

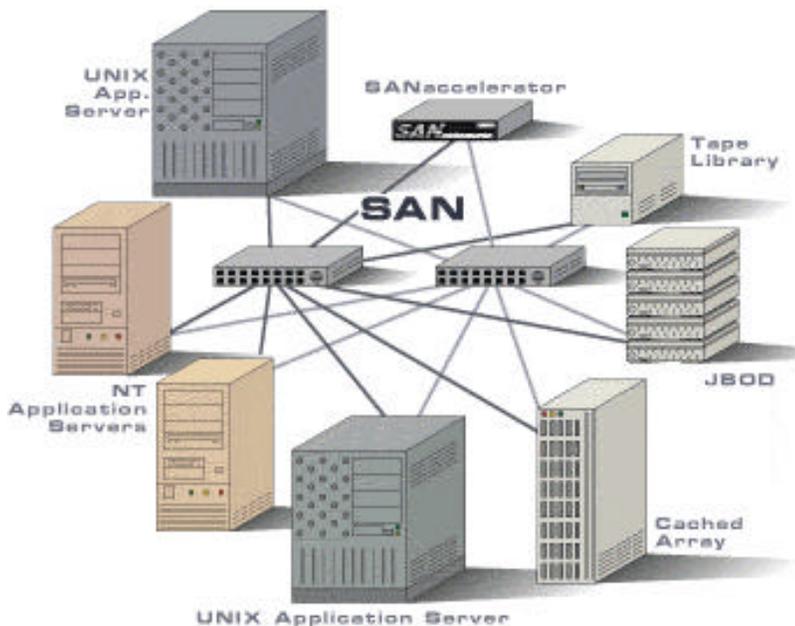
SAN ACCELERATOR



Companies in nearly every business and discipline are deploying Storage Area Networks (SANs) as a powerful means of controlling the escalating cost and complexity of administering, managing, and moving data. Initial SAN implementations focused on server-less backup, consolidation, management and high availability. While each of these benefits rewards an enterprise, there are additional advantages to be gained by configuring SANs to provide maximum performance to an increasingly broad range of applications.

Applications such as transaction processing or wireless messaging can be limited by storage access even when connected to a SAN. Though SANs have been occasionally touted for their performance capabilities, the need for performance tuning in a SAN in response to performance bottlenecks has largely gone unnoticed. Most commonly, these bottlenecks arise from the inability of the disks and cached arrays to respond to heavy activity in a timely manner.

The logical response to this SAN performance gap is to add a shared performance-oriented storage resource that can be flexibly apportioned both by server and by individual application needs within the SAN. This is exactly where the SANaccelerator fits in the fabric network. It resides as a persistent cache device that is easily administered to selectively improve application performance when and where it is needed. It can be simply thought of as a proactive, on demand performance tool to supercharge SAN information retrieval for applications requiring maximum storage access.



The SANaccelerator is a high performance storage device made up of solid state memory that is 200 times faster than a disk drive. The SANaccelerator connects to one or more Fibre Channel SANs (1Gbps or 2Gbps) and can service up to sixteen simultaneous application servers located in the fabric. Multiple servers can also gain access to data in support of High Availability cluster computing.

The SANaccelerator delivers gigantic performance improvements in applications where frequent access to a relatively small number of "hot files" is required. In databases environments, for example, frequent updates to transaction logs, indices, and temporary tables can account for

up to 50% of all I/O activity but constitutes less than 5% of total data storage space. Isolating these hot files for each server in the SAN on the SANaccelerator, dramatically supercharges performance of all the application servers in the SAN no matter how small or large the application.

The operating system independence of the SANaccelerator makes it a perfect fit in both homogeneous and heterogeneous server SANs. High profile application performance issues tend to be very visible and are commonly tied to an individual application and server. Typically, when a fix is applied to this single environment, little effort, if any, is spent looking for other performance bottleneck symptoms in the SAN. Justifying a SANaccelerator in response to solving the "big" application performance needs effectively enables the SANaccelerator performance pool characteristics to be leveraged to accelerate other applications in the SAN to benefit from the same performance enhancement for virtually free.

This concept of leveraging the SANaccelerator across multiple platforms, architectures, and application requirements delivers a strong value proposition that truly benefits the entire enterprise.

Specifications:

Electrical

Interfaces	1 Gigabit/sec. or 2 Gigabit/sec.
Data Rate (maximum)	4 Gigabits/sec. Combined
Connectivity	2 Fibre Channel ports
Management	SAF (local), SNMP, Web Browser
Access Time	0.035 milliseconds (35 microseconds)
Capacity	6 Gigabytes to 36 Gigabytes
Input Voltage	100 to 240V AC
Max Power Consumption	200 Watts
Reliability & Availability	
Internal UPS	Dual, Standard
Internal Disk Backup	Standard
Multiport Connectivity	Standard
LUN mapping	Standard

Mechanical

Maximum Weight	40 Lbs (18.1 kg)
Size	3.75"H x 19" W x 27" D 88.9mm x 486.2mm x 685.8mm

Environmental

Temperature	
Operating	+32F to +104F (0 to 40C)
Non Operating	-40F to +176F (-40 to 80C)
Altitude	
Operating	10,000 Feet
Non Operating	40,000 Feet
Humidity	
Operating	0 to 90% (non condensing)
Non Operating	0 to 90% (non condensing)



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