# Multi-Hosting with PerifiTech's Unique Aerial Intelligent Array

Many of today's network environments require real-time data storage management, to host multiple operating systems and applications. In order to provide faster disk throughput and/or fault tolerance, RAID technology has been implemented to fulfill this requirement. Although effective, the typical RAID disk array contains inefficiencies, both technically and economically, due to the inflexible nature of most RAID disk controllers which do not support multiple hosts. For example, a network consisting of individual servers to host NT, Citrix, SQL and Exchange would require four separate RAID controllers, each connected to it's individual battery of hard drives, to provide the disk array requirements of each server. This unnecessary duplication of hardware multiplies the probability of component failure several times, while also drastically increasing the overall cost as well. As for performance, this de-centralized data storage approach creates SCSI I/O contention which penalizes data throughput. Separate data backups must also be performed on each server's disk array, which again results in lengthy backup times, which may not be acceptable in some network environments which have a limited backup window.

The PerifiTech *Aerial* Intelligent Array contains an intelligent RAID controller which supports up to six programmable SCSI channels. Each channel can be setup to operate as a data storage (disk) or host channel. This Multi-Channel feature allows several servers to attach to the array's single, centralized battery of hard drives. As a result, the need ***and*** cost for multiple RAID controllers and disk arrays is eliminated, thus reducing the probability of component failure at the same time. This centralized data storage approach also reduces SCSI I/O contention, which increases overall network performance. In addition, performance is further enhanced with PerifiTech's patented Disk Optimization and SCSI Management software, allowing for backups to occur in a fraction of the time, compared to non-enhanced environments. *Aerial* Intelligent Arrays can be configured to provide any combination of data storage capacity and RAID level to multiple servers and operating systems, simultaneously.

- Supports Concurrent Operating Systems including NT, Citrix, NetWare and Linux
- Multiple Simultaneous RAID Architectures: 0, 1 (0+1), 3, 5, 10 and JBOD
- Ultimate Fault Tolerance via Hot-Swap Storage, Redundant Power and Thermal Management
- Highest Throughput at Lowest CPU Utilization through Patented SCSI Enhancement Technology

**Aerial Intelligent Disk Array**