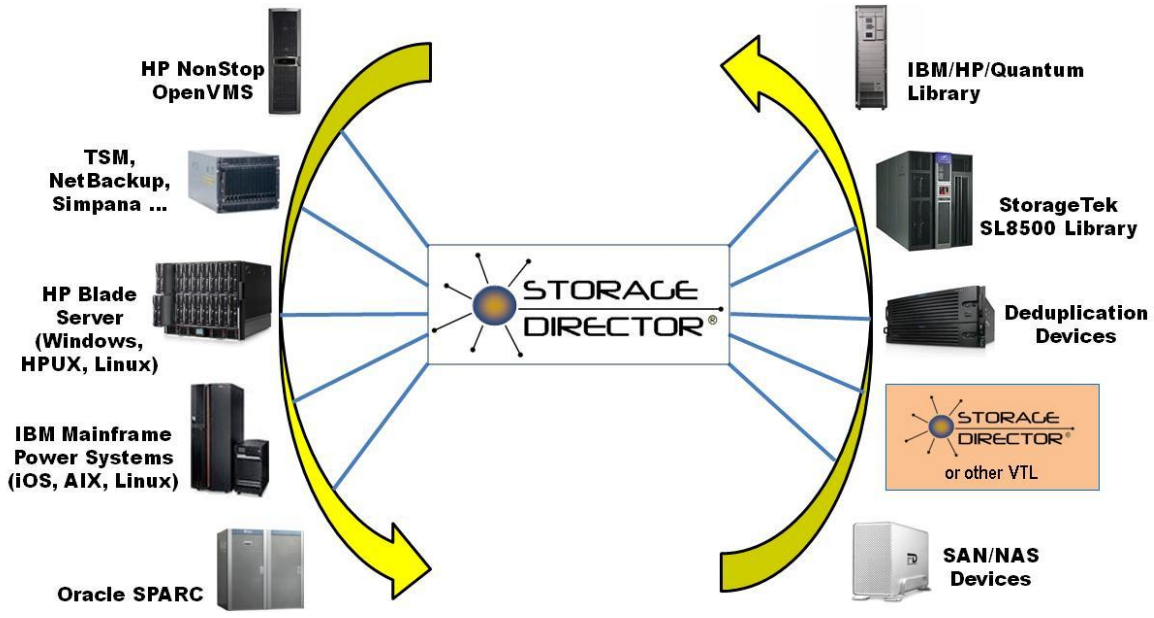
Tributary SYSTEMS, INC

BACKUP VIRTUALIZATION

STORAGE DIRECTOR®

Tributary Systems' Storage Director® (SD) is a backup virtualization and consolidation solution. SD is an any host platform to any storage media or device solution that virtualizes and consolidates backup storage in any heterogeneous datacenter. Storage Director was designed for fault-tolerant, high availability computing environments and meets or exceeds most data backup requirements for speed, capacity, compatibility, and reliability.

- Provides fully automated backup and restore operations
- Integrated monitoring capabilities for industry leading reports, analysis, and capacity planning
- Data-at-rest compression/AES encryption on both disk cache and physical tape media
- Transparent remote backup and restore features to satisfy off-site archival requirements
- Enables alternate site disaster recovery schemes
- User defined policies allow flexible tape and data migration strategies
- Specifically designed for heterogeneous, multi-platform environments including proprietary platforms such as IBM® Mainframe, HP NonStop ™ (Tandem), etc.
- Customized configurations for higher availability and specific customer needs
- Supports tape library distribution and consolidation
- Supports remote replication with latency management/WAN optimization



AUTOMATED BACKUP & RESTORE | MULTI-PLATFORM

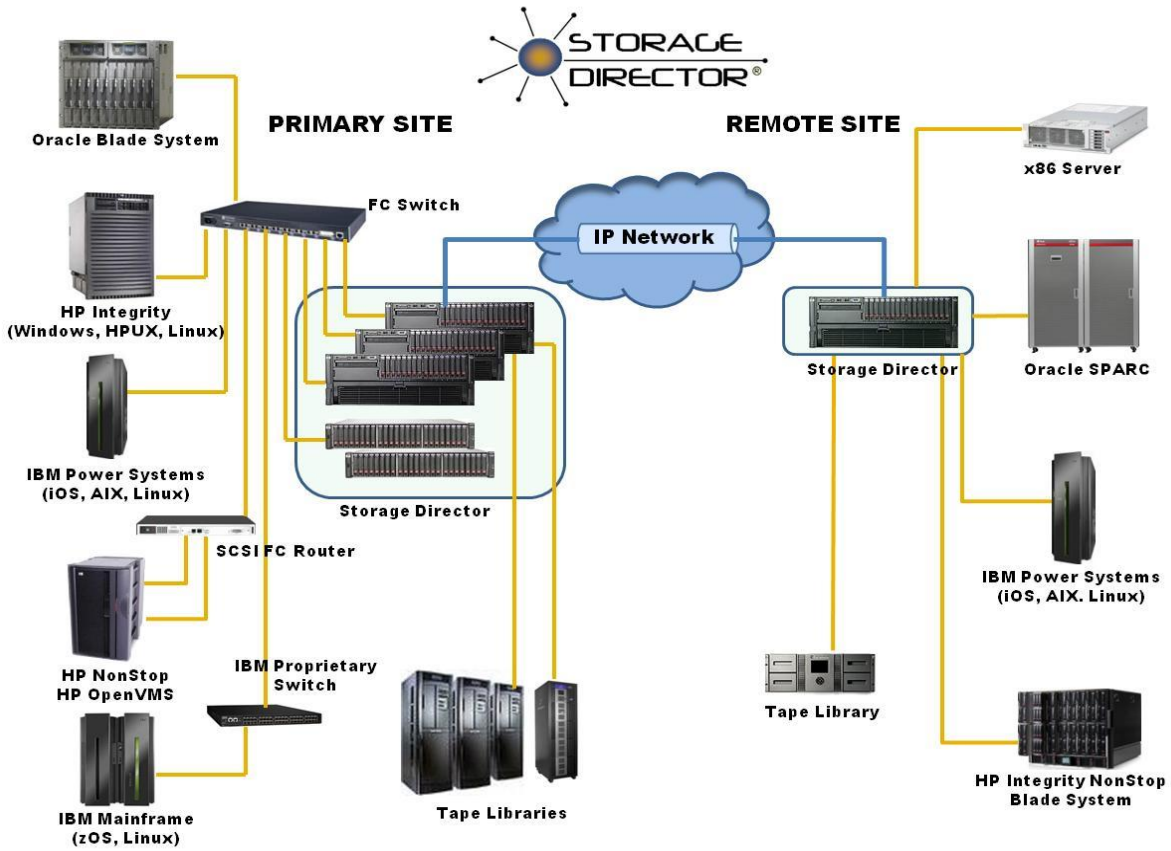
Storage Director from Tributary Systems, Inc. offers a state-of-the-art backup storage consolidation platform which can handle requirements from even the most complex environments. Storage Director implements a wide variety of data protection schemes and tape library consolidation, thus eliminating the need to dedicate devices for specific backup purposes.

Fully Automated Backup and Restore Operations

The technology within Storage Director brings a scalable, flexible, and high-throughput solution to backup and restore operations. No longer do operations staff need to monitor data movement. Storage Director provides dynamic drive sharing, customer defined virtual tape policies, backup to local and remote sites, and a performance improvement over current backup methods.

Multi-Platform Heterogeneous Environments

Storage Director emulates several standard front-end interfaces in which existing backup servers and applications can connect and control. Because Storage Director adheres to using standard interfaces, backup servers can reside on nearly any platform and operating system in the market today. This includes all open platforms (x86 Intel® or AMD based systems) as well as IBM® iSeries™ (AS400), IBM Power Systems™, HP OpenVMS, HP UX, Sun® SPARC, and blade systems, running Microsoft® Windows®, Linux®, and UNIX®.



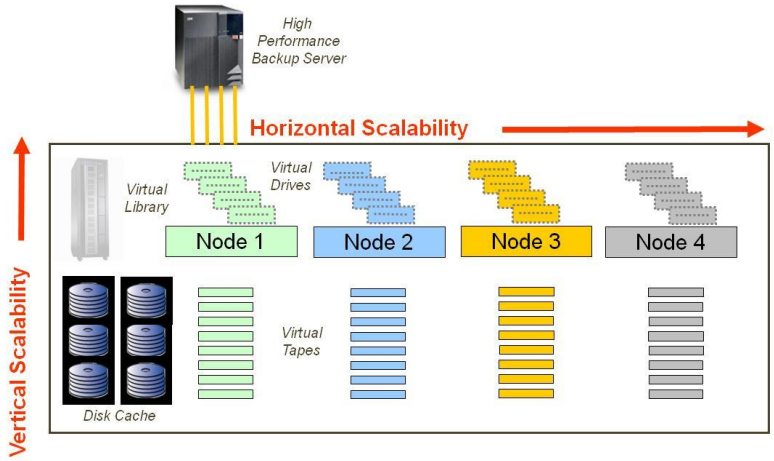
REMOTE SITE BACKUP & DR | CONSOLIDATION | SCALABLE

Remote Site Backup and Disaster Recovery

Offsite data storage is often a prerequisite in satisfying complete data backup and security. This can be accomplished by writing data to physical tape and then storing the tapes in an offsite vault. A better and more cost effective approach is to configure Storage Director to electronically transfer encrypted data to and from a remote site. Since the data is readily available at the remote site, restoring using Storage Director at the remote site is an integral part in any disaster recovery plan.

Tape Library Distribution and Consolidation

Existing backup servers can utilize the multiple front-end virtual libraries presented by Storage Director. These backup servers view each connected front-end virtual library as dedicated to its needs. Storage Director, in turn, can consolidate these virtual libraries into one or more physical back-end devices – typically a tape library with drives. The result is a reduction in the number of tape libraries and drives needed as well as reduced maintenance costs.



Customized Configurations

Storage Director is available in the following configurations: ANTARES 900, ANTARES 2100, ANTARES 3300 and ECLIPSE. ANTARES is a low cost, self-contained 3U backup storage appliance for all IBM, HP, Oracle/Sun and open computing platforms running Windows, Linux and UNIX operating systems. ANTARES is also compatible with NetBackup, Simpana, TSM and other backup applications. ECLIPSE is a zero cache solution designed as a translation/compatibility platform fronting existing backup infrastructure. Backup sizes, throughput requirements, tape retention policies, availability requirements, as well as future growth rates will determine which model best fits a customer's needs.

Scalable and Expandable

As backup requirements change, so too can Storage Director. Additional virtual libraries, drives, and tapes are easily added through a client GUI. Additional disk cache enclosures can be introduced into the system and throughput performance and higher availability can be achieved through the multi-node architecture. Storage Director will meet the needs of today and protect your investment by meeting a different set of needs tomorrow.

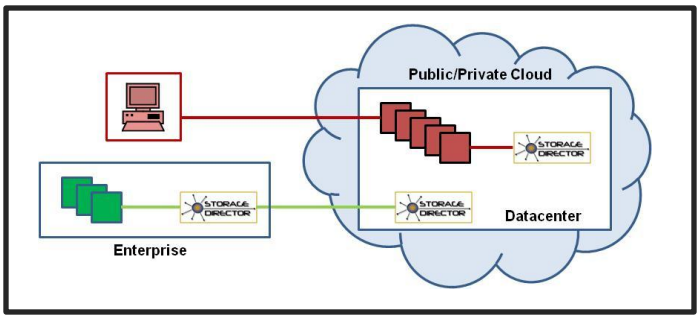
BACKUP VIRTUALIZATION

Cloud Environment Deployment

Cloud computing is fundamentally changing the way that IT resources are deployed and utilized. Enterprise customers see the reduced costs and flexibility benefits of this new architecture – whether it is through private, public, or hybrid cloud solutions. Storage Director can be utilized in this new infrastructure model in a variety of ways:

- **Backup virtualization of cloud based host servers and applications**: Storage Director is co-located with the host servers and is managed entirely from a web-based interface. Physical and virtual servers can be backed up and easily managed.

- **Backup virtualization of customer premise host servers and applications to the cloud:** A small Storage Director appliance is used at the customer site. This appliance satisfies the short backup window and throughput requirements and, in turn, replicates data to Storage Director residing at an off-premise cloud datacenter.



Storage Director at a Glance:

Virtual Slot Capacity per Library	Up to 30,000
Virtual Libraries and Drives	Up to 1023 virtual devices
Data Backup Rate	Up to 5 TB / hour / node

Tributary Systems, Inc. is a technology solution provider to enterprise computing customers. Tributary develops and sells data protection, backup storage, virtualization, site-to-site replication and disaster recovery solutions. Tributary is an acknowledged global leader in providing backup storage solutions for fault-tolerant, high availability, enterprise computing environments, specifically the HP NonStop™ (Tandem) platform.

Tributary was founded in 1990 and is a Texas based company with its headquarters, development, integration, and test facilities in Bedford, Texas and software development and test facility in Austin, Texas. Through its channels and direct sales organization, Tributary has served customers worldwide, predominantly in the banking, financial services, retail, telecom and healthcare industries. Tributary is a HP business partner and OEM supplier, IBM Solution Reseller (ISR), Quantum® Value-Added Reseller (VAR), and Oracle® OEM partner.

Tributary SYSTEMS, INC

Headquarters | 3717 Commerce Place, Suite C | Bedford, Texas 76021
(817) 354-8009 | (817) 786-3090 (Fax)
Software Development | 505 E. Huntland Drive , Suite 460 | Austin, TX 78752
salesusa@tributary.com | saleseurope@tributary.com
www.tributary.com