



## Maximizing The Business Value-4IT Resources Within Your Organization

### **z/OS Catalog Management: How T-REX Functions & Reduces TCO**

T-REX comes to you from the original Softworks developers who devised the Mechanic and later Catalog Solution over 20 years ago. They applied their collective experience, incorporating modern design methodologies and technology to produce the latest, state-of-the-art catalog management product available today. T-REX can repair any VSAM object (BCS, KSDS, and Variable RRDS) with a broken index within minutes. The product complements and enhances IBM's Access Method Services (IDCAMS) utility and provides additional flexibility through keyword options and new functionality. This dynamic z/OS batch facility can multi-task many of its commands and provides full object support. It is faster, smarter and stronger than ever before. Compared to Catalog Solution, T-REX is [9 times faster & has triple the functionality](#), all for a lower cost...

### **T-REX Introduction**

As a product that has been engineered and developed using the latest techniques, amongst many other functions, T-REX:

- Prevents downtime by ensuring optimal cluster and catalog health at all times
- Improves data availability and reliability by allowing more frequent back-ups
- Automates cluster and catalog recovery and repair in record speed
- Pays for itself with just one broken object (catalog, cluster or VVDS)
- Generates easy-to-use reports

T-REX is also the only product to:

- Fully support the recataloging of multi-volume datasets
- Detect hardware changes and dynamically adjust performance parameters to ensure optimal processing
- Provides two powerful facilities, DRIMPORT and SCRUB, for Disaster Recovery processes
- Provide extensive DFSMSHsm (HSM) CDS auditing and reporting
- Identify and repair discrepancies between cataloged tape datasets and your TMC
- Support the CA-1, CA-Dynam/TLMS, CONTROL-T, DFSMSrmm and ZARA TMC's

### **Reduce Personnel Costs**

Catalog maintenance is one of the most difficult and time-consuming jobs in any Data Centre. Its complexity and importance usually dictates that senior level technicians be applied to the task. T-REX enables more junior staff to perform catalog maintenance "off peak" when Systems Programmers may not be available. Technicians that might otherwise be assigned to tediously restoring and rebuilding lost catalogs can then be used more productively. T-REX's diagnostic routines will identify catalog anomalies and either automatically fix the problem or generate control cards to correct them. The routines can also be run using ISPF panels or from a Windows or Linux workstation. This solution provides a savings of hundreds of man-hours per year that would normally be applied to diagnostic and corrective work.

### **Simple to Use - A One Command Mentality**

T-REX is the first catalog management tool for z/OS that delivers its primary functionality to automatically execute the required function or correct a problem without the need to build control cards. When control cards are built, the user must then run extra steps to correct the issues. T-REX does everything in one step. While the option to create control cards is supported, T-REX attempts to eradicate this extra work for the end user and the entire product is built around this philosophy.

### **Scrubbing: Why?**

*Scrubbing is a term used to describe the synchronization of a BCS with all associated DASD volumes. This process is often performed during disaster recovery. One approach to disaster recovery entails restoring a backup of the BCS, and a subset of your total DASD environment to simulate application recovery. For example, 300 DASD volumes may be related to a catalog and an application may reference 30 specific DASD volumes. The removal of catalog entries related to the other 270 DASD volumes that are not referenced is a process that "scrubs" or cleans the catalog of unrelated entries. This seems like quite a bit of unnecessary work that wastes valuable disaster recovery test time. Most catalog recovery products today concentrate on restoring the entire BCS, without allowing you to selectively target required entries.*

*The T-REX DRIMPORT command uses "Intelligent Selection" to restore catalog entries that are required and so will be used, thus eliminating the need for "scrubbing". DRIMPORT allows you to selectively IMPORT specific records (keys), record types, and datasets residing in part or wholly on specific volumes from an AMS/E EXPORT of a BCS. The DSN, XDSN, RANGE, and XRANGE keywords are used to select BCS keys (I.E. data set names). The RECORDTYPE keyword provides additional flexibility to further select specific BCS record types (ATL, GDG, NonVSAM, VSAM, UCAT).*



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### **Reduce Software Costs - Simplify Product Inventories**

T-REX's broad catalog management capabilities eliminate the need to purchase and maintain the many smaller utilities currently required for back-up and disaster recovery needs. Many sites have separate products for reporting, SMF forward recovery, tape management synchronization, backup and restore. This is a real support challenge when incompatibility issues arise during operating system upgrades. Retesting is often required and new maintenance must be applied to each and every product. With T-REX there is no need to learn and work with different utilities from an assortment of vendors. Consistency in use and syntax ensure precious minutes are not lost when you are trying to get your system back on-line. T-REX has everything needed for catalog maintenance and recovery in one comprehensive product, delivering simplicity and cost efficiency benefits.

### **Increase System Availability - Minimize Recovery Time**

Manually recovering catalogs and broken VSAM clusters can sometimes take days, even with experts on-site. Often transactions that occurred since the last backup are lost. With T-REX, not only can you recover and repair broken catalogs in minutes, but you can forward-recover the last transactions using System Management Facilities (SMF) data. T-REX handles every important catalog management task, including analyze, diagnose, report, backup and repair of ICF cluster (Integrated Catalog Facility) components.

### **Capable & Cost Effective**

T-REX requires very little in terms of resources or CPU time and affords huge performance advantages when compared with all other solutions. You save in terms of costs, avoid Production disruptions and can be assured of the best possible conditions when you access your files. T-REX gives you the ability to perform comprehensive z/OS cluster and catalog maintenance, repair, and recovery in a fraction of the time and with greater reliability and flexibility than with any other tool, consistently delivering the highest function and performance for the lowest cost

Learn more at our [T-REX Product Portal](#), download a [T-REX FAQ Document](#) or learn more about the latest features associated with [T-REX Version 5.3](#).

For more information regarding the T-REX solution, please feel free to [Contact Us](#) for a no obligation discussion regarding your requirements. Thank you.

### **Scrubbing: Why?**

*Default processing selects all keys and BCS record types. Optionally, GDG bases can be restored as "empty" (defined). The DEVT/XDEV, and VOL,XVOL keywords are used to select BCS keys (data set names) that reside on specific volume(s) and/or devicetype(s). Such features are often sold as separate products by other vendors.*

*One customer has reported that they were able to eliminate three to four hours of "catalog scrubbing" during their last disaster test.*

*"Intelligent Selection" has been a part of T-REX since the very first release of the product, not an afterthought.*

*As always, working smarter is always better than working harder. Therefore T-REX delivers functionality that minimizes customer downtime and simplifies the data restoration process, allowing the customer to reinstate service to their business users ASAP.*