
Ibm Tape Library

IBM System Storage Tape Library ts3500 ts4500 robotic-dual-sing.Action Tape Drives As Fast As Possible IBM 3555 (TS4300) Tape Drive Replacement IBM 3495 Promotional Video THIS \$130 TAPE CAN HOLD 30TB! How To Change Tape Drive / Cartridge On IBM TS3100 Tape Library Storage Server | Content Creator pro The mesmerizing work of a tape storage robot IBM 3555 (TS4300) Magazine Replacement Shawn Brume, IBM "Tape Roadmaps and Tape Library Innovation"/FUJIFILM Book Binding Tape Tutorial The Special Design That Makes Library Books Indestructible IBM and HP 9-track tape drives in operation Quick Book Tape Tip: Save Your Books Book Collecting Q\u0026A | How To Build Your Home Library TOURING my CLASSICS BOOKCASE!! (93 BOOKS) | Paiging Through HP MSL2024 Tape Library Initialization \u0026 Slot To Slot Test STORAGETEK SL8500 TAPE LIBRARY DEMO ORACLE storage tape library Why Tape Storage is Making a Sneaky Comeback Unintentional ASMR \u2013 Relaxing Retro Macintosh Demonstration (1984) Web camera mounted insite an IBM TS4500 tape library BL537A HP MSL2024 1 LTO-5 Ultrium 3000 SAS Tape Library Computer History Storage: 1995 IBM MAGSTAR Magnetic Tape Backup System (mainframe, CERN) Friday Reads | Library Love Readathon | Lots of historical fiction and international stories! IBM Mainframes - Part 1 (PWJ32) YA books for teens @isabellagerli E-books at Libraries: Worth the cost? The Rise and Fall of the IBM PC Part 3: The Cloners Strike Back BookGuard™ Clear \u0026 Cloth Book Binding Repair Tapes | How They're Different Folding table by premier furnitures Hoshangabad Installation and Configuration Guide IBM Linear Tape File System IBM System Storage Tape Encryption Solutions IBM System Storage Tape Library Guide for Open Systems Guide to Sharing and Partitioning IBM Tape Library Data IBM TS4500 R8 Tape Library Guide IBM TS4500 R6 Tape Library Guide IBM Tape Library Guide for Open Systems IBM Storage Networking SAN24B-6 Switch IBM TS4500 R4 Tape Library Guide Ready-to-use Virtual Appliance for Hands-on IBM Spectrum Archive Evaluation IBM Cloud Object Storage System Product Guide IBM Linear Tape File System Enterprise Edition V1.1.1.2: Installation and Configuration Guide IBM TS7700 Release 3.3 IBM DS8900F Performance Best Practices and Monitoring IBM Ts4500 R2 Tape Library Guide IBM TS4500 R5 Tape Library Guide IBM Spectrum Archive Single Drive Edition and Library Edition

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Installation and Configuration Guide IBM Redbooks

This IBM® Redpaper® publication describes configuration guidelines and best practices when IBM Spectrum® Scale Container Native Storage Access is used as a storage provider for IBM Cloud® Pak for Data on Red Hat OpenShift Container Platform. It also provides the steps to install IBM Db2® and several assemblies within IBM Cloud Pak® for Data, including Watson Knowledge Catalog, Watson Studio, IBM DataStage®, Db2 Warehouse, Watson Machine Learning, Watson OpenScale, Data Virtualization, Data Management Console, and Apache Spark. This IBM Redpaper publication was written for IT architects, IT specialists, developers, and others who are interested in installing IBM Cloud Pak for Data with IBM Spectrum Scale Container Native.

IBM Linear Tape File System IBM Redbooks

Building on over 20 years of virtual tape experience, the TS7760 now supports the ability to store virtual tape volumes in an object store. This IBM Redpaper publication helps you set up and configure the new cloud object storage support for IBM Cloud Object Storage (COS) or Amazon Web Services (AWS). The TS7700 supported off loading to physical tape for over two decades. Off loading to physical tape behind a TS7700 is used by hundreds of organizations around the world. By using the same hierarchical storage techniques, the TS7700 can also off load

to object storage. Because object storage is cloud-based and accessible from different regions, the TS7760 Cloud Storage Tier support essentially allows the cloud to be an extension of the grid. In this IBM Redpaper publication, we provide a brief overview of cloud technology with an emphasis on Object Storage. Object Storage is used by a broad set of technologies, including those technologies that are exclusive to IBM Z®. The aim of this publication is to provide a basic understanding of cloud, Object Storage, and different ways it can be integrated into your environment. This Redpaper is intended for system architects and storage administrators with TS7700 experience who want to add the support of a Cloud Storage Tier to their TS7700 solution.

IBM System Storage Tape Encryption Solutions IBM Redbooks

The IBM® Linear Tape File System™ (LTFS) is the first file system that works along with Linear Tape-Open (LTO) tape technology to set a new standard for ease of use and portability for open systems tape storage. In 2011, LTFS won an Engineering Emmy Award for Innovation from the Academy of Television Arts & Sciences. This IBM Redbooks® publication helps you install, tailor, and configure the IBM Spectrum™ Archive Single Drive Edition (SDE) and the IBM Spectrum Archive™ Library Edition (LE) products. LTFS is a file system that was originally implemented on dual-partition linear tape (IBM LTO Ultrium 5 tape drives (LTO-5) and IBM TS1140 tape drives). Now IBM Spectrum Archive SDE and LE support IBM LTO Ultrium 8, 7, 6, or 5 tape drives, and IBM TS1155, IBM TS1150, and IBM TS1140 tape drives.

IBM Spectrum Archive LE supports the IBM TS4500 tape library, IBM TS3500 tape library, IBM TS3310 tape library, IBM TS3200 tape library express, IBM TS3100 tape library express, and IBM TS2900 tape autoloader express. IBM Spectrum Archive makes tape look and work like any removable media, such as a USB drive. Files and directories appear on the desktop as a directory listing. It is now simple to drag files to and from tape. Any application that is written to use disk files works with the same files on tape. IBM Spectrum Archive SDE supports stand-alone drives only. IBM Spectrum Archive LE supports tape libraries. IBM Spectrum Archive LE presents each cartridge in the library as a subdirectory in the LTFS file system. With IBM Spectrum Archive LE, you can list the contents and search all of the volumes in the library without mounting the volumes by using an in-memory index. This publication is intended for anyone who wants to understand more about IBM Linear Tape System products and their implementation. This book is suitable for IBM clients, IBM Business Partners, IBM specialist sales representatives, and technical specialists.

IBM Redbooks

This IBM® Redbooks® publication discusses IBM System Storage Open Systems Tape Encryption solutions. It specifically describes Tivoli Key Lifecycle Manager (TKLM) Version 2, which is a Java software program that manages keys enterprise-wide and provides encryption-enabled tape drives with keys for encryption and decryption. The book explains various methods of managing IBM tape encryption. These methods differ in where the encryption policies reside, where key management is

performed, whether a key manager is required, and if required, how the tape drives communicate with it. The security and accessibility characteristics of encrypted data create considerations for clients which do not exist with storage devices that do not encrypt data. Encryption key material must be kept secure from disclosure or use by any agent that does not have authority to it; at the same time it must be accessible to any agent that has both the authority and need to use it at the time of need. This book is written for readers who need to understand and use the various methods of managing IBM tape encryption.

IBM System Storage Tape Library Guide for Open Systems IBM Redbooks

Abstract This IBM® Redbooks® publication presents a general introduction to the latest IBM tape and tape library technologies. Featured tape technologies include the IBM LTO Ultrium and Enterprise 3592 tape drives, and their implementation in IBM tape libraries. This 16th edition introduces the new TS1160 tape drive with up to 20 TB capacity on JE media and the latest updates to the IBM TS4500 and TS4300 tape libraries. It includes generalized sections about Small Computer System Interface (SCSI) and Fibre Channel connections, and multipath architecture configurations. This book also covers tools and techniques for library management. It is intended for anyone who wants to understand more about IBM tape products and their implementation. It is suitable for IBM clients, IBM Business Partners, IBM specialist sales representatives, and technical specialists. If you do not have a background in computer tape storage products, you might need to read other sources of information. In the interest of

being concise, topics that are generally understood are not covered in detail.

Guide to Sharing and Partitioning IBM Tape Library Data Vervante

This IBM® Redbooks® publication helps you with the planning, installation, and configuration of the new IBM Linear Tape File System™ (LTFS) Enterprise Edition (EE) V1.1.1.2 for the IBM TS3310, IBM TS3500, and IBM TS4500 tape libraries. LTFS EE enables the use of LTFS for the policy management of tape as a storage tier in an IBM General Parallel File System (IBM GPFS™) based environment and helps encourage the use of tape as a critical tier in the storage environment. LTFS EE can run any application that is designed for disk files on tape. LTFS EE supports IBM Linear Tape-Open (LTO) Ultrium 6 and 5 tape drives in IBM TS3310, TS3500, and TS4500 tape libraries. IBM TS1140 and IBM TS1150 tape drives are supported in TS3500 and TS4500 tape libraries. LTFS EE can play a major role in reducing the cost of storage for data that does not need the access performance of primary disk. The use of LTFS EE to replace disks with tape in Tier 2 and Tier 3 storage can improve data access over other storage solutions because it improves efficiency and streamlines management for files on tape. LTFS EE simplifies the use of tape by making it transparent to the user and manageable by the administrator under a single infrastructure. This publication is intended for anyone who wants to understand more about LTFS EE planning and implementation. This book is suitable for IBM clients, IBM Business Partners, IBM specialist sales representatives, and technical specialists.

[IBM TS4500 R8 Tape Library Guide](#) IBM Redbooks

Note: The IBM TS7700 Release 4.0

Guide, SG24-8366 is available at: <http://www.redbooks.ibm.com/abstracts/sg248366.html>

IBM® TS7700 is a family of mainframe virtual tape solutions that optimize data protection and business continuance for IBM z Systems™ data. Through the use of virtualization and disk cache, the TS7700 family operates at disk speeds while maintaining compatibility with existing tape operations. Its fully integrated tiered storage hierarchy takes advantage of both disk and tape technologies to deliver performance for active data and best economics for inactive and archive data. This IBM Redbooks® publication describes the TS7700 R3.3 architecture, planning, migration, implementation, and operations. The latest TS7700 family of z Systems tape virtualization is offered as two models: IBM TS7720 features encryption-capable high-capacity cache that uses 3 TB SAS disk drives with RAID 6, which can scale to large capacities with the highest level of data protection. IBM TS7740 features encryption-capable 600 GB SAS drives with RAID 6 protection. Both models write data by policy to physical tape through attachment to high-capacity, high-performance IBM TS1150 and earlier IBM 3592 model tape drives that are installed in IBM TS3500 tape libraries. Physical tape support is optional on TS7720. TS7700 R3.3 also supports external key management for disk-based encryption by using IBM Security Key Lifecycle Manager. This book intended for system architects who want to integrate their storage systems for smoother operation.

IBM TS4500 R6 TAPE LIBRARY GUIDE

IBM Redbooks

Abstract The IBM® TS4500 (TS4500)

tape library is a next-generation tape solution that offers higher storage density and integrated management than previous solutions. This IBM Redbooks® publication gives you a close-up view of the new IBM TS4500 tape library. In the TS4500, IBM delivers the density that today's and tomorrow's data growth requires. It has the cost-effectiveness and the manageability to grow with business data needs, while you preserve existing investments in IBM tape library products. Now, you can achieve both a low cost per terabyte (TB) and a high TB density per square foot because the TS4500 can store up to 11 petabytes (PB) of uncompressed data in a single frame library or scale up to 2 PB per square foot to over 350 PB. The TS4500 offers the following benefits:

High availability: Dual active accessors with integrated service bays reduce inactive service space by 40%. The Elastic Capacity option can be used to completely eliminate inactive service space. Flexibility to grow: The TS4500 library can grow from the right side and the left side of the first L frame because models can be placed in any active position. Increased capacity: The TS4500 can grow from a single L frame up to another 17 expansion frames with a capacity of over 23,000 cartridges. High-density (HD) generation 1 frames from the TS3500 library can be redeployed in a TS4500. Capacity on demand (CoD): CoD is supported through entry-level, intermediate, and base-capacity configurations. Advanced Library Management System (ALMS): ALMS supports dynamic storage management, which enables users to create and change logical libraries and configure any drive for any logical library. Support for IBM TS1160 while also supporting TS1155, TS1150, and TS1140 tape drive:

The TS1160 gives organizations an easy way to deliver fast access to data, improve security, and provide long-term retention, all at a lower cost than disk solutions. The TS1160 offers high-performance, flexible data storage with support for data encryption. Also, this enhanced fifth-generation drive can help protect investments in tape automation by offering compatibility with existing automation. The new TS1160 Tape Drive Model 60E delivers a dual 10 Gb or 25 Gb Ethernet host attachment interface that is optimized for cloud-based and hyperscale environments. The TS1160 Tape Drive Model 60F delivers a native data rate of 400 MBps, the same load/ready, locate speeds, and access times as the TS1155, and inc ...

IBM Tape Library Guide for Open Systems Vervante

The IBM® TS4500 (TS4500) tape library is a next-generation tape solution that offers higher storage density and better integrated management than previous solutions. This IBM Redbooks® publication gives you a close-up view of the new IBM TS4500 tape library. In the TS4500, IBM delivers the density that today's and tomorrow's data growth requires. It has the cost-effectiveness and the manageability to grow with business data needs, while you preserve investments in IBM tape library products. Now, you can achieve a low per-terabyte cost and high density, with up to 13 PB of data (up to 39 PB compressed) in a single 10 square-foot library by using LTO Ultrium 9 cartridges or 11 PB with 3592 cartridges. The TS4500 offers the following benefits: Support of the IBM Linear Tape-Open (LTO) Ultrium 9 tape drive: Store up to 1.04 EB 2.5:1 compressed per library with IBM LTO 9 cartridges. High availability: Dual active accessors with integrated service bays

reduce inactive service space by 40%. The Elastic Capacity option can be used to eliminate inactive service space.

Flexibility to grow: The TS4500 library can grow from the right side and the left side of the first L frame because models can be placed in any active position.

Increased capacity: The TS4500 can grow from a single L frame up to another 17 expansion frames with a capacity of over 23,000 cartridges.

High-density (HD) generation 1 frames from the TS3500 library can be redeployed in a TS4500.

Capacity on demand (CoD): CoD is supported through entry-level, intermediate, and base-capacity configurations.

Advanced Library Management System (ALMS): ALMS supports dynamic storage management, which enables users to create and change logical libraries and configure any drive for any logical library. Support for IBM TS1160 while also supporting TS1155, TS1150, and TS1140 tape drive. The TS1160 gives organizations an easy way to deliver fast access to data, improve security, and provide long-term retention, all at a lower cost than disk solutions. The TS1160 offers high-performance, flexible data storage with support for data encryption. Also, this enhanced fifth-generation drive can help protect investments in tape automation by offering compatibility with existing automation. Store up to 1.05 EB 3:1 compressed per library with IBM 3592 cartridges.

Integrated TS7700 back-end Fibre Channel (FC) switches are available. Up to four library-managed encryption (LME) key paths per logical library are available. This book describes the TS4500 components, feature codes, specifications, supported tape drives, encryption, new integrated management console (IMC), command-line interface (CLI), and REST over SCSI (RoS) to obtain

status information about library components. You learn how to accomplish the following tasks: Improve storage density with increased expansion frame capacity up to 2.4 times, and support 33% more tape drives per frame

IBM Storage Networking SAN24B-6 Switch IBM Redbooks

This IBM® Redbooks® product guide describes the IBM Storage Networking SAN24B-6 switch. Explosive data growth, coupled with user expectations of unlimited access from anywhere, at any time, is pushing storage environments to the limit. To meet these dynamic business demands, the network must evolve to improve speed, increase efficiency, and reduce costs. Legacy infrastructures were not designed to support the performance requirements of flash-based storage technology. A new approach to storage networking is required to unlock the full capabilities of all-flash arrays. By treating the network as a strategic part of a storage environment, organizations can maximize their productivity and efficiency, even as they rapidly grow their environments. The IBM Storage Networking SAN24B-6 switch provides exceptional value in an entry-level switch, combining high-performance capabilities of 4, 8, 16, and 32 Gbps, point-and-click simplicity, and enterprise-class functionality. The port speed capability is dependent on the transceiver installed. SAN24B-6 provides small to midsized data centers with low-cost access to industry-leading Gen 5 and Gen 6 Fibre Channel technology and the ability to start small and grow on demand from 8 to 24 ports to support an evolving storage environment. In addition, SAN24B-6 is easy to use and install, with a point-and-click user

interface that simplifies deployment and saves time.

IBM TS4500 R4 Tape Library Guide IBM Redbooks

This IBM® Redbooks® publication provides best practice guidance for planning, installing, configuring, and employing the IBM TS7600 ProtecTIER® family of products. It provides the latest best practices for the practical application of ProtecTIER Software Version 3.4. This latest release introduces the new ProtecTIER Enterprise Edition TS7650G DD6 model high performance server. This book also includes information about the revolutionary and patented IBM HyperFactor® deduplication engine, along with other data storage efficiency techniques, such as compression and defragmentation. The IBM System Storage® TS7650G ProtecTIER Deduplication Gateway and the IBM System Storage TS7620 ProtecTIER Deduplication Appliance Express are disk-based data storage systems: The Virtual Tape Library (VTL) interface is the foundation of ProtecTIER and emulates traditional automated tape libraries. For your existing ProtecTIER solution, this guide provides best practices and suggestions to boost the performance and the effectiveness of data deduplication with regards to your application platforms for your VTL and FSI (systems prior to version 3.4). When you build a ProtecTIER data deduplication environment, this guide can help IT architects and solution designers plan for the best option and scenario for data deduplication for their environments. This book can help you optimize your deduplication ratio, while reducing the hardware, power and cooling, and management costs. This Redbooks publication provides expertise

that was gained from an IBM ProtecTIER System Client Technical Specialist (CTS), Development, and Quality Assurance teams. This planning should be done by the Sales Representative or IBM Business Partner, with the help of an IBM System CTS or IBM Solution Architect.

READY-TO-USE VIRTUAL APPLIANCE FOR HANDS-ON IBM SPECTRUM ARCHIVE EVALUATION

IBM Redbooks

Abstract This IBM® Redbooks® publication presents a general introduction to the latest IBM tape and tape library technologies. Featured tape technologies include the IBM LTO Ultrium and Enterprise 3592 tape drives, and their implementation in IBM tape libraries. This 16th edition introduces the new TS1160 tape drive with up to 20 TB capacity on JE media and the latest updates to the IBM TS4500 and TS4300 tape libraries. It includes generalized sections about Small Computer System Interface (SCSI) and Fibre Channel connections, and multipath architecture configurations. This book also covers tools and techniques for library management. It is intended for anyone who wants to understand more about IBM tape products and their implementation. It is suitable for IBM clients, IBM Business Partners, IBM specialist sales representatives, and technical specialists. If you do not have a background in computer tape storage products, you might need to read other sources of information. In the interest of being concise, topics that are generally understood are not covered in detail.

IBM Cloud Object Storage System Product Guide Vervante

Today, new business models in the marketplace coexist with traditional ones

and their well-established IT architectures. They generate new business needs and new IT requirements that can only be satisfied by new service models and new technological approaches. These changes are reshaping traditional IT concepts. Cloud in its three main variants (Public, Hybrid, and Private) represents the major and most viable answer to those IT requirements, and software-defined infrastructure (SDI) is its major technological enabler. IBM® technology, with its rich and complete set of storage hardware and software products, supports SDI both in an open standard framework and in other vendors' environments. IBM services are able to deliver solutions to the customers with their extensive knowledge of the topic and the experiences gained in partnership with clients. This IBM Redpaper™ publication focuses on software-defined storage (SDS) and IBM Storage Systems product offerings for software-defined environments (SDEs). It also provides use case examples across various industries that cover different client needs, proposed solutions, and results. This paper can help you to understand current organizational capabilities and challenges, and to identify specific business objectives to be achieved by implementing an SDS solution in your enterprise.

**IBM Linear Tape File System
Enterprise Edition V1.1.1.2:
Installation and Configuration Guide**
IBM Redbooks

The superabundance of data that is created by today's businesses is making storage a strategic investment priority for companies of all sizes. As storage takes precedence, the following major initiatives emerge: Flatten and converge your network: IBM® takes an open,

standards-based approach to implement the latest advances in the flat, converged data center network designs of today. IBM Storage solutions enable clients to deploy a high-speed, low-latency Unified Fabric Architecture. Optimize and automate virtualization: Advanced virtualization awareness reduces the cost and complexity of deploying physical and virtual data center infrastructure. Simplify management: IBM data center networks are easy to deploy, maintain, scale, and virtualize, delivering the foundation of consolidated operations for dynamic infrastructure management. Storage is no longer an afterthought. Too much is at stake. Companies are searching for more ways to efficiently manage expanding volumes of data, and to make that data accessible throughout the enterprise. This demand is propelling the move of storage into the network. Also, the increasing complexity of managing large numbers of storage devices and vast amounts of data is driving greater business value into software and services. With current estimates of the amount of data to be managed and made available increasing at 60% each year, this outlook is where a storage area network (SAN) enters the arena. SANs are the leading storage infrastructure for the global economy of today. SANs offer simplified storage management, scalability, flexibility, and availability; and improved data access, movement, and backup. Welcome to the cognitive era. The smarter data center with the improved economics of IT can be achieved by connecting servers and storage with a high-speed and intelligent network fabric. A smarter data center that hosts IBM Storage solutions can provide an environment that is smarter, faster, greener, open, and easy to

manage. This IBM® Redbooks® publication provides an introduction to SAN and Ethernet networking, and how these networks help to achieve a smarter data center. This book is intended for people who are not very familiar with IT, or who are just starting out in the IT world.

IBM TS7700 Release 3.3 Vervante IBM Tape Library Guide for Open Systems

IBM DS8900F Performance Best Practices and Monitoring IBM

This IBM® Redbooks® publication is intended for individuals who want to maximize the performance of their DS8900 storage systems and investigate the planning and monitoring tools that are available.

IBM Ts4500 R2 Tape Library Guide IBM Redbooks

Abstract This IBM® Redbooks® publication presents a general introduction to the latest IBM tape and tape library technologies. Featured tape technologies include the IBM LTO Ultrium and Enterprise 3592 tape drives, and their implementation in IBM tape libraries. This 16th edition introduces the new TS1160 tape drive with up to 20 TB capacity on JE media and the latest updates to the IBM TS4500 and TS4300 tape libraries. It includes generalized sections about Small Computer System Interface (SCSI) and Fibre Channel connections, and multipath architecture configurations. This book also covers tools and techniques for library management. It is intended for anyone who wants to understand more about IBM tape products and their implementation. It is suitable for IBM clients, IBM Business Partners, IBM specialist sales representatives, and technical specialists. If you do not have a background in computer tape storage

products, you might need to read other sources of information. In the interest of being concise, topics that are generally understood are not covered in detail.

IBM TS4500 R5 Tape Library Guide Vervante

IBM® Spectrum Archive Enterprise Edition for the IBM TS4500, IBM TS3500, IBM TS4300, and IBM TS3310 tape libraries provides seamless integration of IBM Linear Tape File System (LTFS) with IBM Spectrum® Scale by creating an LTFS tape tier. You can run any application that is designed for disk files on tape by using IBM Spectrum Archive. IBM Spectrum Archive can play an important role in reducing the cost of storage for data that does not need the access performance of primary disk. The IBM Spectrum Archive Virtual Appliance can be deployed in minutes and key features can be tried along with this user guide. The virtual machine (VM) has a pre-configured IBM Spectrum Scale and a virtual tape library that allows to quickly test the IBM Spectrum Archive features without connecting to a physical tape library. The virtual appliance is provided as a VirtualBox .ova file.

IBM Spectrum Archive Single Drive Edition and Library Edition IBM Redbooks

Object storage is the primary storage solution that is used in the cloud and on-premises solutions as a central storage platform for unstructured data. IBM® Cloud Object Storage (COS) is a software-defined storage platform that breaks down barriers for storing massive amounts of data by optimizing the placement of data on commodity x86 servers across the enterprise. This IBM Redbooks® publication describes the major features, use case scenarios, deployment options, configuration details, initial customization, performance, and scalability

considerations of IBM Cloud® Object Storage on-premises offering. For more information about the IBM Cloud Object Storage architecture and technology that is behind the product, see IBM Cloud Object Storage Concepts and Architecture: System Edition, REDP-5537-02. The target audience for this publication is IBM Cloud Object Storage IT specialists and storage administrators.

Planning, Implementing, and Monitoring

IBM.Com/Redbooks
This IBM® Redbooks® publication covers IBM TS7700 R4.2. The IBM TS7700 is part of a family of IBM Enterprise tape products. This book is intended for system architects and storage administrators who want to integrate their storage systems for optimal operation. Building on over 20 years of virtual tape experience, the TS7760 now supports the ability to store virtual tape volumes in an object store. The TS7700 has supported off loading to physical tape for over two decades. Off loading to physical tape behind a TS7700 is utilized by hundreds of organizations around the world. Using the same hierarchical storage techniques, the TS7700 can also off load to object storage. Given object storage is cloud based and accessible from different regions, the TS7760 Cloud Storage Tier support essentially allows the cloud to be an extension of the grid. As of the release of this document, the TS7760C supports the ability to off load to IBM Cloud Object Storage as well as Amazon S3. To learn about the TS7760 cloud storage tier function, planning, implementation, best practices, and support see IBM Redpaper IBM TS7760 R4.2 Cloud Storage Tier Guide, redp-5514 at: <http://www.redbooks.ibm.com/abstracts/>

redp5514.html The IBM TS7700 offers a modular, scalable, and high-performance architecture for mainframe tape virtualization for the IBM Z® environment. It is a fully integrated, tiered storage hierarchy of disk and tape. This storage hierarchy is managed by robust storage management microcode with extensive self-management capability. It includes the following advanced functions: Improved reliability and resiliency Reduction in the time that is needed for the backup and restore process Reduction of services downtime that is caused by physical tape drive and library outages Reduction in cost, time, and complexity by moving primary workloads to virtual tape More efficient procedures for managing daily backup and restore processing Infrastructure simplification through reduction of the number of physical tape libraries, drives, and media TS7700 delivers the following new capabilities: TS7760C supports the ability to off load to IBM Cloud Object Storage as well as Amazon S3 8-way Grid Cloud consisting of any generation of TS7700 Synchronous and asynchronous replication Tight integration with IBM Z and DFSMS policy management Optional Transparent Cloud Tiering Optional integration with physical tape Cumulative 16Gb FICON throughput up to 4.8GB/s 8 IBM Z hosts view up to 496 8 equivalent devices Grid access to all data independent of where it exists The TS7760T writes data by policy to physical tape through attachment to high-capacity, high-performance IBM TS1150 and IBM TS1140 tape drives installed in an IBM TS4500 or TS3500 tape library. The TS7760 models are based on high-performance and redundant IBM POWER8® technology. They provide improved performance for

most IBM Z tape workloads when compared to the previous generations of IBM TS7700.

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