



Titan Storage Server

#### HIGHLIGHTS

- Unified NAS and iSCSI in a single system
- Wire speed performance
- Maximum 65,536 LUNs per Titan
- Concurrent shared access to data
- Multi-path I/O support for link redundancy
- Titan virtualization, data protection, and data management features
- Simplified setup with iSNS support
- Enhanced security with mutual authentication

## BlueArc iSCSI

### Expand the Power and Simplicity of Your BlueArc Titan. Now Manage Both Files and Block-Based Data from a Single System.

The Titan Server supports iSCSI, the Internet Small Computer System Interface protocol, which enables block level data transfer over Ethernet LANs. With iSCSI installed, BlueArc customers can provide both block and file-based services to clients and applications, each tuned to provide optimum performance and ease of use.

Typical applications which work well with iSCSI include:

- VMware
- Microsoft Exchange Server
- Microsoft SQL Server
- Windows or Linux boot server
- Applications integrated with Microsoft VSS (Volume Shadow Service)

BlueArc iSCSI is installed as a firmware feature, and does not require any additional hardware. It offers an economical, yet high performance storage consolidation solution for the organization that needs concurrent block and file level data access. There is no need to purchase a separate controller or drive arrays to deliver easy-to-use iSCSI block level data access.

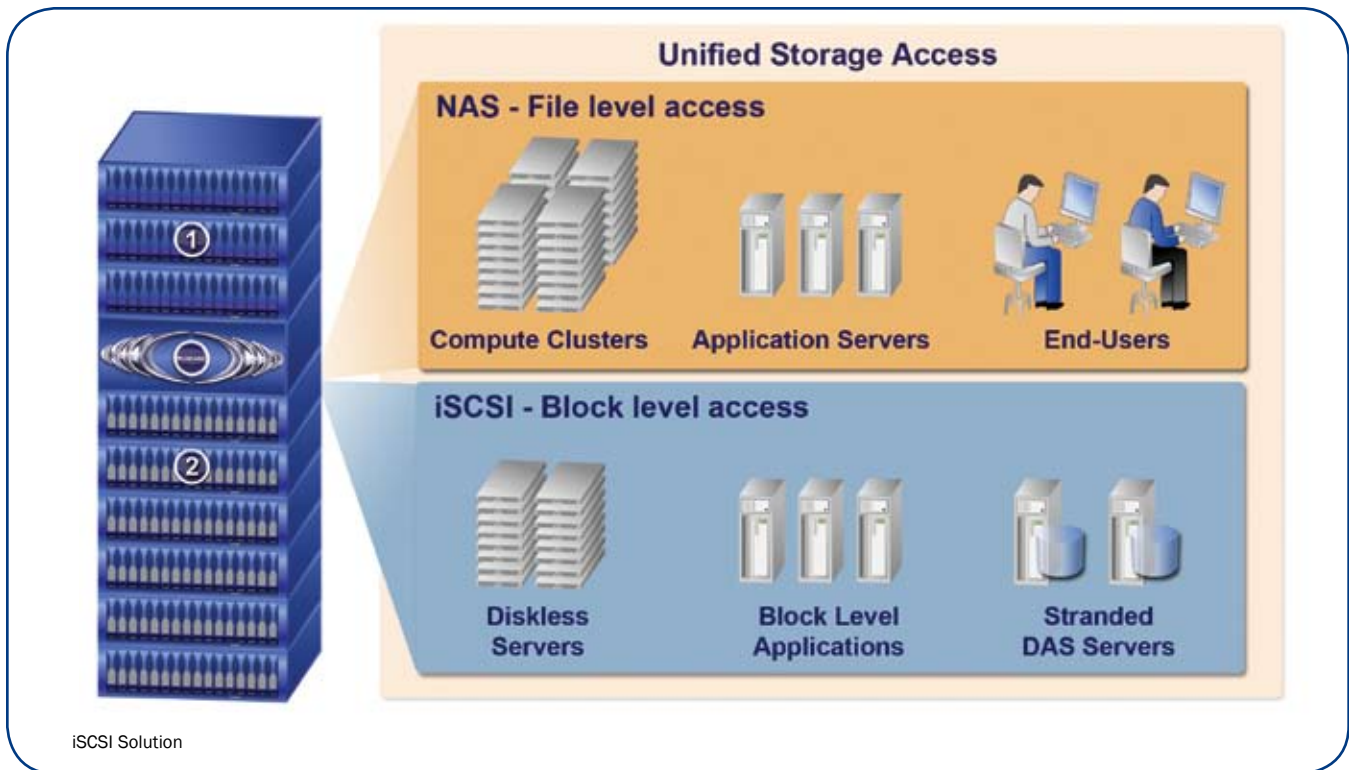
Offering significant improvements in performance and scalability for block-based applications, BlueArc iSCSI is able to sustain full, wire-speed data throughput for even the highest end database system. Additionally, with the ability to configure up to 65,536 LUNs for each Titan, one Titan can easily support simultaneous connections to many iSCSI clients.

BlueArc iSCSI LUNs are drawn from shared storage pools which are aggregated across multiple raid groups and many disk drives. This architecture allows consistently high performance regardless of iSCSI LUN size because each LUN shares the performance of all the drives in the storage pool. In contrast, many competing iSCSI systems create LUNs that may be provisioned from only a single RAID group with a small number of drives, limiting the available performance and scalability. Concurrent LUN access allows iSCSI to share storage pools with file systems for maximum space utilization efficiency.

With iSCSI installed, the Titan server becomes available as an iSCSI target, creating a virtual SAN. To the host servers, the virtual SAN appears just as if it is a locally attached hard drive that can be accessed by multiple users at a time.

BlueArc iSCSI is managed through the same easy-to-use graphical interface that is used to manage Titan file systems, and shares many of the same outstanding features, including snapshots, replication and backup. Additionally, BlueArc iSCSI offers simplified set-up and provisioning capabilities with support for iSNS.

The resulting solution offers a number of benefits to IT organizations, including low total cost of ownership (TCO), high performance, scalability, and simplified management of storage resources.



FEATURE	SPECIFICATION
Wire speed performance	Yes
Titan virtualization, data protection, and data management features	Yes
Simplified setup	iSCSI Name Server (iSNS) support
Multi-path I/O support	Yes
Mutual authentication between initiator and target	CHAP
Maximum LUNs per Titan	65,536 LUNs
Supported hardware initiators	Alacritech, QLogic
Supported software initiators	Microsoft, Linux, Solaris
GUI and CLI support	Yes
Licensed software feature	Yes



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