



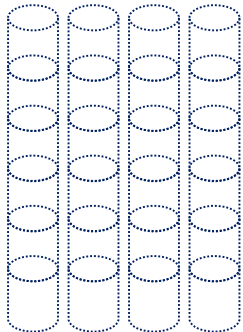
**Value-4IT**

# ***GSE UK Storage Management Working Group***

## ***Vendor Update: RTD V8.0.0C & T-REX V7.1***

# RealTime Defrag (RTD) Architecture: Introduction

Default: 1 STC  
4 DASD Volumes



MAS Option: 7 STCs  
28 DASD Volumes

**Fast Replication Option (FRO)**  
Via FlashCopy Version 2



EMC IBM HDS

**Preserve Mirror Option (PM)**  
Via FlashCopy Version 2



EMC IBM HDS

To minimize resource (E.g. I/O, CPU) usage, RTD seamlessly interfaces with advanced DASD subsystem functions for data movement (E.g. FlashCopy, SnapShot, PPRC), minimizing data movement & preserving volume mirrors.

Oracle



**Fast Replication Option (FRO)**  
Via Virtual Array (SVA) API

Oracle



**Preserve Mirror Option (PM)**  
Via Virtual Array (SVA) API

## Optimized I/O For Multiple Local & Remote DR/BC Data Copies

## **RealTime Defrag (RTD): V8.0.0C Release Information**

- ✓ **Enhanced EAV Support:** Full RELEASE, COMBINE & DEFRAG support for managed track & cylinder areas of EAV DASD volumes.
  - ❖ EAVAREA parameter for the volume level SET statement; TMA, CMA or BOTH options specify whether the track managed area (TMA), cylinder managed area (CMA) or both (BOTH) should be processed if the SET statement is selected. The CMAPOLICY parameter can be used to determine the “aggressiveness” of DEFRAG processing in the CMA area.
- ✓ **CMA & TMA processing** now benefits from new candidate extent selection & free space selection algorithms, delivering improved & more flexible DEFRAG performance in many cases. The option is invoked by specifying the new TMAPOLICY parameter on the volume level SET statement, or by specifying neither TMAPOLICY nor DEFRAGPOLICY.
- ✓ **RELEASE** function now ensures that an empty SMS compressed dataset does not get space reduced below the size necessary to perform compression when the dataset is filled.
- ✓ **ERASE** channel programs have been optimized, reducing the length of channel programs and time for execution, when performing free extent data erase operations.
- ✓ **Device type** statistics are now qualified with the model/type (E.g. 3390-3).
- ✓ **Volume count** of volumes processed in last cycle has been added to messages RTDD19I & RTDD25I. The MAXDATA percentage (if applicable) is now issued via a new message RTDD26I.
- ✓ **Fragmentation index** is no longer displayed via the z/OS LSPACE macro. The reduction in number of free extents on the volume is now displayed.

**Day #1 z/OS 2.1, extended function & user requirements support**

# **T-REX Catalog Management Architecture: Introduction**

## **ICF (BCS) VSAM Function**

*ANALYZE: BCS/VVDS Object*  
*AUDIT: BCS, VVDS, VTOC, DSN...*  
*COMPARE/SYNCH: ICF (BCS)*  
*DEL: BCS, VVDS, VTOC & VSAM*  
*DIAGNOSE: BCS/VVDS*  
*DRIMPORT: GDG, SCRUB...*  
*DUMP: Cluster, AIX & Path*  
*EXPORT: BCS, DSN & VVDS*  
*ICFRU: SMF, Forward recovery*  
*IMPORT: BCS, DSN & VVDS*  
*INTEGRITY: BCS, VVDS & VTOC*  
*LISTCAT: Ultra fast & flexible*  
*MODIFY: BCS/VVDS (xVR/DSCB)*  
*PRINT: BCS, VVDS, VTOC & VSAM*  
*REORG: OPEN, CAS, Simulate*  
*REPORT: BCS, VVDS, VTOC...*  
*REPRO: BCS/VVDS (Selective)*  
*RESTORE: Cluster, AIX & Path*  
*SCRUB: Erase bogus objects*  
*ZAP: BCS, VVDS, VTOC & VSAM*



## **T-REX: Access Method Services Extended (AMS/E)**

## **DFSMSHsm Function**

*LISTHSM: CDS, Volumes...*  
*HSMAUDIT: CDS/BCS & Fix*

## **TMS + VTL/ATL Functions**

*TAPEAUDIT: BCS-TMS synchron...*  
*TAPEREPORT: Media, GDG...*

## **TMS Function Support**

*AutoMedia/ZARA*  
*DFSMSrmm*  
*CA-1*  
*CA-Dynam/TLMS*  
*Control-M*

## **ATL/VTL Function Support**

*IBM LCS (z/OS)*  
*Oracle (STK) HSC*  
*CA-Vtape*  
*EMC/Bus-Tech DLm/MDL*

***Cradle-to-grave, intelligent, real-time, find & fix functionality!***

## **T-REX: V7.1 Release Information**

- ✓ *Record Level Sharing (RLS): Full support for ICF Catalog structures using the Record Level Sharing (RLS) facility.*
- ✓ *INTEGRITYCHECK provides several new options providing enhanced functionality for OBJ(ALIAS) and OBJ(CATALOGSTRUCTURE) processing.*
- ✓ *REORG command supports the ability to change associated STARTED TASK names to meet installation standards.*
- ✓ *PRINT SMF function supports selection by BCS name & JOB name.*
- ✓ *SYNCHRONIZE function as a new option to delete non-VSAM entries.*
- ✓ *TAPE RAPTOR function as a new command, EXTRACT, which builds an extract without the need to run an audit process first.*
- ✓ *ISPF Option 4.1 Catalog View has RLS Quiesced and Enabled columns; this same facility has been added to the I (Information) line command.*
- ✓ *ISPF Option 4.5 Catalog View has also added a working set of SMS commands to the menu.*
- ✓ *All ISPF dialogs that support the REPORT command option will save the output data set name for life of the session.*

**Day #1 z/OS 2.1, extended function & user requirements support**