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TFinity® ExaScale Library 🕝 🥏 🐠 💿









The World's Largest Storage System

TFinity is not only Spectra Logic's largest library, but it is the industry's largest library. It is also the most feature rich by including: Media Lifecycle Management (MLM), Drive and Library Lifecycle Management (DLM, LLM), Data Integrity Verification (DIV), Integrated Encryption, Global Spare, Power Monitoring, Read/Write monitoring, ASM, and other features as inclusions or economically priced optional items – none of which require additional servers or support contracts to operate or manage.

Although it is the industry's largest, and most richly featured library, the TFinity ExaScale continues to push the edges of tape storage. With the introduction of RationalRobotics, a combination of hardware and software features, Spectra® has created a tape library that delivers superior performance, reliability and functionally. Doing so allows Spectra to extend its advantage relative to the competition while meeting any organization's demands for a high performance, low cost, reliable and scalable storage solution. In 2016, Spectra Logic delivers the fastest library in existence with its TFinity ExaScale.



SPECTRA'S DEEP STORAGE STORY

Rethinking Storage

For nearly 40 years Spectra has focused on innovation in storage systems and solutions. The leaders in data intensive industries, government entities, and researchers rely on Spectra solutions that are optimized to support their specific workflows. Spectra has a rich ecosystem of leading solution providers combined with the only platform, BlackPearl®, that provides a single interface to the industry's leading tape and disk storage using cloud protocols.



PERFORMANCE

TFinity ExaScale is built with the highest performance we could achieve in automated tape technology. From robotics, to drives, to software, to media, Spectra has included every one of our performance innovations in these libraries.

CAPACITY

TFinity was created to be the highest capacity storage system in the world, and actually achieved that goal in 2014. The ExaScale expands on that accomplishment and can now offer more than an Exabyte of data storage in a single library.

FLEXIBILITY

Our TFinity ExaScale has the unheard-of ability to operate three kinds of tape technology in the same library. Paired with Spectra's extensive software and hardware partners, organizations can develop customized workflows for every situation.

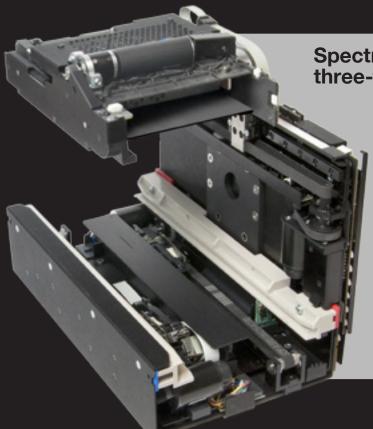
FEATURES

The consistent and fluid working of any data storage system is dependent on the software, firmware and hardware all working harmoniously and in sync. The set of features contained in a TFinity ExaScale make it the industry leader in deep storage.

RELIABILITY

The TFinity ExaScale includes a redundant dual robotic infrastructure that not only provides for a failover solution, but also twice the working ability. All of the parts and pieces have been carefully crafted and integrated for maximum reliability.

RationalRobotics: World's Fastest Library TFinity ExaScale High-Performance Transporter



Spectra engineers generated a three-fold boost in performance

The High Performance Transporter is a "from the ground up" redesign of the robotic hand used to manipulate media. The transporter has been designed with four primary goals: better performance, better reliability, mixed media, and better sensing. The new HPT from Spectra accomplishes this and more by reduced cycle time or tape mount time (better performance) and increased mean time between failures (better reliability). Spectra's HPT is the central improvement that provides organizations the industry's fastest library on the market today. New sensors and features, including temperature and humidity readings, provides increased reliability of Spectra's HPT. Coupled with the ability to support any current type of tape media, organizations free themselves from vendor lock-in, and provide superior flexibility. Spectra's HPT delivers superior reliability, performance, and flexibility to an already amazing library.

Spectra's patented TeraPorter also underwent a spectacular make-over.

The Teraporter is the tall, vertical arm inside of Spectra Logic's TFinity ExaScale library. It is used to position the HPT (robotic picker) at the chamber or the drive so that the transporter can handle each TeraPack.

One of the primary goals of the new Teraporter is to increase the speed of the horizontal move performance of the arm. As a TFinity grows longer and longer the horizontal performance can impact the overall response time of mount commands.

The new Teraporter will provide a top end speed of (160 ips) or double that of the current model. The acceleration rate will not change (50"/sec²) in which case it will reach maximum speed in five to six frames.



Brushless motors and copper rails

Brushless DC motors deliver maximum torque when stationary, better performance when operating, superior reliability, and less downtime over traditional brushed motors. Copper rails and carbon brushes provide higher reliability in power and signal delivery, while doing an excellent job of keeping debris out of the system.



RationalRobotics: Moving Efficiently Enhanced management controls for greater productivity



MEDIA IQTM

The Spectra Logic move queuing feature accepts Fibre Channel host "move" commands and sorts, then assigns them to movers based on their proximity between media and drives. This allows the library to assign the robot best positioned to service each particular request in the least amount of time, thereby optimizing total robot performance.



SLOT IQTM

A software "move" algorithm will virtualize the slot location inside the library and take advantage of the Terapack's unique design. In doing so, it allows the robots to physically move less often or shorter distances as they take advantage of the available storage "holes" within a Terapack as well as those closest to the drive bay, thereby improving cycle performance. This is a Spectra exclusive time-saving and production streamlining feature. The system also allows a partition to have "Moving Holes" turned ON or OFF.



LogIQTM

Introducing a new centralized report location - a function where all logs and trouble reports will be gathered and stored, providing users the ability to easily send all valuable reports to Spectra's support department. This feature will be released in Q3 2016 and will result in less downtime for users and a more rapid diagnosis of problems.



Bulk Loading: Less Media Handling

All TFinity ExaScale libraries support BulkTAP end units as an optional hardware feature. Each BulkTAP allows 14 Terapacks to be imported or exported in a single user operation.



TFinity ExaScale will additionally support the use of up to two Bulk TAPs simultaneously for decreased loading-to-working time for organizations who eject/load large amounts of media from their library. While one set of robotics is working read/write operations, the other set of robotics can take in and distribute from one of the bulk TAPs. Then the robotics can switch jobs so the other bulk TAP media load can be taken in and distributed.

Best-In-Class Tape Technology

TS1150 Technology Drives and Media with TFinity ExaScale

TS1150 Technology offers the most reliable tape technology ever developed. Designed to provide Enterprise-Class reliability with 24×7 usage, the TS1150 Technology tape drive provides 1000 times more data integrity than an LTO tape drive.

In addition to robust reliability and data integrity, the TS1150 Technology offers the largest capacity per tape and the fastest data transfer rate of any tape technology available. This translates into fewer tapes needed to store the same amount of data, less labor and time to manage the tape inventory, and reduced library, application and offsite slot costs.

Superior performance provides customers with the ability to get the same amount of work done with fewer drives and reduced support costs.

Superior
Data Integrity:

Spectra SKLM with AES-256 bit encryption and key management.

High Capacity: 10 TB native (25 TB compressed at 2.5:1)

Fast Performance: Experience shorter backup windows and improved data access with the fastest tape drive on the market, delivering native data transfer rates of 360 MB/s and compressed data transfer rates of 700 MB/s.

Designed for Constant Use: 237,000 hour MTBF to meet demanding uptime requirements and ensure data is available when it's needed.

TFinity ExaScale Maximizes the Industry Standard:

LTO Tape Technology

LTO (Linear Tape Open) is the only open format tape technology available, resulting from a cooperative development effort in the industry. LTO media is the low-cost, yet high performance storage standard. LTO-7 is the current generation and the LTO roadmap is planned to go out to generation 10 and beyond.



LTO-6 Capacity: Up to 6.25 TB compressed 2.5:1 (2.5 TB native)

Data transfer rate: Up to 400 MB/s compressed (160 MB/s native)

Speed matching data rate: 40-160 MB/s

Speed matching data rate: 40-160 MB/s **Corrected Bit Error Rate:** LTO-6 = 1.0*10e-17

Data compression: Streaming Lossless Data Compression (SLDC)

Data cartridge: LTO-6 (rewritable) LTO-6 (WORM)

Cleaning cartridge: LTO Universal Cleaning Cartridge (UCC)

LTO-7 Capacity: Up to 15 TB compressed 2.5:1 (6.0 TB native) **Data transfer rate:** Up to 750 MB/s compressed (300 MB/s native)

Speed matching: 100-300 MB/s

Corrected Bit Error Rate: LTO-7 = 1.0*10e-19

Data compression: Streaming Lossless Data Compression (SLDC)

Data cartridge: LTO-7 (rewritable) LTO-7 (WORM)

Cleaning cartridge: LTO Universal Cleaning Cartridge (UCC)

Largest storage library in the world.....

Drive Type	Configuration	Drives (max.)	Slots (max.)	Capacity Native/Compressed ¹	Throughput Native/Compressed per Hr ²
TS1150 Technology	3-Frame Minimum	24	1,350	13.5 PB / 33.8 PB	31.1 TB / 60.5 TB
	44-frame Library	144	40,680	406.8 PB / 1.0 EB	186.6 TB / 362.9 TB
	Complex ³	1,152	325,440	3.2 EB / 8.1 EB	1.4 PB / 2.9 PB
LTO-7	3-Frame Minimum	24	1,800	10.8 PB / 27 PB	25.9 TB / 64.8 TB
	44-frame Library	144	53,460	320.8 PB / 801.9 PB	155.5 TB / 388.8 TB
	Complex ³	1,152	427,680	2.5 EB / 6.4 EB	1.2 PB / 3.1 PB
Tri-Media*	3-Frame Minimum	24	1,399	11.1 PB / 25.5 PB	26.3 TB / 64.8 TB
	44-frame Library	144	42,186	334 PB / 768 PB	131.3 TB / 324 TB
	Complex ³	1,152	337,488	2.6 EB / 6.1 EB	1.1 PB / 2.5 PB

^{1.} Compressed capacities at 2.5:1 compression 2. Maximum Throughput Compression 3. Complex = Eight 44-frame libraries

Industry Leading Density...



When data center real-estate counts, TFinity ExaScale offers you unsurpassed storage density and the smallest footprint through a unique and highly efficient library design. Using innovative "shelves" instead of slots, and TeraPack® containers in place of individual cartridges; TFinity's industry-best density delivers up to a 50% reduction in data center floor space required versus competing offerings.



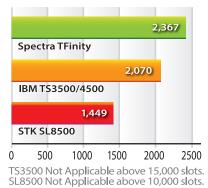
The highly compact library design is also built to fit into a standard rack-row layout, fitting co-located and standardized data center designs that don't easily accommodate non-standard equipment footprints. These significant space-saving benefits allow you to re-task floor space for operations other than storage.

Shrink Your Data Center Footprint

Enterprise Library Footprint Comparison 87.79 **SQ FT** The floorspace comparison diagrams 91.82 shown at left are based T\$4500 **SQ FT** on a tape slot count of 10,000 cartridges and 112.23 12 drives. TS3500 SQ FT 103.04 16000 **SQ FT** 266.93 *Single-Robot SL8500 **SQFT** Library

Compressed Terabytes per Square Foot

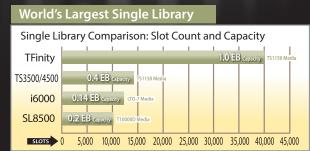
Based on 10,000 enterprise drive tape slots (TS1150 or T10000D) and 12 enterprise drives

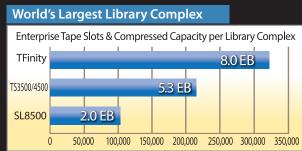


TS1150 Technology (10 TB Native) compressed at 2.5:1 in TFinity and TS3500.T10000D (8 TB native) compressed at 2.5:1 in SL8500

^{*} Tri-Media = evenly distributed frames of LTO, TS11XX, and T100000D technologies

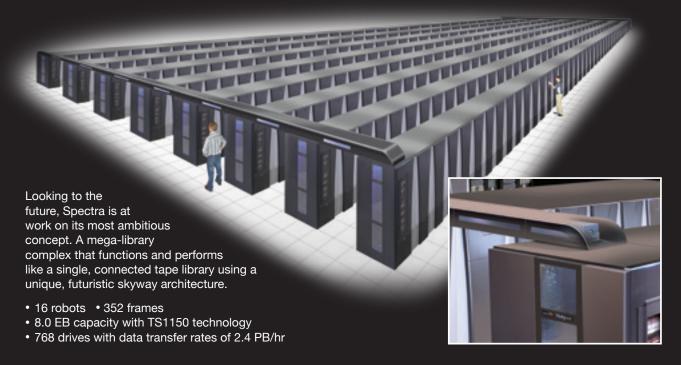






TFinity ExaScale Complex

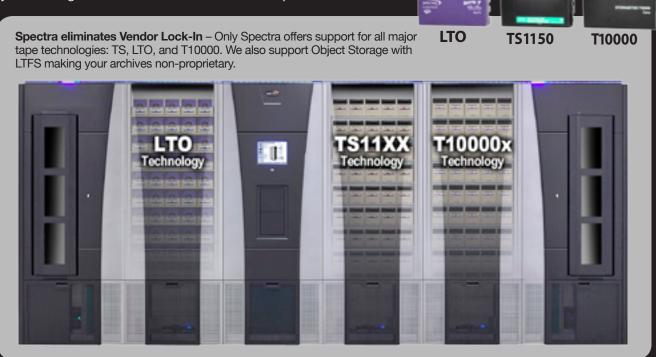
Eight 44-frame libraries designed to work as a single library



Tri-Media Revolution

Three Different Tape Technologies in the same library

Spectra pioneered the dual-tape technology of combining LTO with IBM® TS tape technology in the same library. Now we include Oracle® T10000 technology. Spectra's TFinity ExaScale Tri-Media feature allows you to preserve your investment by migrating or integrating your existing T10000 media & drives – another Spectra exclusive.



TFinity ExaScale "Cold Storage"

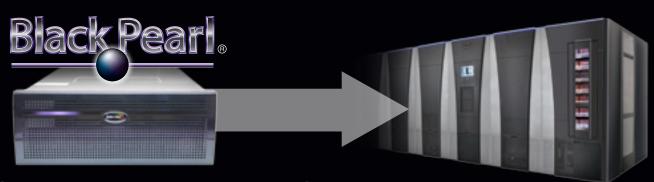
A really hot idea for storing way more for way less



Cold Storage is a BlueScale® feature to be released in the TFinity ExaScale library. The Cold Storage partition allows an organization to vault tapes (typically those infrequently accessed) inside the library transparently to the ISV application. Most ISV packages charge customers by the amount of available storage under management, either by tape slot or Terabyte of storage. By making storage slots within the library invisible to the application, tapes can be stored within an easily retrieved, automated environment without being exposed to the cost of ISV management. When access is required, tapes are simply moved from the Cold Storage partition to the active partition at which point in time the ISV package can "see" them for access purposes.

Another added benefit, is that a Cold Storage partition can have a global spare drive assigned to it to give the ability to use the MLM features of BlueScale. This would include Quickscan and Fullscan to ensure data integrity within the Cold Storage partition without the need to migrate tapes from the Cold Storage partition to an active partition.

Introducing the Industry-Changing Breakthrough in massive data storage



Spectra Logic has created an S3 gateway to Object Storage: The most efficient, intelligent path to deep, limitless storage in any TFinity library.

Spectra BlackPearl® Partner Developers

- Arcitecta
- Avid
- CatDV
- Cloudian
- Cyberduck
- EmpressGlobus
- Imagen
- IPV
- Karthavya
- Marquis
- Milestone
- Tiger Technology
- TME
- Deep Storage Browser
- Network File Interface

BlackPearl® SDK Clients

- Hadoop SDK
- C#.Net SDK
- C SDK
- Java SDK
- Python SDK
- Ruby SDK
- Java CLI
- Hadoop CLI

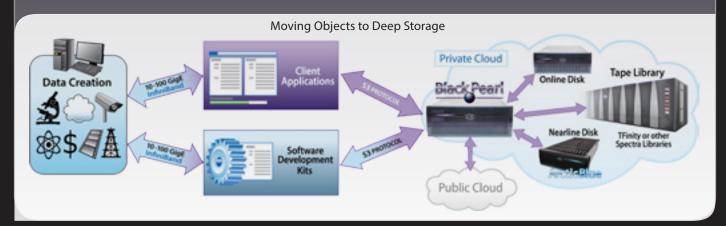
BlackPearl enables users to deploy a tier of deep storage that is cost effective, easy to managing high capacity data storage. With BlackPearl's simple RESTful S3 interface and embedded management software, organizations can use existing client applications as a plug and play solution, or develop their own using a host of tool's provided by Spectra. Lastly, existing S3 applications can be implemented with little to no modification.

Easily Expands to Exabytes and Beyond

BlackPearl unlocks tape's economies of scale, allowing you to drive the total cost of your deep storage down as your system grows. Standard LTO and IBM TS Technology tape roadmaps also span across future generations with significant capacity improvements to help you realize even greater capacity and storage density benefits.

Tiering Makes It All Possible

Tiered storage is an underlying principle of BlackPearl and its advanced bucket management. Spectra's policy-based data management software delivers a genetically diverse storage eco-system. It is a storage networking method where data is stored on various types of media based on performance, availability, and recovery requirements. For example, data intended for restoration in the event of data loss or corruption could be stored locally – for fast recovery – while data for regulatory purposes could be archived to lower cost disks or tape.



TFinity ExaScale: Maximum Compatibility

Designed to work with the industry's cutting edge software



Spectra tape libraries support nearly every software package written for open systems tape, in parallel with Spectra's Shared Library Services (SLS), to deliver an application integration that maximizes the benefits of your storage, optimize business results and minimize time-to-value. Combining Spectra storage systems and solutions with leading third party applications, can reduce risk, improve efficiency and address data protection concerns – while increasing flexibility through a more robust information infrastructure.

Archiware – PreSTORE

ASG (Atempo) - Digital Archive

ASG (Atempo) - Time Navigator

EMC – Avamar

CommVault - Simpana and Galaxy

Computer Associates - ARCserve Backup

r15, r12.5 & r12.0

CRAY - TAS

CrossRoads - StrongBox

EMC / Legato - Networker

Enigma Data Solutions - PARS 3

SGI (formally FileTek, Inc.) - StorHouse

Oracle (formally Front Porch Digital) - DivArchive

GRAU Data - AG

Hewlett Packard – HP OpenView Data Protector

IBM - High Performance Storage Systems (HPSS)

IBM - Tivoli Storage Manager Server (Spectrum Storage)

Masstech Group - MassStore

NovaStor - NovaNET, NovaXchange, and TapeCopy

Oracle - Oracle Secure Backup

QStar Technologies – HSM and Data Director

Quantum – StorNext

Dell/Quest Software - NetVault Backup

(formerly BakBone Software)

Roxio - Retrospect (formerly EMC Retrospect)

SEP - sesam

Seven10 Storage - StorFirst

SGI – InfiniteStorage Data Migration Facility (DMF)

SGL - FlashNet

SoleraTec - Phoenix

Sun – SAM-QFS

Symantec - NetBackup

Symantec - Backup Exec

Syncsort - Backup Express

Teradactyl - TiBS

Tolis Group - BRU

Veritas - NetBackup

Versity - VSM

Western Digital - Arkeia Software

XenData - Archive Series

Yosemite Technologies - TapeWare

Industry-Unique Customization



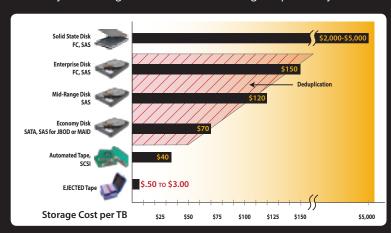


The range of possibilities for customizing your ExaScale TFinity are almost boundless. Whether customizing a new TFinity or enhancing your existing library you can graphically customize panels nearly any way you would like.



Another Beautiful Feature: Cost Savings

Tape is the most cost effective storage media available. The Exascale TFinity leverages tape's cost effectiveness with lowest power consumption of any library per GB to deliver the world's fastest and at the same time highest capacity single library. With the ability to expand from 3 frames to 43 frames and hold up to an Exabyte of data, the flexibility of Exascale TFinity will always allow organizations to have a single tape library that meets their needs.



Tape is the most cost effective storage media available. The price of storage per Terabyte on tape versus disk is so comparatively low, that every business enterprise should consider tape as a major part of their long term storage and archive planning. According to storage analysts, tape is less expensive than disk and can store much more data for the same cost. David Reine of Clipper Group found that LTO tape costs up to 15x less than SATA disk for long-term archiving of large quantities of data.

Industry-Leading Energy Savings

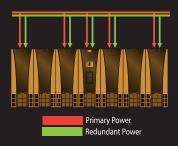
Highly Power-Efficient

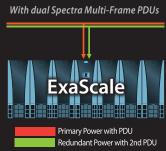
TFinity ExaScale's built-in, not bolted-on architecture provides the features you need and eliminates the requirement for multiple external servers to be purchased, powered, cooled and serviced for the purpose of library management. In comprehensive testing and comparison, TFinity's power consumption is shown to be less than competing systems (in some cases, by a factor of 4x to 6x). Additionally, power consumption monitoring is an integral part of BlueScale's feature set to help users keep track of their substantial energy cost savings.



Dual AC Power design: No phasing required

The ExaScale TFinity has made improvements to its power subsystem over the TFinity library. In the previous TFinity, users were required to power each library mainframe, drive frame, and service bays with a separate power drop for each frame. With the implementation of Spectra's new power distribution unit, and dual AC power transfer switch, organizations can now utilize a single power input and run an entire library. If redundant power is needed, there are no longer any phasing requirements, enabling easy installation and configuration. Existing T950 and TFinity customers have the option to upgrade their existing library.





Snapshot of TFinity ExaScale Features

Feature	Summary		
High Performance Transporter	A) faster move performance B) multi-media capability C) enhanced reliability		
New Teraporter	Next generation robotic transporter offering better performance and reliability		
Custom Panels	Customer tailored covers for front panels of TFinity libraries		
Tri-Media	Support for LTO, TS11x0, and T10000 tape drive simultaneously		
44-Frames	Expanding the maximum frame count from 40 frames to 44		
SLOT IQ	Take advantage of empty spaces nearest tape drives to optimize performance		
MEDIA IQ	Sorting move commands and optimizing move sequence based on robot location		
Cold Storage	Segregation of tapes into a partition invisible to host applications to reduce cost		
Dual Bulk TAP	Ability to simultaneously use 2x BulkTAPs for similar operations		
BlackPearl Integration	Rack or other library top mounted gear to house BlackPearl appliance		
Dual AC Power	No input power phasing requirement for N+1 power redundancy		

Spectra is proud to be a part of companies that engage in world-leading business and research



SURVEILLANCE

Organizations in many industries use video surveillance to improve safety and security, protect business assets, meet legal requirements, and much more. To meet these demands, organizations are installing additional high definition cameras and retaining video for longer periods.



High Performance Computing environments require storage of massive amounts of data forever, with the ability to quickly provide parallel access across the complete storage system to multiple users in any location, concurrently.



MEDIA & ENTERTAINMENT

With a focus on instant access of digital assets and monetization of content, one of the most critical needs in the Media and Entertainment industry is to have access to your content when you need it.



Organizations must constantly reevaluate their unique mix of on-premises, private cloud and public cloud environment to meet new business goals. Leveraging Spectra's hybrid storage ecosystem, users can create a genetically diverse storage structure.



In an increasingly digital age, storage and sharing is more important than ever. Today's data backup, archive, and HSM storage solutions have evolved into much more feature-filled services that let you share and access your data easier and from pretty much anywhere - while still remaining affordable.



Unified Management

Competing solutions typically require a variety of resources to manage a single tape library: as many as six interfaces; onsite interaction with the library; and remotely managed applications located on additional servers. A single BlueScale® user interface manages an entire TFinity library without any external servers. This consolidation eliminates your need for added equipment, software license charges or increased power/cooling requirements of extra hardware. BlueScale also offers you unparalleled oper sixing you the ability to manage your library configurations, portitions, and

requirements of extra hardware. BlueScale also offers you unparalleled operator efficiency, giving you the ability to manage your library, configurations, partitions, encryption key management and all of your library/media/drive health monitoring through remote or local access with Spectra's Remote Library Controller.



Better Reliability Through Lifecycle Management







To ensure the viability of your data, Media Lifecycle Management (MLM) tracks and reports on health and security related statistics for Spectra Certified Media. Detailed reporting allows you to move your data onto new tapes before degraded media affects your data.

Drive Lifecycle Management (DLM) extends the same proactive approach to drives by integrating tape drive analysis and reporting within the library. Using easy-to-manage, color-coded icons, you can quickly identify the health status of a drive.

Managing the health of your library's critical components is made easy with Library Lifecycle Management (LLM) – by delivering utilization metrics relative to the expected useful life of library robotics, filters and other critical components.



Data Integrity Verification

Spectra offers a sophisticated suite of standard features that allow you to actively check data already written to tape. *PreScan* checks each imported tape and verifies that the tape can be safely written to. *QuickScan* scans a tape uni-directionally to provide a rapid indicator of integrity of data written. *FullScan* confirms that there are no media errors on the tape by reading the entire length of the tape.

Tape Advantages Over Disk

Current disk drives have reached maximum capacity providing 99 square inches of recordable space per drive. To achieve greater storage capacity, disk manufactures are forced to create new methods of recording (Shingled, heat, helium filled) to gain additional capacity, but limitations are still a major reality. An LTO-7 tape cartridge has 18,898 square inches of recordable space with the ability to add additional tape for future technology. As each future generation of tape technology is released, expect continual storage capacity increases due to tape's ability to easily increase capacity.

- Durability Tape-based storage offers superior durability over traditional disk-based storage
- Longevity Modern tape media can last up to 30 years when stored properly
- **Portability** Tape cartridges can be ejected and transported to any location in the world for safe keeping or disaster recovery
- Linear Tape File System LTFS stored on tape can be accessed in the same way as data on disk and removable flash drives
- **Bit Error Rate vs Disk** To put into perspective how reliable tape is, it has a detected error rate of 1 x 10¹⁹ and an even more impressive undetected error rate of a single bit for every 1.6 x 10³³ bits read. Compared to disk that has a detected error rate of 1 x 10¹⁶ it becomes clear that tape provides the most reliable storage medium available.



What some of our customers have said about Spectra...

"High density was our biggest requirement for the new digital archive solution, as our previous system consumed six racks and supported less than 2,000 slots. Spectra lets us store enough data to substantially grow our digital video archive in a very small footprint."

Stavros Hilaris VP and Chief Technical Officer



"This incident occurred just before the Christmas holiday. I was surprised and thrilled to get an email response to one of my questions late on Christmas eve. That's what I call customer support." "I love the way you package the replacement drives."

Steve Schroeder



"Spectra is an ideal partner due to its deep storage expertise. Spectra's BlackPearl product ecosystem, including their family of tape libraries and ArcticBlue disk products, will offer our customers an easy-to-deploy model, fast access to deep storage, and seamless scalability at a very attractive cost per terabyte."

Steve Tuecke



"We estimate that we will maintain 24/7 access to upwards of 4,000 LTO's at the start. That number will do nothing but grow, so we chose a new backup solution that cannot just protect existing historical content, but also grow with us."

Scott Rinehart Director of Internal Operations



SpectraGuard® Support

Support for Spectra TFinity ranges from our standard worldwide next business day replacement to more advanced alternatives, including next day, same day, four-hour onsite service, our exclusive Assisted Self-Maintenance option. Our support staff is cross-trained over the entire storage environment—not just hardware—so we can assist you with all aspects of any problem that should ever arise.



Assisted Self-Maintenance (ASM)









Drive

Power Supply

Robotics

I/O Module

When a component does need replacement, Spectra gives you the option to do it yourself—without onsite support. ASM is an industry-first support option designed for customers that require minimal downtime for environments where normal support services are not feasible (e.g. high-security facilities, mobile sites such as ships). ASM stocks all customer replaceable parts at your site, giving you the ability to make immediate repairs and eliminate the delays that a site visit can involve.

Spectra Service PriceLock

Concerned with the continual rising costs of support contracts on the equipment in your data center? Shocked each year when your vendor informs you of the recent 30% across the board support price increase? Spectra is keenly aware of the pain this causes customers and instead follows a unique, industry-first price protection plan on all of our support offerings. We guarantee the list price of your support offering will never go up more than the rate of inflation.





About Spectra Logic Corporation -----

Spectra Logic develops deep storage solutions that solve the problem of long term storage for business and technology professionals dealing with exponential data growth. Dedicated solely to storage innovation for nearly 40 years, Spectra Logic's uncompromising product and customer focus is proven by the largest information users in multiple vertical markets globally. Spectra enables affordable, multi-decade data storage and access by creating new methods of managing information in all forms of deep storage — including archive, backup, cold storage, cloud and private cloud.



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