IBM Education Assistance for z/OS V2R1

Line item: Reset Data Set Changed Indicator for RESTORE
Element/Component: DFSMSdss

Material is current as of October 2013

Agenda

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Trademarks

- See url http://www.ibm.com/legal/copytrade.shtml for a list of trademarks.
- Additional trademarks:
  - None.

Overview

- Problem: DSS unconditionally resets the data-set-changed indicator (DS1DSCHA) for all data sets restored during full volume restore
  - Share Requirements SSMVSS07002, SSMVSS07009
  - 5 Marketing Requirements
    - MR0418071919, MR0302074136, MR0409076057, MR1119075914, MR0604021857
- Solution: New keyword RESET(YES|NO|DUMP) during full volume RESTORE
  - Allow users to specify how DSS should set the DS1DSCHA indicator for all data sets restored to the target volume
- This keyword has been on DUMP for many years

Usage & Invocation

- RESET(YES|NO|DUMP) keyword
  - RESET(DUMP) - default
    - If RESET is specified during DUMP FULL, then the target will resemble volume **after** it was dumped
    - DS1DSCHA bits will be turned off for all data sets residing on volume
  - RESET(YES)
    - DS1DSCHA bits will be turned off for all data sets residing on volume
    - This is behavior prior to V2.1
  - RESET(NO)
    - The target will return to the state **prior** to the dump
      - DS1DSCHA bits for data sets on volume will remain untouched
    - If RESET is not specified during DUMP then this essentially becomes default
    - This applies to volumes dumped prior to V2.1
  - New options also provided in ADRUFO (installation exit parameter list) to override keyword specification

Usage & Invocation

This table indicates the status of the DS1DSCHA bits after RESTORE based on keywords used.

	DUMP	DUMP with RESET
RESTORE	NOT RESET	RESET
RESTORE RESET(DUMP)	NOT RESET	RESET
RESTORE RESET(YES)	RESET	RESET
RESTORE RESET(NO)	NOT RESET	NOT RESET

Usage & Invocation

- New RACF Facility Class for RESET keyword
  - Applies to both DUMP and RESTORE
  - The new RACF Facility Class profiles are
    - STGADMIN.ADR.DUMP.RESET for DUMP
    - STGADMIN.ADR.RESTORE.RESET.YES for RESTORE
  - When the corresponding profile is defined
    - Users without READ access to the corresponding RACF Facility Class profile will not be able to specify the RESET keyword
    - ADR707E will be issued

Interactions & Dependencies

- Software Dependencies
  - DFSMShsm added new keyword to utilize this function
    - RECOVERRESET(YES|NO|DUMP)
- Hardware Dependencies
  - None.
- Exploiters
  - DFSMShsm

Migration & Coexistence Considerations

- DFSMSdss is changing the default behavior regarding the DS1DSCHA (Data Set changed bit indicator) during RESTORE FULL and TRACKS operations.
- DFSMSdss will no longer unconditionally reset the DS1DSCHA bit during RESTORE FULL and TRACKS.
- To retain the previous behavior, the user must specify RESET(YES), or set the UFO8RESY bit via the ADRUIXIT Installation Exit Routine or via an application supplied user interaction modules (UIM).

Installation

- None.

Session Summary

- DFSMSdss changing the default behavior during RESTORE FULL and TRACKS
- The DS1DSCHA bit will not be unconditionally reset.
- New keywords and installation overrides will allow this behavior to be controlled by the user or installation.

Appendix

- Updates are made to:
  - *z/OS V2R1.0 DFSMSdss Storage Administration* (SC23-6868-0)