

# RamSan Solutions

The World's Fastest Storage®



## Client: COESfx, Inc.

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### Facts At a Glance

- **Organization:**  
COESfx, Inc.  
(www.coesfx.com)
- **Industry:**  
Financial, Software
- **Application:**  
Data Acquisition
- **Operating System**  
Windows 2000 Advanced Server
- **Environment:**  
SQL Server
- **Challenge:**  
Remove I/O bottleneck to allow more bank streams
- **Solution:**  
RamSan-320 attached via Qlogic 2342 HBAs
- **Results:**
  - 40% higher I/O rate
  - Increased customer satisfaction
  - Budgeting plans to expand RamSan solid state disks to greater capacities and new applications

Texas Memory Systems solid state disks quietly power the world's most vital systems and companies, and COESfx is no different. COESfx, Inc. offers an advanced trading and clearing platform for foreign exchange market makers and direct access to foreign exchange markets.

The world's financial institutions depend on COESfx for uninterrupted access to markets and for the highest levels of performance, especially during peak periods. COESfx, therefore, sought out an IT hardware vendor that could provide the same, and Texas Memory Systems delivered.

### The Challenge: Remove I/O Bottleneck

COESfx's RAID storage was unable to keep up with the I/O-intensive trading engine, powered by SQL Server. Feeds from 6 different financial institutions were being held up by conventional storage, slowing down the entire application.

“Even with a larger amount of cache, the RAID wouldn't have been able to do the job alone,” said Fred Hentschel, application administrator at COESfx, “Since we needed the best performance, solid state disk was the only choice.”

COESfx contacted Texas Memory Systems to eliminate their I/O bottleneck and accelerate the application to its fullest extent. The RamSan-320 was selected by COESfx for its combination of performance and reliability features.

The RamSan was directly connected to the application server via a Qlogic 2342 host bus adapter. It was set up as a high speed buffer to acquire the data streams and as a high-speed staging ground for the application server to manipulate the data.

### **The Result: Immediate 40% Higher I/O Rate**

According to Fred Hentschel, COESfx's trading engine saw a 40% increase in I/O activity. "Storage, simply, is no longer our bottleneck, and our server utilization percentage is back up into the 90s." The server can now process 11 simultaneous data streams, which run through a pair of replicated LUNs on the RamSan-320.

The application was successfully accelerated, but COESfx was also impressed with the unit itself. Since the RamSan presents itself as a simple disk to the network, setup generally consists of plugging it in, performing a few basic configuration steps, and then copying data like any other storage unit. "Setup was extremely simple and fast. We had the unit plugged in and configured in just a few minutes, and the management features make continued administration all but effortless."

With such a positive experience, COESfx is realigning its long term IT and competitive strategy to include solid state disks. They are already budgeting for additional units as the need arises, and plan to leverage their RamSan units as a competitive advantage and "selling point" in the market. "When a single appliance increases your core business 40%, the executives quickly take notice," said Hentschel.

The RamSan provided unparalleled I/O, increased user satisfaction, and a new competitive advantage to COESfx. Texas Memory Systems provides this testimonial, confident that many other organizations could benefit in the same way from using The World's Fastest Storage®.

For more information, visit [www.superSSD.com](http://www.superSSD.com) or contact us at [sales@superSSD.com](mailto:sales@superSSD.com).

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## **About Texas Memory Systems**

Since 1978, Texas Memory Systems (TMS) has specialized in high bandwidth, low latency, I/O-intensive storage systems. While the primary feature of our products has always been high performance, we achieve this performance without resorting to overly complex circuitry or unwieldy protocols. This emphasis on simplicity allows TMS to deliver outstanding performance using mature technologies and readily available off-the-shelf components. Our record of success, however, is as much a function of close customer relationships as it is a function of our technology. As we continue to grow, we will strive to maintain these close customer relationships and we will continue to provide outstanding customer support.

TMS products were originally designed to meet the needs of the US defense industry, a primary TMS customer throughout our history. This market has always demanded the ultimate in performance and TMS has always delivered it. Texas Memory Systems now brings its expertise to the commercial SAN market. The RamSan, TMS' seventh generation SSD product, delivers a level of performance previously unavailable in a commercial storage product.

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