



# IBM TotalStorage Tape Selection and Differentiation Guide

Understand your tape and backup  
requirements

See which tape product meets  
your business needs

Define your tape strategy



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# Ibm 3592 User Manual

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## **Ibm 3592 User Manual:**

ISV IBM zPDT Guide and Reference Bill Ogden, IBM Redbooks, 2022-12-13 This IBM Redbooks publication provides both introductory information and technical details for ISV IBM Z Program Development Tool IBM zPDT which produces a small IBM zSystems environment that is suitable for application development ISV zPDT is a personal computer PC Linux application When ISV zPDT is installed on Linux normal IBM zSystems operating systems such as IBM z OS may be run on it ISV zPDT provides the basic IBM zSystems architecture and provides emulated IBM 3390 disk drives 3270 interfaces Open Systems Adapter OSA interfaces and other items The systems that are described in this publication are complex with elements of Linux for the underlying PC machine IBM z Architecture for the core zPDT elements IBM zSystems I O functions for emulated I O devices z OS the most common IBM zSystems operating system and various applications and subsystems under z OS We assume that the reader is familiar with general concepts and terminology of IBM zSystems hardware and software elements and with basic PC Linux characteristics This publication provides the primary documentation for ISV zPDT and corresponds to zPDT V1 R11 commonly known as GA11

**IBM Virtualization Engine TS7700 with R 2.0** Karan Singh, Søren Aakjær, John Khazraee, Tom Koudstaal, Aderson J.C. Pacini, Patrick Wolf, IBM Redbooks, 2012-02-20 This IBM Redbooks publication highlights TS7700 Virtualization Engine Release 2.0 It is intended for system architects who want to integrate their storage systems for smoother operation The IBM Virtualization Engine TS7700 offers a modular scalable and high performing architecture for mainframe tape virtualization for the IBM System z environment It integrates 3592 Tape Drives high performance disks and the new IBM System p server into a storage hierarchy This storage hierarchy is managed by robust storage management firmware with extensive self management capability It includes the following advanced functions Policy management to control physical volume pooling Cache management Dual copy including across a grid network Copy mode control The TS7700 Virtualization Engine offers enhanced statistical reporting It also includes a standards based management interface for TS7700 Virtualization Engine management The new IBM Virtualization Engine TS7700 Release 2.0 introduces the next generation of TS7700 Virtualization Engine servers for System z tape IBM Virtualization Engine TS7720 Server Model VEB IBM Virtualization Engine TS7740 Server Model V07 These Virtualization Engines are based on IBM POWER7 technology They offer improved performance for most System z tape workloads compared to the first generation of TS7700 Virtualization Engine servers

**IBM System Storage Solutions Handbook** Ezgi Coskun, Mikael Lindström, Maciej Olejniczak, Oliver Stark, Megan Gilge, IBM Redbooks, 2016-07-15 The IBM System Storage Solutions Handbook helps you solve your current and future data storage business requirements It helps you achieve enhanced storage efficiency by design to allow managed cost capacity of growth greater mobility and stronger control over storage performance and management It describes the most current IBM storage products including the IBM Spectrum™ family IBM FlashSystem disk and tape as well as virtualized solutions such IBM Storage Cloud This IBM Redbooks

publication provides overviews and information about the most current IBM System Storage products. It shows how IBM delivers the right mix of products for nearly every aspect of business continuance and business efficiency. IBM storage products can help you store, safeguard, retrieve, and share your data. This book is intended as a reference for basic and comprehensive information about the IBM Storage products portfolio. It provides a starting point for establishing your own enterprise storage environment. This book describes the IBM Storage products as of March 2016. **IBM TS7700 Release**

**5.2.2 Guide** Larry Coyne, Yuki Asakura, Ole Asmussen, Nielson 'Nino' de Carvalho, Derek Erdmann, Monica Falcone, Rin Fujiwara, Nobuhiko Furuya, Lourie Goodall, Joe Hew, Kousei Kawamura, Tony Makepeace, Erich Moraga, Stefan Neff, Tomoaki Ogino, Alberto Barajas Ortiz, Aderson Pacini, Trinidad Armando Rangel Ruiz, Michael Scott, Joe Swingler, Taisei Takai, Nao Takemura, Takahiro Tsuda, Chen Zhu, IBM Redbooks, 2022-07-07. This IBM Redbooks publication covers IBM TS7700 R5.2. 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 25 years of experience, the R5.2 release includes many features that enable improved performance, usability, and security. Highlights include IBM TS7700 Advanced Object Store, an all-flash TS7770 grid resiliency enhancements, and Logical WORM retention. By using the same hierarchical storage techniques, the TS7700, TS7770, and TS7760 can also offload to object storage. Because object storage is cloud-based and accessible from different regions, the TS7700 Cloud Storage Tier support essentially allows the cloud to be an extension of the grid. As of this writing, the TS7700C supports the ability to offload to IBM Cloud Object Storage, Amazon S3, and RSTOR. This publication explains features and concepts that are specific to the IBM TS7700 as of release R5.2. The R5.2 microcode level provides IBM TS7700 Cloud Storage Tier enhancements, IBM DS8000 Object Storage enhancements, Management Interface dual control security, and other smaller enhancements. The R5.2 microcode level can be installed on the IBM TS7770 and IBM TS7760 models only. Note: The latest Release 5.2 was split into two phases: R5.2 Phase 1, also referred to as R5.2 Phase 2, and R TS7700. R TS7700 provides tape virtualization for the IBM z environment. Offloading to physical tape behind a TS7700 is used by hundreds of organizations around the world. Tape virtualization can help satisfy the following requirements in a data processing environment. New and existing capabilities of the TS7700 5.2.2 release include the following highlights: Eight-way Grid Cloud, which consists of up to three generations of TS7700 Synchronous and asynchronous replication of virtual tape and TCT objects; Grid access to all logical volume and object data that is independent of where it exists; An all-flash TS7770 option for improved performance; Full Advanced Object Store; Grid Cloud support of DS8000 Transparent Cloud Tier; Full AES256 encryption for data that is in flight and at rest; Tight integration with IBM Z and DFSMS policy management; DS8000 Object Store AES256 in-flight encryption and compression; Regulatory compliance through Logical WORM and LWORM Retention support; Cloud Storage Tier support for archive logical volume version and disaster recovery; Optional integration with physical tape; 16 Gb IBM FICON throughput that exceeds 5 GBps per TS7700.

cluster Grid Resiliency Support with Control Unit Initiated Reconfiguration CUIR support IBM Z hosts view up to 3 968 common devices per TS7700 grid TS7770 Cache On demand feature that is based capacity licensing TS7770 support of SSD within the VED server The TS7700T writes data by policy to physical tape through attachment to high capacity high performance IBM TS1160 IBM TS1150 and IBM TS1140 tape drives that are installed in an IBM TS4500 or TS3500 tape library The TS7770 models are based on high performance and redundant IBM POWER9™ technology They provide improved performance for most IBM Z tape workloads when compared to the previous generations of IBM TS7700

**IBM TS7700 Release 4.2 Guide** Larry Coyne,Derek Erdmann,Joe Hew,Sosuke Matsui,Alberto Barajas Ortiz,Aderson Pacini,Michael Scott,Chen Zhu,IBM Redbooks,2019-04-19 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

*IBM TS4500 R8 Tape Library Guide* Ole Asmussen,Robert Beiderbeck,Albrecht Friess,Hans-Günther Hörhammer,Khanh Ngo,Jesus Eduardo Cervantes Rolon,Fabian Corona Villarreal,Larry Coyne,IBM Redbooks,2022-03-21 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 TS7700 Release 3.3** Larry Coyne,Robert Beiderbeck,Katja Deneffle,Joe Hew,Sosuke Matsui,Aderson Pacini,Markus Schäfer,Michael Scott,Chen Zhu,IBM Redbooks,2017-04-11 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 is intended for system architects who want to integrate their storage systems for smoother operation. **IBM System Storage Business Continuity: Part 1 Planning Guide** Charlotte Brooks, Clem Leung, Aslam Mirza, Curtis Neal, Yin Lei Qiu, John Sing, Francis TH Wong, Ian R Wright, IBM Redbooks, 2007-03-07. A disruption to your critical business processes could leave the entire business exposed. Today's organizations face ever escalating customer demands and expectations. There is no room for downtime. You need to provide your customers with continuous service because your customers have a lot of choices. Your competitors are standing ready to take your place. As you work hard to grow your business, you face the challenge of keeping your business running without a glitch. To remain competitive, you need a resilient IT infrastructure. This IBM Redbooks publication introduces the importance of Business Continuity in today's IT environments. It provides a comprehensive guide to planning for IT Business Continuity and can help you design and select an IT Business Continuity solution that is right for your business environment. We discuss the concepts, procedures, and solution selection for Business Continuity in detail, including the essential set of IT Business Continuity requirements that you need to identify a solution. We also present a rigorous Business Continuity Solution Selection Methodology that includes a sample Business Continuity workshop with step-by-step instructions in defining requirements. This book is meant as a central resource book for IT Business Continuity planning and design. The companion title to this book, *IBM System Storage Business Continuity Part 2 Solutions Guide SG24 6548*, describes detailed product solutions in the System Storage Resiliency Portfolio. *IBM System Storage DS8000: Host Attachment and Interoperability* Axel Westphal, Bertrand Dufrasne, Juan Brandenburg, Jana Jamsek, Kai Jehnen, Steven Joseph, Massimo Olivieri, Ulrich Rendels, Mario Rodriguez, IBM Redbooks, 2013-02-14. This IBM Redbooks publication addresses host attachment and interoperability considerations for the IBM System Storage DS8000 series. Within this book, you can find information about the most popular host operating systems platforms including Windows, IBM AIX,

VIOS Linux Solaris HP UX VMware Apple and IBM z OS The topics covered in this book target administrators or other technical personnel with a working knowledge of storage systems and a general understanding of open systems You can use this book as guidance when installing attaching and configuring System Storage DS8000 The practical usage oriented guidance provided in this book complements the IBM System Storage DS8000 Host Systems Attachment Guide SC26 7917

IBM Information Infrastructure Solutions Handbook Sangam Racherla,Vikas Bajaj,Emile Knebel,Glenn Korn,Anna Kutepova,Gary Newell,Sebastian Szumczyk,IBM Redbooks,2010-07-11 An information infrastructure is comprised of software servers storage and networks integrated and optimized to deliver timely secure and trusted information throughout the organization and to its clients and partners With the explosive growth in data and information coupled with demands for projects with rapid ROI IT infrastructures and storage administrators are reaching a breaking point IBM can help with the changes needed to manage information availability security and regulatory and compliance requirements on a tighter budget And because the health of any business often depends on its ability to take advantage of information in real time a sound intelligent information infrastructure becomes critical to supporting new growth initiatives IBM offers an innovative approach to help you manage information growth more effectively and mitigate risks with a dynamic infrastructure that efficiently and securely stores and protects information and optimizes information access You can control protect manage and gain new intelligence from your information with the IBM leading edge Information Infrastructure products services and integrated solutions supported by world class expertise and access to top experts from around the world This IBM Redbooks publication provides an overview of the IBM Information Infrastructure solutions that are designed to help you manage the information explosion and address challenges of information compliance availability retention and security This will lead your company toward improved productivity service delivery and reduced risk while streamlining costs **IBM Spectrum**

**Archive Enterprise Edition V1.2.6 Installation and Configuration Guide** Larry Coyne,Khanh Ngo,Illarion Borisevich,Markus Schäfer,IBM Redbooks,2019-04-19 Note This is a republication of IBM Spectrum Archive Enterprise Edition V1 2 6 Installation and Configuration Guide with new book number SG24 8445 to keep the content available on the Internet along with the recent publication IBM Spectrum Archive Enterprise Edition V1 3 0 Installation and Configuration Guide SG24 8333 This IBM Redbooks publication helps you with the planning installation and configuration of the new IBM Spectrum™ Archive V1 2 6 for the IBM TS3310 IBM TS3500 IBM TS4300 and IBM TS4500 tape libraries IBM Spectrum Archive™ EE enables the use of the LTFS for the policy management of tape as a storage tier in an IBM Spectrum Scale™ based environment It helps encourage the use of tape as a critical tier in the storage environment This is the sixth edition of IBM Spectrum Archive Installation and Configuration Guide IBM Spectrum Archive EE can run any application that is designed for disk files on a physical tape media IBM Spectrum Archive EE supports the IBM Linear Tape Open LTO Ultrium 8 7 6 and 5 tape drives in IBM TS3310 TS3500 TS4300 and TS4500 tape libraries In addition IBM TS1155 TS1150 and TS1140



tape drives are supported in TS3500 and TS4500 tape library configurations IBM Spectrum Archive 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 IBM Spectrum Archive EE to replace disks with physical 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 IBM Spectrum Archive 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 IBM Spectrum Archive EE planning and implementation This book is suitable for IBM clients IBM Business Partners IBM specialist sales representatives and technical specialists

**PACS and Digital Medicine** Yu Liu, Jihong Wang, 2010-11-05 To improve efficiency and reduce administrative costs healthcare providers insurance companies and governments are increasingly using integrated electronic health record EHR and picture archiving and communication systems PACS to manage patients medical information

Reflecting the latest applications of PACS technology PACS and Digital Med **Medium-Range Weather Prediction** Austin Woods, 2005-12-29 This book provides an overview of the early years of the European Centre for Medium Range Weather Forecasts and reviews the work of the institute over the past 30 years describing along the way the European approach to medium range weather forecasting Its combination of historical view and scientific insight is unique

**Computerworld** , 2004-05-17 For more than 40 years Computerworld has been the leading source of technology news and information for IT influencers worldwide Computerworld s award winning Web site Computerworld com twice monthly publication focused conference series and custom research form the hub of the world s largest global IT media network

Introduction to Storage Area Networks and System Networking Mr. Rohit Manglik, 2024-07-25 EduGorilla Publication is a trusted name in the education sector committed to empowering learners with high quality study materials and resources Specializing in competitive exams and academic support EduGorilla provides comprehensive and well structured content tailored to meet the needs of students across various streams and levels

**PC Mag** , 1982-11 PCMag com is a leading authority on technology delivering Labs based independent reviews of the latest products and services Our expert industry analysis and practical solutions help you make better buying decisions and get more from technology Engineering

News-record , 1986 Understanding Cybersecurity Technologies Abbas Moallem, 2021-12-14 Cyberattacks on enterprises government institutions and individuals are exponentially growing At the same time the number of companies both small and large offering all types of solutions has been increasing too Since companies rely on technological solutions to protect themselves against cyberattacks understanding and selecting the right solutions among those offered presents a significant challenge for professionals company executives and newcomers to the cybersecurity field FEATURES Presents descriptions for each type of cybersecurity technology and their specifications Explains applications usages and offers case studies to enhance comprehension Offers an easy to understand classification of existing cybersecurity technologies Provides an

understanding of the technologies without getting lost in technical details Focuses on existing technologies used in different solutions without focusing on the companies that offer these technologies This book is intended to help all professionals new to cybersecurity students and experts to learn or educate their audiences on the foundations of the available solutions *PC Mag* ,1984-02-07 PCMag com is a leading authority on technology delivering Labs based independent reviews of the latest products and services Our expert industry analysis and practical solutions help you make better buying decisions and get more from technology **Nuclear Science Abstracts** ,1964

## Reviewing **Ibm 3592 User Manual**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is really astonishing. Within the pages of "**Ibm 3592 User Manual**," an enthralling opus penned by a very acclaimed wordsmith, readers embark on an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve in to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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