

ZELA

Tape Storage Solutions



ZELA

ZELA provides storage management professionals with a robust solution that will lead you into the 21st century. Many confuse ZELA with “just another tape stacker.” Quite the opposite, ZELA actually addresses the ever growing needs of enterprise data centers trying to keep up with production processing, new technology, and meeting its commitments established with management and their customers.

Storage management groups are faced with overcoming many of the following challenges:

VIRTUAL TAPE SOLUTIONS

- Decide which datasets should be migrated into the Virtual Tape Solution
- How to migrate datasets INTO the Virtual Tape Solution
- How to migrate datasets OUT of the Virtual Tape Solution

AUTOMATED TAPE LIBRARY SYSTEMS

- Scratch volumes not available for Production Processing
- Running out of tape slots within the Robotics Facilities
- Overwhelmed by manual intensive labor performing physical ejections
- The TMS Catalog, MVS catalog and Robotics control datasets getting out of sync
- Constantly allocating funding for additional Media and Robotics
- Cost of new construction of tape library, raised floor, tape racks, media, etc.
- How to forecast hardware and media needs

MANUAL TAPE LIBRARIES

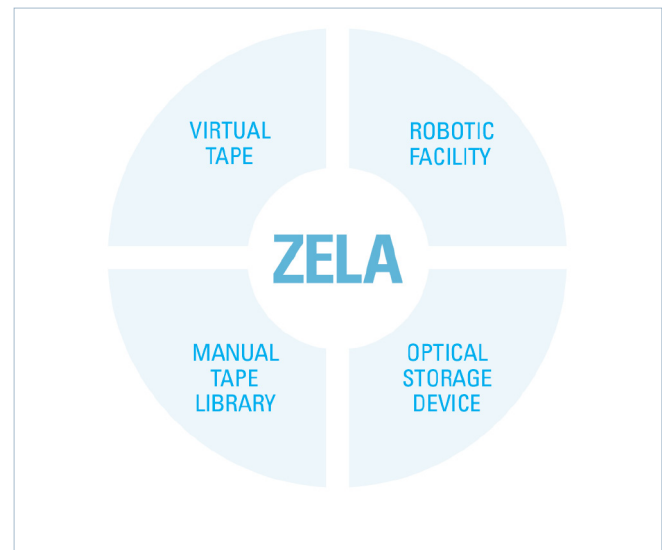
- Running out of media, scratch volumes and tape devices
- Complications managing Catalog, Cycle, Usage or USER controlled datasets
- Human resources and project costs to move or make copies of production application files or disaster recovery have risen to all time highs
- Under-staffed and overworked Operational Teams
- Consolidation of data centers and media resources

MEDIA CONVERSIONS

- Wondering what to do with existing datasets on old technology
- Trying to understand what to apply to recently acquired 36 Trk, Helical Tapes, Virtual Tape Systems, or Optical Storage devices and trying to figure out how not to waste 90% of each volume

INDEPENDENTLY MANAGE TAPE MEDIA RESOURCES

ZELA will independently manage your Manual Tape Library, Optical Storage Devices and your Virtual Tape Solution, thereby providing Total Tape Media Management for the entire enterprise with a Single Solution.



INTELLIGENT DATA STACKING

ZELA maximizes tape utilization by consolidating datasets to fewer tapes through conflict-free intelligent stacking, compression, reblocking and media conversion. This benefits installations by reclaiming underutilized resources.

AUTOMATED SCRATCH POOL MANAGEMENT

ZELA monitors tape media environments, such as manual libraries or Robotic Libraries to ensure that an adequate percentage of scratches is consistently available in order to avoid any work stoppage during production processing.

LOGICAL EJECTION

Logical Ejection is an action accomplished via high-speed copy of the subject dataset(s) from the media within the Automated Library to an output destination device of choice such as External Tape Cartridges, Tape Reels, DASD and DASD Arrays, Optical Storage Devices, Remote Electronic Tape Vaults, other Robotic Facilities or back into the original facility for reconsolidation.

ZELASAFE DATASET PROTECTION

ZELASAFE Dataset Security and Protection Provides Dataset and Volume Level Security and protection for production application files being archived for Disaster Recovery and providing enhanced dataset stacking protection for Catalog Controlled, Cycle Controlled, Usage Controlled, User Controlled and more!

ROBOTIC LIBRARY SUPPORT

ZELA operates as a monitoring system to manage Robotic Library Facilities ensuring maximum utilization of this technology. ZELA's advanced dataset consolidation process benefits Robotic Libraries by reclaiming space on cartridges and increasing the availability of robotic slots. Zela has saved data centers thousands of dollars reclaiming underutilized resources. ZELA supports multi-vendor architectures such as IBM, STK, HDS, Sutmyn, and Grau (Emass).

DATASET SELECTION CRITERIA

ZELA allows users to select datasets based on name, size, idleness, volume range, application, SMS management class, accounting information, expiration date, creating job name, and more.

DATASET SELECTION CRITERIA

Once ZELA has completed the process of migrating datasets to other tape media it will run the last step which is the update job. This puts back the original job creation information and updates the tape management system database and the MVS catalog.

EXPLOIT VIRTUAL TAPE TECHNOLOGY

ZELA is an ideal tool to utilize with Virtual Tape Solutions such as the IBM Virtual Tape Server, or other similar systems. ZELA relocates desired existing datasets into the Virtual Tape Solution and frees the older tape technology for reuse in production or removal from service.

MONITOR VIRTUAL TAPE SOLUTIONS

Once the Virtual Tape Solution is fully operational, there are a variety of functions that ZELA performs to enhance its capability:

- Automated dataset migration into Virtual Tape Environments
- Unstacking of previously stacked datasets
- Application Dataset Pre-staging within Virtual Tape Environments
- Application Dataset De-staging within Virtual Tape Environments
- Off load idle or unwanted datasets and stack them onto external media of choice.

OPTICAL STORAGE DEVICES SUPPORT

ZELA can migrate data into and out of Optical Storage Devices by writing them onto High Capacity Tape Cartridges, Automated Tape Robotics, Virtual Tape Solutions, and/or StorageTek's 9840 VOLSAFE Tapes.

RESEARCH AND ANALYSIS REPORTING

The ZELA Research and Analysis reporting system is a comprehensive report on the overall benefits and savings that would otherwise require months of expensive research and time by your professional staff. All information is gathered from the MVS Catalog, TMS Catalog, and Robotic Control Datasets. Dataset conflicts are resolved via analysis of your data center's SMF historical data.

DISASTER RECOVERY SUPPORT

Disaster recovery support with dual copy of datasets, dataset packaging for streamline recovery, and automated recovery of critical production datasets within the Virtual Tape Environment, Robotic Facility, Manual Tape Libraries, etc. ZELA also includes support for DFDSS and FDR proprietary formats.

FOR VIRTUAL TAPE SOLUTIONS

ZELA is the ideal tape media management product to have up and running before the arrival of the Virtual Tape Solution. Your tape storage team will be able to use ZELA during every phase of the Virtual Tape Solution project and fully exploit this new technology. Once implemented in your data center, ZELA will independently manage your Manual Tape Library Robotic Facility and the Virtual Tape Solution, thereby providing Total Tape Media Management for the entire enterprise with a single solution.

Although the Virtual Tape system will ultimately automate and improve several aspects of managing tape datasets for production processing, the phases for Virtual Tape planning and pre-and-post implementation require a great deal of research and manual intervention if the proper tools are not in place.

ZELA facilitates many of the tasks involved with all phases of Virtual Tape Solution implementation, and can be used as a valuable tool offering the following features and benefits:

VIRTUAL TAPE SOLUTION PLANNING/SIMULATION

Tape storage team can set the stage for the arrival of the Virtual Tape Solution by using ZELA's Research and Analysis Reporting process to model and simulate the Virtual Tape Environment before the hardware arrives. During the modeling and simulation process ZELA will identify and select datasets that are candidates for migration into the Virtual Tape environment. The result of this analysis will provide information for a clear assessment of the Virtual Tape Storage capacity required at your installation in order to accomplish your goals.

POPULATING A NEWLY INSTALLED VIRTUAL TAPE SOLUTION

ZELA complements Virtual Tape Solutions by relocating selected datasets into the Virtual Tape Solution and frees the older tape technology for reuse in production or removal from service. ZELA

allows users to selectively decide which datasets or applications will populate the Virtual Tape Solution based on naming conventions, volume ranges, size limitations, application, SMS management class, accounting information, expiration date, and creating job name. Most importantly, ZELA allows users to unstack previously stacked datasets for transition to Virtual Tape Solutions.

APPLICATION DATASET PRE-STAGING

With ZELA, users can pre-stage datasets from the physical tape to the DASD buffer so that applications can immediately begin processing when executed.

APPLICATION DATASET DE-STAGING

ZELA can monitor the Virtual Storage Manager environment and identify user defined datasets that are located in the DASD buffer and migrate them to the physical tape in Virtual Storage Manager freeing the DASD buffer for other production datasets.

MANAGING AN ACTIVE PRODUCTION VIRTUAL TAPE SOLUTION

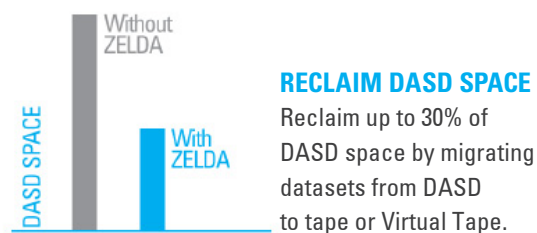
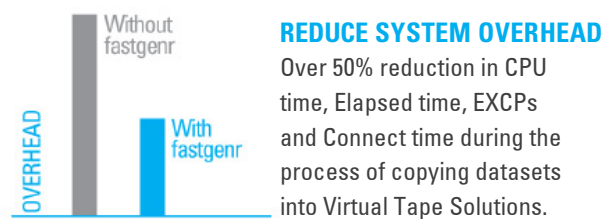
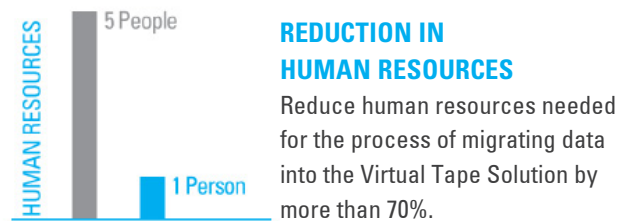
As the Virtual Tape Solution starts to reach its capacity, ZELA can off-load idle or unwanted datasets and stack them onto any external media of choice that can reside within your data center or relocate them to your disaster recovery site.

DISASTER RECOVERY SUPPORT FOR VIRTUAL TAPE SOLUTIONS

For Disaster Recovery purposes, ZELA can make copies of all datasets that reside in a Virtual Tape Solution and optionally stack them onto any external media of choice providing data centers with complete recovery support.

VIRTUAL TAPE SOLUTION MANAGEMENT PACK

SEA provides The Virtual Tape Solutions Management Pack which is comprised of three program products: ZELA, ZELDA, and fastgenr. This set of tools was combined to give users the ability to achieve their desired goals utilizing less time and resources during the implementation of Virtual Tape Solutions. The following graphs demonstrate how the SEA Virtual Tape Solutions Management Pack can benefit your Enterprise:



ZELDA AND FASTGENR FEATURES & BENEFITS

ZELDA

Free up wasted DASD resources for future processing. Avoid excessive resource utilization by reducing thrashing during HSM migrations and recalls by accessing data directly from tape. Relocate DASD datasets to the medium of choice including Tape, Virtual Tape Solutions, and Robotic Facilities.

FASTGENR

fastgenr is a high-speed replacement for IEBGENR. By using fastgenr as the vehicle to speed up the process of copying sequential datasets, ZELA and ZELDA will perform more than 50% faster than any of its competitors and utilize less resources during the process.

FASTGENR offers real dollar savings by reducing CPU time, EXCPs and Elapsed time.

Achieve the following benefits:

- Automated media and dataset management
- Simulate Virtual Tape before its arrival
- Disaster recovery support for Virtual Tape Solutions
- Eliminate manual intervention
- Reduce human error
- Reduce system overhead
- Faster performance
- Monitor Virtual Tape environments to ensure continuous efficiency
- Automated media conversion

HIGH PERFORMANCE REMOVABLE MEDIA MAXIMIZER

ZELA is a tape media storage optimization program product that gives storage management professionals the ability to manage today's highly sophisticated tape media resources with the utmost efficiency.

Whether the user's tape environment is a Manually Managed Tape Library, a Robotic Tape Library, or a Virtual Tape Solution, the purpose of ZELA is to help manage tape resources in an automated fashion.

Manual and Robotic Tape Libraries benefit from ZELA's method of dataset consolidation via its intelligent stacking, compression, reblocking, and media conversion. The objective using ZELA for Automated Tape Library Systems is to manage tape resources within the robotic facilities without manual intervention, benefiting the entire data center by providing maximum utilization of the hardware investment. The end result of the ZELA process is to provide automated scratch pool management by freeing wasted resources for future production processing.

In today's data center where Virtual Tape Solutions have become very prevalent, ZELA has been recognized as a primary tool for the implementation and management of this new technology.

EASILY MANAGED BY EXCEPTION WITH SIMPLE RULES

ZELA allows users to define rules which control datasets or groups of datasets using simple keywords. These rules specify an IDLE PERIOD (time since last accessed) for determining whether dataset processing is required. If the dataset has not been accessed for a length of time exceeding the user specified idle period, the dataset or group of datasets qualifies for Action processing. The following actions, which are defined in the rules, can be performed: Logical Ejection (including Re-consolidation, Tape-to-DASD, Tape-to-Optical, Electronic File Transfer, Dynamic Media Rotation) Media Conversion, or Physical Ejection.

HIGH SPEED COPYING OF DATASETS

Through high-speed copying of datasets, ZELA can relocate data from media within the automated tape library to external tape cartridges, tape reels, DASD, DASD arrays, optical storage devices, remote electronic tape vaults, other robotic facilities, or even back into the original facility for re-consolidation. The output devices can be local, remote, or in a disaster recovery location. As the data is being copied (logically ejected), datasets can be (optionally) selectively re-blocked, compressed, and stacked. The datasets processed by ZELA, and their ultimate destinations are determined by rules defined by the user.

ELECTRONIC FILE TRANSFER

Datasets are transmitted based upon user-defined maximum number of blocks, kilobytes, megabytes, or gigabytes. ZELA will interface with any data transfer software such as: BDT, NDM, XMIT, TTRAN, AFT, in-house developed systems, and more.

DISASTER RECOVERY

ZELA will allow the user to package critical production datasets on any medium of choice and transfer these files to a disaster recovery location via channel attachment, dual copy (media), or electronic file transfer. Using ZELASAFE, users can take measures to add extra protection and security to ensure their critical production datasets will be available when needed for disaster recovery.

TAPE MANAGEMENT SYSTEMS SUPPORTED

CA1, TLMS, RMM, tape2000, Control T, ZARA

OPERATING SYSTEMS SUPPORTED

MVS/ESA, MVSXA, OS/390 and z/OS

HARDWARE SUPPORTED

IBM, STK, Sutmyn, Hitachi Data Systems, Grau (Emass)

SELECTIONS FROM ZELA'S RESEARCH AND ANALYSIS REPORTS

The excerpts below show a cross-section of actual user results. The total savings generated by ZELA Research and Analysis reporting system is a comprehensive report on the overall benefits and savings that would otherwise require months of expensive research and time by your professional staff. All information is gathered from the MVS Catalog, TMS Catalog, and Robotic Control Datasets. Dataset conflicts are resolved via analysis of your data center's SMF historical data.

ZELA RESEARCH AND ANALYSIS REPORT

ZELA can be installed and perform a comprehensive analysis of your current environment in less than 1 1/2 hours, or if you choose, you may model and simulate conversion to 36 Trk, Magstar, or a Virtual Tape environment prior to your hardware arriving.

PRODUCT FEATURES AND BENEFIT SUMMARY

- SMF Statistical Analysis
- Tape to DASD Dataset Migration
- Conflict Free Intelligent Stacking
- Automated Scratch Pool Management
- ISPF Online Dialog Manager Interface
- Independently Manage Automated and Manual libraries
- Identify and Reclaim Wasted Media Resources
- Automated Media Conversions
- Datasets and Volume Security Protection
- Synchronizes MVS Catalogs, TMS Catalog, and Robotic Control Datasets
- Reduce Manual Intervention and Human Error
- Seamlessly Integrates with Virtual Tape
- Storage Archival Interfaces, HSM, DMS, FDR, ASM2, DFDSS
- Dynamic Media Rotation
- Dual Copy for Disaster Recovery
- Maximizes Utilization of Current Resources
- Capitalizes on Current Investments
- Local and Remote Vault Management
- Update Original Create Job Information
- Comprehensive Reporting
- Installs and Analyzes your current environment in under 1 1/2 hours
- Provides its own business case for cost justification of ZELA
- Return on investment in under 90 days
- Live technical support available 24 x 7
- Free trial available

SEA - SOFTWARE ENGINEERING OF AMERICA

Established in 1982, Software Engineering of America has built a global reputation as a leader in the field of data center software solutions. Over 10,000 data centers of all sizes and configurations are utilizing one or more of SEA's products, including 9 of the Fortune 10 as well as 425 of the Fortune 500 Companies.

SEA provides the highest quality technical support in the industry for all of its products, 24 hours a day, 7 days a week, worldwide.

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