1. Record Nr. UNINA9910824917103321

Autore	Lovelace Mary
Titolo	Converting to DFSMSrmm from TLMS / / [Mary Lovelace, Norbert Schlumberger]
Pubbl/distr/stampa	San Jose, CA, : IBM, International Technical Support Organization, 2004
Edizione	[2nd ed.]
Descrizione fisica	1 online resource (754 p.)
Collana	IBM redbooks
Altri autori (Persone)	SchlumbergerNorbert
Disciplina	005.4/35
Soggetti	Memory management (Computer science) Computer storage devices Data tapes
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	First ed. entered under title. "February 2004."
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Front cover -- Contents -- Figures -- Tables -- Examples -- Notices -- Trademarks -- Preface -- The team that wrote this redbook -- Become a published author -- Comments welcome -- Chapter 1. Introduction -- 1.1 DFSMSrmm overview -- 1.1.1 Environment -- 1.1.2 How is DFSMSrmm structured? -- 1.1.3 What are the DFSMSrmm interfaces? -- 1.1.4 Library and storage location management -- 1.1.5 Media types -- 1.1.6 Volume management -- 1.1.7 Policies for retention and movement -- 1.1.8 DFSMSrmm automated tape library support -- 1.1.9 Catalog synchronization -- 1.2 Conversion process overview -- Chapter 2. Planning for conversion -- 2.1 Planning considerations -- 2.1.1 Software maintenance levels -- 2.1.2 Timing of events in your installation -- 2.1.3 Change management -- 2.1.4 Limiting business risk -- 2.2 Conversion process -- 2.3 Conversion stages -- 2.3.1 Preparing a conversion plan -- 2.3.2 Learning about DFSMSrmm -- 2.3.3 Starting DFSMSrmm -- 2.3.4 Analyzing the current environment -- 2.3.5 Extracting data for conversion -- 2.3.6 Completing conversion -- 2.3.7 Parallel running and validation -- 2.3.8 Cutover to production -- 2.3.9 Measuring success -- 2.3.10 Full exploitation -- 2.3.11 Uninstall all vendor tape management code from your system -- Chapter 3. Preparing the environment -- 3.1 DFSMSrmm implementation -- 3.1.1 Installation wizards -- 3.1.2

Update installation-wide exits -- 3.1.3 Update and validate PARMLIB members -- 3.1.4 Creating a starting procedure -- 3.1.5 Define an alias for high-level qualifier RMM -- 3.1.6 Protecting DFSMSrmm resources -- 3.1.7 Defining RACF groups for DFSMSrmm -- 3.1.8 Create the DFSMSrmm control data set (CDS) -- 3.1.9 Create the DFSMSrmm CDS as extended format -- 3.1.10 Create the DFSMSrmm journal -- 3.1.11 Restart MVS with DFSMSrmm implemented -- 3.1.12 Starting and restarting DFSMSrmm.
3.1.13 Stopping DFSMSrmm -- 3.1.14 Setting up DFSMSrmm utilities -- 3.1.15 Running the installation verification program -- 3.2 Tailoring the DFSMSrmm ISPF dialog -- 3.2.1 Adding DFSMSrmm to ISPF panels -- 3.2.2 Modifying the DFSMSrmm panel -- 3.2.3 Other changes -- 3.3 Making TSO HELP information available to users -- 3.4 Verifying your DFSMSrmm implementation -- 3.4.1 Display PARMLIB options and control information -- 3.4.2 Add owner information -- 3.4.3 Add racks to DFSMSrmm -- 3.4.4 Add volumes to DFSMSrmm -- 3.4.5 Add bins to DFSMSrmm -- 3.4.6 Add a VRS to DFSMSrmm -- 3.4.7 Create tape data sets -- 3.4.8 Allocate inventory management data sets -- 3.4.9 Run inventory management -- 3.4.10 Confirm movements -- 3.4.11 Create reports -- 3.4.12 Run EDGINERS to initialize volumes automatically -- 3.4.13 Restore the CDS -- 3.4.14 Verify the CDS -- 3.4.15 Testing implemented exits -- 3.4.16 Testing application use of tape -- 3.5 Education -- 3.6 New operator procedures -- Chapter 4. DFSMSrmm ACS support -- 4.1 DFSMSrmm SMS ACS support -- 4.1.1 How it works -- 4.1.2 ACS support for non-system managed volumes -- 4.1.3 Non-system managed tape libraries -- 4.1.4 SMS read-only variables -- 4.1.5 Implementing SMS ACS processing -- 4.1.6 Migration considerations -- 4.2 Partitioning a SMS library -- 4.3 Using DFSMSrmm with virtual tape solutions -- 4.3.1 VTS support for stacked volumes -- 4.3.2 Stacked volume support for non-VTS -- Chapter 5. TLMS and DFSMSrmm -- 5.1 Terminology -- 5.2 Functions -- 5.3 Retention methods -- 5.4 Data fields -- 5.4.1 Volume -- 5.4.2 Data set -- 5.4.3 Data unavailable for conversion -- 5.5 Cross-reference -- 5.5.1 Volume information -- 5.5.2 Data set name information -- 5.5.3 Vital record information -- 5.5.4 Empty rack and bin information -- 5.5.5 Owner record information -- 5.6 Differences -- 5.6.1 Structure. 5.6.2 Open, close, and EOV interface -- 5.6.3 Shelf management -- 5.6.4 Retention -- 5.6.5 Deletion policies -- Chapter 6. Data extraction -- 6.1 Samples and programs -- 6.1.1 Sample data extraction jobs provided with DFSMSrmm -- 6.1.2 Sample extraction REXX execs provided with DFSMSrmm -- 6.1.3 Conversion programs and exits provided with DFSMSrmm -- 6.1.4 Macros provided with DFSMSrmm -- 6.1.5 Sample exits described in this book -- 6.2 Reviewing the current environment -- 6.2.1 Collecting information -- 6.2.2 Analyzing the record layouts -- 6.2.3 TLMS PARMLIB options -- 6.2.4 Inventory management and reports -- 6.2.5 Exits -- 6.2.6 Data set overwrite -- 6.2.7 BLP and NL processing -- 6.2.8 DFSMShsm interface -- 6.2.9 Tape initialization -- 6.2.10 Tape pool management -- 6.2.11 Security -- 6.3 Retention and movement -- 6.3.1 Retention management -- 6.3.2 Retention criteria -- 6.3.3 Storage location management -- 6.3.4 Movement policies -- 6.4 Interfaces -- 6.4.1 SMS interface -- 6.4.2 BTLS interface -- 6.4.3 Short-on-scratch processing interface -- 6.4.4 TSO and ISPF interfaces -- 6.4.5 Other interfaces -- 6.5 Sample extraction programs -- 6.6 TLMS data extraction -- 6.6.1 Preparing to run the extract program -- 6.6.2 The EDGCDYNM program -- 6.6.3 EDGCDYNM program limitations -- 6.6.4 EDGCDYNM program return codes -- 6.6.5 EDGCDYNM program messages -- 6.7 Am I ready to continue? -- Chapter 7. Building the CDS -- 7.1 Preparing to run

EDGCNVT -- 7.1.1 System-managed volumes -- 7.1.2 Pool prefixes -- 7.1.3 VRS conversion -- 7.1.4 Movement tracking date -- 7.2 EDGCNVT and EDGCEBIN processing -- 7.2.1 Running EDGCNVT and EDGCEBIN -- 7.2.2 EDGCNVT execution parameter -- 7.2.3 EDGCNVT input files -- 7.2.4 EDGCNVT output files -- 7.2.5 EDGCNVT return codes -- 7.2.6 EDGCNVT messages -- 7.3 EDGCEBIN processing -- 7.3.1 EDGCEBIN execution parameter.
7.3.2 EDGCEBIN input files -- 7.3.3 EDGCEBIN output files -- 7.3.4 EDGCEBIN return codes -- 7.3.5 6.3.5 EDGCEBIN messages -- 7.4 EDGRACS processing -- 7.4.1 EDGRACS input files -- 7.4.2 EDGRACS output files -- 7.4.3 EDGRACS return codes -- 7.5 EDGCNXIT user exit -- 7.5.1 EDGCNXIT input -- 7.5.2 EDGCNXIT output -- 7.6 DFSMSrmm CDS creation -- 7.6.1 Run EDGJLOAD -- 7.6.2 Create the DFSMSrmm CDS control record -- 7.7 Verifying the DFSMSrmm CDS -- 7.8 Running DFSMSrmm commands -- 7.8.1 Adding empty bins -- 7.8.2 Adding VRSs -- Chapter 8. Parallel running and validation -- 8.1 Preparing to run in parallel -- 8.1.1 Validate PARMLIB members -- 8.1.2 IEFSSNxx - Subsystem definition -- 8.1.3 EDGRMMxx - DFSMSrmm options -- 8.1.4 Check the DFSMSrmm procedure -- 8.1.5 Exits -- 8.1.6 CA-Disk interface -- 8.1.7 Verify authorization and security -- 8.1.8 Prepare inventory management using EDGHSKP -- 8.1.9 Inventory and movement reporting using EDGRPTD -- 8.1.10 Catalog synchronization -- 8.1.11 Check interfaces -- 8.2 Parallel processing -- 8.3 Starting tape and inventory management -- 8.3.1 First run of EDGHSKP with PARM(VRSEL) -- 8.3.2 Disabling the journal data set -- 8.3.3 Enabling the journal data set -- 8.4 Validating DFSMSrmm operation -- 8.4.1 Data set name list of non-scratch volumes -- 8.4.2 Scratch volume lists -- 8.4.3 Inventory by location -- 8.4.4 Multifile multi-volume reports -- 8.4.5 Comparing results -- 8.4.6 Checking WTORs and messages -- 8.5 Keeping databases synchronized -- Chapter 9. Cutover to production -- 9.1 EDGRMMxx PARMLIB options -- 9.1.1 OPTION command -- 9.1.2 VLPOOL command -- 9.2 Control access to DFSMSrmm functions -- 9.3 Activate exits -- 9.4 Remove TLMS -- 9.5 Modifying CA-Disk -- 9.6 Inventory management -- 9.7 Interface to tape libraries -- 9.7.1 System-managed IBM 3494 and IBM 3495 tape libraries -- 9.7.2 Other tape libraries.
9.8 Starting DFSMSrmm -- 9.9 Final testing -- 9.9.1 DB2 logging and backup -- 9.9.2 RACF tape protection -- 9.9.3 Robot interface -- 9.9.4 Non-system managed libraries SMS ACS support -- 9.10 Commitment to DFSMSrmm -- 9.11 Final activities -- 9.11.1 Uninstalling TLMS -- 9.11.2 Cleaning up your DFSMSrmm implementation -- 9.11.3 Implementing additional functions -- Chapter 10. Policy management -- 10.1 VRS related PARMLIB options -- 10.1.1 CATRETPD -- 10.1.2 MOVEBY -- 10.1.3 RETAINBY -- 10.1.4 REUSEBIN -- 10.1.5 VRSCHANGE -- 10.1.6 VRSJOBNAME -- 10.1.7 VRSMIN -- 10.1.8 VRSEL -- 10.2 VRS types -- 10.2.1 Data set VRS -- 10.2.2 Volume VRS -- 10.2.3 Name VRS -- 10.3 Specifying VRS parameters -- 10.3.1 DSNAME and NAME retention types -- 10.3.2 Special NAME retention type -- 10.3.3 Volume retention types -- 10.3.4 Retention limits -- 10.3.5 Movement policies -- 10.3.6 Release options -- 10.4 Chaining VRSs -- 10.4.1 VRS chain and subchain -- 10.5 Managing DFSMShsm tapes -- 10.6 DFSMS ACS support -- 10.7 Modifying VRS -- 10.8 Deleting VRS -- 10.9 Trial run -- 10.10 VRS examples -- 10.10.1 ADDVRS operand defaults -- 10.10.2 Adding a single VRS -- 10.10.3 VRS chain with one NEXTVRS operand -- 10.10.4 VRS chain with two ANDVRS operands -- 10.10.5 VRS chain with two subchains -- 10.11 Complex VRS chain with three subchains -- 10.12 VRS hints and tips -- Chapter 11. Tailoring your DFSMSrmm environment -- 11.1 IBM Tivoli

Workload Scheduler -- 11.1.1 IBM Tivoli Workload Scheduler overview -- 11.1.2 Schedule your inventory management tasks -- 11.1.3 Preparation -- 11.1.4 CDS verify -- 11.1.5 CDS backup -- 11.1.6 Inventory management -- 11.1.7 Erasing and labeling volumes -- 11.1.8 Scratch processing -- 11.1.9 Scratch reporting -- 11.1.10 Ejecting volumes from a system-managed tape library -- 11.1.11 Producing reports -- 11.1.12 Move confirmation. 11.1.13 Additional considerations.

Sommario/riassunto

DFSMSrmm is the IBM tape management system for OS/390 and z/OS platforms. As part of DFSMS, DFSMSrmm is completely integrated into the IBM storage management strategy. This allows easier installation and maintenance, as well as standard interfaces with other systems components, such as DFSMSdfp and DFSMShsm. DFSMSrmm provides a simple and flexible tape management environment, with support for all tape technologies, including IBM automated tape libraries, manual tapes, and other tape libraries. This IBM Redbooks publication is written for people who are planning to convert from TLMS to DFSMSrmm. We have designed this book to help you with all aspects of the conversion, from the early planning stage through implementation and customization of DFSMSrmm into your production system. We provide details on the differences between DFSMSrmm and TLMS and compare the terminology, data, and functions. We explain how to use the IBM-supplied sample conversion programs and get the converted data validated and ready for use in a production environment. Working samples that are ready for use are included.