

Entry-level LTO Ultrium tape library designed to provide reliable, high-capacity, high-performance tape backup

IBM

IBM System Storage TS3200 Tape Library Express Model



Highlights

- Designed to support up to two IBM LTO Ultrium Full Height Tape Drives or up to four IBM LTO Ultrium Half Height Tape Drives, to help increase capacity and performance
- Designed to support cost-effective backup, save and restore and archival storage in sequential or random access mode with a standard bar code reader
- IBM Ultrium 4 technology is designed to support encryption of data with 3 Gbps SAS and continues to support write-once, read-many (WORM) operations
- Designed to offer outstanding capacity, performance and reliability for midrange and network tape-storage environments in a 4U form factor with 40 data cartridge slots and a mail slot
- Remote library management through a standard Web interface supports flexibility and greater administrative control of storage operations

The IBM System Storage™ TS3200 Tape Library Express Model and its storage management applications are designed to address capacity, performance, data protection, reliability, availability, affordability and application requirements. It is designed as a functionally rich, entry tape-storage solution incorporating LTO Ultrium tape technology. The IBM TS3200 Express model is an excellent solution for large-capacity or high-performance tape backup with or without random access. The TS3200 is also an excellent choice for tape automation for IBM Power Systems™, IBM System x® and other open systems.

The IBM TS3200 Tape Library Express is well-suited for handling backup, save and restore and archival data-storage needs for small to medium-size environments. With the use of up to

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A red circular graphic with a gradient, appearing as a partial circle or a thick arc, located to the right of the IBM Corporation text.

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IBM i 7.2 Technical Overview with Technology Refresh Updates Ryan Cooper,Dwight Harrison,Takahiro Ichikawa,Siripong Prukpaiboon,Edward Handy Satio,Jiri Sochr,Tom Vernailen,IBM Redbooks,2016-11-02 This IBM Redbooks publication provides a technical overview of the features functions and enhancements that are available in IBM i 7.2 including all the available Technology Refresh TR levels from TR1 to TR3 This publication provides a summary and brief explanation of the many capabilities and functions in the operating system It also describes many of the licensed programs and application development tools that are associated with IBM i The information that is provided in this book is useful for clients IBM Business Partners and IBM service professionals that are involved with planning supporting upgrading and implementing IBM i 7.2 solutions *Implementing the IBM General Parallel File System (GPFS) in a Cross Platform Environment* Dino Quintero,Matteo Barzaghi,Randy Brewster,Wan Hee Kim,Steve Normann,Paulo Queiroz,Robert Simon,Andrei Vlad,IBM Redbooks,2011-06-30 This IBM Redbooks publication provides a documented deployment model for IBM GPFS in a cross platform environment with IBM Power Systems™ Linux and Windows servers With IBM GPFS customers can have a planned foundation for file systems management for cross platform access solutions This book examines the functional integration simplification and usability changes with GPFS v3.4 It can help the technical teams provide file system management solutions and technical support with GPFS based on Power Systems virtualized environments for cross platform file systems management The book provides answers to your complex file systems management requirements helps you maximize file system availability and provides expert level documentation to transfer the how to skills to the worldwide support teams The audience for this book is the technical professional IT consultants technical support staff IT architects and IT specialists who is responsible for providing file system management solutions and support for cross platform environments that are based primarily on Power Systems Microtimes ,1996

Operator/reference Manual for the IBM 3800 Tape-to-printing Subsystem Feature International Business Machines Corporation,1980 **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

TSS Programmer's Manual International Business Machines Corporation,1970 **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 off load 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 off load 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 and R5 2 Phase 2 and R TS7700 provides tape virtualization for the IBM z environment Off loading 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 includes 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

SP/286 IBM., IBM 3741 Data Station Reference Manual ,1976 *Reference Manual for IBM 3330 Series Disk Storage* International Business Machines Corporation,1981 *IBM 3270 Information Display System Installation Manual* International Business Machines Corporation,1979 **Reference Manual for IBM 3350 Direct Access Storage** International Business Machines Corporation,1982 *Reference Manual for IBM 3830 Storage Control Model 1 and IBM 3330 Disk Storage* International Business Machines Corporation,1976 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 3683/3684 Terminal Setup Instructions International Business Machines Corporation,1980 **General Information Manual 1410 Data Processing System, IBM 1301 Disk Storage** ,1961

IBM 4300 Processors: Installation Manual--physical Planning International Business Machines Corporation,1983

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