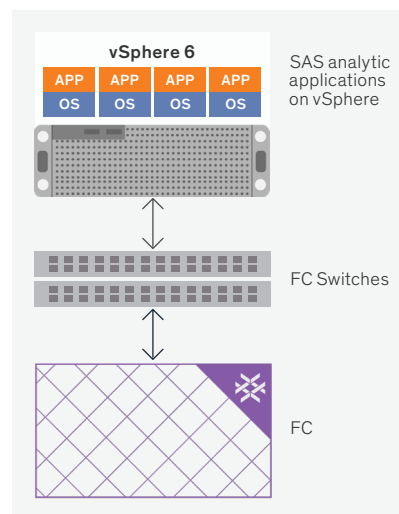
The customer's fraud detection operation was seeing massive data growth due to increasing mobile traffic, so in order to maintain the proper levels of risk avoidance, they needed storage infrastructure that could maintain the proper performance levels. This financial services customer SAS Fraud Management analytics, which uses embedded machine learning to detect anomalies in real-time. This SAS application requires a significant amount of throughput, but the AFA that the customer initially selected was not scaling to meet the data growth, which forced them to consider alternative platforms.

### Customer Benefits

Vexata was contacted and provided with the opportunity to present an architectural solution to this challenge, anchored by the Vexata VX-100F Scalable NVMe Flash Array to replace their current AFA. The solution design replaced the proprietary PCIe interface with standard Fibre Channel on the VX-100F, enabling the customer to deploy VMware ESX to reduce the servers required to deliver the SAS analytics performance and seamlessly scale capacity within the Vexata system. When compared to the previous AFA solution, the customer found that even with a 4:1 server consolidation through VMware, the system delivered better performance than previous benchmarks using 4X as many bare metal servers. The customer also liked that they could scale capacity and performance independent of compute, regardless of the data set size.

### Customer Outcomes with Vexata:

- 40GB/s Throughput (>20GB/s write)
- 400% improvement in fraud detection performance
- Significant cost reduction: Replaced four servers with one



**ABOUT VEXATA:** Vexata, a StorCentric Company, 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 with Intel Optane™ SSDs, Vexata systems deploy simply and seamlessly into existing storage environments. Learn more at [www.vexata.com](http://www.vexata.com) or [www.nexsan.com](http://www.nexsan.com)

Vexata is now offered by Nexsan: [sales@nexsan.com](mailto:sales@nexsan.com)

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